

IBM Sterling Gentran:Server for iSeries

# Technical Reference Guide

Release 3.6



This edition applies to the 3.6 Version of IBM® Sterling Gentran:Server® for iSeries® and to all subsequent releases and modifications until otherwise indicated in new editions.

Before using this information and the product it supports, read the information in Notices on page N-1.

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# Before You Begin

## How is the Documentation Organized?

Information about IBM® Sterling Gentran:Server® for iSeries® Release 3.6 is available through online help on Sterling Gentran:Server and from the user documentation (provided on CD-ROM). The online help contains reference material (for example, panel definitions, field definitions). It gives you quick access to relevant documentation as you are using the Sterling Gentran:Server system. The user documentation includes procedures (“how to...”) and are intended to complement and enhance the online help. This guide (the Technical Reference Guide) provides information on advanced Sterling Gentran:Server topics and gives you quick access to this information on your PC through its search feature.

Both the organization and flow of information in this manual follow the online organization of the Sterling Gentran:Server system and the natural way you might work as you set up your EDI system. For this reason, you can expect to find variations in the style and content of individual chapters as they are tailored to the needs of their particular audiences.

## In this Book

This manual is task-oriented. You can use the Table of Contents to locate information about specific tasks and procedures. The index, on the other hand, can help you if you need information regarding individual panels or field definitions. For more detailed descriptions of individual panels and field definitions as they apply to each panel, please use the online help.

# What is in Each Chapter?

## 1. Processing

The Processing chapter discusses the work performed by the Sterling Gentran:Server system to convert the formats of the data transmitted between you and your Trading Partner. This includes Outbound Processing, which translates your application data *to* the chosen Standard, and Inbound Processing, which translates the EDI standard documents you receive *from* your Trading Partner.

## 2. Global Parameters

You can access the Global Parameters through the System Administration subsystem. This chapter describes the Global Parameters, discussing their valid values with the system-wide implication of each value and recommendations for the settings.

## 3. Partner Resolution

Partner Resolution is the method by which Sterling Gentran:Server locates a given Partner in the Partner file at various points during Inbound and Outbound Processing. This chapter explains Partner Resolution, first in general terms, and then specifically as it relates to the two most common Interchange envelopes, ISA and BG.

## 4. Splitting

This chapter explains the Splitting process, that Sterling Gentran:Server performs during Inbound Processing to sort EDI data into various intermediate files (Split Files) in preparation for the mapping to the application files.

## 5. System Considerations

This chapter reviews operational controls that can be used for fine-tuning your EDI system. Some of the topics included are: Functional Acknowledgments, Error Rejection and User Exits.

## 6. Message Center

Message Center is a centralized tool that provides a way to track and monitor the completion of selected procedures. This chapter provides procedures for using the Message Center.

## 7. Audit

This chapter covers the process of tracking and reviewing all incoming and outgoing EDI documents. It provides step-by-step instructions for auditing the Interchange Status, Group Status, and Transaction Status.

**8. Job Scheduler**

This chapter covers the tasks associated with the Sterling Gentran:Server Job Scheduler, which is a System Administration function that allows you to specify the dates, times, frequency, and other parameters for running jobs in an unattended mode.

The audience for this chapter is the EDI Coordinator or Security Officer (QSECOFR), who is normally responsible for these tasks.

**9. EDI Monitor**

The EDI Monitor is a System Administration function that allows you to monitor EDI Translation Processing. This chapter describes the EDI Monitor panels and explains how to use them to access vital processing information.

**10. Network Command Interface**

The Network Command Interface is a System Administration function that provides access to the Network Control functions. This chapter explains how to use the Network Command Interface to automate the process of editing the scripts used for the INS-Tradinet network.

**11. Batch Error Message File**

The Batch Error Message file contains system message errors that are used in the inbound and outbound processing programs. This chapter describes the primary fields in the file and the procedures for using the Batch Error Message panels.

**12. Program and Command Names**

This chapter contains easily accessible tables of Program IDs and their corresponding Program Names. These tables are helpful if you plan to place the Sterling Gentran:Server programs in your menu structure. Programs can be executed from any command line by using the customized call command, EXCPGM, provided by Sterling Gentran:Server.

**13. Batch Table Maintenance API**

The Batch Table Maintenance API (application program interface) is a utility that provides an alternative method for creating and maintaining Sterling Gentran mapping tables. This chapter provides procedures for using the panels and describes the record file layouts for API work files.

**14. System Messages**

This chapter describes system messages encountered by users of Sterling Gentran:Server for iSeries. It contains messages, compiled from Sterling Gentran:Server Customer Support lists and “hot-line” calls, as well as the actions necessary to resolve the issues. This chapter can be used for troubleshooting should a problem implementing Sterling Gentran:Server information occur.

## What is in Each Chapter?

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Included in this chapter are all core processing messages specific to the Sterling Gentran:Server for iSeries system. Each core message in this chapter contains the following information:

- Message number
- Message as it displays on the panel
- Description of the system message.

In addition, each system message is documented according to the following format:

- Explanation: a brief explanation of the message and/or situation that lead to the issuance of the message
- Corrective Action: system action and user action necessary after a message is issued.

# Other Sterling Gentran:Server for iSeries Manuals

The Sterling Gentran:Server for iSeries documentation set includes several other manuals and instructional materials. The following publications are available as part of the licensed system:

- **IBM® Sterling Gentran:Server® for iSeries® Release 3.6 Manager's Implementation Planner**

The *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 Manager's Implementation Planner* is designed to assist you with the process of collecting, organizing and prioritizing the information required to successfully implement EDI. The Planner includes EDI tutorial materials and other planning and implementation materials.

- **IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide**

The *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide* provides information on how to set up the Sterling Gentran:Server system. Both the organization and flow of information in this manual follow the online organization of the Sterling Gentran:Server system and the natural way you might work as you set up your EDI system.

- **IBM® Sterling Gentran:Server® for iSeries® Release 3.6 Communications Guide**

The *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 Communications Guide* includes a communications tutorial, detailed descriptions of communication configurations, and trouble shooting techniques.

- **IBM® Sterling Gentran:Server® for iSeries® Release 3.6 Release Notes**

The *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 Release Notes* describe system enhancements and new functionality that have been incorporated into this release. Please read the 3.6 Release Notes carefully prior to installing Sterling Gentran:Server.

The Impact section of the Release Notes gives users of previous Sterling Gentran:Server for iSeries releases information on structural changes, including any changes to commands, CLs, and database files. These may necessitate changes to your implementation of Sterling Gentran:Server for iSeries. Please read the Impact section carefully prior to installation of this version of Sterling Gentran:Server.

- **IBM® Sterling Gentran:Server® for iSeries® Release 3.6 Installation/Conversion Guide and Cumulative Fix Guide**

The *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 Installation/Conversion Guide* and *Cumulative Fix Guide* provide step-by-step installation and conversion instructions. Please read all the instructions prior to beginning the installation.

## How to Get Help

IBM® Sterling Customer Center provides a wealth of online resources that are available around the clock to enrich your business experience with IBM® Sterling Gentran®. By using Sterling Customer Center, you gain access to many self-support tools, including a Knowledge-Base, Documentation, Education, and Case Management. Access Sterling Customer Center at <http://customer.sterlingcommerce.com>.

Once logged in, select **Support Center** from the top navigation menu, and then locate Sterling Gentran product-specific support information from the left navigation menu.

Additionally, our Customer Support Reference Guide outlines our support hours, contact information, and key information that will enhance your support experience with us. For detailed information about Customer Support, please refer to the Customer Support Reference Guide accessible from the login page. (<http://customer.sterlingcommerce.com>)

**1 Processing****In this Chapter**

This chapter describes the operations that the Processing subsystem performs and explains how you initiate those operations. Because the subsystem is comprised mostly of commands, the material that explains how to use the Processing functions contains panel descriptions rather than step-by-step instructions. The chapter covers the following topics:

- What is Processing? ..... 1-1
- What Does the Processing Subsystem Do? ..... 1-2
- Take a Closer Look at Outbound Processing ..... 1-3
- Take a Closer Look at Inbound Processing ..... 1-7
- Panel Quick Reference ..... 1-13
- Use the Processing Panels ..... 1-16
- Reports ..... 1-88
- Common Questions ..... 1-132

**What is Processing?**

Processing, which is also called “Translation Processing,” is the work Sterling Gentran:Server does to convert the format of the data transmitted between you and your trading partners. The best way to explain Processing is to divide it into the inbound and outbound components.

**Outbound processing** prepares your application output data for transmission to your trading partner. First, the data is translated into the proper EDI standard for your trading partner. The system then performs compliance checking.

**Inbound processing** converts the EDI standard documents received from your trading partners into the proper input format for your applications. The system first performs “compliance checking,” which verifies whether the data you received conforms to the EDI standard that your trading partner has agreed to use. The data is then converted into the application format that you specified in the Transaction Mapping subsystem.

---

# What Does the Processing Subsystem Do?

The Processing subsystem gives you the following capabilities:

- Translate outbound data from the application file format into the EDI format with the Process Transactions Outbound (PRCTRNOU) Command.
- Translate inbound EDI data into the application file format with the Process Transactions Inbound (PRCTRNI) Command.
- Add data from a user-defined file to the inbound or outbound queues with the Add Data to Queues (ADD) Command.
- Copy data from the inbound or outbound queue and add it to a user-defined file with the Extract Data from Queues (EXTRACT) Command.
- Display the number of records and the EDI Data in any of the inbound split files, the Slide file, the Reject file, or sub-split file with the inbound Split File Status Inquiry function.
- Selectively download the standards from CD into the online standards file with the Selective Standards Download (DWNSTD) command.
- Selectively download the Tradacoms standards from CD into the online standards files with the Tradacoms Selective Standards Download (DWNSTDTC) command.
- Selectively delete versions or transactions from the online standards file with the Standards Selective Delete (DLTSTD) command.
- Print and/or remove Sterling Gentran:Server work file members with the Remove Gentran work members (RMVGENMBR) command.
- Print the VAT Report database file with the Print VAT Report (PRTVAT), purge the VAT Report with the purge VAT Report (PRGVAT) command, or retrieve the VAT Report with the VAT Report (RTVVAT) command.
- Print the VAT Report database file with the Print VAT Report (PRTVAT) command.



# Take a Closer Look at Outbound Processing

This overview describes the operations that prepare your application data for transmission to your trading partners.

## Get Ready for Outbound Processing

Before you initiate outbound processing, extract from your master application files the application data to be transmitted. If necessary, reformat the data to prepare it for Processing. (SEE the “Application Definition” chapter in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide* for more information about these tasks.)

For outbound processing, you typically create one or more input files containing ALL like documents (such as purchase orders or invoices) for ALL trading partners, with the documents sorted by partner.

## What Happens During Outbound Processing?

Outbound processing includes a few actions initiated by the user and many “behind the scenes” operations that Sterling Gentran:Server performs. This section divides the process flow into six main stages:

1. You initiate outbound processing with the PRCTRNOU command
2. The System retrieves and prints processing options
3. The Outbound Mapper translates the application data
4. The Outbound Editor checks, logs, and compresses the data
5. The system adds the data to the outbound queue
6. You send the data to your partner with the STRCOMSSN command

In Figure 1.1, which depicts these stages, a numbered icon links each part of the flowchart to the corresponding text that follows it.

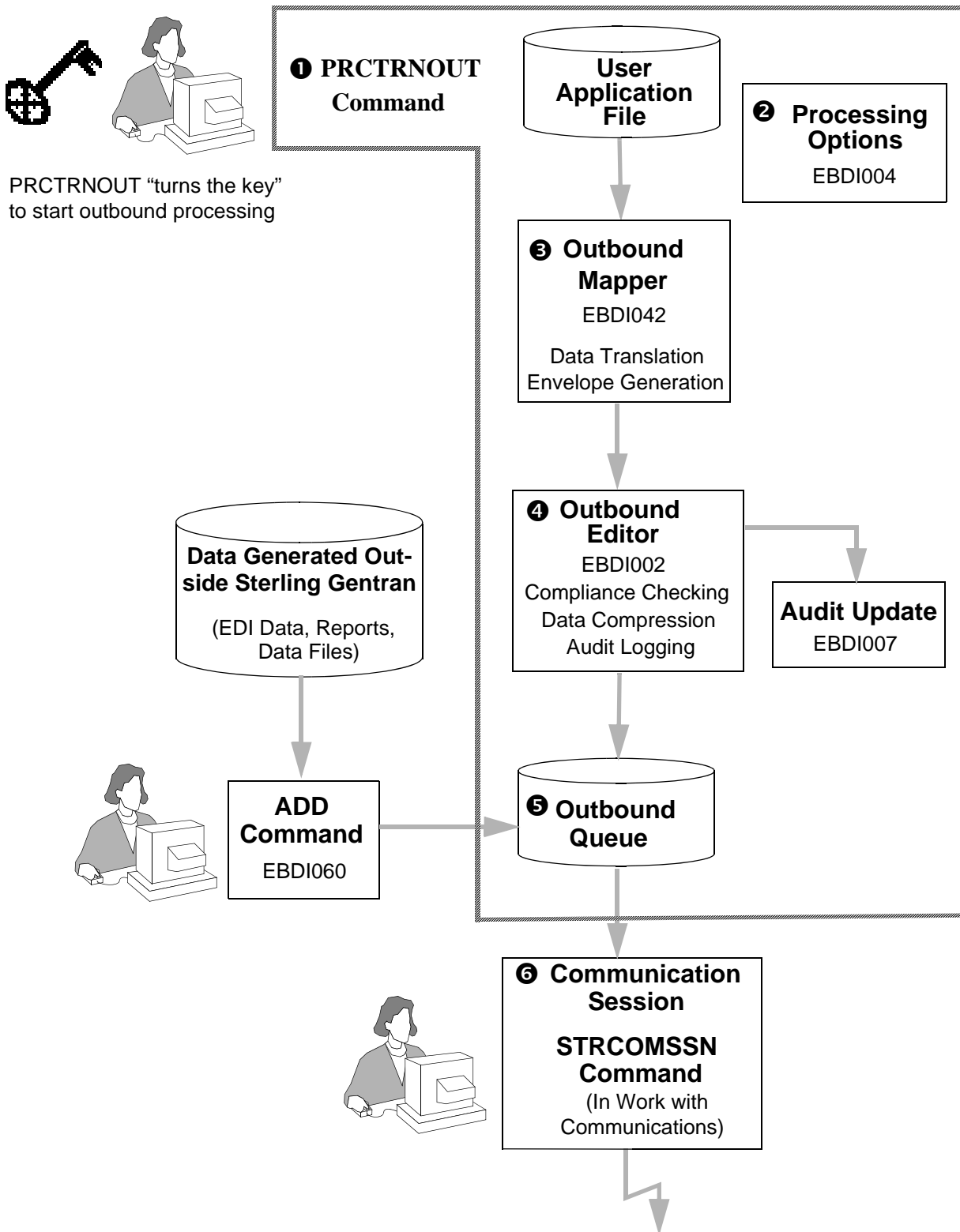


Figure 1.1 What happens during outbound processing?

## What Happens During Outbound Processing? (Continued)

### 1. You “Turn the Key” with the PRCTRNOU Command

Outbound processing begins when you run the Process Transactions Outbound (PRCTRNOU) command. To run this command, either prompt PRCTRNOU on the command line or display the command prompt panel (the Process Transactions Outbound panel) by selecting option ‘1’ on the Sterling Gentran:Server Processing menu (GENPRC).

Like any other Sterling Gentran:Server command, PRCTRNOU gives you three choices for execution: **submitting** the command to run as a batch job (immediately), **scheduling** the job (for a later time), or executing the command **interactively**. (These choices are explained later in this chapter.) In a production environment, you typically schedule this command to run on a regular basis.

### 2. The System Retrieves and Prints Processing Options

When processing is initiated, EBDI004 is called to retrieve and optionally print the processing options that are in effect for this run. This includes the parameters passed on the PRCTRNOU command as well as global parameters.

### 3. The Outbound Mapper Translates the Data

As Processing begins, the system passes the application data to the Outbound Mapper (Program EBDI042). This program uses the maps you have already created in the Transaction Mapping subsystem to convert the data into the proper EDI standard for the trading partner currently being processed. Each time the Mapper encounters a new trading partner in the application data file, it selects the appropriate map to be used for translation. (Each trading partner is identified in the application data file by the Application Partner Reference field, which you specify on the Application Partner Reference panel (EDIX559-FMT01).

The Mapper also generates the EDI control envelopes necessary to transmit the data and identify the sender and receiver. The Mapper uses data from the Partner file to create the three types of envelopes (transaction set, functional group, and interchange). The system prints any errors encountered during Mapping on the Mapper Outbound Processing Report.

### 4. The Outbound Editor Checks, Logs, and Compresses the Data

The system passes the translated EDI data to the Outbound Editor (Program EBDI002), which checks the data for compliance with the standard, logs the EDI data in the Audit file, and compresses the data.

During compliance checking, the Editor accesses several files. It checks the syntax of the EDI data against the **Standards file**. It also uses the **Global Parameters file** in conjunction with the **Partner file** and **Error Message file** to determine how to process the data (for example, what error rejection scheme or version overrides to use).

The Editor prints any syntax errors (such as invalid codes or missing mandatory elements) on the Editor Outbound Processing Report. To determine whether the data should be rejected due to the error(s), the Editor checks the **Error Rejection** global parameter and also examines the error rejection rules defined in the **Partner file**. Throughout the compliance checking process, the Editor also accesses the **Error Message file**, which contains Status Flags that affect error rejection.

The Editor logs the EDI data in the **Audit file** for each level (interchange, group, or transaction) specified in the **Global Parameters file**. You can use the Audit file in the future to check if your trading partner received your EDI data and whether it was accepted without serious errors. The Editor also compresses the EDI data at the level indicated in the Global Parameters file.

## 5. The System Adds the Data to the Outbound Queue

Finally, the system adds the batches of data (interchanges) to the outbound queue file, loading each interchange under the appropriate Communication Profile ID (The Communication Profile ID is defined for each trading partner in the Partner file. (SEE Chapter 3, "Partner" in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide* for more information). The system assigns each batch (interchange) a status of either 'Q' (Queued) for accepted data or 'QE' (Queued with Errors) for rejected data. The data goes on the outbound queue, regardless of whether it is to be sent (status = 'Q') or not sent (status = 'QE'). This completes the outbound processing job (the operations initiated by PRCTRNOU command).

The ADD command allows you to load EDI data directly to the outbound queue, bypassing outbound processing. To run this command, either prompt ADD on the command line or display the command prompt panel (the Add Data to Queues panel) by selecting option '3' on the Sterling Gentran:Server Processing menu (GENPRC). This command is useful when you need to send EDI data to your trading partner before you have created the map or set up the partner in Sterling Gentran:Server. You can also use the ADD command to add non-EDI data to the queue.

## 6. You Send the Data to Your Partners

To transmit the EDI data directly to a trading partner or to a Value Added Network (VAN), you need to run the Start Communication Session (STRCOMSSN) command. To run this command, select one of the following:

- prompt STRCOMSSN on the command line
- display the command prompt panel by selecting option '30' (Start Session) on the Work with Communications panel (EDIX400-FMT01) or option '10' from the Sterling Gentran:Server Communications menu (GENCOM).

*You must execute a communications session for each VAN or direct-connect partner because the phone number and other communications information is unique to each Communications Profile. When the communications session begins for a send-only or send-receive session, Sterling Gentran:Server transmits the interchanges with a status of 'Q' to the trading partner with the specified Communication Profile ID. After transmission, the system changes the interchange's status to 'SN' (Sent Normally) or 'SA' (Sent Abnormally). If you need to send the interchange again, use option '2' (Revise) and change the status to 'Q' in the STS field on the Work with Outbound Queue Control panel (EDIX404-FMT01).*

# Take a Closer Look at Inbound Processing

This section describes the operations Sterling Gentran:Server performs on inbound data from the time you receive it from your trading partner in the form of a transaction set until the data has been converted into your application file format.

## Getting Ready for Inbound Processing

Before you initiate inbound processing, it is necessary to receive the transmitted data into the inbound queue file via a Communication Session. (This action is shown in the following flow chart.) To receive data from a VAN (value-added network) or directly from a trading partner, you need to run the STRCOMSSN (Start Communication Session) command.

To run this command, prompt STRCOMSSN on the command line, select option '30' (Start Session) on the Work with Communications panel (EDIX400-FMT01), or select option '10' from the Sterling Gentran:Server Communications menu (GENCOM). When a communications session begins for a receive-only or send-receive session, Sterling Gentran:Server receives all batches of data (interchanges) and adds them to the inbound queue file with a status of 'RN' (Received Normally) or 'RA' (Received Abnormally).

## What Happens During Inbound Processing?

Inbound processing includes a few actions initiated by the user and many "behind the scenes" operations that Sterling Gentran:Server performs. This section divides the process flow into twelve main stages:

1. The PRCTRIN Command initiates inbound processing.
2. The System retrieves and prints processing options.
3. The System extracts data from inbound queue.
4. The Inbound Editor compliance checks the data and generates acknowledgments.
5. The Envelope Generator builds envelopes for acknowledgments.
6. \$\$ADD records are added to acknowledgments for mailboxing.
7. The Outbound Editor checks the acknowledgments for compliance.
8. The Splitter sorts and routes the EDI data to the appropriate split files.
9. The Inbound Mapper translates the EDI data into the application format.
10. Your application interface program loads, reformats, and validates the data.
11. The EXTRACT command bypasses inbound processing.
12. You send the acknowledgments to your partner with the STRCOMSSN command.

In Figure 1.2, which depicts these stages, a numbered icon links each part of the flowchart to the corresponding text that follows it.

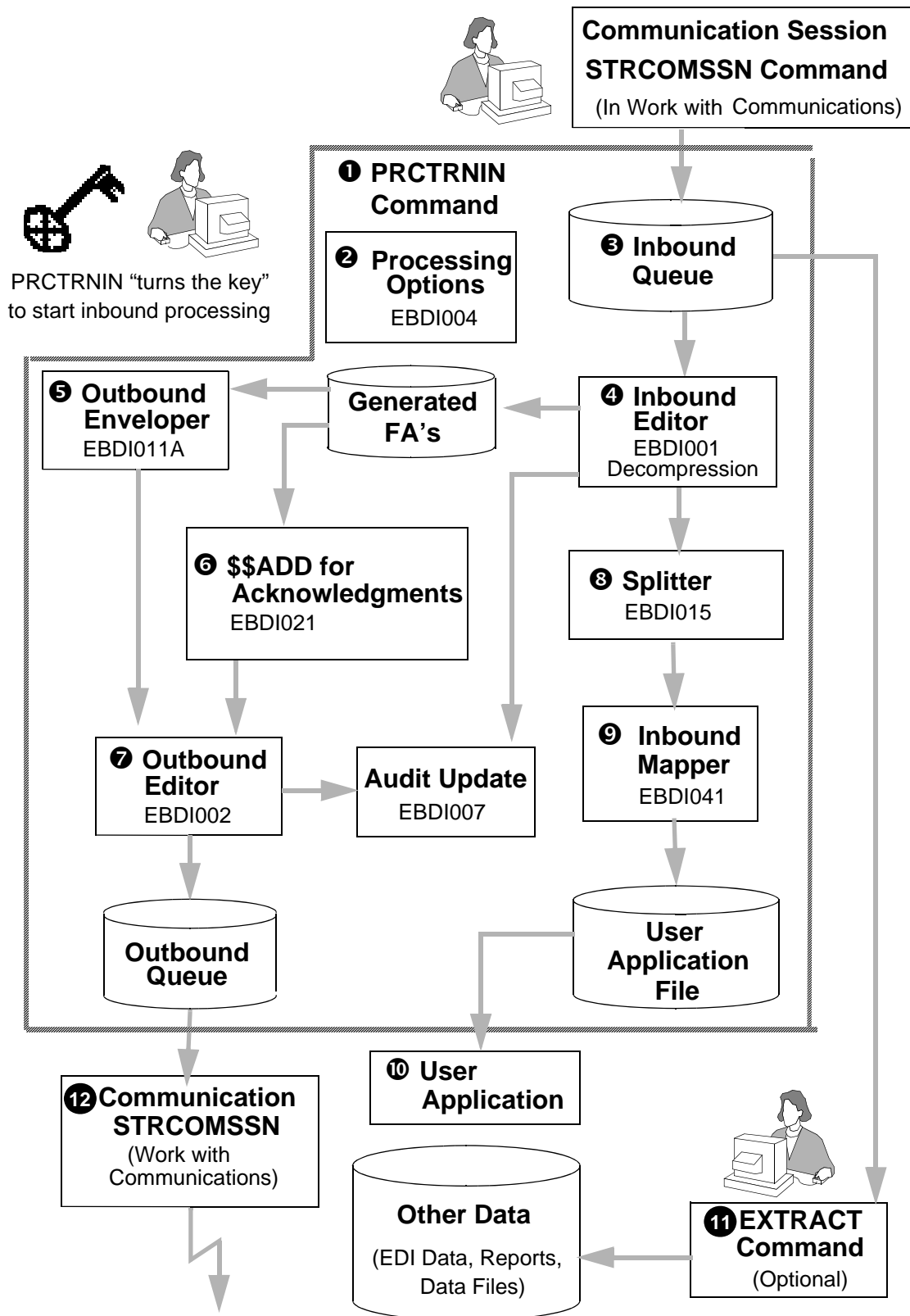


Figure 1.2 What happens during inbound processing?

## What Happens During Inbound Processing? (Continued)

### 1. You “Turn the Key” with the PRCTRIN Command

Inbound processing begins when you run the Process Transactions Inbound (PRCTRIN) command. To run this command, either prompt PRCTRIN on the command line or display the command prompt panel (the Process Transactions Inbound panel) selecting option ‘2’ on the Sterling Gentran:Server Processing menu (GENPRC).

Like any other Sterling Gentran:Server command, PRCTRIN gives you three choices for execution: **submit** the command to run as a batch job (immediately), **schedule** the job (for a later time), or execute the command **interactively**. (These choices are explained later in this chapter.) In a production environment, you typically schedule this command to run on a regular basis.

### 2. The System Retrieves and Prints Processing Options

When processing is initiated, EBDI004 is called to retrieve and optionally print the processing options that are in effect for this run. This includes the parameters passed on the PRCTRIN command as well as global parameters.

### 3. The System Extracts Data from the Inbound Queue

As processing begins, the system extracts the compressed EDI data batches (interchanges) from the inbound queue file for each Communication Profile ID identified on the PRCTRIN command. The system extracts all the interchanges that have a status of ‘RN’ (Received Normally).

### 4. The Inbound Editor Processes the Data and Acknowledgments

The system passes the extracted batches of EDI data (interchanges) to the Inbound Editor (Program EBDI001), which performs these operations:

- Unwraps and decompresses the EDI data
- Checks the data for compliance to the EDI standard
- Logs the data in the Audit file
- Generates functional acknowledgments for the EDI data received
- Optionally generates envelopes for generated acknowledgments
- Reconciles functional acknowledgments received in the Audit file against the EDI data previously sent.

The Editor unwraps the data so each segment starts a new record. The Editor also decompresses each element to the full field length.

During compliance checking, the Editor accesses several files. It checks the syntax of the EDI data against the **Standards file**. It also uses the **Global Parameters file** in conjunction with the **Partner file** and **Error Message file** to determine how to process the data (for example, what error rejection scheme or version overrides to use).

The Editor prints any syntax errors (such as invalid codes or missing mandatory elements) on the Inbound Editor Processing Report. To determine whether the data should be rejected due to an error, the Editor checks if the global parameter **Error Rejection** is set to ‘Y’ and also examines the error rejection rules defined in the **Partner file**. Throughout the compliance checking process, the Editor also accesses the **Error Message file**, which contains Status Flags that affect error rejection. In addition, the Editor uses other information from the Global Parameters file and Partner file to determine if it should generate functional acknowledgments, and if so, whether envelopes should be generated now or at a later time.

### 5. The Envelope Generator builds Envelopes for Acknowledgments

If the global parameter, Use CNTL for Acknowledgments, was active in Step 3 in the Inbound Editor, then the Envelope Generator (program EBDI011A) will be run to build envelopes by pulling values from the Partner file and adding the \$\$ADD routing records to the acknowledgments to ensure the data is placed under the correct communications profile IDs in the Outbound queue. If this parameter was not active in Step 3, the Editor would have generated the envelopes by using the incoming envelope values and switching the Sender and Receiver identifiers.

### 6. \$\$ADD Records Added to Acknowledgments for Mailboxing

If acknowledgments are generated and the global parameter, Use CNTL for Acknowledgments, was not active in Step 3, then the program EBDI021 is called to add the \$\$ADD routing records to the acknowledgments to ensure the data is placed under the correct communications profile IDs in the outbound queue.

### 7. The Outbound Editor Checks Acknowledgments for Compliance

If acknowledgments were generated by the Inbound Editor, the resulting acknowledgment file is passed to the Outbound Editor (EBDI002) to perform compliance checking and to load the acknowledgments to the outbound queue. (SEE the section “What Happens During Outbound Processing?”, Steps 4 through 6.)

### 8. The Splitter Divides, Sorts, and Routes the Data

The system passes the EDI data to the Inbound Splitter (Program EBDI015), which groups together like documents and routes them to a **split file**, a **sub-split file**, the **Slide file**, **Suspense file**, or the **Reject file**.

- A **split file** is one of 80 work files that the Splitter uses to sort EDI data by application type in preparation for mapping. (SEE the “Splitting” chapter for instructions on designating split files.)



- A **sub-split file** is a further division of the data within each of the 80 split files. You can use sub-split files to separate EDI data by more specific criteria than just application type by using an element in the data to assign it to a sub-split file. Each of the split files and the Slide file contains 80 sub-split files.
- The **Suspense file** holds data that is suspended by the Inbound Editor.
- The **Slide file** is a default file that holds any data that does not meet the requirements to go into one of the split files. The Slide file also stores any envelope errors that occur during inbound processing.
- The **Reject file** holds the inbound data that was marked for rejection by the Inbound Editor.

The way the Splitter sorts EDI data is similar to how you might sort your family's laundry. Suppose everyone in the family carries their laundry hampers into the laundry room. So as you begin, the laundry is grouped by person. You need to sort the laundry by colors before you wash it. In the same way, EDI data arrives on the inbound queue grouped by trading partner. The Splitter sorts the data by document type so the Mapper can translate the data more efficiently. Just as you wash the white clothes for several family members in one load, and then wash the bright clothes for everyone in another load, the Mapper translates all the invoices (from all the trading partners who transmitted invoices) together and all the purchase orders (from all the trading partners who transmitted purchase orders) in another group.

If the global parameter Split Output Files is set to '\*YES,' then as the system sorts the EDI data, it also writes the data to one of the 80 split files based on the data separation records you defined under your Partner ID. Recall that the Partner ID you set up for your own company specifically handles inbound splitting. (SEE the "Partner" chapter in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide*.) If no specific split file is defined in the data separation records for a particular document type, the Splitter writes that EDI data to the Slide file.

Sub-splitting is based on the Sub-Split table, which is defined on the Work with Sub-Split panel, EDIX350-CTL01 in the Mapping subsystem.

The Splitter stores any data that the Inbound Editor marked for rejection (in Step 3) in the Reject file. (SEE the "Splitting" chapter for more information.)

## 9. The Inbound Mapper Translates the Data

Finally, the system passes the EDI data from each split file to the Inbound Mapper (Program EBDI041). This program uses the maps you have already created in the Transaction Mapping subsystem to convert EDI data into the proper format for your applications. This completes the inbound processing job (the operations performed by PRCTRIN).

## 10. Your Application Interface Program Loads, Reformats and Validates the Data

To prepare the translated data to interface with your application system, you need to load the data into your master application files, reformatting and validating any information as necessary. Typically, you would write a proprietary (user-created, site-specific) application interface program to do these tasks. (SEE the "Mapping Getting Started" chapter in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide*.) Another option would be to send your application interface files to another system by using the MQSeries interface commands (SEE the

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“Using MQSeries” chapter in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 Communication Guide*).

## 11. You Can Bypass Inbound Processing with the EXTRACT Command

The EXTRACT command allows you to unload a data file from the inbound queue, bypassing the inbound translation processing. To run the EXTRACT command, either prompt the command on the command line or display the command prompt panel (the Extract Data from Queues panel) by selecting option ‘4’ on the Sterling Gentran:Server Processing menu (GENPRC). This command is useful if you receive non-EDI data through the Work with Communications subsystem, and you do not want to translate it. You can also extract any inbound EDI data that should not be translated within Sterling Gentran:Server (that is, EDI data that may need to be passed on to a separate division to be processed remotely). Also, by entering an MQ Link in the EXTRACT command, you can send this data to another system by using the MQSeries interface.

## 12. You Send the Data to Your Partners

To transmit the acknowledgments directly to a trading partner or to a Value Added Network (VAN), you need to run the Start Communication Session (STRCOMSSN) command. To run this command, prompt STRCOMSSN on the command line, display the command prompt panel by selecting option ‘30’ (Start Session) on the Work with Communications panel (EDIX400-FMT01), or select option ‘10’ from the Sterling Gentran:Server Communications menu (GENCOM).

*You must execute a communications session for each VAN or direct-connect partner* because the phone number and other communications information is unique to each Communications Profile. When the communications session begins for a send-only or send-receive session, Sterling Gentran:Server transmits the interchanges with a status of ‘Q’ to the trading partner with the specified Communication Profile ID. After transmission, the system changes the interchange’s status to ‘SN’ (Sent Normally) or ‘SA’ (Sent Abnormally). If you need to send the interchange again, use option ‘2’ (Revise) and change the status to ‘Q’ in the STS field on the Work with Outbound Queue Control panel (EDIX404-FMT01).

## Panel Quick Reference

The following table shows the Processing panels, their purpose, and how to access them.

Panel Name	Purpose	Access Methods
GENPRC menu Sterling Gentran:Server Processing	Menu for Processing functions	<ul style="list-style-type: none"> <li>○ Select option '10' on the GENMAIN menu</li> <li>○ Enter 'GO GENPRC' on the command line</li> </ul>
PRCTRNOT Process Transactions Outbound	Set up parameters for outbound processing and submit	<ul style="list-style-type: none"> <li>○ Select option '1' on the GENPRC menu</li> <li>○ Prompt 'PRCTRNOT' on the command line</li> </ul>
PRCTRIN Process Transactions Inbound	Set up parameters for inbound processing and submit	<ul style="list-style-type: none"> <li>○ Select option '2' on the GENPRC menu</li> <li>○ Select option '22' on panel EDIX400-FMT01 or on panel EDIX407-FMT01</li> <li>○ Prompt 'PRCTRIN' on the command line</li> </ul>
ADD Add Data to Queues	Add data to the outbound or inbound queue	<ul style="list-style-type: none"> <li>○ Select option '3' on the GENPRC menu</li> <li>○ Prompt 'ADD' on the command line</li> </ul>
EXTRACT Extract Data From Queues	Remove data from the inbound or outbound queue	<ul style="list-style-type: none"> <li>○ Select option '4' on the GENPRC menu</li> <li>○ Select option '30' on panel EDIX404-FMT01 or on panel EDIX407-FMT01</li> <li>○ Prompt 'EXTRACT' on the command line</li> </ul>
EDIX260-CTL01 Split File Inquiry	Display and/or clear the data in split files, Slide file, Suspense file, or Reject file	<ul style="list-style-type: none"> <li>○ Select option '5' on the GENPRC menu</li> <li>○ Enter 'EXCPGM EDIX260' on the command line</li> </ul>
EDIX261-CTL01 Sub-Split File Inquiry	Display and/or clear the data in one of the 80 sub-split files for a specific split file	<ul style="list-style-type: none"> <li>○ Select option '12' on panel EDIX260-CTL01</li> <li>○ Enter 'EXCPGM EDIX261' on the command line</li> </ul>

Panel Name	Purpose	Access Methods
Display Physical File Member (iSeries DSPPFM command)	Display contents of a split or sub-split file	<ul style="list-style-type: none"> <li>○ Select option '5' on panel EDIX260-CTL01 or on panel EDIX261-CTL01</li> </ul>
Print Physical File Member (EBDI260)	Print contents of a split file or sub-split file	<ul style="list-style-type: none"> <li>○ Select option '6' on either panel EDIX260 or on panel EDIX261</li> </ul>
DWNSTD Standards Selective Download	Select versions or transactions to be loaded from CD	<ul style="list-style-type: none"> <li>○ Select option '6' on the GENPRC menu</li> <li>○ Prompt 'DWNSTD' on the command line</li> </ul>
DLTSTD Standards Selective Delete	Delete versions or specific transactions from the online standards	<ul style="list-style-type: none"> <li>○ Select option '7' on the GENPRC menu</li> <li>○ Prompt 'DLTSTD' on the command line</li> </ul>
RMVGENMBR Remove Gentran Work Members	Remove Gentran work members created during batch processing	<ul style="list-style-type: none"> <li>○ Select option '8' on the GENPRC menu</li> <li>○ Prompt 'RMVGENMBR' on the command line</li> </ul>
PRGVAT	Purge VAT reporting data	<ul style="list-style-type: none"> <li>○ Select option '9' on the GENPRC menu</li> <li>○ Prompt 'PRGVAT' on the command line</li> </ul>
RTVVAT	Retrieve VAT records from tape or save file	<ul style="list-style-type: none"> <li>○ Select option '10' on the GENPRC menu</li> <li>○ Prompt 'RTVVAT' on the command line</li> </ul>
PRTVAT	Print VAT reports	<ul style="list-style-type: none"> <li>○ Select option '11' on the GENPRC menu</li> <li>○ Prompt 'PRTVAT' on the command line</li> </ul>

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Panel Name	Purpose	Access Methods
DWNSTDTC Tradacoms Standards Selective Download	Select Tradacoms versions or transactions to be loaded from CD	<ul style="list-style-type: none"><li>○ Select option '12' on the GENPRC menu</li><li>○ Prompt DWNSTDTC on the command line</li></ul>
RPLCHARS Replace characters	Find and replace characters on a user-defined file	<ul style="list-style-type: none"><li>○ Select option '13' on the GENPRC menu</li><li>○ Select option '44' on the GENCOM menu</li><li>○ Prompt 'RPLCHARS' on the command line</li></ul>

# Use the Processing Panels

## Access the Processing Subsystem

To access the Processing subsystem, select option '10' (Processing Menu) on the GENMAIN menu, as shown below, and press **Enter**.

```
GENMAIN          Sterling Gentran:Server for iSeries Version 3.6
                                     System:   ISDDEV01

Select one of the following:

  1. Work with Partners
  2. Work with Application Definition
  3. Mapping Menu                (GENMAP)
  4. Communications Menu        (GENCOM)
  5. Work with Standards
  6. Work with Environment Control

  8. Audit Menu                 (GENAUD)
  9. Message Center Menu       (GENMCC)
 10. Processing Menu           (GENPRC)
 11. System Administration Menu (GENSYS)
 12. Viewpoint Menu            (GENVPT)
 13. Gentran File Tracking Menu (GENFILETRK)
 14. Gentran:Server Search Index

                                     More...

Selection or command
===> 10

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F13=User Support
```

Figure 1.3 Selecting Processing from the Main Menu (GENMAIN)

Another way to access the Processing subsystem is by typing 'GO GENPRC' on the command line and pressing **Enter**.

## Functions in the Processing Subsystem

After you type option '10' on the GENMAIN menu, the system displays the Sterling Gentran:Server Processing menu (GENPRC), which is shown below.

```

GENPRC                               Sterling Gentran:Server Processing 3.6
                                       System:   ISDDEV01

Select one of the following:

    1. Process Outbound Files           (PRCTRNOUT)
    2. Process Inbound Files           (PRCTRININ)
    3. Add Data to Queues               (ADD)
    4. Extract Data from Queues        (EXTRACT)
    5. Inbound Split File Status Inquiry
    6. Standards Selective Download    (DWNSTD)
    7. Standards Selective Delete      (DLTSTD)
    8. Remove Gentran Work Members     (RMVGENMBR)
    9. Purge VAT Report Database       (PRGVAT)
   10. Retrieve VAT Report Database    (RTVVAT)
   11. Print VAT Reports               (PRTVAT)
   12. TRADACOMS Standards Selective Download (DWNSTDTC)
   13. Find Characters                 (RPLCHARS)

                                       More...

Selection or command
====> _____

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F13=User Support

```

Figure 1.4 Sterling Gentran:Server Processing menu (GENPRC)

The Processing menu (GENPRC) contains the following functions:

1. **Process Outbound Files** – Set up parameters for the PRCTRNOUT command, which translates outbound data (from your application format to the EDI format and placed on the outbound queue).
2. **Process Inbound Files** – Set up parameters for the PRCTRININ command, which translates inbound data (from the inbound queue in EDI format to your application file format).
3. **Add Data to Queues** – Set up parameters for the ADD command, which adds data from a user-defined file to the outbound or inbound queue.
4. **Extract Data from Queues** – Set up parameters for the EXTRACT command, which copies data from the inbound or outbound queue and adds it to a user-defined file.
5. **Inbound Split File Status Inquiry** – View or clear inbound EDI data that currently resides in any of the 80 split files or sub-split files, Slide file, Suspense file, and Reject file.
6. **Standards Selective Download** – Set up parameters for the DWNSTD command, which allows you to select the versions or transactions to be loaded from CD.

7. **Standards Selective Delete** – Set up parameters for the DLTSTD command, which deletes versions (or specific transactions in the versions) from the online standards.
8. **Remove Gentran Work Members** – Remove work members created during processing with the RMVGENMBR command.
9. **Purge VAT Report Database** – Purge VAT report data.
10. **Retrieve VAT Reports** – Retrieve VAT records from tape or save file.
11. **Print VAT Reports** – Print out reports on VAT data collected.
12. **Tradacoms Selective Standards Download** – Set up parameters for the DWNSTDTC command, which allows you to select the Tradacoms versions or transactions to be loaded from the CD.
13. **Replace Characters** – Find and replace characters on a user-defined file.

**NOTE**

All the Processing functions *except* option ‘5’ (Inbound Split File Status Inquiry) run commands. When you select a function that runs a command, the system displays a command prompt panel to help you define the parameters. This is the same panel the system displays if you “prompt the command” by typing it on the command line and pressing **F4** (Prompt).

## Choose How and When to Run the Processing Commands

There are three ways the Processing command can be run:

- Submit it to run as a batch job immediately – Press **Enter**. The defaults are set to submit the job to batch.
- Schedule it to run as a batch job at a later time – Type ‘\*YES’ in the Schedule Job parameter, press **F10** (Additional Parameters), and then press **Enter**. The system displays the Schedule Job panel (SCHJOB), which contains the job run parameters. (SEE the “Job Scheduler” chapter in this guide for more information.)
- Run it interactively (immediately) – Type ‘\*YES’ in the Run Interactively parameter and press **Enter**.

**NOTE**

Executing a command interactively locks up your terminal until the job is completed.



### Execute Sterling Gentran:Server Commands in General

The three execution choices described in the previous section are available for most Sterling Gentran:Server commands. This includes the print commands you run from other subsystems (besides Processing) by selecting option '6' (Print). It also includes Processing commands assigned to option '30' and higher within other subsystems (other than Processing). For example, you can submit, schedule, or run the following commands:

- The Print Map (PRTMAP) command, which is run when you select option '6' (Print) on the Work with Transaction Mapping panel (EDIX500-FMT01)
- The Purge Audit File (PRGAUD) command, which is run when you select option '40' (Purge Audit) on the Work with Audit panel (EDIX251-FMT01).



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**NOTE**

SEE the "Job Scheduler" chapter in this guide for more information.

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## Process Outbound Files

The Process Outbound Files function runs the PRCTRNOU command. This command initiates outbound processing, which prepares your EDI data for transmission to your trading partner(s). The following list highlights the Processing operations that the PRCTRNOU command performs:

- The system extracts data from the application file based on the Application Data ID parameter.
- The Mapper converts the extracted data into variable length EDI format.
- The Mapper also creates three types of envelopes (transaction set, functional group, and interchange) using data from the Partner file, or, optionally, from the application.
- The Outbound Editor checks the data for compliance with the EDI standards; logs the data in the Audit file; and compresses the data.
- The system adds the data to the outbound queue, where it is stored until you run the Start Communication Session (STRCOMSSN) command to transmit the data to your trading partner(s).

When you select '1' (Process Transactions Outbound) on the GENPRC menu, the system displays the PRCTRNOU panel. This is actually the same command prompt panel that the system displays if you type 'PRCTRNOU' on the command line and press **F4** (Prompt). The minimum information you need to provide on this panel is the Application Data ID.



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**NOTE**

To display an online description of any parameter on the PRCTRNOU panel, move the cursor onto the parameter and press **F1** (Help).

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To access the first PRCTRNOU panel shown in the following figure, select '1' (Process Transactions Outbound) on the GENPRC menu and then press **F10** (Additional Parameters). Press Page Down to display the second panel of parameters.

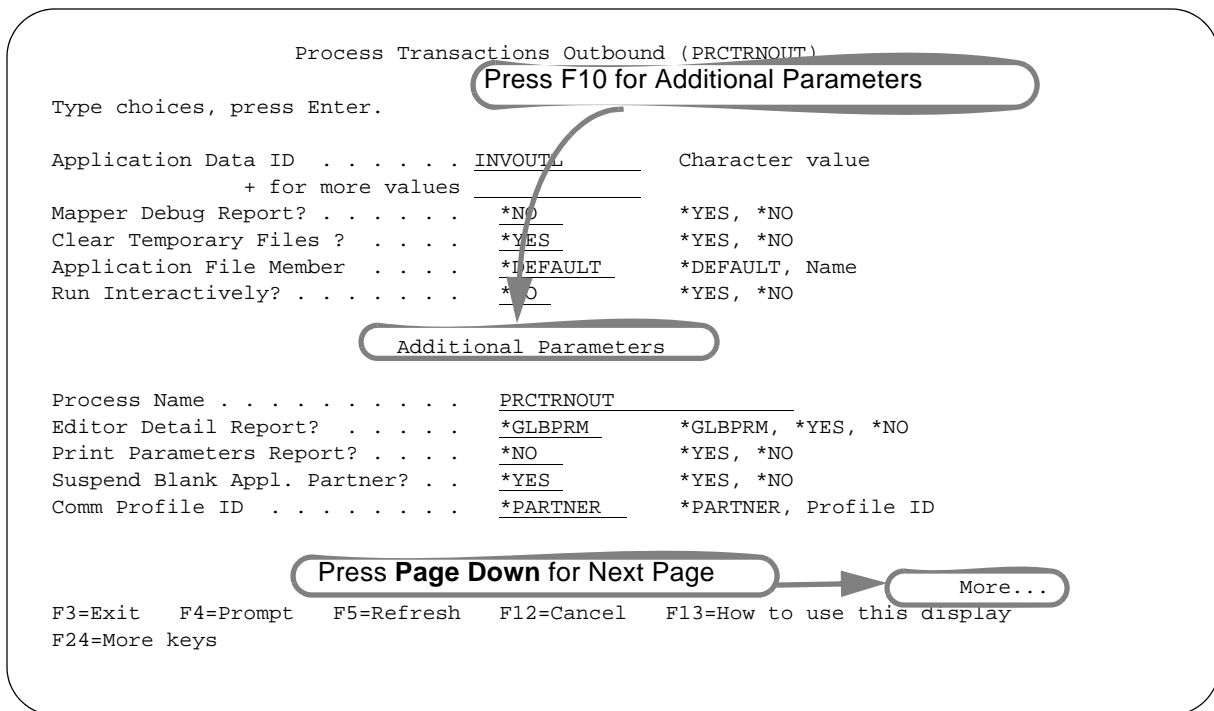


Figure 1.5 Process Transactions Outbound (PRCTRNOU) panel (Part 1)

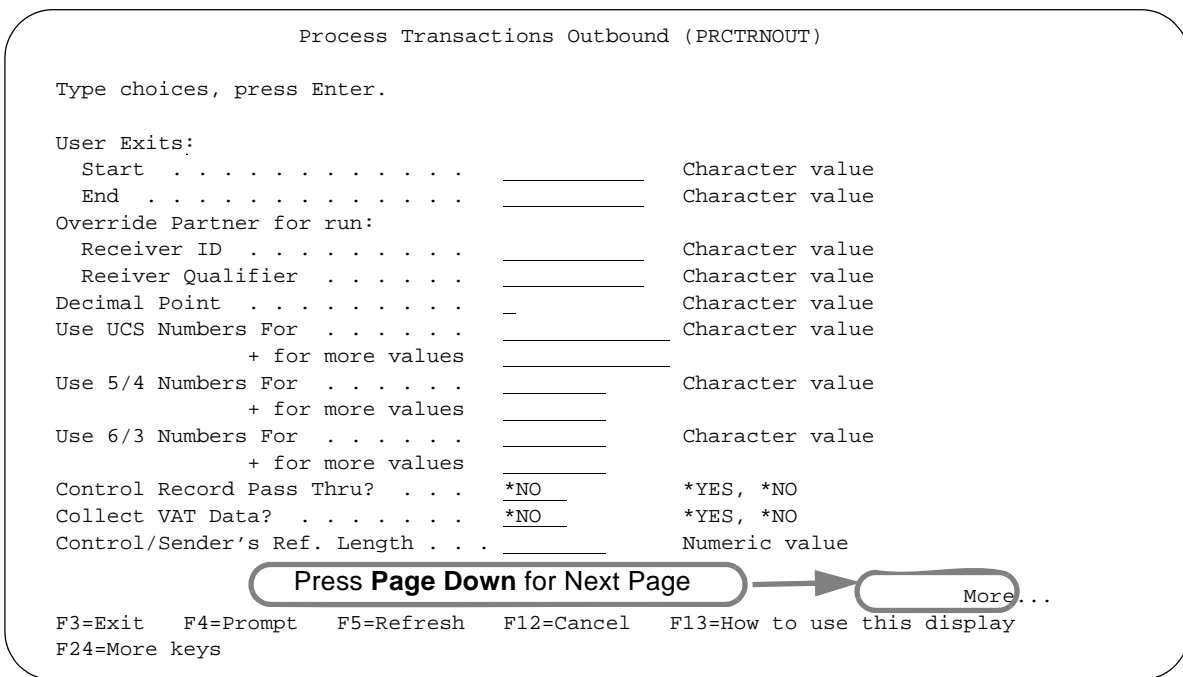


Figure 1.6 Process Transactions Outbound (PRCTRNOU) panel (Part 2)

```

Process Transactions Outbound (PRCTRNOU)

Type choices, press Enter.

Clear Values at Section Break?  *NO          *NO, *YES
MQ Link . . . . .                _____ Name
Batch ID . . . . .                _____

Schedule Job? . . . . .          *NO          *YES, *NO

F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
    
```

Figure 1.7 Process Transactions Outbound (PRCTRNOU) panel (Part 3)

Field Definitions

**Application Data ID**

A 10-position alphanumeric field used to enter the name of your application definition that you want to run through translation processing. The “+ for more values” field is used to enter either additional Application Data IDs to run through processing or a “+” symbol to access the Specify More Values for Parameter Appid panel where you may enter up to 25 Application Data IDs.

For a list of valid Application Data IDs, press **F4** (Prompt).

**Mapper Debug Report?**

A 4-position alphabetic field used to designate whether to print the first 80 characters of each EDI segment and application record, read or written, by the mapping program. If \*YES is entered in the field, the first 80 characters of each EDI segment and application record read or written by the mapper is printed. Otherwise, no action is taken. The default is \*NO – no action is taken.

**Clear Temporary Files?**

A 4-position alphabetic field used to designate whether or not to clear or purge the intermediate work files after the processing is complete. \*YES is the default for this field and it clears the intermediate files at the completion of processing. A value of \*NO in this field does not clear the files at completion of the processing.

**Application File Member?**

This parameter determines which member(s) will be used in your application file during the outbound process. A response of \*DEFAULT will process the \*FIRST member of the application file if the file type is Internal or Logical, or it will process \*ALL members of the application file if the file type is Physical. Enter the name of the member for the application file that is to process. This option is designed specifically for concurrent processing. (SEE the “System Considerations” chapter in this guide for more information about concurrent processing.)

**Run Interactively?**

This parameter allows you to perform the process interactively (immediately). If you select to run the command in an interactive mode (\*YES), you can monitor system messages that occur during processing. However, you are locked out of the system from the terminal the job was submitted on until the process is complete.

**Additional Parameters (F10)****Process Name**

This parameter is used to label the command for the Message Center. The default for this prompt is the command name, but it can be changed to any 15-byte field to help further identify this process. The process name displays on the first panel of the Work with Message Center screen (EDIX600) and can be sorted and reported on using this name.

**Editor Detail Report?**

This 7-position alphabetic field enables you to override the global parameter, Detail Report, for the outbound process. These are the valid values:

- \*GLBPRM This is the default. The Editor uses the current setting for the global parameter.
- \*YES The Editor prints detail information on the Editor reports regardless of the global parameter, Detail Report, setting.
- \*NO The editor does not print any detail information on the Editor reports regardless of the global parameter, Detail Report, setting.

**Print Parameters Report?**

This 4-position alphabetic field determines whether the Processing Parameters Report (EBDI004) is printed during processing. The report includes the values used on the processing command (PRCTRIN/PRCTRNOUT) and the current settings for the global parameter. The default, \*NO, suppresses the EBDI004 report. Type \*YES to print the report.

**Suspend Blank Appl. Partner?**

This 4-position alphabetic field determines whether the document is suspended when a blank application partner reference is encountered. If the Partner ID is passed to the mapper from the application data and the application field containing the partner is equal to blanks, this parameter determines how the mapper processes the document.

- \*YES This is the default. The document is suspended and an error message is printed on the mapper report indicating the Partner ID could not be found.
- \*NO The document is not suspended and no error message is printed. The mapper uses the Partner ID processed previously to process the document with the blank Partner ID.

**CAUTION**

If processing Tradacoms data, you need to specify \*NO to prevent '611' errors.

**Comm Profile ID**

This 8-position alphanumeric field enables you to override the Communications Profile ID defined for each partner profile by specifying a profile ID for the entire run. When the default, \*PARTNER, is selected, the mapper uses the Comm Profile defined in the partner profile (at the interchange or group level) to route the data to the profile on the outbound queue. When a specific Profile ID is used, the Comm Profile for the partner is overridden and all the data for the run is routed to the profile on the outbound queue. This option is useful for performing testing.

**User Exits**

Identifies user-written programs that can be run during outbound processing. This parameter has the following two elements:

- Start A 10-position alphanumeric field used to enter the name of a program to be run before the mapping process begins.
- End A 10-position alphanumeric field used to enter the name of a program to be run at the end of the mapping process.

**Override Partner for Run**

Specifies the Receiver ID and Qualifier to be used with all transactions in this run. The values in this parameter override the values in the Application Partner Reference. This parameter has the following two elements:

- Receiver ID A 32-position alphanumeric field used to specify the Receiver ID.
- Receiver Qualifier A 4-position alphanumeric field to specify the Receiver ID Qualifier.

**Decimal Point?**

A 1-position field used to enter either a comma (“,”) or a period (“.”) to indicate the decimal point in a real type numeric field. The character “.” is recommended.

**NOTE**

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A comma (“,”) instructs the mapper to interpret a comma as a decimal point in the application file.

---

**Use UCS Numbers For**

A 12-position alphanumeric field used to enter a version for which UCS numbers will be used. TDCC standards allow for special numbering for transaction envelopes. These control numbers are a combination of the low-order characters in the group control number and an incrementing number for each transaction within the group. The “Use UCS Numbers for” parameter will cause special numbers to be generated for every document using that version as follows:

Rail, Motor, Air	A nine-digit number will be generated with the first five digits of the number coming from the last five digits of the group control number. The last four digits of the number will begin with “0001” and increment by one for each transaction within the group.
UCS, Wins	An eight-digit number will be generated with the first five digits of the number coming from the last five digits of the group control number. The last three digits of the number will begin with “001” and increment by one for each transaction within the group.
All other versions	A nine-digit number will be generated with the first six digits of the number coming from the last six digits of the group control number. The last three digits of the number will begin with “001” and increment by one for each transaction within the group. The “+ for more values” field is used to enter a version for which UCS numbers should be used during outbound processing, or a “+” symbol to access the Specify More Values for Parameter UCS panel where you may enter up to 20 versions for which UCS numbers should be used for outbound processing.

**Use 5/4 Numbers For**

A 6-position alphanumeric field used to enter a transaction for which UCS numbers will be used. TDCC standards allow for special numbering for transaction segments. If this field is used, Sterling Gentran:Server takes the last five digits of the functional group control number and places them in the first five digits of the transaction control number. The last four digits of the transaction control number begin with “0001” and increment by one for each transaction within this group. This parameter overrides the “Use UCS Numbers for” parameter if they are used together. The “+ for more values” field is used to enter a transaction for which UCS numbers should be used during outbound processing, or a “+” symbol to access the Specify More Values for Parameter T54 panel where you may

enter up to 20 transactions for which UCS numbers should be used for outbound processing.

**Use 6/3 Numbers For**

A 6-position alphanumeric field used to enter a transaction for which UCS numbers will be used. TDCC standards allow for special numbering for transaction segments. If this field is used, Sterling Gentran:Server takes the last six digits of the functional group control number and places them in the first six digits of the transaction control number. The last three digits of the transaction control number then begin with “001” and increment by one for each transaction within this group. The “+ for more values” field is used to enter a transaction for which UCS numbers should be used during outbound processing, or a “+” symbol to access the Specify More Values for Parameter T63 panel where you may enter up to 20 transactions for which UCS numbers should be used for outbound processing.

**Control Record Pass Thru?**

A 4-position alphabetic field used to instruct the mapper whether to build the CNTL records needed by the Envelope Generation program. If \*YES is entered in the field, the User Application program MUST create CNTL records.

This field is not used frequently. It should only be used when you want to have your application control the generation of outbound EDI envelopes. The default is \*NO so CNTL records are created by the Mapping program.

**Collect VAT Data?**

Respond with a \*NO if Value Added Tax (VAT) reporting is not needed. Respond with a \*YES if you want to collect the VAT data to generate a VAT report when processing EDIFACT – TAXCON or INVOIC messages, or if you are using Tradacoms, from the Invoice or Credit Notes messages.

**Control/Sender's Ref. Length**

This parameter provides the ability to control the length of the number used for the interchange control reference in the UNB segment (EDIFACT) and for the interchange sender's reference in the STX segment (Tradacoms). The value in the partner file defined for the UNB05 or STX05 elements must be initialized with a 14-digit numeric value in order for the reference number to be automatically incremented by Sterling Gentran and controlled by this parameter for the actual length to be used.

All 14 digits of the reference number are used for the default, '14.' Specifying another number such as '06' (positions 9 through 14) means the last six digits of the reference number in the partner file are used. Specifying '8' (positions 7 through 14) means the last eight digits of the reference number in the partner file are used. The reference number is incremented, updated in the partner file, and loaded into the UNB05 element (EDIFACT) or the STX05 element (Tradacoms).

**Clear Values at Section Break?**

This parameter provides the ability to control when the item level hash totals, constants, and accumulators are cleared. When the value specified is \*NO, these items will be cleared when an area changes. When \*YES is specified, the totals will be cleared when the area and section changes.



**MQ Link**

This parameter provides the capability to pull your application files from an MQSeries queue. By entering an MQ Link, it will pull data from the corresponding MQSeries queue and place it in the application file that is defined for the Application Name entered on the command. This will occur prior to any processing performed by the PRCTRNOU command.

**NOTE**

The application entered must contain only one file in the definition. If you have multiple files to receive from MQSeries, use the GENMQRCV command for each file (described in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 Communications Guide*) prior to the start of your PRCTRNOU.

**Batch ID**

A 44-position alphanumeric field used to specify a Batch ID when adding data to the outbound queue. When this field contains a value, all batches of data added to the outbound comm queue for the entire run will contain that batch ID. When nothing is entered, the batch ID will be left blank.

**Schedule Job?**

This alphanumeric field is used to designate if you want to run this option by scheduling it as a job. The default for this field is \*NO. If you run the job using the Job Scheduling feature, key \*YES in this field. The system displays the Schedule Job panel used to further define the job run parameters. You can queue and run the job on a periodic basis. The Job Scheduling feature also enables you to establish a master schedule (one-time) for the job to run on a periodic basis.

## Process Inbound Files

The Process Inbound Files function runs the PRCTRNN command. This command initiates inbound processing, which translates the EDI data from your trading partner(s) into your application file format. The following list highlights the Processing operations performed by the PRCTRNN command:

- The Inbound Editor extracts data from the inbound queue based on the Communications Profile ID parameter.
- The Inbound Editor unwraps and decompresses the data; checks the data for compliance with the EDI standard; logs the data in the Audit file; and generates functional acknowledgments.
- The Outbound Editor checks the acknowledgments for compliance and adds them to the outbound queue for immediate transmission.
- The Splitter sorts the EDI data and routes it into the split files, sub-split files, Slide file, Suspense file, or Reject file.
- The Mapper module translates the EDI data into the proper formats for your applications.
- The system writes the reformatted data into the appropriate application files.

When you select option '2' (Process Inbound Files) on the GENPRC menu, the system displays the Process Transactions Inbound (PRCTRIN) panel, which is shown in the following figure. This is actually the same command prompt panel that the system displays if you enter 'PRCTRIN' on the command line and press **F4** (Prompt). The minimum information you should provide on this panel is the Comm Profile ID and/or Application Data ID.

 **NOTE**

To display an online description of any parameter on the PRCTRIN panel, move the cursor onto the parameter and press **F1** (Help).

To access the first PRCTRIN panel shown in Figure 1.8, select '2' (Process Transactions Inbound) on the GENPRC menu and then press **Enter**. Press **F10** (Additional Parameters). Press **Page Down** to display the second panel of parameters.

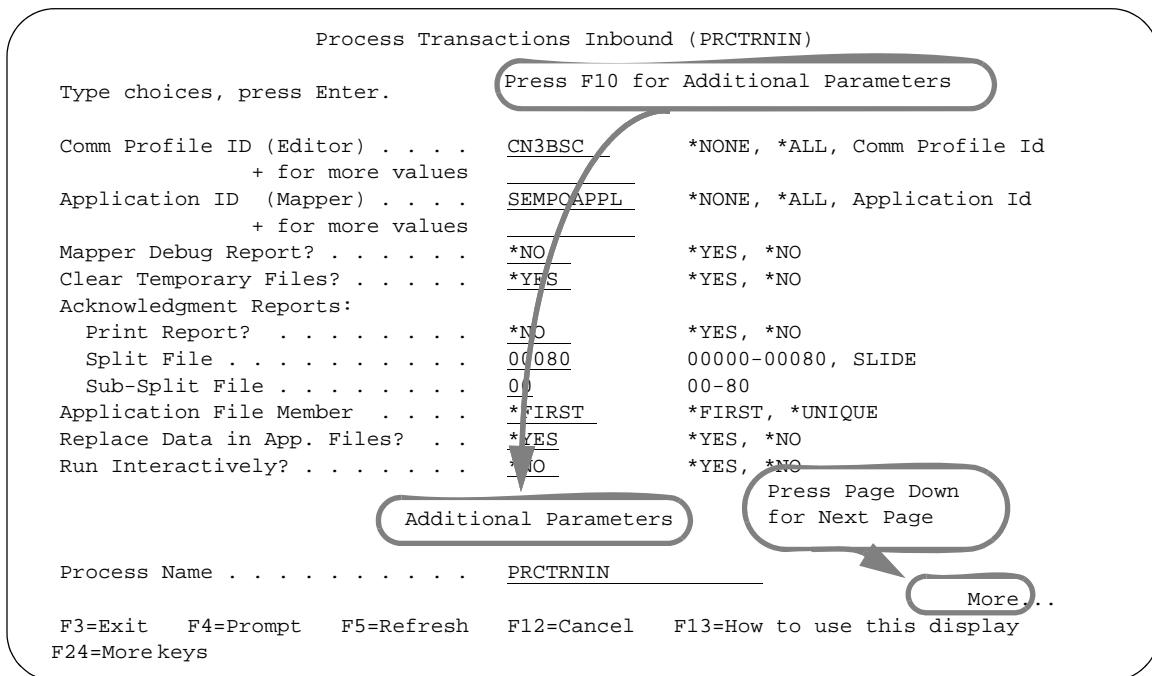


Figure 1.8 Process Transactions Inbound (PRCTRIN) panel (Part 1)

```

Process Transactions Inbound (PRCTRIN)

Type choices, press Enter.

Additional Parameters

Process Name . . . . . PRCTRIN
Editor Detail Report? . . . . . *GLBPRM      *GLBPRM, *YES, *NO
Print Parameters Report? . . . . . *NO        *YES, *NO
Generate Acknowledgments? . . . . . *GLBPRM    *GLBPRM, *NO
First Segment Mandatory? . . . . . *NO        *NO, *YES
Report Empty EDI Input Files? . . . . . *YES       *NO, *YES
User Exits:
  Start . . . . . _____ Character value
  End . . . . . _____ Character value
Collect VAT Data? . . . . . *NO        *YES, *NO
Control/Sender's Ref. Length . . . . . 14        06, 08, 14
Clear Values at Section Break? . . . . . *NO        *NO, *YES
MQ Link . . . . . _____ Name
More...

F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
    
```

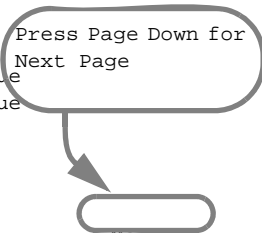


Figure 1.9 Process Transactions Inbound (PRCTRIN) panel (Part 2)

```

Process Transactions Inbound (PRCTRIN)

Type choices, press Enter.

Batch ID for Processing . . . . . _____
Batch ID for Acks . . . . . _____

Schedule Job? . . . . . *NO        *YES, *NO
INS Acknowledgments:
  Command Set . . . . . 0          0-2
  Split File . . . . . 00000      00000-00080, SLIDE
  Sub-Split File . . . . . 00       00-80
  Override Partner Xref Qual . . . . . *NO        *YES, *NO
  Qualifier Value . . . . . _____ Character value
Viewpoint INS Reports:
  Command Set . . . . . 0          0-2
  Split File . . . . . 00000      00000-00080, SLIDE
  Sub-Split File . . . . . 00       00-80

Bottom

F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
    
```

Figure 1.10 Process Transactions Inbound (PRCTRIN) panel (Part 3)

---

## Field Definitions

### Comm Profile ID (Editor)

An alphanumeric field that allows you to specify which Comm Profile IDs to process. The '+ for more values' field is used to enter either additional Comm Profile IDs or a "+" symbol to access the Specify More Values for Parameter COMPRF panel where you may enter up to 10 (total) Comm Profile IDs. The system will process all data for the specified Comm Profile ID with a status of 'RN' (Received Normal). If you accept the default value '\*NONE', no data will be processed from the communication queue during this run. Type '\*ALL' to process all data on the queue with a status of 'RN'. Type the name of a Comm Profile ID to process the data for a particular Comm Profile ID.

For a list of valid Comm Profile IDs, press **F4** (Prompt).

### Application ID (Mapper)

A 10-position alphanumeric field used to enter the name of your application definition that you want to move inbound data to. The "+ for more values" field is used to enter either additional Application Data IDs or a "+" symbol to access the Specify More Values for Parameter APPID panel where you may enter up to 25 (total) Application Data IDs.

For a list of valid Application Data IDs, press **F4** (Prompt).

### Mapper Debug Report?

A 4-position alphabetic field used to designate whether to print the first 80 characters of each EDI segment and application record, read or written, by the mapping program. If \*YES is entered in the field, the first 80 characters of each EDI segment and application record, read or written, by the mapper is printed. Otherwise, no action is taken. The default is \*NO – no action is taken.

### Clear Temporary Files?

A 4-position alphabetic field used to designate whether or not to clear or purge the intermediate work files after the processing is complete. \*YES is the default for this field and it clears the intermediate files at the completion of processing. A value of \*NO in this field does not clear the files at completion of the processing.

### Acknowledgment Reports

Determines if an Acknowledgment Report should be generated and, if so, where the acknowledgments can be found. This parameter has the following three elements:

- |              |   |
|--------------|---|
| Print Report | A 4-position alphanumeric field used to designate if you want to create an Acknowledgment Report during inbound processing. The default is *NO, indicating that you do not want to generate the Sterling Gentran:Server Acknowledgment Report.  |
| Split File   | A 5-position alphanumeric field used to define the split file into which the system separates inbound acknowledgments. The system uses this field to determine which split file to read when generating the Acknowledgment Report. Use the same split file that was designated in the Partner subsystem using the Partner Data Separation panel (EDIX050-FMT01) for inbound acknowledgments. Valid values are '00001' through '00080' or 'SLIDE'. |

**Sub-Split File** A 2-position numeric field used to define the sub-split file into which the system separates inbound acknowledgments. This field can be used only if a split File has been designated. Valid values are '01' through '80'.

### **Application File Member?**

Specifies the target member in your Application File(s) for inbound data. The possible values are:

**\*FIRST** The Mapper program (EBDI041) will populate the \*FIRST member of your Application File(s) with inbound data.

**\*UNIQUE** The Mapper program (EBDI041) will populate a unique member in your Application File(s). The name of the member added to your Application File(s) by Sterling Gentran is shown on the inbound processing reports for that job. This value should be used for concurrent processing. (SEE the “System Considerations” chapter in this guide for more information about concurrent processing.)

### **Replace Data in App. Files?**

The Replace Data in App. Files parameter controls whether or not the mapping application files are cleared before writing the data from this execution of PRCTRIN. This parameter defaults to ‘\*YES,’ which causes Sterling Gentran:Server to clear the mapping application files. A value of ‘\*NO’ causes the system to append data to the mapping application files rather than overwriting them.

### **Run Interactively?**

This parameter allows you to perform the process interactively (immediately). If you select to run the command in an interactive mode, you can monitor system messages that occur during processing. However, you are locked out of the system from the terminal the job was submitted on until the process is complete.

## Additional Parameters (F10)

### **Process Name**

This parameter is used to label the command for the Message Center. The default for this prompt is the command name, but it can be changed to any 15-byte field to help further identify this process. The process name displays on the first panel of the Work with Message Center screen (EDIX600) and can be sorted and reported on using this name.

### **Editor Detail Report?**

The global parameter, Detail Report, may be overridden using the processing command. These are the valid values:

**\*GLBPRM** This is the default. The Editor uses the current setting for the global parameter, Detail Report.

**\*YES** The Editor prints detail information on the Editor reports regardless of the global parameter, Detail Report, setting.

**\*NO** The editor does not print any detail information on the Editor reports regardless of the global parameter, Detail Report, setting.

**Print Parameters Report?**

Determines whether the Processing Parameters Report (EBDI004) is printed during processing.

**Generate Acknowledgments?**

Determines whether acknowledgments are generated or suppressed. This parameter can be used to override the settings for all the acknowledgment-related global parameters. \*GLBPRM is the default and uses the global parameters to determine whether acknowledgments are generated and at what level. \*NO suppresses the generation of acknowledgments regardless of the acknowledgment-related global parameters.

**First Segment Mandatory**

Enter '\*YES' to indicate that the first segment of every loop received is mandatory and is present in the incoming EDI data. This aids in pulling the correct segment from the map when the map contains the same segment ID multiple times (used primarily for 837 documents). The default value is '\*NO'.

**Report Empty EDI Input Files?**

This parameter together with the SETMAPRT (Set Mapper Report) option determines whether to generate the Inbound Mapping Report when the 678 or 685 error is encountered during mapping. If you do not want the Inbound Mapping Report generated for those errors, enter \*NO for the SETMAPRPT and EMPTYEDI (Report Empty EDI Input Files) parameters.

**User Exits**

Identifies user-written programs that can be run during inbound processing. This parameter has the following two elements:

- |       |   |
|-------|---|
| Start | A 10-position alphanumeric field used to enter the name of a program to be run before the mapping process begins. |
| End   | A 10-position alphanumeric field used to enter the name of a program to be run at the end of the mapping process. |

**Collect VAT Data?**

Respond with a \*NO if Value Added Tax (VAT) reporting is not needed. Respond with a \*YES if you want to collect the VAT data to generate a VAT report when processing EDIFACT – TAXCON or INVOIC messages, or if you are using Tradacoms from the Invoice or Credit Notes messages.

**Control/Sender's Ref. Length**

This parameter provides the ability to control the length of the number used for the interchange control reference in the UNB segment (EDIFACT) and for the interchange sender's reference in the STX segment (Tradacoms). The value in the partner file defined for the UNB05 or STX05 elements must be initialized with a 14-digit numeric value in order for the reference number to be automatically incremented by Sterling Gentran:Server and controlled by this parameter for the actual length to be used.

All 14 digits of the reference number are used for the default '14'. Specifying another number such as '06' (positions 9 through 14) means the last six digits of the reference number in the partner file are used. Specifying '8' (positions 7 through 14) means the last eight digits of the reference number in the partner file are used. The reference number is incremented, updated in the partner file, and loaded into the UNB05 element (EDIFACT) or the STX05 element (Tradacoms).

**Clear Values at Section Break?**

This parameter provides the ability to control where the Detail Item Level Accumulators (71 – 80), Hash Totals (71 – 80), and Constants (90 – 99) are cleared. Enter \*NO if you want the totals to be cleared in the Detail area (denoted as area 'D') and *not* cleared for Sections (1 – 9). Enter \*YES if you want the totals to be cleared at *both* Detail ('D') *and* Section (1 – 9) areas.

**MQ Link**

A 10-position alphanumeric field used to enter an MQ Link name. Once the PRCTRIN process has completed, it will place all of the application files associated with the application on the MQSeries queue that corresponds to the MQ Link name entered.

**Batch ID for Processing**

A 44-position alphanumeric field used to specify a Batch ID to be used when processing data from the inbound communication queue. When this field contains a value, all batches that have a Batch ID equal to the entered Batch ID for the specified comm profile will be processed. When nothing is entered, the Batch ID will be left blank and all batches will be processed for the specified communication profile. Valid values are a specific Batch ID or spaces.

**Batch ID for Acks**

A 44-position alphanumeric field used to specify a Batch ID to be used when adding any data to the queues. When this field contains a value, all batches of generated acknowledgments added to the outbound comm queue for the entire run will contain that Batch ID. When nothing is entered, the Batch ID will be left blank. Valid values are a specific Batch ID or spaces.

**Schedule Job?**

This alphanumeric field is used to designate if you want to run this option by scheduling it as a job. The default for this field is \*NO. If you run the job using the Job Scheduling feature, type \*YES. The system displays the Schedule Job panel used to further define the job run parameters. You can queue and run the job on a periodic basis. The Job Scheduling feature also enables you to establish a master schedule (one-time) for the job to run on a periodic basis.

### INS Acknowledgments

The system uses this parameter to determine if the INS reports should be used to acknowledge transmitted documents and if the INS Auditing Report should be generated, where the inbound INS reports can be found, and whether to use the specified Partner Qualifier to find the Partner in the Partner file. It consists of the following five “sub-parameters”:

Command Set	A 1-position numeric field used to determine whether the INS Auditing Report should be generated and, if so, whether version 1 or version 2 of the Tradanet Standard Protocol should be used. The primary difference between the versions is the size of the Sender Reference and Application Reference fields. In version 1, they are six bytes long and in version 2, they are fourteen bytes long. If you accept the default value '0', the report will not be generated.
Split File	The system uses this field to determine which split file to read when processing the INS Auditing Report. Use the split file that was designated in the Partner subsystem (using the Partner Data Separation (EDIX050-FMT01) panel) for inbound INS reports. Valid values are '00001' through '00080' or 'SLIDE'.
Sub-Split File	A 2-position numeric field used to define the sub-split file into which the system separates inbound INS reports. This field can be used only if a split file has been designated. Valid values are '01' through '80'.
Override Part Xref Qual	An alphanumeric field used to indicate whether the value in the Qualifier Value field should be used to find the Partner in the Partner file. If '*NO' is entered in this field, the system will use the first two bytes of the Sender Reference field to locate the Partner. The default value for this field is '*NO'.
Qualifier Value	An alphanumeric field used to identify the value to be used as the Partner Qualifier. The system uses the value in this field along with the value received in the Sender Reference field to find the Partner in the Partner file.

 **NOTE**

The INS Acknowledgments parameters pertain only to those users who are accessing the INS-TRADANET network.

### Viewpoint INS Reports

Determines whether to use the INS Reports to update the IBM® Sterling Gentran:Viewpoint for iSeries system with information pertaining to the outbound documents (when the network received the document, when the network processed the document, when the trading partner picked up the document), and, if so, where the INS Reports can be found. This parameter has the following three elements:



---

Command Set	A 1-position numeric field used to determine if the INS Report should be used to update the Sterling Gentran:Viewpoint document history and, if so, whether version 1 or version 2 of the Tradanet Standard Protocol should be used. The primary difference between the versions is the size of the Sender Reference and Application Reference fields. In version 1, they are six bytes long and in version 2, they are fourteen bytes long. If you accept the default value '0', nothing will be added to the history file.
Split File	The system uses this field to determine which split file to read when updating the Sterling Gentran:Viewpoint document history. Use the split file that was designated in the Partner subsystem (using the Partner Data Separation (EDIX050-FMT01) panel) for inbound INS reports. Valid values are '00001' through '00080' or 'SLIDE'.
Sub-Split File	A 2-position numeric field used to define the sub-split file into which the system separates inbound INS reports. This field can be used only if a split file has been designated. Valid values are '01' through '80'.

**NOTE**

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Sterling Gentran:Viewpoint INS Reports parameters are valid only for those users who have purchased the Sterling Gentran:Viewpoint add-on module.

---

## The Inbound Processing Flow

You can use the Application Data ID and Comm Profile ID on the PRCTRIN panel to control how much of the inbound processing flow is executed for any one inbound processing run. There are three combinations you can use for this purpose:

1. **Specify both the Application Data ID and the Comm Profile ID.** This causes the system to execute the entire inbound processing flow, from the inbound queue to the application files. Data is processed in unique work file members throughout the whole process run. This process will only process data with a status of 'RN' in the inbound queue. Data collected during previous inbound processing sessions may reside in the first member of the split file and will not be processed during this run. To process this data, you must execute the inbound process, specifying only the Application ID to process this data (as defined in Step 3 below).
2. **Enter '\*NONE' in Application Data ID and specify a Comm Profile ID.** This causes the system to execute only the first half of inbound processing. (The data flows from the inbound queue to the Editor to the split files.) The system holds the data in the split files at the end of this run. Data is rolled up from the unique member to the first member in the split files. In this case, the only way to get this data processed is by using option number 3 below.

3. **Specify an Application Data ID and enter '\*NONE' in the Comm Profile ID.** This causes PRCTRIN to execute only the second half of inbound processing. (The data flows from the split files to the Mapper, to the application files.) Data is pulled from the first member in the split files when processing with this option. This step will not process data residing in any split file members other than the first member.



---

**RECOMMENDATION**

Read the “Concurrent Processing” section in the “Systems Considerations” chapter for more detailed information about the processing flow.

---

## Printing Received Acknowledgments

The Process Transactions Inbound (PRCTRIN) command prints a report of received acknowledgments if you specify '\*YES' to the Acknowledgment Report parameter. Additionally, designate the file where the acknowledgments were routed that should be read for the generation of the report. Specify a 5-byte split file number ('00001' to '00080' or SLIDE) in the Acknowledgment Split File parameter. If a sub-split should be used, specify a number ('01' to '80') in the Acknowledgment Sub-Split parameter.



---

**NOTE**

SEE the “Splitting” chapter in this guide for more information on setting up acknowledgments to be routed to the split file.

---

## How the Mapper Translates Outbound and Inbound Data

Sterling Gentran:Server breaks the document into logical groups called areas. There are three major areas: Header, Detail, and Summary. These areas are similar to the areas in a document, which has Headers, Detail Line Items, and Summary or Trailer totals. Sterling Gentran:Server further breaks the Detail area into nine additional Detail sections to help process large or deeply nested (loops within loops according to the standards) documents.

An overview of the processing steps for the Mapper is provided in Figure 1.11.

Sterling Gentran:Server uses an 800K Input buffer to help write the Output records or Segments after being translated, as shown in the following figure. The asterisk indicates where the buffer is being cleared. The explanation of this diagram has been broken into separate inbound and outbound examples.

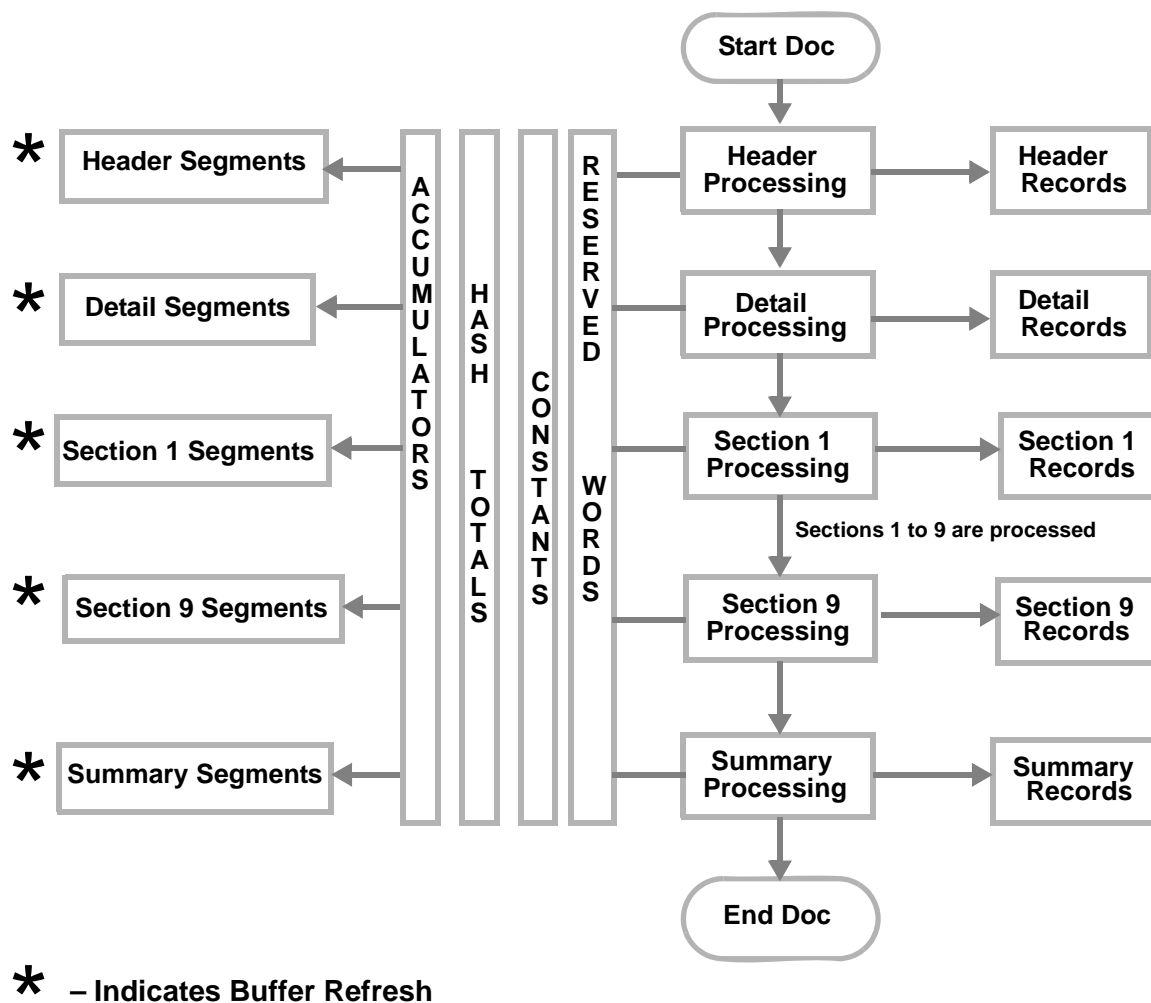


Figure 1.11 Overview of Mapping Process

---

## Mapper Flow for Outbound Transactions

The following steps listed below are involved in processing outbound documents using the Mapper.

1. Sterling Gentran:Server begins with reading all the Header records for one single document into the input buffer (this may only be one record).

The type of record is determined by the Area Code that is assigned to the record in the application definition in Sterling Gentran:Server. Once a record is read and is determined to be a Detail record, the read-input step is stopped. Note that the first record defined to Sterling Gentran:Server marks the beginning of the document. You may have Header records (from old Proprietary EDI files) that occur once for the entire file. They are ignored if not defined to Sterling Gentran:Server and would, therefore, not mark the beginning of the document. An error message occurs that may be ignored (error message 0608: “An undefined Application Record Type was received”).

2. The partner is found (SEE the “Partner Resolution” chapter in this guide for more information on “finding” the partner) by looking at the application partner reference (one, possibly two fields are used to identify the partner). The reference **MUST** be in a Header record and must be alphanumeric. The contents of the reference fields are used to find the partner in the Partner file. If the partner is not found, the Partner Cross Reference file is searched. If a match is found, the partner that is being pointed to is used for the receiver of this document. If partner resolution fails, Sterling Gentran:Server will return a 0613 error message which indicates that the partner processing failed during partner resolution.
3. The map is selected. All maps tied to the application definition being processed (run-time option) are loaded into a table. After the partner is selected, the map is selected from the table based on the standards version this partner is set up for. If a partner-specific map is listed for this partner, it is used. Otherwise, a general map for the specified version is selected. If Sterling Gentran:Server cannot determine which map to use, it will return a 0613 error message indicating that a map was not located.
4. The translation or mapping begins by following instructions for moving data from the input buffer into the EDI elements. The sequence of events followed in mapping is dictated by what the mapper is writing to. For outbound processing, this is the transaction definition, **NOT** the order of the application records and fields. The first segment written for the Header is the beginning envelope segment. Segments are loaded, one at a time, from the first through the nth element, and written to the output file if at least one piece of data is moved into the segment. If the value in the Max Use field on the segment is more than ‘1’ or is in a loop, a second occurrence of the same segment attempts to be written. If the value in the Max Use field is only ‘1,’ only one segment is written and the next segment is evaluated.
5. After all the Header segments have been written, the buffer is cleared.
6. The Detail records are read into the buffer for just one occurrence of the Detail loop. The buffer is refreshed after each iteration of a Detail loop. The first record in the Detail area of the application definition marks the beginning of the Detail loop. Therefore, when another record is read, the beginning of the next loop is indicated and the read-input step stops.

7. Steps 4 through 6 are repeated, processing the entire Detail (one Detail loop at a time) until there are no more Detail segments to be written.
8. The Summary area is processed in the same manner as the Header. If there are no application records defined to the Summary area (often there are not), the segments may still be written by following the instructions in the map, which may load literal values or internally generated values into the Summary segments.
9. Once the next Header record is read or the end of file is reached, Sterling Gentran:Server writes the Transaction Set End segment denoting the end of the transaction set. Steps 1 through 9 are repeated if there is more data to be processed. Ending envelope segments are written if the partner changes (a new interchange is generated for a new partner) or the end of file is reached.

Sterling Gentran:Server processes one area at a time (Header, Detail, or Summary). This requires information, which is linked together between the application and transaction definition, to be contained in the same area. When data needs to be passed down to another area, it must be loaded into a constant, hash-total, or an accumulator. These are Reserved Word Constants that can be used in any area of the map. Suppose you have a Ship-date that exists in one of the Header application records that needs to be moved into a Detail segment. A direct connection between the Ship-date field and the EDI element cannot be made since the Header application data is already erased from the buffer when the detail segments are written. In such a situation, you can move the Ship-date into Constant-01 in the Header area, as well as moving it into a Header element. Then, Constant-01 can be moved into the Detail segment when mapping the Detail area.

**CAUTION**

---

Data cannot be mapped upward from a lower area into a higher area, such as Detail to Header. In order to do this, use an Element-level user exit or move the data into a Header record during the pre-processing routine.

---

SEE the “Mapping Getting Started” and “Transaction Mapping” chapters in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide* for more information about mapping.

**Extended Element Mapping Flow for Outbound**

1. The 'IF' conditions, if used, are evaluated. If the conditions are true, processing continues. If conditions are false, the next map is evaluated for processing.
2. The accumulator is incremented by '1,' if specified.
3. The application field is loaded to a work area (simple map), or the arithmetic line is evaluated and the result is moved to the work area. Arithmetic operations are performed from left to right.
4. Table operations are performed using the work area generated above. If the table operation fails, spaces are moved to the work area and the 'Field Used' flag is not set.
5. The work area is passed to the specified user exit module, if a user exit is used. The user exit can change the work field and/or any constant, hash-total, or accumulator.
6. The value in the work area is added to the specified hash-total.
7. The work area is moved to any constant specified.
8. The work area is moved to the EDI data element.

```

EDIX508                               Extended Outbound Mapping                               EDI    04/30/11
FMT01                                                                                      12:00:00
Segment ID . . . . . BEG
Area Code. . . . . H
Element Number . . . . . 30 ③
Segment Sequence . . . . . 100 Mapping of Data Element Mapping Number . . . . . 0
                                   Mapping of Data Element
Element = _____
Or      Value      Op Value      Op Value
Element = 'GEN'    ③          _____
If      F020.ICMSG GT ' '      ①
And/Or  ①
Table ID . . . . . _____ ④
Add to Hash Total # . . . . . _____ ⑥
Save in Constant # . . . . . _____ ⑦
Add 1 to Accumulator # . . . . . _____ ②
User Exit Routine. . . . . _____ ⑤
Mandatory Code . . . . . M

F1=Help F2=More/Less F10=Update F12=Cancel F14=Notes F19=Appl F24=More Keys
    
```

Figure 1.12 Extended Element Mapping Flow Outbound Example

## Mapper Flow for Inbound Transactions

The following steps listed below are involved in processing inbound EDI data using the Mapper.

1. Sterling Gentran:Server begins with reading all the Header segments for one single document into the input buffer. The type of segment is determined by the Area Code that is assigned to the segment in the transaction definition in Sterling Gentran:Server. Once a segment is read and is determined to be a Detail segment, the read-input step is stopped.
2. The partner is found (SEE the “Partner Resolution” chapter in this guide for more information on “finding” the partner) by looking at the GS02 (Sender ID from the GS envelope). The contents of the GS02 are used to find the partner in the Partner file. If the partner is not found, the Partner Cross Reference file is searched. If a match is found, the partner that is being pointed to is used as the sender of this document. If partner resolution fails, Sterling Gentran:Server will return a 0613 error message which indicates that the partner processing failed during partner resolution.
3. The map is selected. All maps tied to the application definition being processed (run-time option) are loaded into a table. After the partner is determined, the map is selected from the table based on the standards version this partner is set up for. If a partner-specific map is listed for this partner, it is used. Otherwise, a general map for the specified version is selected. If Sterling Gentran:Server cannot determine which map to use, it will return a 0613 error message indicating that a map was not located.
4. The translation or mapping begins by following instructions for moving data from the input data buffer into the application records. The sequence of events followed in mapping is dictated by what the Mapper is writing to. For inbound processing, this is the application definition, NOT the order of the EDI segments and elements. Records are loaded, one at a time, from the first through the nth field, and written to the output file if at least one piece of data is moved into the application record. Data is also moved into the application fields by using the field values on the application definition. These are default values that are loaded prior to the record being written, as long as at least one piece of data is moved in via the mapping definition. If the value in the Max Use field on the record is more than ‘1,’ or is in a loop, a second occurrence of the same record attempts to be written. If the value in the Max Use is ‘1,’ only one record is written and the next record is evaluated.
5. After all the Header records are written, the input buffer is cleared.
6. The detail segments are read into the input data buffer for just one occurrence of the Detail loop. The buffer is refreshed after each iteration of a Detail loop. The first segment in the Detail area of the transaction definition marks the beginning of the Detail loop. Therefore, when another segment is read, it indicates the next loop and the read-input step stops.
7. Steps 4 through 6 are repeated, processing the entire detail (one Detail loop at a time) until there are no more Detail records to be written.

8. The Summary area is processed in the same manner as the Header. If you need a Summary application record written, you must have at least one Summary segment defined to the transaction definition (even if it really does not belong there). To write a record, at least one piece of data must be moved from the transaction side. Literal values or internally generated values may be moved into the Summary record, which can even be defined on a “dummy” Summary segment.
9. Steps 1 through 9 are repeated if there is more data to be processed.

Sterling Gentran:Server processes one area at a time (Header, Detail, or Summary). This requires information, which is linked together between the application and transaction definition, to be contained in the same area. When data needs to be passed down to another area, it must be loaded into a constant, hash-total, or an accumulator. These are Reserved Word Constants that can be used in any area of the map.

Suppose you have a Ship-date that is sent in a Header DTM segment that needs to be moved into a Detail application record. A direct connection between the Ship-date field and the application field cannot be made since the Header EDI data is already erased from the buffer when the Detail records are written. In this situation, you can move the Ship-date into Constant-01 in the Header area, as well as moving it into a Header field. Then, Constant-01 can be moved into the Detail record when mapping the Detail area. You may need a “dummy” application record at the Header area to load the constant value.

**CAUTION**

Data cannot be mapped directly upward from a lower area into a higher area, such as Detail to Header. In order to do this, use an Element-level User Exit or move the data to the post-processing routine.

SEE the “Mapping Getting Started” and “Transaction Mapping” chapters in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide* for more information about mapping.



## Extended Element Mapping Flow for Inbound

1. The 'IF' conditions, if used, are evaluated. If the conditions are true, processing continues. If conditions are false, the next map is selected for processing.
2. The accumulator is incremented by '1,' if specified.
3. The element is loaded to a work area (simple map), or the arithmetic line is evaluated and the result is moved to the work area. Arithmetic operations are performed from left to right.
4. Table operations are performed using the work area generated above. If the table operation fails, spaces are moved to the work area and the 'Field Used' flag is not set.
5. The work area is passed to the specified user exit module, if a user exit is used. The user exit can change the work field and/or any constant, hash-total, or accumulator.
6. The value in the work area is added to the specified hash-total.
7. The work area is moved to any constant specified.
8. The work area is moved to the application field.
9. If the result of mapping is spaces, the value specified in Application Field Value is loaded as a default.

```

EDIX513                      Extended Inbound Mapping                      EDI  04/30/11
FMT01                          12:00:00
Segment ID . . . . .          BEG
Area Code. . . . .           H
Element Number . . . . .      30
Segment Sequence . . . . .    100 Mapping Number . . . . . .0
                               Mapping of Data Element
Application Target Field . . . . F010.PONUM ⑥
Target Field = _____
Or      Value      Op Value      Op Value
Target Field = _____ ③
If      ①
And/Or  _____ ①
Table ID . . . . .           _____ ④
Add to Hash Total #. . . . . _____ ⑥
Save in Constant # . . . . . 01      ⑦
Add 1 to Accumulator # . . . . . _____ ②
User Exit Routine. . . . . _____ ⑤
Mandatory Code . . . . .     M

```

F1=Help F2=More/Less F10=Update F14=Notes F19=Appl F24=More Keys

Figure 1.13 Application Field Value Used as Default

---

## Add Data to Queues

The Add Data to Queues function runs the ADD command. This command allows you to add data to the inbound or outbound queue from a user-defined file, or from an MQSeries queue. Here are two examples of how to use the command:

1. You can use the ADD command to add data to the outbound queue. This allows non-EDI data or a file that is generated outside of EDI to be added to the outbound queue for transmission.
2. You can use the ADD command to add data to the inbound queue that was not received through a Sterling Gentran:Server communication session. (This situation might occur when you receive data on a tape or diskette. It could also be received from an MQSeries queue.)

When you select option '3' (Add Data to Queues) on the GENPRC menu, the system displays the Add Data to Queues panel (ADD). This is actually the same command prompt panel that the system displays if you type 'ADD' on the command line and press **F4** (Prompt). *The minimum information you need to provide on this panel is 'Add Data to In or Out Queue' and 'File Name to Queue.'* For a description of these or any other parameters, move the cursor to the parameter and press **F1** (Help) to display online help.

As you use this panel, keep in mind the following points:

- When data is added to the outbound queue, the system will default the status of the batch to 'Q' (Queued), however you can override that status to 'H' or 'SN'. When data is added to the inbound queue, the system will default the status of the batch to 'RN' (Received Normally), however you can override the status to 'PI' or 'H'.
- The maximum record length of the file being added can be no longer than 32,000 bytes.
- If you do not specify a library (by leaving the Library Name parameter blank), the system uses the first file found in your library list that matches the value you entered in the File Name to Queue parameter.
- If you leave the Comm Profile ID to Queue parameter blank, the system uses the Comm Profile ID from the \$\$ADD records that you provided in the data file. (\$\$ADD records are instruction cards that precede the data and identify which Comm Profile ID the system should

place the data under in the inbound or outbound queue file.) The file may contain multiple \$\$ADD cards to direct the batches of data to different Comm Profile IDs.

**CAUTION** 

---

Do not delete the Comm Profile ID 'DEFAULT.' If you do not specify a Comm Profile ID and the file has no \$\$ADD records, the system adds the data under the Comm Profile ID 'DEFAULT.'

---

**NOTE** 

---

The MQ Link and File Name parameters are mutually exclusive; only one parameter can be specified. If the data to be added is in a database file, specify the file name. If the data to be added resides on an MQSeries queue, specify the MQ Link name.

---

The following figures show the Add Data to Queues (ADD) panels.

```

Add Data to Queues (ADD)

Type choices, press Enter.

Comm Profile Id to Queue . . . . . _____  Comm Profile Id
Batchid to Queue . . . . . _____

Add Data to In or Out Queue . . . . . *OUT      *IN, *OUT
File Name to Queue . . . . . _____  File Name
Library Name . . . . . _____  Library Name, Blanks
Member Name . . . . . _____  Member, *All, Blanks
Run Interactively ? . . . . . *NO      *YES, *NO
Outbound queue status. . . . . Q      Q, H, SN

Additional Parameters

Process Name . . . . . ADD
Keep Add Records? . . . . . *NO      *YES, *NO
MQ Link . . . . . _____  Name
Text File . . . . . *NO      *NO, *YES

F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display  More...
F24=More keys
    
```

Figure 1.14 Add Data to Queues (panel 1)

```

Add Data to Queues (ADD)

Type choices, press Enter.

Lock the File? . . . . . *NO      *YES, *NO

F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display  More...
F24=More keys
    
```

Figure 1.15 Add Data to Queues (panel 2)

## Additional Parameters for ADD

When you press **F10** (Additional parameters), the system displays the Process Name, Keep Add Records, MQ Link, and the Schedule Job parameters. For a description of these or any other parameters, move the cursor to the parameter and press **F1** (Help) to display online help.

### Keep Add Records

The default value for the Keep Add Records parameter is '\*NO.' You can retain or discard the \$\$ADD record to simplify sending data to another site. The \$\$ADD retention option enables the user to separate data into batches based on the \$\$ADD, but leaves the \$\$ADD as the first record of the batch. This allows the \$\$ADD records added under a global profile ID to be sent as individual \$\$ADD IDs to a remote site. Batches added using the \$\$ADD records and then retaining the \$\$ADD records would be used to add multiple IDs during a single ADD run. This scenario would send batches with \$\$ADD records in separate Sterling Gentran:Server sessions or to separate sites.

### Text File

This field determines whether text record separators (Carriage Return, Line Feed) will be added to the data when it is added to the queue. \*YES indicates that CRLF will be added at the interval determined by the Record Length parameter. \*NO indicates that CRLF will not be added.

### Record Length

This field specifies the interval at which text record separators will be added to the data when the Text File parameter is \*YES. Specify any fixed interval from 1 to 32000. Specify \*FILE to use the record length of the input file.

### Lock the File?

This field allows you to check for an object lock. The default is \*YES.

---

## Extract Data from Queues

The EXTRACT Data from Queues function runs the EXTRACT command. This command allows you to copy data received from the inbound or outbound queue and place the data in a user-defined file on the iSeries, or send it to an MQSeries queue. Here are two situations in which this command is useful:

1. For the outbound queue, you can use the EXTRACT command to pull translated EDI data that you do not want to transmit through a Sterling Gentran:Server communication session. (This situation might occur when you are sending out data on a tape or a diskette.)
2. For the inbound queue, you can use the EXTRACT command when you are using a Sterling Gentran:Server communication session to receive data that you do not want to translate. (This situation occurs when you are receiving non-EDI data or a file that needs to be passed on to another division.)

When you select option '4' (Extract Data from Queues) on the GENPRC menu, the system displays the Extract Data from Queues (EXTRACT) panel. This is the same command prompt panel that the system displays if you type 'EXTRACT' on the command line and press **F4** (Prompt). *The minimum information you need to provide on this panel is Extract Inqueue or Outqueue, File Name or MQ Link name, and either Comm Profile ID to Dequeue or Batchid to Dequeue.* (SEE the parameters on the EXTRACT panel in Figure 1.16.) For a description of these or any other parameters, move the cursor to the parameter and press **F1** (Help) to display online help.

As you use this panel, keep in mind the following points:

- When the Extract Inqueue or Outqueue parameter is set to '\*IN,' the system extracts the data with a status of 'RN' (Received Normally) from the inbound queue. When Extract Inqueue or Outqueue is set to '\*OUT,' the system extracts the data with a status of 'Q' (Queued) from the outbound queue. The parameters Start Profile Sequence Number and End Profile Sequence Number allow you to specify the batch numbers on which extract Processing should begin and end.
- If the file you specify for the File Name parameter does not exist, be sure to set the Create File parameter to '\*YES' and specify a value for the Record Length parameter. We recommend that you also specify the library in which the new file will reside. If no library is specified, the file is created in the library specified in the user's environment control profile.
- The maximum record length for the file receiving the extracted data can be no longer than 32,000 bytes.
- If the Batchid to Dequeue parameter is set to '\*ALL,' the system extracts all batches with the specified Comm Profile ID to Dequeue from the queue, regardless of their Batch ID. When you specify a value for Batchid to Dequeue, the system extracts only batches containing that Batch ID. If you enter '\*BLANKS,' it will only extract batches that have a blank batch ID.

**NOTE**

The MQLink and File Name parameters are mutually exclusive; only one parameter can be specified. If the data is to be extracted to a database file, specify the file name. If the data to be extracted is to be sent to an MQSeries queue, specify the MQ Link name.

The following figure shows the Extract Data From Queues (EXTRACT) panel.

```

Extract Data From Queues (EXTRACT)

Type choices, press Enter.

Comm Profile Id to DeQueue . . .  CN3BSC      Profile Id, *ALL
Batchid to Dequeue . . . . .      *ALL
-----

Extract Inqueue or Outqueue . .  *IN        *IN, *OUT
Start Profile Sequence Number .  0         Number
End Profile Sequence Number . .  999999    Number
File Name . . . . .              NONEDIFILE Character value
Library Name . . . . .          QGPL      Library Name, Blanks
Member Name . . . . .          _____ Member Name, Blanks
Create File ? . . . . .         *NO       *YES, *NO
Record Length . . . . .        _____ Number
Run Interactively? . . . . .    *NO       *YES, *NO

Additional Parameters

Process Name . . . . .          EXTRACT
-----

F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
More..

```

Figure 1.16 Extract Data From Queues (panel 1)

```

Extract Data From Queues (EXTRACT)

Type choices, press Enter.

Update Status Flag? . . . . .    *YES       *YES, *NO
Fifo or Lifo Method . . . . .    *FIFO     *FIFO, *LIFO
Append to Existing Data? . . . . *NO       *YES, *NO
MQ Link . . . . .               _____ Name
Text File . . . . .             *NO       *NO, *YES
Keep Blank Records? . . . . .    *NO       *NO, *YES
Lock the File? . . . . .        *NO       *YES, *NO
Wrap Multiple Batches . . . . .  *NO       *NO, *YES
Schedule Job? . . . . .         *NO       *YES, *NO

Bottom

F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display

```

Figure 1.17 Extract Data from Queues (panel 2)

## Additional Parameters for EXTRACT

When you press **F10** (Additional parameters), the system displays the remaining parameters for the command. Press **Page Down/Page Up** to access the parameters.

### Process Name

This parameter is used to label the command for the Message Center. The default for this prompt is the command name, but it can be changed to any 15-byte field to help further identify this process. The process name displays on the first panel of the Work with Message Center screen (EDIX600) and can be sorted and reported on using this name.

### Update Status Flag

The Update Status Flag parameter allows you to specify whether or not the system updates the status flag when you extract a batch of data.

### FIFO or LIFO Method

This field indicates the order in which the data should be extracted. The default is \*FIFO, first in, first out processing. \*LIFO is used for last in, first out processing.

### Append to Existing Data

This field indicates whether the existing data in the file should be appended to a specified file or overwritten. The default is \*NO (the file member will be cleared first).

### MQ Link

If data should be extracted to a MQ Queue, specify the MQ Link that represents the MQ Queue.

### Text File

This field determines whether text record separators (Carriage Return, Line Feed, Newline) will be removed from the data and cause a break to a new record when the data is extracted from the queue. \*YES indicates that the text record separators will be processed and removed. \*NO indicates that they will be ignored and left in the data. When \*YES is specified, any trailing spaces on the last queue record will be considered pad characters and will not be copied to the output file.

### Keep Blank Records

Determines whether to keep blank records in the data when it is loaded into the queue. \*NO indicates that blank records will be removed from the data. \*YES indicates that blank records will be kept.

### Lock the File?

This field determines whether the file that the data is being copied to is to be locked. The default is \*YES.



### Wrap Multiple Batches

When answering \*YES to this parameter and there are multiple batches to extract, there will be no spaces in between batches. The next batch of data will start in the next position after the last batch's segment terminator.



---

**NOTE**

If you have unwrapped data to be extracted - DO NOT answer '\*YES' to this parameter. It will cause the spacing of the batches to be shifted and could result in invalid data. The default for this parameter is \*NO and it will not wrap the batches.

---

### Schedule Job

Indicates whether the job should be scheduled to run at a later time or immediately.

## Inbound Split File Status Inquiry

The Inbound Split File Status Inquiry panel (EDIX260-CTL01) displays the number of records that currently reside in the \*FIRST member of the split files, the Slide file, and the Reject file. This panel also enables you to clear the data from the \*FIRST member of these files, view or print their contents. In addition, you can see if records exist in the sub-split files and access them from this panel. The online system can only access the \*FIRST split and sub-split file members. During processing, Sterling Gentran:Server creates unique members in the split and sub-split files. Any data left at the end is rolled up and appended to the \*FIRST member.



### NOTE

In order to process data left in these split files, you must run PRCTRIN and only specify an Application ID with \*NONE for the Comm Profile ID.

During inbound processing, the Splitter Program (EBDI015) writes the incoming EDI data to one of the 80 split files and/or sub-split files based on the Split Output Files global parameter and on the data separation records you defined in the Partner subsystem. The Slide file is a default file that stores any inbound data that the system does not route to a split file. The Slide file also stores any envelope errors that occurred during inbound processing. (SEE the “Splitting” chapter in this guide for more information.) You can also use a split file or sub-split file to hold functional acknowledgments.

To display the Split File Inquiry panel (EDIX260-CTL01), which is shown below, select option ‘5’ (Inbound Split File Status Inquiry) from the GENPRC menu.

```

EDIX260                      Split File Inquiry                      EDI 04/17/08
CTL01                          12:00:00

Type option, press Enter.
  5=View  6=Print  11=Clear  12=Sub-split  13=View Suspense

Opt      File           Records      Sub-Split
---      ---           ---          ---
---      SLIDE          151
---      REJECT
---      1              60
---      2              93
---      3
---      4
---      5
---      6
---      7
---      8
---      9
---      10
---      11
---      12

More...

F1=Help  F5=Refresh  F12=Cancel

```

Figure 1.18 Split File Inquiry panel

The Split File Inquiry panel offers the following options:

**5=View**

To display the data records in a particular split file, the Slide file, or the Reject file, type '5' in the option field next to that file. When you select option '5' (View), the system displays the iSeries Display Physical File Member (DSPPFM) panel. A description of this panel follows this section.

**6=Print**

To print the data records in a particular split file, the Slide file, or the Reject file, type '6' in the option field next to the appropriate file. Only data from the \*FIRST member is printed. The system determines the appropriate iSeries output queue from the user's profile and prints the selected information.

**11=Clear**

To clear (remove) the records from the \*FIRST member of any of the 80 split files, the Slide file, or the Reject file, type '11' in the option field next to that file. (Clearing data prevents the system from sending it through the Inbound Mapper.) "Cleared" data is not necessarily permanently lost – it stays on the inbound queue file until you purge it using the Work with Communications panel (EDIX400-FMT01). You can reprocess "cleared" data by revising the status of the batch (interchange) to 'RN' (Received Normally) on the Work with Inbound Queue Control panel (EDIX407-FMT01).

**12=Sub-Split Files**

If a value of 'Y' displays in the Sub-Split column next to a particular split file, then sub-split records exist for that split file. To display the number of records in a particular sub-split file, type '12' in the option field next to that file. The system displays the Inbound Sub-Split Inquiry panel (EDIX261-CTL01), which is shown later in this chapter. That panel shows the number of records (if any) in each of the 80 sub-split files associated with the given split file and enables you to view or clear the data contained within.

**13=View Suspense**

To display contents of the data records in Suspense file, type '13' in the option field.

## Debugging with the Split File Inquiry Panel

The Split File Inquiry panel is a helpful tool for debugging, particularly in the following three cases:

- To determine why inbound data was not mapped into the application file you specified in the application definition.
- To see if the data was routed to a different split file other than the one specified in the data separation records in the Partner file. (SEE the "Splitting" chapter.)
- To verify that you set up the global parameters and compliance checking correctly.

For debugging, you can use the Application Data ID, Comm Profile ID, and Clear Temporary Files parameters on the Process Transactions Inbound (PRCTRIN) panel to control how much of the inbound processing flow is executed. (SEE the section "What Happens During Inbound Processing?" in this chapter for more information.)

## Display Physical File Member Panel

The system displays the iSeries Display Physical File Member (DSPPFM) panel when you select option '5' (View) on the Split File Inquiry panel (EDIX260-CTL01) or the Sub-Split Inquiry panel (EDIX261-CTL01). The panel displays the records in the \*FIRST member currently stored in a split file, sub-split file, the Slide file, or the Reject file.

The Display Physical File Member panel can be displayed in two modes: **character** or **hexadecimal**. Initially, the system displays the panel in character mode but you can switch to hexadecimal mode by pressing **F10** (Display hexadecimal). For hexadecimal mode, you have a choice of the **“Side-by-Side”** style (in which the hexadecimal data displays on the left and the character version displays on the right), or the **“Over-and-Under”** style, (in which the character data displays above the hexadecimal version).

```

                                Display Physical File Member
File . . . . . : GT1500          Library . . . . . : G3X6SAMPDV
Member . . . . . : GT1500       Record . . . . . : 1
Control . . . . .                Column . . . . . : 1
Find . . . . .

*...+...1...+...2...+...3...+...4...+...5...+...6...+...7...+...
000000101ISALSA*00*          *00*          *01*987654321      *01*123456789
000000201GS GS *PO*987654321      *123456789      *19991012*1500      *000000001
000000301ST ST *850*0001      ?
000000307ST ###MAP004010      850      C13579                      123
000000307ST ###MP2000000001      000000001      0001
000000401BEGBEG*00*NE*01120001      *          *19
000000501N1 N1 *ST *XX
000000601PO1PO1*          *0000000000000010 00*EA*00000000000000512 0
000000602PO1
000000603PO1
000000701PO1PO1*          *0000000000000030 00*DA*00000000000000100 0
000000702PO1
000000703PO1
000000801PO1PO1*          *0000000000000005 00*CA*00000000000000825 0
000000802PO1

More...

F3=Exit   F12=Cancel   F19=Left   F20=Right   F24=More keys

```

Figure 1.19 Display Physical File Member panel – character mode

## Inbound Sub-Split Inquiry

When you select option '12' (Sub-Split) on the Split File Inquiry panel (EDIX260-CTL01), the system displays the Sub-Split Inquiry for Split File panel (EDIX261-CTL01). This panel shows the number of records currently residing in the \*FIRST member of each of the 80 sub-split files associated with a given split file or the Slide file. The following figure shows the Sub-Split Inquiry For Split File 1.

### NOTE

On the Split File Inquiry panel (EDIX260-CTL01), the value 'Y' displays in the Sub-Split column next to a split file that has data in any of its sub-split files.

```

EDIX261                Sub-Split Inquiry for Split File                04/30/11
CTL01                  12:00:00

Split File . . . . . 01
Records. . . . .

Type option, press Enter.
  5=View 6=Print 11=Clear

Opt      Sub-Split      Records
---      ---            ---
---          1             5694
---          2
---          3
---          4
---          5
---          6
---          7
---          8
---          9
---         10
---         11

More...

F1=Help  F5=Refresh  F12=Cancel

```

Figure 1.20 Sub-Split File Inquiry panel

The Sub-Split File Inquiry panel offers the following options:

- 5=View** To display the data records in the \*FIRST member of a particular sub-split file, type '5' in the option field next to that file. This accesses the Display Physical File Member panel.
- 6=Print** To print the data records in a particular sub-split file, type '6' in the option field next to the appropriate file. Only data from the *first* member is printed.
- 11=Clear** To clear (remove) the records from the \*FIRST member of any of the 80 sub-split files, type '11' in the option field next to that file. (Clearing data prevents the system from sending it through the Inbound Mapper.) *"Cleared" data is not necessarily permanently lost – it stays on the inbound queue until you purge it through the Work with Communications panel (EDIX400-FMT01).* You can reprocess "cleared" data by revising the status of the batch (interchange) to 'RN' (Received Normally) on the Work with Inbound Queue Control panel (EDIX407-FMT01) in the Communications subsystem.

---

## Standards Selective Download

The Standards Selective Download function runs the DWNSTD command. This command allows you to load the online standards from CD to disk. You can also load the online Tradacoms standards by executing the DWNSTDTC command.

Why would your company use the Standards Selective Download (DWNSTD/DWNSTDTC) command? There are several reasons you might want to download standards:

- You want to add a new version
- You have only a few trading partners
- You use only some standard versions
- You trade only a few documents
- You want to minimize the disk space used
- You have proprietary standards
- You want to increase processing throughput.

The DWNSTD/DWNSTDTC commands reduce the amount of space required for standards and allows you to manage only the standards you need to trade with your partners. Whether you have a large company with multiple trading partners or a small company trading only a few documents, this command gives you control over the standards on your system.



### RECOMMENDATION

---

Always back up your standards files before running this job. These files include STD\* and GT00TBP.

---

## Overview

The DWNSTD/DWNSTDTC commands enable you to load online standards from CD to disk. These commands are an interactive process that loads a subset of the online standard files based on the versions selected. The DWNSTD command can be run in the following ways:

- During the installation of Sterling Gentran:Server through the INSTALL36 command (SEE the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 Installation/Conversion Guide*)
- With the cumulative fix install (FIX35) command
- By selecting option '6' (Standards Selective Download) on the GENPRC menu
- By typing 'DWNSTD' on the command line and pressing **F4** (Prompt).

The DWNSTDTC command can be run in the following ways:

- By selecting option '11' (Tradacoms Standards Selective Download) on the GENPRC menu.
- By typing 'DWNSTDTC' on the command line and pressing **F4** (Prompt).

The rules that apply to executing the DWNSTD command vary based on whether you are running the command during the install, running the command during a cumulative fix, prompting 'DWNSTD' on the command line or selecting option '6' from the GENPRC menu.

**CAUTION**

FIX33 without the Standards Selective Download (DWNSTD) option leaves your online standards untouched. FIX35 with the Standards Selective Download (DWNSTD) option \*REPLACE in the Add or Replace Standards parameter will overlay all current online standards with the subset of the selected standards on tape. To protect the integrity of your existing standards, type '\*ADD' in the Add or Replace Standards parameter. By doing this you will be downloading only the new standards you need and leaving the old ones untouched.

When executing the DWNSTD command by selecting it on the GENPRC menu or by entering it on the command line, mount a Sterling Gentran:Server standards CD. If all standards are currently loaded on disk, type \*REPLACE in the Add or Replace Standards parameter. This is the only way to reduce the current online standards to the selected subset of standards on CD.

The following standards are automatically selected the first time standards are loaded on the users' system.

DEFAULT	The default version is used as an interchange control record for BG versions and other envelope processing.
DEFAULT4	The Default4 version is used for the UNB interchange control record when the syntax version is greater than 3.
00400	Interchange control record for ISA (releases equal to and after 004010).
002001UN	Version for syntax 1 EDIFACT acknowledgment.
002002UN	Version for syntax 2 EDIFACT acknowledgment
D 3	Version for syntax 3 and higher EDIFACT acknowledgment

The following standards are not automatically selected but are necessary if they meet the requirements listed beside them.

G2/5	If the user will use 999 functional acknowledgments (U2/5).
G2/6	If the user will use 999 functional acknowledgments (U2/6).

**RECOMMENDATION**

Be sure that no users are accessing Sterling Gentran:Server online standards or mapping screens when you run the DWNSTD command.

The following figure shows the Standards Selective Download (DWNSTD) panel, which displays when you prompt the DWNSTD command.

```

Standards Selective Download (DWNSTD)

Type choices, press Enter.

Device . . . . . _____ Character value
Gentran:Server Data Library. . . G3X6DTA Library
Add or Replace Standards? . . . *ADD *ADD, *REPLACE

Additional Parameters

Auxiliary Storage Pool. . . . *SAVASP *SAVASP, 1, 2, 3, 4, 5, 6. . . . .
End of Tape Option. . . . . *UNLOAD *UNLOAD, *REWIND, *LEAVE

Bottom
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to Use this Display
F24=More Keys

```

Figure 1.21 Standards Selective Download (DWNSTD) panel

Complete the fields on the panel and then press **Enter** to access the next panel. You may find the field descriptions below useful as you fill in the values on this panel. You may also want to use online help to access more information. Press **F10** (Additional Parm) to see additional parameters.

#### Device

Enter the name of the device where the CD is loaded.

#### Sterling Gentran:Server Data Library

Enter the name of the library in which the Sterling Gentran:Server data is located on your system.

#### Add or Replace Standards

Type **\*ADD** if additional versions or transaction sets are to be added to disk. Type **\*REPLACE** if all standards currently on disk are to be replaced with the selected subset of standards. The default is **\*ADD**.





## Add Confirmation

A confirmation panel displays after **Enter** is pressed if \*ADD is entered in the “Add or Replace Standards” field. The panel gives the user another opportunity to cancel the DWNSTD command. The confirmation panel is shown below.

```
DWNSTD                Standards Selective Download                04/30/11

This job will run interactively after the selection process.

Running Standards Selective Download with option *ADD will add only those
new versions selected that are not currently in the online standards.
A list of version will be displayed for the selection process.

After the Download has completed successfully, you will need to select the
transactions-in-use and then run Extract Standards (EXTSTD) to rebuild the
batch standards file. Refer to the documentation in the User Guide.

F12=Cancel                ENTER=Continue
```

Figure 1.23 Standards Selective Download Add Confirmation panel

To continue the download, press **Enter**. To cancel the command, press **F12** (Cancel).

## Standards Selective Download By Version

The figure below shows the Standards Selective Download by Version panel. This panel displays after the Replace or Add warning panel.

```

DWNSTD1           Standards Selective Download           04/30/11
Position to Version: _____

Type option, press Enter.
  1=Select   6=Unselect

Opt   Version      Description
-     ANA001       TRADACOMS UNITED KINGDOM
-     A2/4         TDC (AIR) VERSION 2 RELEASE 4
-     A2/5         TDC (AIR) VERSION 2 RELEASE 5
-     A2/6         TDC (AIR) VERSION 2 RELEASE 6
-     A2/7         TDC (AIR) VERSION 2 RELEASE 7
-     A2/8         TDC (AIR) VERSION 2 RELEASE 8
-     C2/4         TDC (OCEAN) VERSION 2 RELEASE 4
-     C2/5         TDC (OCEAN) VERSION 2 RELEASE 5
-     C2/6         TDC (OCEAN) VERSION 2 RELEASE 6
-     C2/7         TDC (OCEAN) VERSION 2 RELEASE 7
-     C2/8         TDC (OCEAN) VERSION 2 RELEASE 8
-     C2/9         TDC (OCEAN) VERSION 2 RELEASE 9
-     DEFAULT     EDITOR DEFAULT BERSION FOR ALL STANDARDS

F3=Continue  F12=Cancel                                     More...

```

Figure 1.24 Standards Selective Download by Version panel

Versions currently in your online standard files will display with “PRD” (Production) beside the record. The version in production cannot be selected if \*ADD was entered in the Add or Replace Standards parameter. The message “Version (version\_id) is in production. Selection is not permitted.” displays at the bottom of the panel.

The following figure shows the Standards Selective Download by Version panel.

```

DWNSTD1                Standards Selective Download                04/30/11

Position to Version: _____

Type option, press Enter.
  1=Select   6=Unselect

Opt   Version   Description
--   --
SEL  003020   ANSI X12 VERSION 3 RELEASE 2
--   --
      003020M  ANSI X12.835 HEALTH CARE CLAIM PAYMENT/ADVICE
--   --
      003020RAIL RAIL VERSION 3 RELEASE 2
--   --
      003020UCS  TDCC (UCS) VERSION 3 RELEASE 2
--   --
      003020VICS ANSI X12 VERSION 3 RELEASE 2
--   --
      003021   ANSI X12 VERSION 3 RELEASE 2.1
--   --
      003022   ANSI X12 VERSION 3 RELEASE 2.2
1   PRD 003030   ANSI X12 VERSION 3 RELEASE 3
--   --
      003030UCS ANSI X12 VERSION 3 RELEASE 3
--   --
      088001   EDIFACT (1988 VERSION)
--   --
      089001   EDIFACT PURCHASE ORDER (1989 VERSION)
--   --
      09001   EDIFACT 1990 RELEASE 1
--   --
      090001EAN001 ANAEANCOM 1990 RELEASE 1

More...

F3=Continue  F12=Cancel
Version 003030 is in production. Selection is not permitted.

```

Figure 1.25 Standards Selective Download by Version panel

Type '1' (Select) beside all versions to be selected on this screen and press **Enter**. If you require a version that is not listed on this screen, page down to continue selecting by typing a '1' (Select) beside all versions to be selected on this screen and press **Enter**.

After all versions have been selected press **F3** (Continue) to exit and continue. To cancel the job, press **F12** (Cancel). Several status panels display after you press **F3** (Continue).



#### NOTE

If you do not select a version and press **F3** (Continue), you will be cancelled out of DWNSTD.

## Exit Messages

If the download is successful, the message shown in the following panel displays.

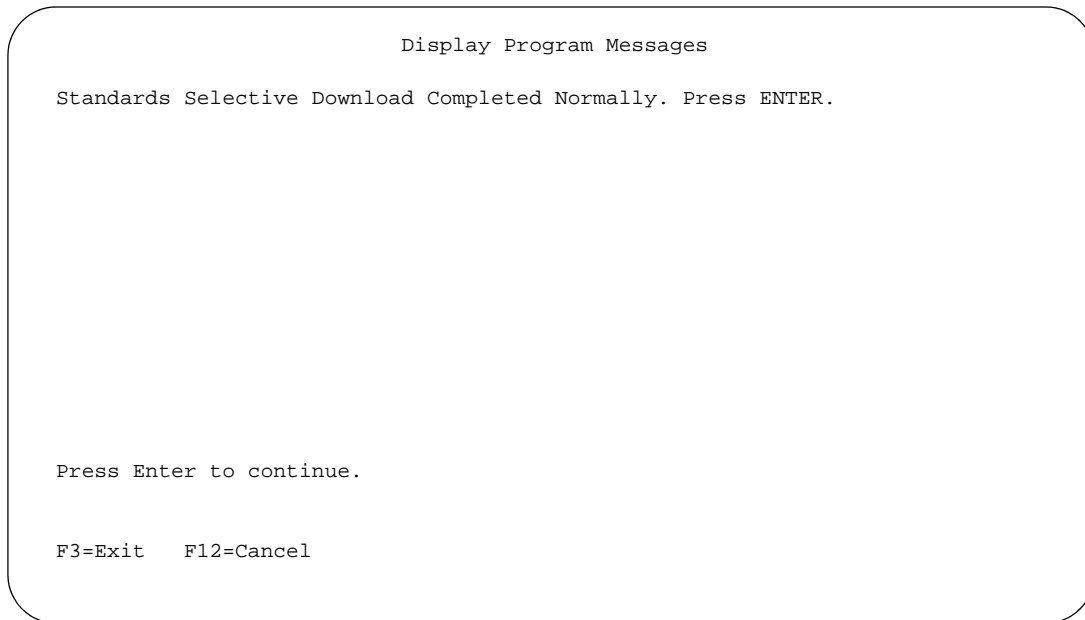


Figure 1.26 Display Program Messages panel



---

### NOTE

You must press **Enter** after the message displays to remove the temporary library from the library list and delete it.

---

If you press **F12** (Cancel), the message, "Command Cancelled When User Pressed Function Key 12. Press ENTER," displays on the panel, as shown below.



---

### NOTE

You must press **Enter** after the message displays to remove the temporary library from the library list and delete it.

---

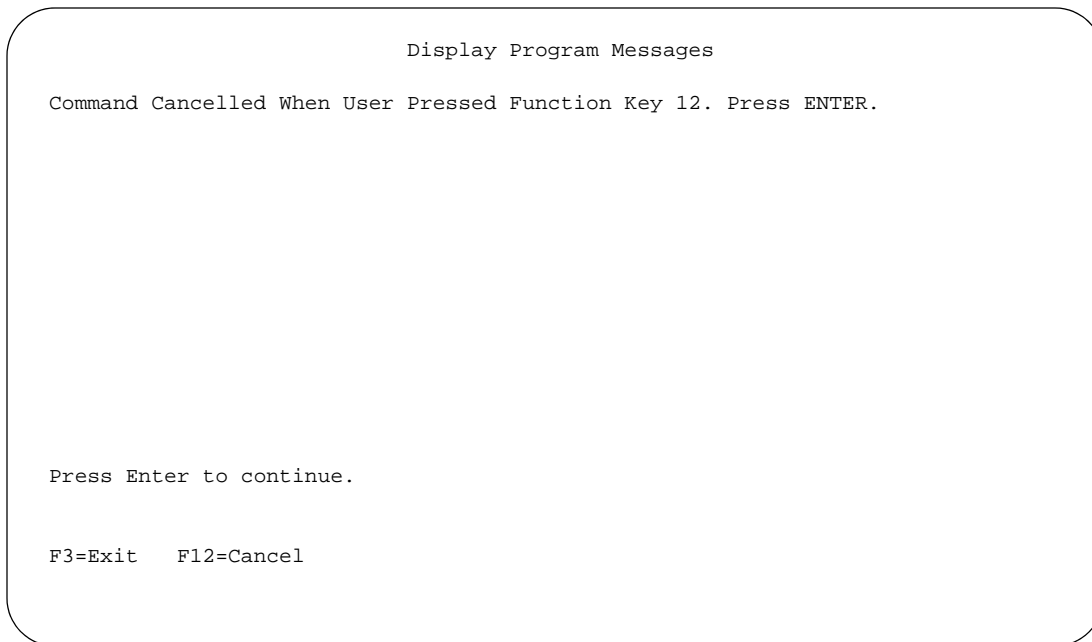


Figure 1.27 Display Program Messages panel – Command Cancelled

## Tradacoms Standards Selective Download

When executing the DWNSTDTC command by selecting it on the GENPRC menu or by entering it on the command line, mount a Sterling Gentran:Server Tradacoms standards CD. If all standards are currently loaded on disk, type \*REPLACE in the Add or Replace Standards parameter. This is the only way to reduce the current online standards to the selected subset of standards on CD.



### RECOMMENDATION

Be sure that no users are accessing Sterling Gentran:Server online standards or mapping screens when you run the DWNSTDTC command.

The following figure shows the Tradacoms Standards Selective Download (DWNSTDTC) panel, which displays when you prompt the DWNSTDTC command.

```

Tradacoms Standards Download (DWNSTDTC)

Type choices, press Enter.

Device . . . . . _____ Character value
Gentran:Server Data Library . . G3X6DTA Library
Add or Replace Standards? . . . *ADD *ADD, *REPLACE

Additional Parameters

Auxiliary Storage Pool . . . . . *SAVASP *SAVASP, 1, 2, 3, 4, 5, 6...

Bottom
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys

```

Figure 1.28 Tradacoms Standards Selective Download (DWNSTDTC) panel

Complete the fields on the panel and then press **Enter** to access the next panel. You may find the field descriptions below useful as you fill in the values on this panel. You may also want to use online help to access more information. Press **F10** (Additional Parms) to see additional parameters.

#### Device

Enter the name of the device where the CD is loaded.

#### Sterling Gentran:Server Data Library

Enter the name of the library in which the Sterling Gentran:Server data is located on your system.

#### Add or Replace Standards

Accept the default value, \*ADD, if additional versions or transaction sets are to be added to disk. Type \*REPLACE if all standards currently on disk are to be replaced with the selected subset of standards.

## Additional Parameters

Press **F10** (Additional Parms) to see additional parameters.

### Auxiliary Storage Pool

All objects will be restored to Auxiliary Storage Pool 1 unless otherwise indicated.

## Replace Confirmation

A confirmation panel displays after **Enter** is pressed if **\*REPLACE** is entered in the “Add or Replace Standards” field. The panel gives the user another opportunity to cancel the DWNSTDTC command. The confirmation panel is shown below.



### NOTE

**\*REPLACE** should be used anytime all current online standards are to be removed and replaced by the ones selected on the Version panel.

```
DWNSTD           Tradacoms Standards Selective Download           04/30/11

This job will run interactively after the selection process.

Running Standards Selective Download with option *REPLACE will replace
All current online standards with the selected Subset of the standards on
the tape.  A list of versions will be displayed for the selection process.

After the Download has completed successfully, you will need to select the
transactions-in-use and then run Extract Standards (EXTSTD) to rebuild the
batch standards file. Refer to the documentation in the User Guide.

F12=Cancel           ENTER=Continue
```

Figure 1.29 Standards Selective Download Replace Confirmation panel

To continue the download, press **Enter**. To cancel the command, press **F12** (Cancel).



## Add Confirmation

A confirmation panel displays after **Enter** is pressed if \*ADD is entered in the “Add or Replace Standards” field. The panel gives the user another opportunity to cancel the DWNSTDTC command. The confirmation panel is shown below.

```
DWNSTD Tradacoms Standards Selective Download 04/30/11

This job will run interactively after the selection process.

Running Standards Selective Download with option *ADD will add only those
new versions selected that are not currently in the online standards.
A list of versions will be displayed for the selection process.

After the Download has completed successfully, you will need to select the
transactions-in-use and then run Extract Standards (EXTSTD) to re-build the
batch standards file. Refer to the documentation in the User Guide.

F12=Cancel ENTER=Continue
```

Figure 1.30 Standards Selective Download Add Confirmation panel

To continue the download, press **Enter**. To cancel the command, press **F12** (Cancel).

## Tradacoms Standards Selective Download By Version

The figure below shows the Tradacoms Standards Selective Download by Version panel. This panel displays after the Replace or Add warning panel.

```

DWNSTD1                Standards Selective Download                04/30/11

Position to Version: _____

Type option press, Enter.
  1=Select  6=Unselect

Opt   Version      Description
___   ACHG02       ABI BROKERNET DATA STANDARDS
___   ADJL01       ABI BROKERNET DATA STANDARDS
___   ADJL04       ABI BROKERNET DATA STANDARDS
___   ADJL05       ABI BROKERNET DATA STANDARDS
___   ADJL06       ABI BROKERNET DATA STANDARDS
___   ANA001       TRADACOMS UNITED KINGDOM
___   ATRM01       ABI BROKERNET DATA STANDARDS
___   ATRM02       ABI BROKERNET DATA STANDARDS
___   ATRM04       ABI BROKERNET DATA STANDARDS
___   CLNM01       ABI BROKERNET DATA STANDARDS
___   CLNM04       ABI BROKERNET DATA STANDARDS
___   CLPM01       ABI BROKERNET DATA STANDARDS
___   CLPM04       ABI BROKERNET DATA STANDARDS                +

F3=Continue  F12=Cancel

```

Figure 1.31 Standards Selective Download by Version panel

Versions currently in your online standard files will display with “PRD” (Production) beside the record. The version in production cannot be selected if \*ADD was entered in the Add or Replace Standards parameter. The message “Version (version\_id) is in production. Selection is not permitted.” displays at the bottom of the panel.

Type ‘1’ (Select) beside all versions to be selected on this screen and press **Enter**. If you require a version that is not listed on this screen, page down to continue selecting by typing a ‘1’ (Select) beside all versions to be selected on this screen and press **Enter**.

After all versions have been selected press **F3** (Continue) to exit and continue. To cancel the job, press **F12** (Cancel). Several status panels display after you press **F3** (Continue).

### NOTE

If you do not select a version and press **F3** (Continue), you will be cancelled out of DWNSTDTC.

## Exit Messages

If the download is successful, the message shown in the following panel displays.

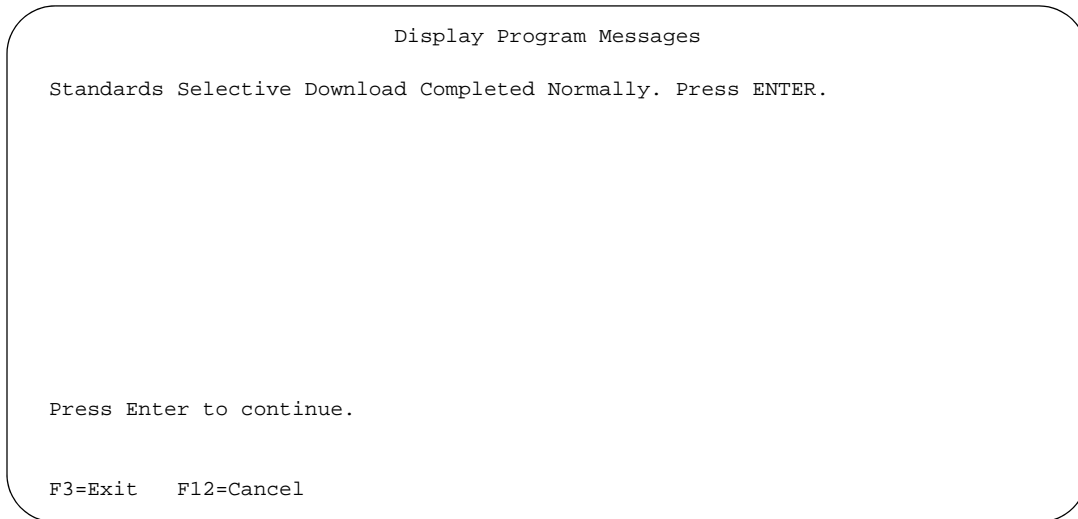


Figure 1.32 Display Program Messages panel



### NOTE

You must press **Enter** after the message displays to remove the temporary library from the library list and delete it.

If you press **F12** (Cancel), the message, “Command Cancelled When User Pressed Function Key 12. Press ENTER,” displays on the panel, as shown below.



### NOTE

You must press **Enter** after the message displays to remove the temporary library from the library list and delete it.

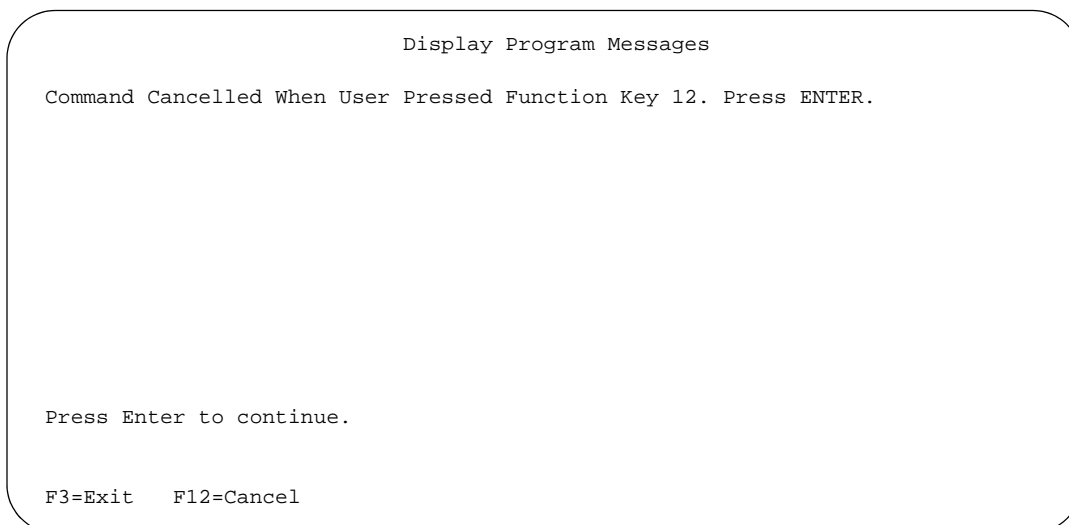


Figure 1.33 Display Program Messages panel – Command Cancelled

---

## Standards Selective Delete (DLTSTD)

Why would your company use the Standards Selective Delete (DLTSTD) command? Here are two cases in which you would use this command:

- You currently have all online standards on disk
- You have standard versions online that are not needed.

The DLTSTD command allows you to delete online standards that you do not use. If you currently have all standards online, but use only a few of them to trade with your partner, the DLTSTD command will reduce the size of your online standards, allowing you more control.

### Overview

The Standards Selective Delete (DLTSTD) command enables you to delete online standards from disk. The command is an interactive process that deletes a subset of the online standard files based on the versions selected.



---

#### RECOMMENDATION

Be sure that no users are accessing Sterling Gentran:Server when you run the DLTSTD command.

---

The Standards Selective Delete command can be run in the following ways:

- Select option '7' from the GENPRC menu
- Type 'DLTSTD' on the command line and press **F4** (Prompt).

The following figure shows the Standards Selective Delete panel (DLTSTD).

```
Standards Selective Delete (DLTSTD)

Type choices, press Enter.

Sterling Gentran:Server Data Library . . . G3X6DTA Library

Bottom

F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to Use this Display
F24=More Keys
```

Figure 1.34 Standards Selective Download (DLTSTD) panel

Complete the field on the DLTSTD panel, which is described below.

**Sterling Gentran:Server Data Library:**

Library where Sterling Gentran:Server data is located on your system.



**NOTE**

The online standards files are exclusively allocated for this command. If you need to delete a few versions and do not want to allocate the files to do so, use option '4' (Delete) from the Work with Standards panel (EDIX200-FMT01). (SEE the "Standards" chapter in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide* for more information.)

## Delete Confirmation

A confirmation panel displays after **Enter** is pressed. The panel gives the user another opportunity to cancel the DLTSTD command. The confirmation panel is shown below.

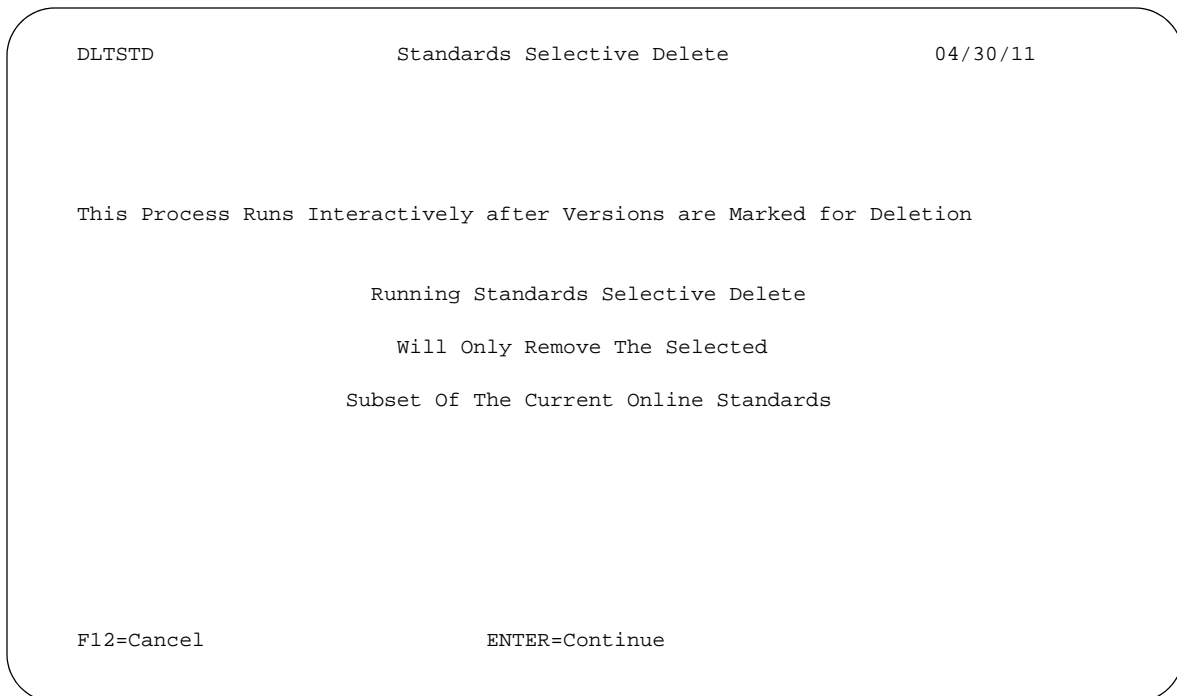


Figure 1.35 Standards Selective Delete (DLTSTD) – Delete Confirmation panel

To continue the delete command, press **Enter**. To cancel the command, press **F12** (Cancel).

## Standards Selective Delete By Version

The figure below shows the Standards Selective Delete by Version (DLTSTD1) panel.

```
DLTSTD1                Standards Selective Delete                04/30/11

Position to Version: _____

Type option, press Enter.
  1=Select   6=Unselect

Opt   Version      Description
-     003020      ANSI X12 VERSION 3 RELEASE 2
-     003030      ANSI X12 VERSION 3 RELEASE 3

F3=Continue  F12=Cancel

Bottom
```

Figure 1.36 Standards Selective Delete by Version panel

After you have selected all versions to be deleted, press **F3** (Continue) to exit and continue. To cancel the command, press **F12** (Cancel). Several status panels display after you press **F3** (Continue). These status panels show where the command is in the deletion process.

 **NOTE**

If you do not select a version and press **F3** (Continue), you will be cancelled out of DLTSTD.

## Exit Messages

If the delete is successful, the message shown in the panel below displays.

 **NOTE**

You must press **Enter** after the message displays to remove the temporary library from the library list and delete it.

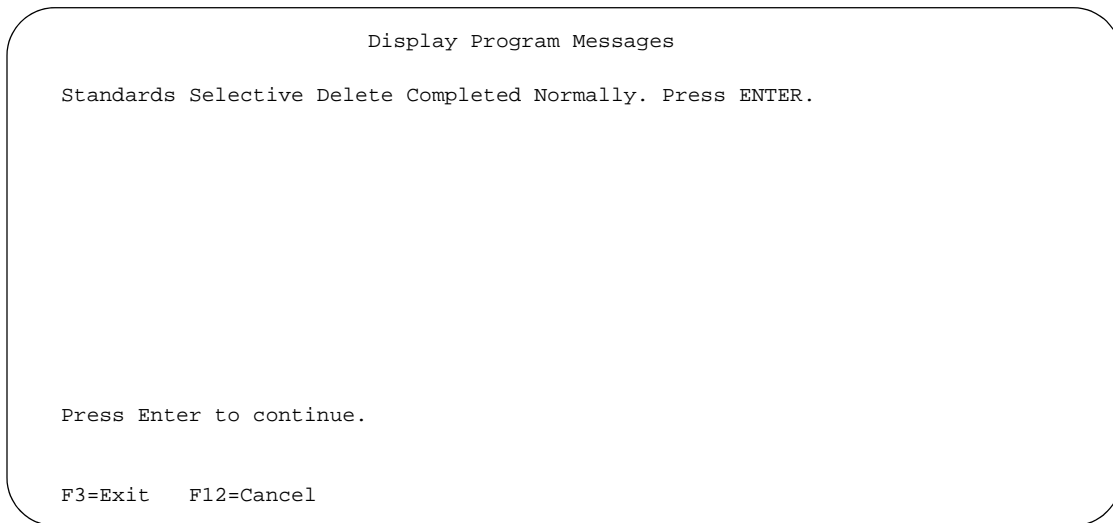


Figure 1.37 Display Program Messages panel

If **F12** (Cancel) is pressed, the message, “Command Cancelled When User Pressed Function Key 12. Press ENTER,” displays, as shown in the panel below.

 **NOTE**

You must press **Enter** after the message displays to remove the temporary library from the library list and delete it.

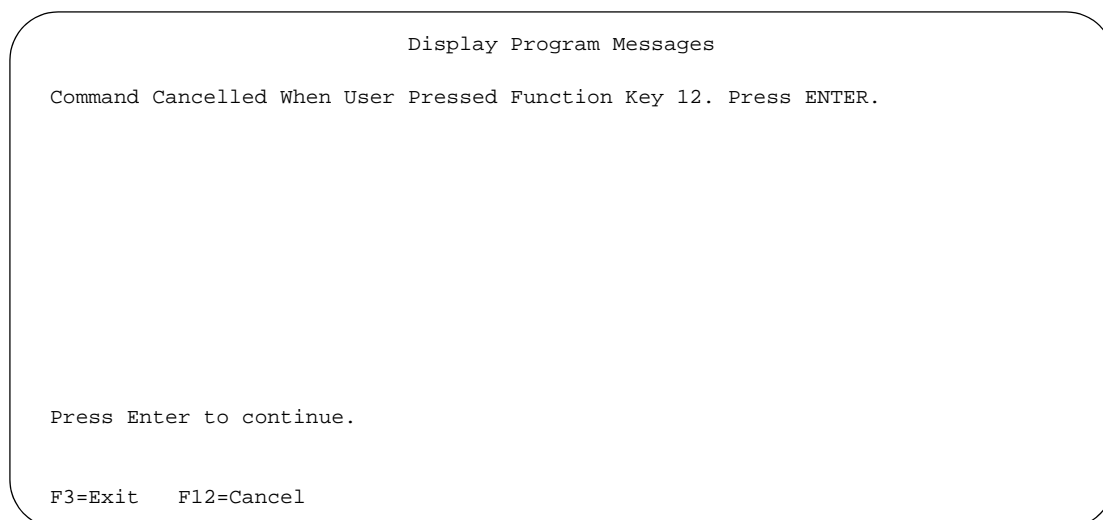


Figure 1.38 Display Program Message panel – Command Cancelled



## Remove Gentran Work Members (RMVGENMBR)

### Overview

The Remove Gentran Work Members (RMVGENMBR) command enables you to remove work members created during inbound and outbound processing, as well as run reports about them.

When you select option '8' (Remove Gentran Work Members) on the GENPRC menu, the system displays the Remove Gentran Work Members command (RMVGENMBR). This is actually the same command prompt panel that the system displays if you enter 'RMVGENMBR' on the command line and press **F4** (Prompt). *The minimum information you need to provide on this panel is Remove Work Members.*

The following figure shows the Remove Gentran Work Members (RMVGENMBR) command.

```

Remove Gentran Work Members (RMVGENMBR)

Type choices, press Enter.

Remove Work Member(s) . . . . . _____ *YES, *NO
Data Library . . . . . *LIBL *LIBL, Name
Gentran Work File . . . . . *ALLWORK *ALLWORK, *BASE, *NET, Name
Gentran Work Member . . . . . *ALLWORK *ALLWORK, Name
Print Activity Log Report . . . *YES *YES, *NO
More/Less Report Detail . . . . *LESS *MORE, *LESS

Member Selection:
  Inbound or Outbound Member(s) *BOTH *BOTH, *INBOUND, *OUTBOUND
  Beginning Time . . . . . *BEGIN *BEGIN, HHMMSS
  Beginning Date . . . . . *BEGIN *BEGIN, Date
  Ending Time . . . . . *END *END, HHMMSS
  Ending Date . . . . . *END *END, Date

Bottom
F3=Exit F4=Prompt F5=Refresh F10=Additional parameters F12=Cancel
F13=How to use this display F24=More keys

```

Figure 1.39 Remove Gentran Work Members (RMVGENMBR) Command

Complete the fields on the RMVGENMBR panel, which are described below.

#### Remove Work Member(s)

Select \*YES to remove Sterling Gentran:Server work members that meet the selection criteria specified. If you only want to print an Activity Log Report of work members for a specified set of criteria without removing them, select \*NO for this parameter.

#### Data Library

Enter the library name where the work files are located. To use your library list to locate the files, type '\*LIBL'; otherwise, enter the library name.

**Sterling Gentran Work File**

Specifies the file(s) to process for the remove member and/or report functions. Valid values are:

\*ALLWORK (process all Sterling Gentran work files)

\*BASE – Process all Sterling Gentran work files (specified in file RMVMBRP) except the network files. The network files are:

- COMNETFIL
- COMNETFILA
- IBMNETFIL
- GEISNETFIL
- TELEKOM
- TELEKOMAR
- TELEKOMSTS

\*NET – Process only the network files.

NAME (specify the name of the file to be processed).

**Sterling Gentran Work Member**

Specifies the member(s) to process for the remove member and/or report functions. Valid values are:

\*ALLWORK – Process all work members in the specified file. Work members start with an "M". Any member that does not start with an "M" will not NOT be processed.

NAME – Specify the member name to be processed.

**Print Activity Log Report?**

Specifies whether to generate an activity log report. Valid values are:

\*YES                      Generate an activity log report. If Remove Work Members is set to \*YES and More/Less Report Detail is set to \*MORE, the report will list all members in the file, and indicate which were deleted. If Remove Work Members is set to \*YES and More/Less Report Detail is set to \*LESS, the report will list only members which were deleted. When Remove Work Members is set to \*NO and More/Less Report Detail is set to \*LESS, the report will list only members that meet the criteria selected. When Remove Work Members is set to \*NO and More/Less Report Detail is set to \*MORE, all members in the file will be listed.

\*NO                        Do not generate an activity log report.

**More/Less Report Detail?**

Specifies the amount of detail to print on the activity log report. Valid values are:

- |       |   |
|-------|---|
| *LESS | Lists only the members which meet the selection criteria specified.   |
| *MORE | Lists all work members in the selected file when *YES is specified for Remove Work Members? parameter, and indicates whether or not each was removed and/or met the selection criteria. |

**Member Selection**

Defines the member criteria of the files being removed/printed.

**Inbound or Outbound Member(s)**

Respond with \*BOTH if you wish to process both inbound and outbound members.

Respond with \*INBOUND if you wish to process only Inbound work members. The inbound members will begin with an 'M' followed by a sequence number in the format 'nnnnn', which is followed by the letter 'I' for inbound work members.

Respond with \*OUTBOUND if you wish to process only Outbound work members. The outbound files will begin with an 'M' followed by the letter 'O' for outbound work members. Any member that does not start with the letter 'M' will not be processed.

**Beginning Time/Ending Time**

You can specify a certain time frame by entering a beginning time and/or ending time. If all members are to be selected, leave the defaults \*BEGIN/\*END. If you enter a specific date, it must be entered in the format defined in the System Configuration file. Use the SETGENFMT command on the System Configuration menu to determine the format.

**Beginning Date/Ending Date**

You can specify a certain date range by entering a beginning date and/or ending date. If all members are to be selected, leave the defaults \*BEGIN/\*END. If you enter a specific date, it must be entered in the format defined in the System Configuration file. Use the SETGENFMT command on the System Configuration menu to determine the format.

---

### Additional Parameters (F10)

#### **Run Interactively?**

This parameter enables you to run the command in an interactive mode, so you can monitor system messages that occur during processing.



---

#### **NOTE**

The terminal from which the job was submitted will be locked until the process is complete.

---

#### **Process Name**

This parameter allows you to uniquely identify the command or job flow in the Message Center. The default is the command name. It can be modified to any 15-byte alphanumeric value to further identify this process in the Message Center. The process name displays on the Work with Message Center panel and always tracks under this name.

#### **Schedule Job ?**

Enables you to run RMVGENMBR as a scheduled job. Valid values are \*NO (default) and \*YES, which will take you to the Schedule Job panel to further define the job run parameters. (SEE the “Job Scheduler” chapter in this guide for more information on scheduling jobs.)

To continue the RMVGENMBR command, press **Enter**. To cancel the command, press **F12** (Cancel).

## Purge VAT Report Database (PRGVAT)

### Overview

If you are collecting Value Added Tax (VAT) reporting data for Tradacoms or EDIFACT documents, it is a good idea to purge the database periodically. This command enables you to selectively purge VAT data. You can specify to purge data for a range of partner names and/or dates, as well as data you sent or received. The file that is purged using this command is VATDATABASE. A file reorganization is performed as a step of the purge process.



#### NOTE

The VAT database may contain both EDIFACT and Tradacoms information. The purge function will delete all EDIFACT and Tradacoms data that satisfies the parameters entered.

When you select option '9' (Purge VAT Report Database) on the GENPRC menu, the system displays the Purge VAT Report Database panel (PRGVAT). This is actually the same command prompt panel that the system displays if you type 'PRGVAT' on the command line and press **F4** (Prompt).

The following figure shows the Purge VAT Report Database panel (PRGVAT).

```

Purge VAT Report Database (PRGVAT)

Type choices, press Enter.

Selection Criteria for Purge . . . *ALL _____ Date, *CURRENT, *DAYS, *ALL
Send or Receive . . . . . S S, R
Select Partners From . . . . . *ALL _____
Select Partners To . . . . . _____
Purge Method? . . . . . _____ *TAPE, *SAVF, *NONE, *CL

Additional Parameters

Run Interactively? . . . . . *NO *YES, *NO
Schedule Job? . . . . . *NO *YES, *NO
Process Name . . . . . PRGVAT _____

Bottom
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys

```

Figure 1.40 Purge VAT Report Database panel (PRGVAT)

If you enter ONLY a range of partner names on the screen and leave the default value in the Date to Purge Before field, all data sent prior to today's date to those partners will be purged if you type 'S' in the Send/ Receive field. Likewise, if you type 'R' in the Send/ Receive field, all data received before the current date from those partners will be purged.

If you wish to purge records which are older than a certain number of days without regard to the partner, type 'S' or 'R' in the Send/Receive field and '\*DAYS' in the Selection Criteria for Purge field and press Enter. The Days To Retain on File parameter displays. Enter the number of days old you wish to retain on file. Any records meeting the Send/Receive and Days to Retain on File criteria will be purged.

You can also use a combination of partner names and dates to selectively purge data. If you entered an 'S' in the Send/Receive field, all data sent by you to the specified partners will be reviewed. Any data of those partners sent before the specified date will be purged. Data associated with the specified partners that are equal to or greater than the date specified will not be deleted.

To use the PRGVAT command, complete the fields on the PRGVAT panel, which are described below.

### Selection Criteria for Purge

This is a 10-position alphanumeric field used to define a purge date. Valid values are:

- \*Date      Purge records that are in between and equal to the From and To dates entered. Date entered must be in the format defined in the System Configuration file. Use the SETGENFMT command found on the System Configuration menu to determine the format.
- \*DAYS      The Days to Retain on File parameter displays when you press **Enter**. This allows you to specify the number of days to retain on file.
- \*ALL      All records including the current date are deleted.

### Send or Receive

Valid values for this field are 'R' and 'S'. Type 'R' to purge data received from one of your trading partners. To purge data sent, type 'S'.

### Select Partners From

This field is used to enter a trading partner ID. To purge data associated with a single trading partner, enter just that name in this field and leave the Select Partners To field blank. To purge data associated with multiple trading partners, enter the first partner's ID in this field and the last partner's ID in the Select Partners To field, in alphabetic sequence. This field is case sensitive.

### Select Partners To

This field is used only to purge data associated with multiple trading partners. If you are purging data associated with one partner, leave this field blank. If you are purging data associated with a number of trading partners, enter the first partner's ID in the Select Partners From field and the last partner's ID in this field, in alphabetic sequence. This field is case sensitive.

### Purge Method?

An alphanumeric field used to indicate whether data should be saved to tape or to a save file. If you want the data to be saved to tape, specify '\*TAPE' or '\*CL' when using the command within a CL. If you want to save the data to a save file, specify '\*SAVE.' If you just want the data purged without saving it, specify '\*NONE.'

### Additional Parameters (F10)

**Run Interactively?**

This field is used to indicate whether or not to run this job interactively. Type \*YES to run this job interactively; otherwise, type \*NO.

**Schedule Job?**

This field is used to indicate whether or not this job is to be scheduled. Type \*YES to start the scheduling process, or type \*NO to not schedule this job. (SEE the 'Job Scheduler' chapter in this guide for more information on scheduling jobs.)

**Process Name**

This parameter allows you to uniquely identify the command or job flow in the Message Center. The default is the command name. It can be modified to any 15-byte alphanumeric value to further identify this process in the Message Center. The process name displays on the Work with Message Center panel and always tracks under this name.

To continue the purge command, press **Enter**. To cancel the command, press **F12** (Cancel).

## Retrieve VAT Report Database (RTVVAT)

### Overview

This command enables you to restore VAT database records previously purged to tape or enables you to save files using the PRGVAT command.

To retrieve VAT database records, select Option '10' (Retrieve VAT Report Database) from the GENPRC menu and press **Enter**. The system displays the Retrieve VAT Report Database panel (RTVVAT). This is actually the same command prompt panel that the system displays if you type 'RTVVAT' on the command line and press **F4** (Prompt).

The following figure shows the Retrieve VAT Report Database panel (RTVVAT).

```

Retrieve VAT Report Database (RTVVAT)

Type choices, press Enter.

VAT Database File . . . . . VATDBASE      Character value
Library . . . . . G3X5DTA      Character value
Retrieve Method . . . . . _____ *TAPE, *SAVF

F3=Exit   F4=Prompt   F5=Refresh   F10=Additional parameters   F12=Cancel
F13=How to use this display   F24=More keys

Bottom

```

Figure 1.41 Retrieve VAT Report Database panel (RTVVAT)

Enter your selection criteria on the RTVVAT command and press **Enter** to run. Press **F1** (Help) for detailed information about any of the parameters.

You can execute the Retrieve VAT Report Database command in one of three modes:

- Enter '\*TAPE' to retrieve from tape or '\*SAVF' to retrieve from the save file on the Retrieve Method parameter. To immediately submit the job to batch to run (this is the default), press **Enter**.
- Press **F10** (Additional Parameters) and type '\*YES' in the Run Interactively field to run the job interactively (your terminal will be locked until the job completes).
- Press **F10** (Additional Parameters) and type '\*YES' in the Schedule Job field to schedule the job to run at a later time.



### Parameter Definitions

**VAT Database File**

A file that contains the VAT Database records.

**Library**

A 10-position alphanumeric field used to indicate the library name on your system where the message header and message detail files are found.

**Retrieve Method**

An alphanumeric field used to indicate whether the data should be retrieved from tape or the save file. If you want the data to be retrieved from tape, specify '\*TAPE.' To retrieve the data from the save file, specify '\*SAVF.'

## Print VAT Reports (PRTVAT)

### Overview

This command creates value-added tax (VAT) reports for both EDIFACT and Tradacoms standards. Reports are generated based on criteria entered on the Print VAT Reports panel (PRTVAT). There are a total of six reports produced, which are listed below.

EDIFACT Reports	
Sender of Invoice Data Interchange	Summary VAT control information related to the invoices within each batch transmission.
Receiver of Invoice Data Interchange	
Tradacoms Reports	
Sender of Invoice Data Interchange	Summary VAT control information related to the invoices and credit notes within each batch transmission
Receiver of Invoice Data Interchange	
Sender of Invoice Data Cross Reference Report (optional)	Listing of invoice numbers within each batch transmission
Receiver of Invoice Data Cross Reference Report (optional)	

### EDIFACT Reports

The Sender of Invoice Data Interchange Report displays data that was sent to a trading partner, using just the information that was sent in the TAXCON transaction. When entering information to create this report, enter the name of the trading partner to whom you have sent information. This name is in the Receiver ID element of the UNB segment.

The Receiver of Invoice Data Interchange Report displays data that was received from a trading partner, using information in the INVOIC and TAXCON transactions. This report is divided into two parts: Control Data and File Data. Control Data displays information in the TAXCON transaction, and File Data displays information in the INVOIC transaction. When entering information to print this report, enter the name of the trading partner that sent you the information. This name is in the Sender ID element of the UNB segment.

## Tradacoms Reports

The Sender of Invoice Data Interchange Report displays invoice and credit notes data that you sent to a trading partner. The Receiver of Invoice Data Interchange Report displays invoice or credit notes data that you received from a trading partner. If an invoice is found, the reports are generated using data found in the INVFIL, INVOIC, VATTLR, and INVTLR messages. If a credit note is found, the reports are generated using data found in the CREHDR, CREDIT, VATTLR, and CRETLR messages. The cross reference reports display a list of invoices associated with each batch transmission. Any credit note information is not included on these reports, because they only list invoice numbers.

If you have a mix of EDIFACT and Tradacoms data, reports for both types will be generated in the proper report formats.



### NOTE

Data must have already been processed (with proper setup) for the reports to be generated.

When you select option '10' (Print VAT Reports) on the GENPRC menu, the system displays the Print VAT Reports panel (PRTVAT). This is the same command prompt panel that the system displays if you type 'PRTVAT' on the command line and press **F4** (Prompt).

The following figure shows the Print VAT Reports panel (PRTVAT).

```

                                Print VAT Reports (PRTVAT)

Type choices, press Enter.

VAT Reporting Parameters:
Print VAT report? . . . . . *YES          *YES, *NO
Send or Receive Rpt . . . . . S            S, R
Partners From (*ALL, generic*) *ALL
Partners To (*END) . . . . .
Select Starting Date to Print *CURRENT    Date, *CURRENT, *ALL
Select Ending Date to Print .           Date, *CURRENT

Tradacoms cross ref parms:
Print cross reference report? *NO          *YES, *NO
Send or Receive Rpt . . . . . S            S, R
Partners From (*ALL, generic*) *ALL
Partners To (*END) . . . . .

                                Bottom
F3=Exit   F4=Prompt   F5=Refresh   F10=Additional parameters   F12=Cancel
F13=How to use this display   F24=More keys

```

Figure 1.42 Print VAT Reports panel (PRTVAT)

---

Complete the fields on the PRTVAT panel, which are described below, and press **Enter**.

### VAT Reporting Parameters

#### **Print VAT report?**

This parameter determines whether VAT reports will be printed. Leave at default '\*YES' to print EDIFACT, Tradacoms, or both types of reports. If you use only Tradacoms, and want to print cross reference reports only, set this parameter to '\*NO'.

#### **Send or Receive Rpt**

Valid values are 'R' and 'S'. Type 'R' to create a Receiver of Invoice Data Interchange report. Type 'S' to create a Sender of Invoice Data Interchange report.

#### **Partners From**

This field is used to enter a partner ID. If you wish to create a report for a specific partner, enter that name in this field and leave the Partners To field blank. If you wish to create reports for a range of partners, enter the first partner ID in this field and the last partner ID in the Partners To field, in alphabetic sequence. You can use generic partner selection by entering a partial partner ID followed by an asterisk (\*). This will create a report for any partners whose ID begins with the partial partner ID specified. This field is case sensitive.

#### **Partners To**

This field is used only if you wish to create reports over a range of partner IDs. Enter the first name (in alphabetic sequence) in the Partners From field, and enter the last partner ID in this field. You may also enter \*END for this field. This will create a report starting with the partner ID specified in the Partners From field to the end of the partner IDs on file. This field is case sensitive.

#### **Select Starting Date to Print**

This field is used to indicate either a specific date or a starting date for a range of dates over which reports are to be generated. If you wish to generate a report for a specific date, enter that date in this field and leave the Select Ending Date to Print field blank. If you wish to generate reports for a range of dates, enter the earliest date in this field and the latest date in the Select Ending Date to Print field. Dates must be entered in the format defined in the System Configuration file. Use the SETGENFMT command on the System Configuration menu to determine the format.

#### **Select Ending Date to Print**

This field is used only when entering a range of dates over which reports are to be generated. If reports are to be generated on a single date, enter that date in the Select Starting Date to Print field, and leave this field blank. If reports are to be generated for a time period covering a specific time interval, enter the starting date in the Select Starting Date to Print field, and enter the ending range date in this field. Dates must be entered in the format defined in the System Configuration file. Use the SETGENFMT command on the System Configuration menu to determine the format.

 **NOTE**

If you enter ONLY a range of partner names and leave the default values in the date fields, reports will be created for those partners using only data sent/received for the current date.

If you enter ONLY a range of dates, reports will be generated for all data sent/received in that range date for all partners in the VAT database.

If you enter a range of partners and a range of dates, all data sent/received by those partners will be reviewed, and all data sent/received in the indicated date range will be used to generate reports.

---

### Tradacoms Cross Reference Parameters

**Print Cross Reference report?**

This parameter determines if the Tradacoms cross reference report is to be produced. If you use EDIFACT standards only, set this parameter to '\*NO'. If you use Tradacoms, set this parameter to '\*YES' to produce cross reference reports.

**Send or Receive Rpt**

Enter an 'R' to create cross reference reports showing invoice information received from other partners. Enter an 'S' to create cross reference reports showing invoice information that you sent to your trading partners.

**Partners From**

This field is used to enter a partner ID. To create a report for a specific partner, enter that name in this field and leave the Partners To field blank. To create reports for a range of partners, enter the first partner ID in this field and the last partner ID in the Partners To field, in alphabetic sequence. You can use generic partner selection by entering a partial partner ID followed by an asterisk (\*). This will create a report for any partners whose ID begins with the partial partner ID specified. This field is case sensitive.

**Partners To**

This field is used only if you wish to create reports over a range of partner IDs. Enter the first partner ID (in alphabetic sequence) in the Partners From field, and enter the last partner ID in this field. You may also enter \*END for this field. This will create a report starting with the partner ID specified in the Partners From field to the end of the partner IDs on file. This field is case sensitive.

### Additional Parameters (F10)

**Run Interactively?**

This field is used to indicate whether or not you wish to run this job interactively. Either type 'Y' to run this job interactively, otherwise type 'N'.

**Schedule Job?**

This field is used to indicate whether or not this job is to be scheduled. Type 'Y' to start the scheduling process, or type 'N' to not schedule this job.

To continue the print command, press **Enter**. To cancel the command, press **F12** (Cancel).

---

# Reports

## EBDI042 – Mapper Outbound Processing Report

### Contents of the Report

The Mapper Outbound Processing Report contains information Sterling Gentran:Server produces while mapping outgoing data. This information includes:

- For each error encountered: the System Message Number and the number of the last record read when the error occurred
- Information about the cause of each error
- Summary control counts (the number of application records read and suspended, the number of EDI segments written, and a return code for mapping)

If the system encountered no errors during mapping, the Debug parameter is set to ‘\*NO’ on the Process Transactions Outbound (PRCTRNOU) panel, and

- the Mapper Report option is set to ‘\*YES’ or blank in the SYSCFG file, the Mapper Outbound Processing Report contains only the summary control counts. In addition, if you want the application and the map name to be in the report, set the Mapper Detail (SETMAPDTL) to \*YES.
- the Mapper Report option is set to ‘\*NO’, the Mapper Outbound Processing Report will not be generated.

If the system encountered no errors during mapping and the Debug parameter is set to ‘\*YES’ on the Process Transactions Outbound (PRCTRNOU) panel, the report will contain ‘INPUTS and OUTPUTS.’

If the system encountered errors, the Mapper Outbound Processing Report will be generated regardless.

### How to Identify the Report

The name of the Sterling Gentran:Server program that generates this report (EBDI042) displays in the upper left corner of the report. The identifier “EBDI042” also displays in the User Data field associated with the spooled report in the Output Queue. The title “Mapper Outbound Processing Report” displays in the center at the top of the report. If the global parameter EDI Monitor Report is activated, the abbreviated program name (EBDI42) displays in the Process Name field on the Work with EDI Monitor panel (EDIX310-FMT01).

### How to Generate the Report

When you run the Process Transactions Outbound (PRCTRNOU) command, the system calls the Outbound Mapper (program EBDI042), which *automatically* generates this report *if the process flow can at least invoke EBDI042*.

## Special Considerations

Like all other Sterling Gentran:Server reports, the Mapper Outbound Processing Report automatically goes to the iSeries Output Queue defined for the user running the job. (SEE the “Environment Control” chapter in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide* for instructions to set up a user’s Output Queue.) Unlike other Sterling Gentran:Server reports, Processing reports can be automatically copied into the EDI Monitor files, which allow you to view and print the reports independent of the Output Queue. (The EDI Monitor file does not capture the job log. It contains only six reports: the Mapper Outbound and Inbound Processing Reports, the Editor Outbound and Inbound Processing Reports, and optionally, the Outbound and Inbound Processing Options Reports.) (SEE the “Global Parameters” chapter in this guide for information on using the EDI Monitor file.)

```

EBDI042      RUN 04/30/11      TIME 12:00      MAPPER OUTBOUND PROCESSING REPORT      PAGE 1
ERROR **RECORD**      FIELD SEG ELE
NUMBER  NBR ID      SEQ # ID  SEQ INFORMATION  ERROR MESSAGE

INTERMEDIATE FILE MEMBER NAME - M195310001
626      RAME      UNABLE TO TRANSLATE CODE - MOVED SPACE TO TARGET FIELD.
      TRANSLATION ID: UNITMEAS
626      KASE      UNABLE TO TRANSLATE CODE - MOVED SPACE TO TARGET FIELD.
      TRANSLATION ID: UNITMEAS

PROCESSING ENDED WITH ERRORS - PROCESSING COUNTS BELOW

APPLICATION RECORDS READ ----- 68
APPLICATION RECORDS SUSPENDED - 0
EDI SEGMENTS WRITTEN ----- 164
RETURN CODE FOR MAPPING ----- 4
MESSAGE CENTER RETRUN CODE ----- 4

```

Figure 1.43 Mapper Outbound Processing Report (EBDI042)



## Field Descriptions

Field Name	Description
Error Numbr	The code number associated with the error message
Record Nbr	The application record number
Record ID	The application record identifier
Field Seq #	The field sequence number
Seg ID	The EDI segment identifier
Ele Seq	The EDI element sequence number
Information	Descriptive text identifying additional information about the error message
Error Message	Descriptive text identifying the error message
(Message)	A message regarding the error or the statement “no errors occurred during Processing”
Application Records Read	The total number of records read from the application files for the Application ID processed
Application Records Suspended	The total number of application records suspended (for example, for a partner not found or a map that cannot be selected)
EDI Segments Written	The total number of EDI segments written
Return Code for Mapping	<p>The return code for mapping (the program generates a return code to indicate its ending status):</p> <p>00: No errors            04: Warning message (for example, code not found in table)            08 &amp; 16: Severe errors (for example, suspension; file-related problem)</p>
Message Center Return Code	<p>The return code logged in the Message Center data base. This prints only if the message center is activated for the PRCTRNOU command. This return code matches the mapping return code unless the Batch Error Message File has been altered to show a different severity for this error.</p>

---

# EBDI041 – Mapper Inbound Processing Report

## Contents of the Report

The Mapper Inbound Processing Report contains information Sterling Gentran:Server produces while mapping the incoming data. This information includes:

- For each error encountered: the System Message Number and the number of the last record read when the error occurred
- Information about the cause of each error
- Summary control counts (the number of EDI records read and suspended, application records written, and a return code for mapping)

If the system encountered no errors during mapping, the Debug parameter is set to ‘\*NO’ on the Process Transactions Inbound (PRCTRIN) panel, and

- the Mapper Report option is set to ‘\*YES’ or blank in the SYSCFG file, the Mapper Inbound Processing Report contains only the summary control counts. In addition, if you want the application and the map name to be in the report, set the Mapper Detail (SETMAPDTL) to \*YES.
- the Mapper Report option is set to ‘\*NO’, the Mapper Inbound Processing Report will not be generated.

If the system encountered no errors during mapping and the Debug parameter is set to ‘\*YES’ on the Process Transactions Inbound (PRCTRIN) panel, the report will contain ‘INPUTS and OUTPUTS.’

If the system encountered errors, the Mapper Inbound Processing Report will be generated regardless.

## How to Identify the Report

The name of the Sterling Gentran:Server program that generates this report (EBDI041) displays on the upper left corner of the report. The identifier “EBDI041” also displays in the User Data field associated with the spooled report in the Output Queue. The title “Mapper Inbound Processing Report” is centered at the top of the report. If the global parameter EDI Monitor Report is activated, the abbreviated program name (EBDI41) displays in the Process Name field on the Work with EDI Monitor panel (EDIX310-FMT01).

## How to Generate the Report

When you run the Process Transactions Inbound (PRCTRIN) command, the system calls the Inbound Mapper (program EBDI041) for each Application ID specified on the PRCTRIN command and *automatically* generates this report.

## Special Considerations

Like all other Sterling Gentran:Server reports, the Mapper Inbound Processing Report automatically goes to the iSeries Output Queue defined for the user running the job. (SEE the “Environment Control” chapter in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide* for instructions to set up a user’s Output Queue.) Unlike other Sterling Gentran:Server reports, Processing reports based on the Global Parameters can be automatically copied into the EDI Monitor files, which allow you to view and print the reports. (Note that the EDI Monitor file does *not* capture the job log. It contains only six reports: the Mapper Outbound and Inbound Processing Reports, the Editor Outbound and Inbound Processing Reports, and optionally, the Outbound and Inbound Processing Options Reports.) (SEE the “Global Parameters” chapter in this guide for information on using the EDI Monitor file.)

```

EBDI041  RUN 04/30/11      TIME 12:00:00      MAPPER INBOUND PROCESSING REPORT      PAGE 1
ERROR  **RECORD**      FIELD SEG ELE
NUMBER  NBR ID      SEQ # ID SEQ INFORMATION  ERROR MESSAGE
INTERMEDIATE FILE MEMBER NAME - M101241001
685 000000      000000      000      UNABLE TO OPEN THE EDI INPUT FILE.
PROCESSING ENDED WITH ERRORS -- PROCESSING COUNTS BELOW
EDI RECORDS READ ----- 0
EDI RECORDS SUSPENDED ----- 0
APPLICATION RECORDS WRITTEN ----- 0
RETURN-CODE FOR MAPPING ----- 8
MESSAGE CENTER RETURN CODE ----- 8
    
```

Figure 1.44 Mapper Inbound Processing Report (EBDI041)

## Field Descriptions

Field Name	Description
Error Numbr	Error code number associated with the error message
Record Nbr	Application record number
Record ID	Application record identifier
Field Seq #	Field sequence number
Seg ID	EDI segment identifier
Ele Seq	EDI element sequence number
Information	Descriptive text identifying additional information about the error message
Error Message	Descriptive text identifying the error message
(Message)	A message regarding the error or the statement “no errors occurred during Processing”
EDI Records Read	Total number of EDI records read from the split file (there could be more records read than are segments, if a segment exceeds 80 bytes and continues onto a second record)
EDI Records Suspended	Total number of EDI records suspended (for example, if map cannot be selected)
Application Records Written	Total number of application records written
Return Code for Mapping	Return code for Mapping (the program generates a return code to show the status of how the program ended):  00=No errors 04=Warning message (for example, code not found in table, partner not found) 08 & 16=Severe Errors (for example, file-related problem)
Message Center Return Code	The return code logged in the Message Center database. This prints only if the message center is activated for the PRCTRIN command. This return code matches the mapping return code unless the Batch Error Message File has been altered to show a different severity for this error.

---

# EBDI002 – Editor Outbound Processing Report

## Contents of the Report

The Editor Outbound Processing Report contains information the Outbound Editor produces while compliance checking outbound data. This information includes:

- Errors encountered by Interchange, Group, and Transaction
- Envelope control information
- The audit indicator line (printed when the Detail Report global parameter is set to ‘Y’ or when there are transaction-level errors.) (SEE the “Standards” chapter in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide* for more information.)
- Summary control counts

If the system encountered no errors during editing and detail is off, the Editor Outbound Processing Report contains only the summary control counts. If the Error Report global parameter is set to ‘N,’ the report is suppressed.

## How to Identify the Report

The name of the Sterling Gentran:Server program that generates this report (EBDI002) displays on the upper left corner of the report. The identifier “EBDI002” also displays in the User Data field associated with the spooled report in the Output Queue. The title “Editor Outbound Processing Report” is centered at the top of the report. If the global parameter EDI Monitor Report is activated, the abbreviated program name (EBDI02) displays in the Process Name field on the Work with EDI Monitor panel (EDIX310-FMT01).

## How to Generate the Report

When you run the Process Transactions Outbound (PRCTRNOU) command, the system calls the Outbound Editor (program EBDI002), which automatically generates this report if the Error Report global parameter is set to ‘Y’ or if errors were encountered during Processing.

When you run the Process Transactions Inbound (PRCTRIN) command, the system calls EBDI002 if acknowledgments were generated. This automatically generates the Editor Outbound Processing Report if the Error Report global parameter is set to ‘Y’ or if errors were encountered during Processing.

## Special Considerations

Like all other Sterling Gentran:Server reports, the Editor Outbound Processing Report automatically goes to the iSeries Output Queue defined for the user running the job. (SEE the “Environment Control” chapter in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide* for instructions to set up a user’s Output Queue.) Unlike other Sterling Gentran:Server reports, Processing reports are automatically copied into the EDI Monitor files (if the EDI Monitor Report global parameter is set to ‘Y’), which allow you to view and print the reports. (Note that the EDI Monitor file does not capture the job log. It contains only six reports: the Mapper Outbound

and Inbound Processing Reports, the Editor Outbound and Inbound Processing Reports, and optionally, the Outbound and Inbound Processing Options Reports.)

```

EBDI002    RUN 04/30/11    TIME 12:00    EDITOR OUTBOUND PROCESSING REPORT    PAGE 1
ERROR RECORD SEG ELT/COMP
NUMBER NUMBER ID NBR INFORMATION ERROR MESSAGE

INTERCHANGE = BULK PAPER CO          - ZZ          TYPE = ISA          CONTROL # = 000000004    VERSION = 004010
GROUP       = BULKPAPR              - ZZ          TYPE = PO           CONTROL # = 000000004    VERSION = 004010
TRANSACTION = PONUMBER-002          TYPE = 850        CONTROL # = 000000004    VERSION = 004010
62 73 PO1 3 MISSING INDICATED MANDATORY ELEMENT.
62 75 PO1 3 MISSING INDICATED MANDATORY ELEMENT.

164 RECORDS READ
160 SEGMENTS READ
00 SEGMENTS SUSPENDED
160 SEGMENTS WRITTEN
02 ERROR RECORDS WRITTEN
00 PASS THRU RECORDS WRITTEN
00 DIRECTION RECORDS WRITTEN
00 REJECT RECORDS WRITTEN
79 RECORDS WRITTEN
04 EDITOR RETURN CODE
04 MESSAGE CENTER RETURN CODE

* * * END OF REPORT * * *
    
```

Figure 1.45 Editor Outbound Processing Report (EBDI002)

## Field Descriptions

Field Name	Description
Error Numbr	Error code number associated with the error message
Record Number	Application record number
Seg ID	EDI segment identifier
Elt/Comp Nbr	EDI element/component number
Information	Descriptive text identifying additional information about the error message
Error Message	Descriptive text identifying sequence information
Audit Indicator	Message line printed when the Detail Report global parameter is set to 'Y' or transaction-level errors occurred. The value printed is the contents of the element flagged as the Audit Indicator in the Standards
Summary Section	
Records Read	The total number of EDI records read (including the envelopes, and before compression occurs); these EDI records can be more than the total number of EDI segments, as some segments can wrap to a second record
Segments Read	The total number of EDI segments read (compare this count with the total number of EDI segments written to ensure they are the same)
Segments Suspended	The total number of EDI segments suspended due to errors (such as not being able to verify the interchange/group/transaction, or the EDI standard version is not in the batch standards file and no version conversion is set up)
Segments Written	The total number of segments written
Error Records Written	The total number of internal error records written to indicate that an error occurred (this count should match the total number of lines on the Editor report that include an error number such as #63, for invalid code found)
Pass Thru Records Written	The total number of internal records written to the output data file that are passed through
Direction Records Written	The number of direction records (###DIR) written for the Outbound Splitter (this value should always be "0")
Reject Records Written	The number of records that were rejected (if error rejection occurs).The batch of data is placed on the outbound queue with the status of "QE" (queued with errors)
Records Written	The total number of EDI records written (these records are wrapped and compressed)



Field Name	Description
Editor Return Code	Return Code for the Editor (the program generates a return code to show the status of how the program ended).  00= No Errors 04= Informational Message 08= Error occurred on an element/segment 12= Error occurred on the document 16= Process Halted
Message Center Return Code	The return code logged in the Message Center database. This only prints if the message center is activated for the PRCTRNOU command. This return code matches the editor return code unless the Batch Error Message File has been altered to show a different severity for this error

---

# EBDI001 – Editor Inbound Processing Report

## Contents of the Report

The Editor Inbound Processing Report contains information the Inbound Editor produces while processing incoming data. This information includes:

- Errors encountered by Interchange, Group, and Transaction
- Envelope control information
- The audit indicator line (printed when the Detail Report global parameter is set to ‘Y’ or when there are transaction-level errors). (SEE the Standards chapter in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide* for more information.)
- Summary control counts

If the system encountered no errors during editing and Detail Report global parameter is set to ‘N,’ the Editor Inbound Processing Report contains only the summary control counts. If the Error Report global parameter is set to ‘N,’ the report is suppressed.

## How to Identify the Report

The name of the Sterling Gentran:Server program that generates this report (EBDI001) displays at the upper left corner of the report. The identifier “EBDI001” also displays in the User Data field associated with the spooled report in the Output Queue. The title “Editor Inbound Processing Report” is centered at the top of the report. If the EDI Monitor Report global parameter is activated, the abbreviated program name (EBDI01) displays in the Process Name field on the Work with EDI Monitor panel (EDIX310-FMT01).

## How to Generate the Report

When you run the Process Transactions Inbound (PRCTRIN) command, the system calls the Inbound Editor (program EBDI001), which *automatically* generates this report if the Error Report global parameter is set to ‘Y’ or if errors were encountered during Processing.

## Special Considerations

Like all other Sterling Gentran:Server reports, the Editor Inbound Processing Report automatically goes to the iSeries Output Queue defined for the user running the job. (SEE the “Environment Control” chapter in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide* for instructions to set up a user’s Output Queue.) Unlike other Sterling Gentran:Server reports, Processing reports are automatically copied into the EDI Monitor files (if the EDI Monitor Report global parameter is set to ‘Y’) which allows you to view and print the reports. (Note that the EDI Monitor file does not capture the job log. It contains only six reports: the Mapper Outbound and Inbound Processing Reports, the Editor Outbound and Inbound Processing Reports, and optionally, the Outbound and Inbound Processing Options Reports.)

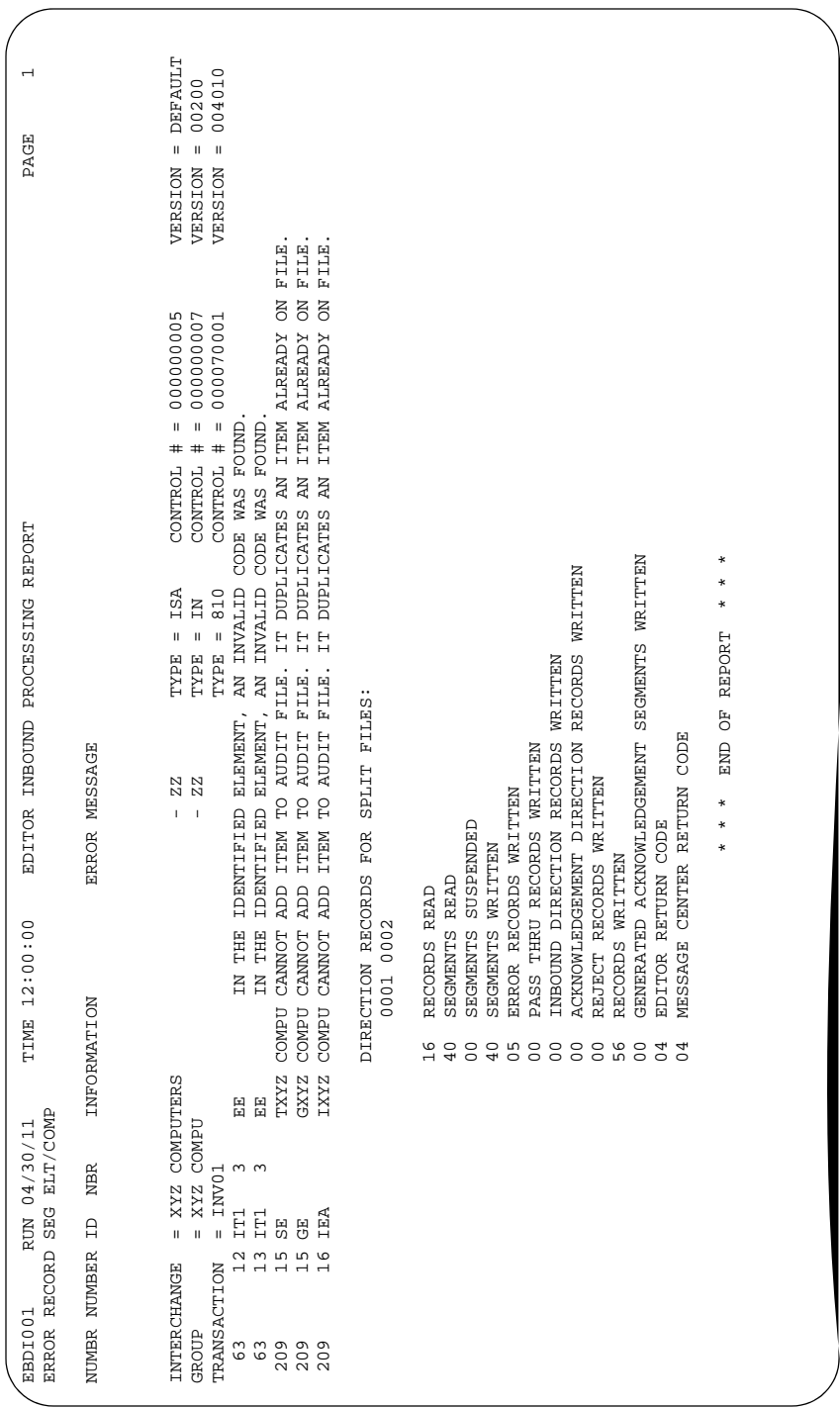


Figure 1.46 Editor Inbound Processing Report (EBDI001)

## Field Descriptions

Field Name	Description
Error Numbr	Error code number associated with the error message
Record Number	Application record number
Seg ID	EDI segment identifier
Ele/Comp Nbr	EDI element/component number
Information	Identifies additional information about the error message
Error Message	Identifies the error message
Audit Indicator	Message line printed when the Detail Report global parameter is set to 'Y' or transaction-level errors occurred. The value printed is the contents of the element flagged as the Audit Indicator in the Standards.
<b>Summary Section</b>	
Direction Records for Split Files	Indicates the (###DIR) internal records written for the split files that data will be written to by the split program
Records Read	The total number of EDI records read (these records are wrapped and compressed)
Segments Read	The total number of actual EDI segments read
Segments Suspended	The total number of segments suspended due to errors (such as failing verification or partner resolution or not finding a version)
Segments Written	The total number of segments written
Error Records Written	The total number of internal error records written to indicate that an error occurred (this count should match the total number of lines on the Editor report that include an error number such as #63, for invalid code found)
Pass Thru Records Written	The total number of internal records written to the output data to be "passed through"
Inbound Direction Records Written	The total number of direction records (###DIR) written to tell the Split program to which split file the data should be written
Acknowledgment Direction Records Written	The number of direction records (###DIR) written for outbound splitting of acknowledgments written (this value should always be "0")
Reject Records Written	The total number of rejection records (###REJ) written to mark error rejection

---

Field Name	Description
Records Written	The total number of EDI records written as output from the Editor (these records are uncompressed, can total more than the total number of segments written if a segment continues on a second record, and include internal records written)
Generated Acknowledgment Segments Written	The total number of segments written for acknowledgments that are passed to EBDI002
Editor Return Code	Return Code for the Editor (the program generates a return code to show the status of how the program ended).  00: No Errors 04: Informational Message 08: Error occurred on an element/segment 12: Error occurred on the document 16: Process Halted
Message Center Return Code	The return code logged in the Message Center database. This prints only if the message center is activated for the PRCTRNIN command. This return code matches the editor return code unless the Batch Error Message File has been altered to show a different severity for this error

## EBDI011A – Errors Encountered Generating Envelopes

### Contents of the Report

The Errors Encountered Generating Envelopes Report contains summary information of the records read in, records suspended, and EDI segments written. If errors were encountered, an entry is printed detailing the error that occurred.

### How to Identify the Report

The program name, EBDI011A, displays in the upper left corner of the report. The report title, “Errors Encountered Generating Envelopes,” is centered at the top of the report. The identifier, “EBDI011A,” also displays in the User Data field associated with the spooled report in the iSeries output queue.

### How to Generate the Report

This is a system generated report which is produced during inbound processing (PRCTRIN) if the Use CNTL for Acknowledgment global parameter is set to ‘Y,’ and acknowledgments were generated. This program is then called to generate the envelopes for the data.

### Special Considerations

Like all other Sterling Gentran:Server reports, the Errors Encountered Generating Envelopes Report automatically goes to the iSeries Output Queue defined for the user running the job. (SEE the “Environment Control” chapter in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide* for instructions to set up a user’s Output Queue.)

```

EBDI011A    RUN 04/30/11    TIME 12:00    ERRORS ENCOUNTERED GENERATING ENVELOPES    PAGE 1
ERROR **RECORD**
NUMBR      NBR      INFORMATION      ERROR MESSAGE
NO ERRORS OCCURRED DURING PROCESSING
PROCESSING ENDED NORMALLY - PROCESSING COUNTS BELOW
                INPUT RECORDS READ -----          9
                INPUT RECORDS SUSPENDED -----         0
                EDI SEGMENTS WRITTEN -----         12
                RETURN CODE FOR GENERATION ----         0

```

Figure 1.47 Errors Encountered Generating Envelopes (EBDI011A)

# EBDI004O – Processing Options Report – Outbound

## Contents of the Report

The Processing Options Report – Outbound contains the settings of the global parameters and outbound processing command parameters at the time the processing job was run. The report is useful for debugging problems with specific processing jobs.

## How to Identify the Report

The name of the Sterling Gentran:Server program that generates this report (EBDI004) and the upper case letter “O” (for outbound) are used together as an identifier, “EBDI004O”, which is printed in the upper left corner of each page. This identifier also displays in the User Data field associated with the spooled report in the Output Queue. The full title, “Process Summary Report – Processing Options for Outbound Data,” is centered at the top of each page. If the EDI Monitor Report global parameter is activated, the abbreviated program name (EBDI4O) displays in the Process Name field on the Work with EDI Monitor panel (EDIX310-FMT01).

## How to Generate the Report

When you run the Process Transactions Outbound (PRCTRNOU) command, the default for Print Parameters Report (PARMS) is set to \*NO. Type \*YES, to *automatically* generate the report.

## Special Considerations

Like all other Sterling Gentran:Server reports, the Processing Options Report automatically goes to the iSeries Output Queue defined for the user running the job. (SEE the “Environment Control” chapter in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide* for instructions to set up a user’s Output Queue.) Unlike other Sterling Gentran:Server reports, Processing reports are automatically copied into the EDI Monitor files (if the EDI Monitor Report global parameter is set to ‘Y’) which allows you to view and print the reports. (Note that the EDI Monitor file does *not* capture the job log. It contains only six reports: the Mapper Outbound and Inbound Processing Reports, the Editor Outbound and Inbound Processing Reports, and optionally, the Outbound and Inbound Processing Options Reports.)

## Field Descriptions

The fields on the first page of the report are the Sterling Gentran:Server global parameters, which are defined in Online Help, and explained in the “Global Parameters” chapter in this guide. The fields on the second page of the report are the fields that display on the Process Transactions Outbound command panel (PRCTRNOU), which are defined in the “Process Outbound Files” section in this chapter.

EBDI0040	RUN 04/30/11	TIME 12:00:00	PAGE 1
PROCESS SUMMARY REPORT			
PROCESSING OPTIONS FOR OUTBOUND DATA			
GLOBAL PARAMETERS:			
Verify Interchange . . . . .			Y
Verify Group . . . . .			Y
Verify Transaction . . . . .			Y
Interchange Version . . . . .			Y
Group Version . . . . .			Y
Version Conversion			
From	To		
Audit Interchange . . . . .			Y
Audit Group . . . . .			Y
Audit Transaction . . . . .			Y
Relationship Mode Auditing . . . . .			N
Error Report . . . . .			N
Detail Report . . . . .			Y
Error Rejection . . . . .			Y
Split Output Files . . . . .			Y
Sub-Split Output Files			
Split by Partner . . . . .			N
ICS Tables . . . . .			N
BG Partner . . . . .			Y
BG Version . . . . .			DEFAULT
GENERATE 999 for . . . . .			
Acknowledge Interchange . . . . .			Y
Acknowledge Group . . . . .			Y
Acknowledge Transaction . . . . .			Y
Acknowledge Error . . . . .			N
Partner Acknowledge . . . . .			N
Use CNTL for Acknowledgments . . . . .			N
Sequential Check Control . . . . .			Y
Sequential Error Control . . . . .			N
Compression Level . . . . .			I
ANSI Subelements . . . . .			Y
EDI Monitor Report . . . . .			Y
Validate Codes . . . . .			Y

Figure 1.48 Processing Options Report – Outbound (EBDI0040) Page 1



```

EBDI0040  RUN 04/30/11      TIME 12:00:00      PROCESS SUMMARY REPORT      PAGE 2
                PROCESSING OPTIONS FOR OUTBOUND DATA

PRCTRNOUT COMMAND PARAMETERS:
Application Data ID . . . . . INVOUTP
Mapper Debug Report . . . . . *NO
Clear Temporary Files . . . . . *YES
Application File Member . . . . . *DEFAULT
Run Interactively . . . . . *NO
Process Name . . . . . PRCTRNOUT
Editor Detail Report . . . . . *GLBPRM
Print Parameters Report . . . . . *YES
Suspend Blank Appl. Partner . . . . . *YES
Comm Profile ID . . . . . *PARTNER

User Exits:
Start . . . . .
End . . . . .
Override Partner for Run:
ID . . . . .
Qualifier . . . . .
Decimal Point . . . . .
Use UCS Numbers For . . . . .
Use 5/4 Numbers For . . . . .
Use 6/3 Numbers For . . . . .
Control Record Pass Thru . . . . . *NO
Collect VAT Data . . . . . *NO
Control/Sender's Ref. Length . . . . . 14
MQ Link . . . . .
Batch ID . . . . .
Schedule Job . . . . . *NO
    
```

Figure 1.49 Processing Options Report – Outbound (EBDI0040) Page 2

---

# EBDI004I – Processing Options Report – Inbound

## Contents of the Report

The Processing Options Report – Inbound contains the settings of the global parameters and inbound processing command parameters at the time the processing job was run. The report is useful for debugging problems with specific processing jobs.

## How to Identify the Report

The name of the Sterling Gentran:Server program that generates this report (EBDI004) and the upper case letter “I” (for inbound) are used together as an identifier, “EBDI004I”, which is printed in the upper left corner of each page. This identifier also displays in the User Data field associated with the spooled report in the Output Queue. The full title “Process Summary Report – Processing Options for Inbound Data,” is centered at the top of each page. If the EDI Monitor Report global parameter is activated, the abbreviated program name (EBDI4I) displays in the Process Name field on the Work with EDI Monitor panel (EDIX310-FMT01).

## How to Generate the Report

When you run the Process Transactions Inbound (PRCTRIN) command, the default for Print Parameters Report (PARMS) is set to \*NO. Type \*YES, to *automatically* generate the report.

## Special Considerations

Like all other Sterling Gentran:Server reports, the Processing Options Report automatically goes to the iSeries Output Queue defined for the user running the job. (SEE the “Environment Control” chapter in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide* for instructions to set up a user’s Output Queue.) Unlike other Sterling Gentran:Server reports, Processing reports are automatically copied into the EDI Monitor files (if the EDI Monitor Report global parameter is set to ‘Y’) which allows you to view and print the reports. (Note that the EDI Monitor file does *not* capture the job log. It contains only six reports: the Mapper Outbound and Inbound Processing Reports, the Editor Outbound and Inbound Processing Reports, and optionally, the Outbound and Inbound Processing Options Reports.)

## Field Descriptions

The fields on the first page of the report are the Sterling Gentran:Server global parameters, which are defined in Online Help, and explained in the “Global Parameters” chapter in this guide. The fields on the second page of the report are the fields that display on the Process Transactions Inbound command panel (PRCTRIN), which are defined in the “Process Inbound Files” section in this chapter.

EBDI004I	RUN 04/30/11	TIME 12:00:00	PROCESS SUMMARY REPORT PROCESSING OPTIONS FOR INBOUND DATA	PAGE 1
GLOBAL PARAMETERS:				
Verify Interchange.				Y
Verify Group.				Y
Verify Transaction.				Y
Interchange Version.				Y
Group Version.				Y
Version Conversion				
From	To			
Audit Interchange				Y
Audit Group				Y
Audit Transaction				Y
Relationship Mode Auditing.				N
Error Report.				N
Detail Report.				Y
Error Rejection				Y
Split Output Files.				Y
Sub-Split Output Files				Y
Split by Partner				N
ICS Tables.				N
BG Partner.				Y
BG Version.				DEFAULT
GENERATE 999 for.				
Acknowledge Interchange				Y
Acknowledge Group				Y
Acknowledge Transaction				Y
Acknowledge Error				N
Partner Acknowledge				N
Use CNTL for Acknowledgments.				N
Overdue Acknowledgments:				
Activate Overdue Acknowledgments				Y
Include Saturdays.				N
Include Sundays.				N
Holidays to Exclude.				N
Sequential Check Control.				Y
Sequential Error Control.				N
Compression Level				I
ANSI Subelements.				Y
EDI Monitor Report.				Y
Validate Codes.				Y

Figure 1.50 Processing Options Report – Inbound (EBDI004I) Page 1

PAGE 2

PROCESS SUMMARY REPORT  
PROCESSING OPTIONS FOR INBOUND DATA

```

EBDI004I  RUN 04/30/11  TIME 12:00:00
PRCTRNIN COMMAND PARAMETERS:
Comm Profile ID (Editor) . . . . . EVAL
Application ID (Mapper) . . . . . SEMPOAPPL
Mapper Debug Report . . . . . *YES
Clear Temporary Files . . . . . *YES
Acknowledgment Reports:
Print Report. . . . . *NO
Split File. . . . . 00000
Sub-Split File. . . . . 00
Application File Member . . . . . FIRST
Replace Data in App. Files . . . . . *YES
Run Interactively . . . . . *NO
Process Name . . . . . PRCTRNIN
Editor Detail Report . . . . . *GLBPRM
Print Parameters Report . . . . . *YES
Generate Acknowledgments . . . . . GLBPRM
First Segment Mandatory . . . . . *NO
Report Empty EDI Input Files?. . . . . *NO
User Exits:
Start . . . . .
End . . . . .
Collect VAT Data . . . . . *NO
Control/Sender's Ref. Length . . . . . 14
MQ Link . . . . .
Batch ID for Processing . . . . .
Batch ID for Acks . . . . .
Schedule Job . . . . . *NO
INS Acknowledgments:
Command Set . . . . . 0
Split File . . . . . 00000
Sub-Split File . . . . . 00
Override Partner Xref Qual . . . . . *NO
Qualifier Value . . . . .
Viewpoint INS Reports:
Command Set . . . . . 0
Split File . . . . . 00000
Sub-Split File . . . . . 00
    
```

Figure 1.51 Processing Options Report – Inbound (EBDI004I) Page 2

## EBDI018 – Received Acknowledgment Report

### Contents of the Report

The Received Acknowledgment Report contains information about the Functional Acknowledgments received from your trading partner(s), including the acceptance, error, and rejection messages. This report includes only those acknowledgments actually received from your trading partner(s). (It does not include reconciliation information.)

The type of interchange received determines the format of the Received Acknowledgment Report. (There is one format for ISA/ICS interchanges and another format for BG/GS interchanges) .

### How to Identify the Report

The name of the Sterling Gentrans:Server program that generates this report (EBDI018) displays on the upper left corner of the report. The identifier “EBDI018” also displays in the User Data field associated with the spooled report in the Output Queue. The title “Sterling Gentrans Acknowledgment Report” is centered at the top of the report.

### How to Generate the Report

When you run the Process Transactions Inbound (PRCTRIN) command, the system calls the programs EBDI017 and EBDI018, which *automatically* generate the Received Acknowledgment Report *if you have met the following conditions*:

- You set the Acknowledgment Report parameter to ‘\*YES’ (on the PRCTRIN command).
- You specified a valid value for the Acknowledgment Split File parameter (on the PRCTRIN command).
- Acknowledgments were received and were present in the split file specified above.

### Special Considerations

Like all other Sterling Gentrans:Server reports, the Received Acknowledgment Report automatically goes to the iSeries Output Queue defined for the user running the job. (SEE the “Environment Control” chapter in the *IBM® Sterling Gentrans:Server® for iSeries® Release 3.6 User Guide* for instructions to set up a user’s Output Queue.) Unlike the inbound and outbound processing and mapping reports, this report is NOT copied into the EDI Monitor file.

```

EBDI018  DATE 04/30/11          Sterling Gentran ACKNOWLEDGEMENT REPORT          TIME 12:00  PAGE 1
SENDER ID: 83044                QUAL: ZZ          RECEIVER ID: 04000          QUAL: ZZ
INTERCHANGE CONTROL NO: 714381525  SENDER NAME: QC TEST PARTNER - DO NOT DELETE !!!
GROUP CONTROL NO: 000007484      FUNCTIONAL ID: AA  INCLUDED SETS: 000002  RECEIVED SETS: 000002  ACCEPTED SETS: 000002
CODE MESSAGE
-----
E  ** GROUP ACCEPTED WITH ERRORS. **
TRANSACTION ID: 824             CONTROL NO: 074840001
CODE MESSAGE
-----
E  ** TRANSACTION ACCEPTED WITH ERRORS. **
SEGMENT ID: OTI                POS: 000007      LOOP ID: OTI
CODE MESSAGE
-----
** NO SYNTAX ERROR CODE SPECIFIED ON AK3 SEGMENT **
ELEMENTS:
POS  REF  CODE  DATA
-----
06  0029  4
MESSAGE
** CODE NOT FOUND ON STANDARD CODE FILE **
SEGMENT ID: TED                POS: 000013      LOOP ID: TED
CODE MESSAGE
-----
** NO SYNTAX ERROR CODE SPECIFIED ON AK3 SEGMENT **

```

Figure 1.52 Received Acknowledgment Report (ISA/ICS Interchanges)

## Field Descriptions for ISA/ICS Interchanges

Field Name	Description
Sender ID	The sender identifier from the interchange record
Qual	The qualifier code associated with the Sender ID
Receiver ID	The receiver identifier from the interchange record
Qual	The qualifier code associated with the Receiver ID
INTERCHANGE ACKNOWLEDGMENTS	
Field Name	Description
Interchange Control No	The interchange control sequence number found on the interchange record
Sender Name	The name of the sender from the Partner file
Code	The error code of the interchange. (This information is extracted from the interchange acknowledgment. The Code field's values are defined in the standards manual)
Message	A text description of the error code, from the standard element and code files
GROUP ACKNOWLEDGMENTS	
Field Name	Description
Group Control No	The group control number from the group envelope
Functional ID	The functional group identifier
Included Sets	The total number of transaction sets included in the group
Received Sets	The total number of transaction sets received
Accepted Sets	The total number of transaction sets accepted
Code	The error code of the group. This information is extracted from the interchange acknowledgment and its values are defined in the standards manual
Message	A text description of the error code, from the standard element and code files

<b>TRANSACTION ACKNOWLEDGMENTS</b>	
<b>Field Name</b>	<b>Description</b>
Transaction ID	This field used to specify the transaction identifier
Control No	This field identifies the control number from the transaction envelope
Code	This field identifies the error code of the transaction. This information is extracted from the interchange acknowledgment and its values are defined in the standards manual
Message	This field displays a text description of the error code, from the standard element and code files
<b>SEGMENTS</b>	
<b>Field Name</b>	<b>Description</b>
Segment ID	This field used to specify the segment identifier
Pos	This field identifies the location of the segment in the transaction
Loop ID	This field displays the loop identifier
Code	This field identifies the error code of the segment. This information is extracted from the interchange acknowledgment and its values are defined in the standards manual
Message	This field displays a text description of the error code, from the standard element and code files
<b>ELEMENTS</b>	
<b>Field Name</b>	<b>Description</b>
Pos	Location of the element in the segment
Ref	Dictionary reference number.(This value is extracted from the interchange acknowledgment.)
Code	Identifies the error code of the element. This information is extracted from the interchange acknowledgment and its values are defined in the standards manual
Data	Actual data in the field that caused the error
Message	Text description of the error code, from the standard element and code files



```

EBDI018  DATE 04/30/11          Sterling Gentran ACKNOWLEDGEMENT REPORT          TIME 12:00  PAGE 1
SENDER ID: YFSY
SENDER NAME:
QUAL:
RECEIVER ID: 8034390221
QUAL:
GROUP CONTROL NO: 000000524  FUNCTIONAL ID: SM  INCLUDED SETS: 000036  RECEIVED SETS: 000036  ACCEPTED SETS: 000036
CODE MESSAGE
-----
E ** GROUP ACCEPTED WITH ERRORS. **
TRANSACTION ID: 204  CONTROL NO: 005240001
CODE MESSAGE
-----
A ** TRANSACTION ACCEPTED. **
TRANSACTION ID: 204  CONTROL NO: 005240002
CODE MESSAGE
-----
A ** TRANSACTION ACCEPTED. **
TRANSACTION ID: 204  CONTROL NO: 005240003
CODE MESSAGE
-----
A ** TRANSACTION ACCEPTED. **
TRANSACTION ID: 204  CONTROL NO: 005240004
CODE MESSAGE
-----
A ** TRANSACTION ACCEPTED. **

```

Figure 1.53 Received Acknowledgment Report (BG/GS Interchanges)

## Field Descriptions for BG/GS Interchanges

Field Name	Description
Sender ID	This field displays the sender identifier from the interchange record
Qual	This field identifies the qualifier code associated with the Sender ID
Receiver ID	Receiver identifier from the interchange record
Qual	Qualifier code associated with the Receiver ID
Interchange Control No	This field designates the interchange control sequence number found on the interchange record
Sender Name	Indicates the name of the sender from the Partner file
Group Control No	Designates the group control number from the group envelope
Received Sets	This field identifies the total number of transaction sets received
Accepted Sets	This field identifies the total number of transaction sets accepted
SEGMENT/ELEMENT	
Field Name	Description
Seg/Pos	The Seg field displays the segment identifier. It is followed by a slash (/) and the Pos field, which identifies the position of the element in the segment
Reject Set Identifier	The reject set identifier which is taken from the “A1” segment record
Code	Identifies the error code of the group. This code is used to read the dictionary file to extract the corresponding message
Data	Displays the actual data in the field that caused the error
Message	Text description of the error code, from the dictionary file

# EDIFACT Sender of Invoice Data Interchange – File Control Report

## Contents of the Report

The EDIFACT Sender of Invoice Data Interchange – File Control Report contains information for EDIFACT Value Added Tax (VAT) invoicing purposes. The Sender of Invoice Data Interchange report displays data that was sent to a trading partner, using just the information that was sent in the TAXCON transaction. When entering information to create this report, enter the name of the trading partner to whom you have sent information. This name is in the Receiver ID element of the UNB segment.

## How to Identify the Report

The title “Sender of Invoice Data Interchange – File Control Report” is centered at the top of the report, and to distinguish it from the Tradacoms version of this report, the label “EDIFACT” is printed in the upper left corner.

## How to Generate the Report

Select option ‘10’ (Print VAT Reports) on the GENPRC menu and enter information as necessary, then press **Enter** to generate the report.



### NOTE

The Collect VAT Data? flag must be set to ‘\*YES’ on the PRCTRNOU command in order to generate the VAT data.

A sample of the report is shown in the following figure.

TRANSMISSION DATE	IDENTIFICATION GEN NO - VER NO	VAT CODES	VAT RATES	INVOICES (VAT EXCL)	VAT	INVOICES (VAT INC)
04/30/11	11111	CAT	123.5670	12345.678	12345.678	24691.356
04/30/11	11111	OND	999.8880	11122.333	11122.333	22244.666
1 INVOICES						

Figure 1.54 EDIFACT Sender of Invoice Data Interchange – File Control Report

**Field Sources**

<b>Field Name</b>	<b>Source</b>
Location Identity (From)	UNB, Composite S002, element 0004, Sender ID
Location Identity (To)	UNB, Composite S003, element 0010, Recipient ID
Legal Name (From)	TAXCON, Group 1, NAD, Composite C058 or Composite C080/C059
Legal Name (To)	TAXCON, Group 1, NAD, Composite C058 or Composite C080/C059
Address Lines 1-4 (From)	TAXCON, Group 1, NAD, Composite C058 or Composite C080/C059
Address Lines 1-4 (To)	TAXCON, Group 1, NAL, Composite C058 or Composite C080/C059
VAT Registration No	TAXCON, Group 1, RFF, Composite C274, element 1154
Transmission Date	UNB, Composite S004, element 0017
Transmission Time	UNB, Composite S004, elements 0017, 0019
Identification Gen No	UNB, element 0020, Interchange Control Reference
Identification Ver No	TAXCON, first occurrence of RFF (preceding Group 1)
VAT Codes	TAXCON TXS, elements 5305, 5279 *Revised
VAT Rates:	TAXCON TXS, elements 5305, 5279 *Revised
Invoices (VAT Excl) for VAT Rate 1	TAXCON, TXS, element 5338
VAT for VAT Rate 1	TAXCON, TXS, element 5492
Invoices (VAT Inc) for VAT Rate 1	Sum of previous two fields – not essential for Customs
Invoices (VAT Excl) for VAT Rate 2	TAXCON, TXS, element 5338
VAT for VAT Rate 2	TAXCON, TXS, element 5492
Invoices (VAT Inc) for VAT Rate 2	Sum of previous two fields – not essential for Customs
Invoices (VAT Excl) for VAT Rate 3	TAXCON, TXS, element 5338
VAT for VAT Rate 3	TAXCON, TXS, element 5492
Invoices (VAT Inc) for VAT Rate 3	Sum of previous two fields – not essential for Customs
Invoices	TAXCON, DCT, element 0060 (DCT is in 90.1 directory – will change to DOC under QC directory)

# EDIFACT Receiver of Invoice Data Interchange – File Control Report

## Contents of the Report

The EDIFACT Receiver of Invoice Data Interchange – File Control Report contains information for EDIFACT Value Added Tax (VAT) invoicing purposes. The Receiver of Invoice Data Interchange report displays data that was received from a trading partner, using information in the INVOIC and TAXCON transactions. This report is divided into two parts: Control Data and File Data. Control Data displays information in the TAXCON transaction, and File Data displays information in the INVOIC transaction. When entering information to print this report, enter the name of the trading partner that sent you the information. This name is in the Sender ID element of the UNB segment received.

## How to Identify the Report

The title “Receiver of Invoice Data Interchange – File Control Report” is centered at the top of each page. To distinguish it from the Tradacoms version of this report, the label “EDIFACT” is printed in the upper left corner of each page.

## How to Generate the Report

Select option ‘10’ (Print VAT Reports) on the GENPRC menu and enter information as necessary, then press **Enter** to generate the report.



---

**NOTE**

The Collect VAT Data? flag must be set to ‘\*YES’ on the PRCTRNIN command in order to generate the VAT data.

---

A sample of the report is shown below.

EDIFACT	<u>RECEIVER OF INVOICE DATA INTERCHANGE - FILE CONTROL REPORT</u>				<u>DATE: 04/30/11</u>		
	FROM:		TO:				
LOCATION IDENTITY:	EDIVAT		EDIVAT				
LEGAL NAME:	TPCOMPANY		MYCOMPANY				
ADDRESS:	123 MAIN ST ANYTOWN, OH 12345-6000		4600 LAKEHURST CT COLUMBUS, OH 43016-2000				
VAT REGISTRATION NO:	897654321		TRANSMISSION DATE: 04/30/11				
INTERCHANGE MEDIUM:	DIRECT TRANSMISSION		TRANSMISSION TIME: 12:00				
CONTROL DATA:							
TRANSMISSION DATE	IDENTIFICATION GEN NO - VER NO		VAT CODES	VAT RATES	INVOICES (VAT EXCL)	VAT	INVOICES (VAT INC)
04/30/11	11111		CAT	123.5670	12345.678	12345.678	24691.356
04/30/11	11111		OND	999.8880	11122.333	11122.333	22244.666
1 INVOICES							
FILE DATA:							
			VAT CODES	VAT RATES	INVOICES (VAT EXCL)	VAT	INVOICES (VAT INC)
			CAT	123.5670	12345.678	12345.678	24691.356
			OND	999.8880	11122.333	11122.333	22244.666
1 INVOICES							

Figure 1.55 EDIFACT Receiver of Invoice Data Interchange – File Control Report

**Field Sources**

Field Name	Source
Location Identity (From)	UNB, Composite S002, element 0004, Sender ID
Location Identity (To)	UNB, Composite S003, element 0010, Recipient ID
Legal Name (From)	TAXCON, Group 1, NAD, Composite C058 or Composite C080/C059
Legal Name (To)	TAXCON, Group 1, NAD, Composite C058 or Composite C080/C059
Address Lines 1-4 (From)	TAXCON, Group 1, NAD, Composite C058 or Composite C080/C059

Field Name	Source
Address Lines 1-4 (To)	TAXCON, Group 1, NAL, Composite C058 or Composite C080/C059
VAT Registration No	TAXCON, Group 1, RFF, Composite C274, element 1154
Transmission Date	UNB, Composite S004, element 0017
Transmission Time	UNB, Composite S004, elements 0017, 0019
Identification Gen No	UNB, element 0020, Interchange Control Reference
Identification Ver No	TAXCON, first occurrence of RFF (preceding Group 1)
VAT Codes	TAXCON TXS, elements 5305, 5279 *Revised
VAT Rates:	TAXCON TXS, elements 5305, 5279 *Revised
Invoices (VAT Excl) for VAT Rate 1	TAXCON, TXS, element 5338
VAT for VAT Rate 1	TAXCON, TXS, element 5492
Invoices (VAT Inc) for VAT Rate 1	Sum of previous two fields – not essential for Customs purposes
Invoices (VAT Excl) for VAT Rate 2	TAXCON, TXS, element 5338
VAT for VAT Rate 2	TAXCON, TXS, element 5492
Invoices (VAT Inc) for VAT Rate 2	Sum of previous two fields – not essential for Customs purposes
Invoices (VAT Excl) for VAT Rate 3	TAXCON, TXS, element 5338
VAT for VAT Rate 3	TAXCON, TXS, element 5492
Invoices (VAT Inc) for VAT Rate 3	Sum of previous two fields – not essential for Customs purposes
Invoices	TAXCON, DCT, element 0060 (DCT is in 90.1 directory – will change to DOC under QC directory)
VAT Codes	INVOIC TXS, elements 5305, 5279 *Revised
VAT Rates	INVOIC TXS, elements 5305, 5279 *Revised
Invoices (VAT Excl) for VAT Rate 1	Calculated by the Receiver, using the sum of TXS, element 5338 within each invoice message
VAT for VAT Rate 1	Calculated by the Receiver, using the sum of TXS, element 5492 within each invoice message

Field Name	Source
Invoices (VAT Inc) for VAT Rate 1	Sum of previous two fields – not essential for Customs purposes
Invoices (VAT Excl) for VAT Rate 2	Calculated by the Receiver, using the sum of TXS, element 5338 within each invoice message
VAT for VAT Rate 2	Calculated by the Receiver, using the sum of TXS, element 5492 within each invoice message
Invoices (VAT Inc) for VAT Rate 2	Sum of previous two fields – not essential for Customs purposes
Invoices (VAT Excl) for VAT Rate 3	Calculated by the Receiver, using the sum of TXS, element 5338 within each invoice message
VAT for VAT Rate 3	Calculated by the Receiver, using the sum of TXS, element 5492 within each invoice message
Invoices (VAT Inc) for VAT Rate 3	Sum of previous two fields – not essential for Customs purposes
Invoices	Count of number of documents on file. A count of the number of Invoice UNH, Element 0062 occurrences on file – should equal the number recorded against the last invoice UNH/0062 on file and the total number recorded in TAXCON, Group 2, DCT segment



# Tradacoms Sender of Invoice Data Exchange – File Control Report

## Contents of the Report

The Tradacoms Sender of Invoice Data Exchange – File Control Report contains information for Tradacoms Value Added Tax (VAT) invoicing purposes. The Sender of Invoice Data Interchange report displays data that was sent to a trading partner, using the information that was sent in either the INVFIL, INVOIC, VATTLTR, INVLTR messages (invoice), or the CREHDR, CREDIT, VATTLR, and CRETLLR messages (credit notes). When entering information to create this report, enter the name of the trading partner to whom you have sent information. This name is in the Recipient’s Identification element of the STX segment.

## How to Identify the Report

The report identifier, “Tradacoms Report No. ANA001”, displays in the upper left corner of each page. The title “Sender of Invoice Data Interchange – File Control Report” is centered at the top of each page.

## How to Generate the Report

Select option ‘10’ (Print VAT Reports) on the GENPRC menu and enter information as necessary, then press **Enter** to generate the report.



### NOTE

The Collect VAT Data? flag must be set to \*YES on the PRCTRNOU command in order to generate the VAT data.

A sample of the report is shown below.

TRADACOMS REPORT NO. ANA001		SENDER OF INVOICE DATA EXCHANGE – FILE CONTROL REPORT				DATE 04/30/11	PAGE 1	
FROM:		TO:						
ANA IDENTITY/LOCATION	SUP LOC	CUSTCOD						
LEGAL NAME	TPCOMPANY	MYCOMPANY						
ADDRESS	123 MAIN ST ANYTOWN, OH 12345-6000	4600 LAKEHURST CT COLUMBUS, OH 43016-2000						
VAT REGISTRATION NO	897654321							
INTERCHANGE MEDIUM	DIRECT TRANSMISSION	TRANSMISSION DATE: 04/30/11 TRANSMISSION TIME: 12:00						
FILE DETAILS AND CONTROL TOTALS								
Invoice End Date	Delivery End Date	Generation Number	Version Number	VAT Code	VAT Rate	Invoices Cost (before VAT)	Total VAT	Invoices Cost (inc VAT)
04/30/11	04/30/11	123	456	X D	0.123 0.987	0.47 0.57	3.69 3.57	11.21 9.75
FILE TOTALS ( 123 INVOICES				4 MESSAGES)				

Figure 1.56 Tradacoms Sender of Invoice Data Interchange – File Control Report

## Field Sources

Field Name	Source
<b>INVOICE data for Sender Report</b>	
ANA Identity/Location (from)	INVFIL, SDT, element SID0
ANA Identity/Location (to)	INVFIL, CDT, element CID0
Legal Name (from)	INVFIL, SDT, element SNAM
Legal Name (to)	INVFIL, CDT, element CNAM
Address lines 1 – 5 (from)	INVFIL, SDT, elements SAD0 – SAD4
Address lines 1 – 5 (to)	INVFIL, CDT, elements CAD0 – CAD4
VAT Registration Code	INVFIL, STD, element VAT0
Transmission Date	STX, TRDT (9817)
Transmission Time	STX, TRDT (9956)
Invoice End Date	INVFIL, FDT, element IVED
Delivery End Date	INVFIL, FDT, element DVED
Generation Number	INVFIL, FIL, element FLGN
Version Number	INVFIL, FIL, element FLVN
VAT Code	INVFIL, VRS, element VATC
VAT Rate	INVFIL, VRS, element VATP
Invoice Cost (before VAT)	INVFIL, VRS, element VSDI
Total VAT	INVFIL, VRS, element VVAT
Invoice Cost (inc VAT)	INVFIL, VRS, element VPSI
File Totals – Invoices	TOT, element FTNI
File Totals – Messages	END, element NMST
<b>CREDIT NOTE data for Sender Report</b>	
ANA Identity/Location (from)	CREHDR, SDT, element SID0
ANA Identity/Location (to)	CREHDR, CDT, element CID0
Legal Name (from)	CREHDR, SDT, element SNAM
Legal Name (to)	CREHDR, CDT, element CNAM

Field Name	Source
Address lines 1 -5 (from)	CREHDR, SDT, elements SAD0 – SAD4
Address lines 1 – 5 (to)	CREHDR, CDT, elements CAD0 – CAD4
VAT Registration Code	CREHDR, STD, element VAT0
Transmission Date	STX, TRDT (9817)
Transmission Time	STX, TRDT (9956)
Invoice End Date	not available in CREHDR
Delivery End Date	not available in CREHDR
Generation Number	CREHDR, FIL, element FLGN
Version Number	CREHDR, FIL, element FLVN
VAT Code	CREHDR, VRS, element VATC
VAT Rate	CREHDR, VRS, element VATP
Invoice Cost (before VAT)	CREHDR, VRS, element VSDI
Total VAT	CREHDR, VRS, element VVAT
Invoice Cost (inc VAT)	CREHDR, VRS, element VPSI
File Totals – Invoices	TOT, element FTNI
File Totals – Messages	END, element NMST

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# Tradacoms Receiver of Invoice Data Exchange – File Control Report

## Contents of the Report

The Tradacoms Receiver of Invoice Data Exchange – File Control Report contains information for Tradacoms Value Added Tax (VAT) invoicing purposes. The Receiver of Invoice Data Exchange report displays data that was received from a trading partner, using information sent in either the INVFIL, INVOIC, VATTLR, INVTLR messages (invoice), or the CREHDR, CREDIT, VATTLR, and CRETLLR messages (credit notes). When entering information to create this report, enter the name of the trading partner that sent you the information. This name is in the Sender's Identification element of the STX segment.

## How to Identify the Report

The report identifier, "Tradacoms Report No. ANA001", displays in the upper left corner of each page. The title, "Receiver of Invoice Data Interchange – File Control Report," is centered at the top of each page.

## How to Generate the Report

Select option '10' (Print VAT Reports) on the GENPRC menu and enter information as necessary, then press **Enter** to generate the report.



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**NOTE**

The Collect VAT Data? flag must be set to '\*YES' on the PRCTRIN command in order to generate the VAT data.

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A sample of the report is shown below.

TRADACOMS REPORT NO. ANA001		RECEIVER OF INVOICE DATA EXCHANGE - FILE CONTROL REPORT			DATE: 04/30/2011		
FROM:		TO:					
ANA IDENTITY/LOCATION	SUP LOC	CUSTCOD					
LEGAL NAME	TPCOMPANY	MYCOMPANY					
ADDRESS	123 MAIN ST ANYTOWN, OH 12345-6000	4600 LAKEHURST CT COLUMBUS, OH 43016-2000					
VAT REGISTRATION NO	897654321						
INTERCHANGE MEDIUM	DIRECT TRANSMISSION	TRANSMISSION DATE: 04/30/11					
		TRANSMISSION TIME: 15:34					
CONTROL DATA:							
Transmission Date	Identification Gen No.	Identification Version No.	VAT Code	VAT Rate	Invoices Cost (before VAT)	Total VAT	Invoices Cost (inc VAT)
06/22/1999	0123	0456	X	0.123	3.69	11.21	15.18
			D	0.987	3.57	9.75	4.53
FILE TOTALS ( 1 INVOICES			4 MESSAGES)				
FILE DATA:							
Invoice End Date	Delivery End Date		VAT Code	VAT Rate	Invoices Cost (before VAT)	Total VAT	Invoices Cost (inc VAT)
04/30/11	04/30/11		A	3.210	15.18	9.52	18.58
			B	3.420	2.46	35.67	56.78
FILE TOTALS ( 1 INVOICES			4 MESSAGES)				

Figure 1.57 Receiver of Invoice Data Interchange – File Control Report

**Field Sources**

Field Name	Source
<b>INVOICE data for Receiver Report</b>	
ANA Identity/Location (from)	INVFIL, SDT, element SID0
ANA Identity/Location (to)	INVFIL, CDT, element CID0
Legal Name (from)	INVFIL, SDT, element SNAM
Legal Name (to)	INVFIL, CDT, element CNAM
Address lines 1 – 5 (from)	INVFIL, SDT, elements SAD0 – SAD4
Address lines 1 – 5 (to)	INVFIL, CDT, elements CAD0 – CAD4
VAT Registration Code	INVFIL, STD, element VAT0
Transmission Date	STX, TRDT (9817)
CONTROL DATA:	

Field Name	Source
Invoice End Date	STX TRDT (9817)
Generation Number	INVFIL, FIL, element FLGN
Version Number	INVFIL, FIL, element FLVN
VAT Code	INVFIL, VRS, element VATC
VAT Rate	INVFIL, VRS, element VATP
Invoice Cost (before VAT)	INVFIL, VRS, element VSDI
Total VAT	INVFIL, VRS, element VVAT
Invoice Cost (inc VAT)	INVFIL, VRS, element VPSI
File Totals – Invoices	TOT, element FTNI
File Totals – Messages	END, element NMST
<b>FILE DATA:</b>	
Invoice End Date	INVFIL FDT, element IVED
Delivery End Date	INVFIL FDT, element DVED
VAT Code	INVOIC, STL, element VATC
VAT Rate	INVOIC, STL, element VATP
Invoice Cost (before VAT)	INVOIC, STL, element ASDA
Total VAT	INVOIC, STL, element VATA
Invoice Cost (inc VAT)	INVFIL, VRS, element APSI
File Totals – Invoices	TOT, element FTNI
File Totals – Messages	END, element NMST
<b>CREDIT NOTE data for Receiver Report</b>	
ANA Identity/Location (from)	CREHDR, SDT, element SID0
ANA Identity/Location (to)	CREHDR, CDT, element CID0
Legal Name (from)	CREHDR, SDT, element SNAM
Legal Name (to)	CREHDR, CDT, element CNAM
Address lines 1 – 5 (from)	CREHDR, SDT, elements SAD0 – SAD4
Address lines 1 – 5 (to)	CREHDR, CDT, elements CAD0 – CAD4

Field Name	Source
VAT Registration Code	CREHDR, STD, element VAT0
Transmission Date	STX, TRDT (9817)
CONTROL DATA:	
Invoice End Date	STX, TRDT (9817)
Generation Number	CREHDR, FIL, element FLGN
Version Number	CREHDR, FIL, element FLVN
VAT Code	CREHDR, VRS, element VATC
VAT Rate	CREHDR, VRS, element VATP
Invoice Cost (before VAT)	CREHDR, VRS, element VSDI
Total VAT	CREHDR, VRS, element VVAT
Invoice Cost (inc VAT)	CREHDR, VRS, element VPSI
File Totals – Invoices	TOT, element FTNI
File Totals – Messages	END, element NMST
FILE DATA:	
Invoice End Date	FDT does not exist in credit notes
Delivery End Date	FDT does not exist in credit notes
VAT Code	CREDIT, CST, element VATC
VAT Rate	INVOIC, CST, element VATP
Invoice Cost (before VAT)	INVOIC, CST, element EVLA
Total VAT	INVOIC, CST, element VATA
Invoice Cost (inc VAT)	INVFIL, CST, element APSI
File Totals – Invoices	TOT, element FTNI
File Totals – Messages	END, element NMST

## Tradacoms Cross Reference Reports

### Contents of the Reports

There are two Tradacoms Cross Reference Reports: the Receiver of Invoice Data Exchange Report, and the Sender of Invoice Data Exchange Report.

Both reports are lists of invoices associated with each transaction. They are used as part of the Tradacoms VAT auditing process. The same VAT database records are used to create these reports as well as other Tradacoms VAT reports. When entering information to create the Receiver report, enter the name of a trading partner, or range of partners, who sent you data. To create the Sender report, enter the name of a trading partner to whom you sent data.

### How to Identify the Report

The report identifier, "Tradacoms Report No. ANA002," displays in the upper left corner of the report.

### How to Generate the Report

Select option '10' (Print VAT Reports) on the GENPRC menu and enter information as necessary, then press **Enter** to generate the report. A sample Receiver report is shown below.

TRADACOMS REPORT NO. ANA002	RECEIVER OF INVOICE DATA EXCHANGE - FILE CONTROL REPORT	DATE: 04/30/11
	FROM:	TO:
ANA IDENTITY/LOCATION	SUP LOC	CUSTCOD
LEGAL NAME	TPCOMPANY	MYCOMPANY
ADDRESS	123 MAIN ST	4600 LAKEHURST CT
	ANYTOWN, OH	COLUMBUS, OH
	12345-6000	43016-2000
TRANSMISSION FILE ID	GENERATION NUMBER 123	VERSION NUMBER 456
INVOICE NUMBERS		
3333		

Figure 1.58 Receiver of Invoice Data Exchange – Tradacoms Cross Reference Report



### Fields on the Tradacoms Sender/Receiver Cross Reference Reports

Field Name	Source
<b>INVOICE data</b>	
ANA Identity/Location (from)	INVFIL, SDT, element SID0
ANA Identity/Location (to)	INVFIL, CDT, element CID0
Legal Name (from)	INVFIL, SDT, element SNAM
Legal Name (to)	INVFIL, CDT, element CNAM
Address lines 1 – 5 (from)	INVFIL, SDT, elements SAD0 – SAD4
Address lines 1 – 5 (to)	INVFIL, CDT, elements CAD0 – CAD4
Generation Number	INVFIL, FIL, element FLGN
Version Number	INVFIL, FIL, element FLVN
Invoice Numbers	INVOIC, IRF, element INVN
<b>CREDIT NOTE data</b>	
ANA Identity/Location (from)	CREHDR, SDT, element SID0
ANA Identity/Location (to)	CREHDR, CDT, element CID0
Legal Name (from)	CREHDR, SDT, element SNAM
Legal Name (to)	CREHDR, CDT, element CNAM
Address lines 1 – 5 (from)	CREHDR, SDT, elements SAD0 – SAD4
Address lines 1 – 5 (to)	CREHDR, CDT, elements CAD0 – CAD4
Generation Number	CREHDR, FIL, element FLGN
Version Number	CREHDR, FIL, element FLVN
Invoice Numbers	CREDIT, IRF, element INVN

# Common Questions

## What Files and Programs Do Inbound and Outbound Processing Use?

The following tables show the programs and files that inbound and outbound processing use.

<b>EDBI001, EBDI007 – Inbound Editor</b>		
GT00TBP	Standards Table File	Input
GT00EMP	Error Message File	Input
GLBPRM	Global Parameters File	Input
INBCTL	Inbound Queue Control File	Input/Output
INBDTA	Inbound Queue Data File	Input
GT15IAP	Edited EDI Data File	Input/Output
GT01SAP	Suspense File	Output
GT01FAP	Functional Acknowledgment File	Output
GT00PRL	Partner File	Input
PARXREF	Partner Cross Reference File	Input
MONCTL	Monitor Control File	Input/Output
MONDTL	Monitor Detail File	Input/Output
MSGDTLL1	Message Center Detail File	Input/Output
AUDREC	Audit File	Input/Output
GTVATIN	VAT temporary work file	Output
SYSCFG	System Configuration File	Input
ENVHDRL1	Environment Control Header File	Input
TRKDCNL1	Tracking Document History Control File	Input/Output
TRKMCNL4	Tracking Master Control File	Input
TRKMERL1	Tracking Master Error File	Input
TRKMSFL1	Tracking Master Selection Field File	Input
TRKPERL1	Tracking Program Error	Input/Output

TRKPHSL1	Tracking Program History File	Input/Output
TRKPHSL2	Tracking Program History File	Input/Output
TRKPHSL5	Tracking Program History File	Input/Output
TRKCON	Tracking Control Number File	Input/Output
EDIBIN	EDI Control file for binary data processing	Output

<b>EDBI011A – Envelopes – Functional Acknowledgments Using Partner File</b>		
GT01FAP	Input Functional Acknowledgment File	Input
SYSCFG	System Configuration File	Input
ENVHDRL1	Environment Control Header File	Input
GT00EMP	Error Message File	Input
GLBPRM	Global Parameters File	Input
PARXREF	Partner Cross Reference File	Input
GT00PRL	Partner File	Input/Output
GT01SAP	Suspense File	Output
GT11CPP	Envelope Control Parameters File	Input
MSGDTLL1	Message Center Detail File	Input/Output
GT02FAP	Output Functional Acknowledgment File	Output

<b>EDBI021 – Create \$\$ADD for Functional Acknowledgments</b>		
GT01FAP	Functional Acknowledgment File	Input
GT02FAP	Output Functional Acknowledgment File	Output
GT00PRL	Partner File	Input
PARXREF	Partner Cross Reference	Input

<b>EBDI002, EBDI007 – Outbound Editor (Functional Acknowledgments)</b>		
GT00TBP	Standards Table File	Input
GT00EMP	Error Message File	Input
GLBPRM	Global Parameters File	Input
GT11OAP	Input EDI File	Input
COMPRF	Communication Profile	Input/Output
OUTCTL	Outbound Queue Control File	Input/Output
OUTDTA	Outbound Queue Data File	Input/Output
GT02SAP	Suspense File	Output
GT00PRL	Partner File	Input
PARXREF	Partner Cross Reference File	Input
MONTCTL	Monitor Control File	Input/Output
MONTDTL	Monitor Detail File	Input/Output
AUDREC	Audit File	Input/Output
SYSCFG	System Configuration File	Input
GT02OAPINS	Temporary Output File for INS Data	Output
SAPSTSOL1	Outbound SAP System Parameter File	Input/Output
SAPSYS	SAP System Parameter File	Input
ENVHDRL1	Environment Control Header File	Input
TRKDCNL1	Tracking Document History Control File	Input/Output
TRKMCNL4	Tracking Master Control File	Input
TRKMERL1	Tracking Master Error File	Input
TRKMSFL1	Tracking Master Selection Field File	Input
TRKPERL1	Tracking Program Error	Input/Output
TRKPHSL1	Tracking Program History File	Input/Output
TRKPHSL2	Tracking Program History File	Input/Output
TRKPHSL5	Tracking Program History File	Input/Output

<b>EBDI002, EBDI007 – Outbound Editor (Functional Acknowledgments)</b>		
TRKCON	Tracking Control Number File	Input/Output
MSGDTLL1	Message Center Detail File	Input/Output

<b>EBDI015 – Inbound Splitting</b>		
GT1500	Slide File	Extend
GT1501-GT1580	Output EDI Split Files	Extend
GT15IAP	Input EDI Data File	Input
GT15WAP	Header and Direction Records Store File	Input/Output
GT15CPP	Parameter File	Input
GT00EMP	Error Message File	Input
GT15RJP	Reject File	Extend
SPLTB1J1	Sub-Split Control File	Input
MONTCTL	Monitor Control File	Input/Output
MONTDTL	Monitor Detail File	Input/Output
GLBPRM	Global Parameters File	Input
SYSCFG	System Configuration File	Input
MSGDTLL1	Message Center Detail File	Input/Output

<b>EBDI041, EBDI043, EBDI044 – Inbound Mapping</b>		
GT00EMP	Error Message File	Input
GT00PRL	Partner File	Input
PARXREF	Partner Cross Reference File	Input
CDECDE	Code Translation File	Input
CDEVAL	Code Validation File	Input
CDEDTAL	Data Translation File	Input
GT1500	Input EDI File	Input

<b>EBDI041, EBDI043, EBDI044 – Inbound Mapping</b>		
GT41RJP	Reject File	Output
GT41O01-GT41O33	Default Application Files (User Files)	Output
MONCTL	Monitor Control File	Input/Output
MONDTL	Monitor Detail File	Input/Output
MSGDTLL1	Message Center Detail File	Input/Output
GT43CPP	Parameter File	Input
APPHDR	Application Definition Header File	Input
APPRCT	Application Definition Record File	Input
APPFLD	Application Definition Field File	Input
APPTLR	Application Transaction Link File	Input
TRNHDR	Transaction Header File	Input
TRNSEG	Transaction Segment File	Input
TRNELE	Transaction Element File	Input
SYSCFG	System Configuration File	Input
GLBPRM	Global Parameter File	Input
ENVHDRL1	Environment Control Header File	Input
TRKDCNL1	Tracking Document History Control File	Input/Output
TRKMCNL4	Tracking Master Control File	Input
TRKMERL1	Tracking Master Error File	Input
TRKMSFL1	Tracking Master Selection Field File	Input
TRKPERL1	Tracking Program Error	Input/Output
TRKPHSL1	Tracking Program History File	Input/Output
TRKPHSL2	Tracking Program History File	Input/Output
TRKPHSL5	Tracking Program History File	Input/Output
TRKCON	Tracking Control Number File	Input/Output

Figure 1.59 Inbound processing programs and the files they use

<b>EBDI042, EBDI043, EBDI044 – Outbound Mapping</b>		
GT00EMP	Error Message File	Input
GT00PRL	Partner File	Input/Output
PARXREF	Partner Cross Reference File	Input
CDECDEL	Logical Code Translation File	Input
CDEVAL	Code Validation File	Input
CDEDTA	Data Translation File	Input
GT42AP	Application Data File	Input
GT42APL	Logical Application Data File	Input
GT88IAP	Output EDI File	Extend
GT42REJ	Reject File	Output
MONCTL	Monitor Control File	Input/Output
MONDTL	Monitor Detail File	Input/Output
GT43CPP	Parameter File	Input
APPHDR	Application Definition Header File	Input
APPRCT	Application Definition Record File	Input
APPFLD	Application Definition Field File	Input
APPTLR	Application Transaction Link File	Input
TRNHDR	Transaction Header File	Input
TRNSEG	Transaction Segment File	Input
TRNELE	Transaction Element File	Input
SYSCFG	System Configuration File	Input
GLBPRM	Global Parameter File	Input
ENVHDRL1	Environment Control Header File	Input
TRKDCNL1	Tracking Document History Control File	Input/Output
TRKMCNL4	Tracking Master Control File	Input
TRKMERL1	Tracking Master Error File	Input

<b>EBDI042, EBDI043, EBDI044 – Outbound Mapping</b>		
MSGDTLL1	Message Center Detail File	Input/Output
TRKMSFL1	Tracking Master Selection Field File	Input
TRKPERL1	Tracking Program Error	Input/Output
TRKPHSL1	Tracking Program History File	Input/Output
TRKPHSL2	Tracking Program History File	Input/Output
TRKPHSL5	Tracking Program History File	Input/Output
TRKCON	Tracking Control Number File	Input/Output
SAPSYS	SAP System Parameter File	Input
GT11CPP	Envelope Control Parameters File	Input

<b>EBDI002, EBDI007– Outbound Editor</b>		
GT00TBP	Standard Table File	Input
GT00EMP	Error Message File	Input
GLBPRM	Global Parameters File	Input
COMPRF	Communication Profile	Input/Output
OUTCTL	Outbound Queue Control File	Input/Output
OUTDTA	Outbound Queue Data File	Input/Output
GT88OAP	EDI File	Input
GT02SAP	Suspense File	Output
GT00PRL	Partner File	Input
PARXREF	Partner Cross Reference File	Input
GTVATOUT	VAT temporary work file	Output
MONCTL	Monitor Control File	Input/Output
MONDTL	Monitor Detail File	Input/Output
AUDREC	Audit File	Input/Output
SYSCFG	System Configuration File	Input



<b>EBDI002, EBDI007– Outbound Editor</b>		
GT02OAPINS	Temporary Output File for INS Data	Output
MSGDTLL1	Message Center Detail File	Input/Output
SAPSTSOL1	Outbound SAP System Parameter File	Input/Output
SAPSYS	SAP System Parameter File	Input
ENVHDRL1	Environment Control Header File	Input
TRKDCNL1	Tracking Document History Control File	Input/Output
TRKMCNL4	Tracking Master Control File	Input
TRKMERL1	Tracking Master Error File	Input
TRKMSFL1	Tracking Master Selection Field File	Input
TRKPERL1	Tracking Program Error	Input/Output
TRKPHSL1	Tracking Program History File	Input/Output
TRKPHSL2	Tracking Program History File	Input/Output
TRKPHSL5	Tracking Program History File	Input/Output
TRKCON	Tracking Control Number File	Input/Output

Figure 1.60 Outbound processing programs and the files they use

## What is a TA1 and how do I prevent the TA1 acknowledgment from being sent back to my trading partners?

The TA1 is an interchange acknowledgment, which is a response that Sterling Gentran:Server produces when it receives an interchange from your partner. The TA1 is not typically used in the industry because it indicates only that an envelope was received—not what was inside the envelope or how the system disposed of the envelope. The functional acknowledgment, which is known as a ‘997’ or a ‘999’ in X12 standards, is typically used to acknowledge groups and transaction sets received. The TA1 acknowledges the ISA interchange, and the AC1 acknowledges the ICS interchange. BG interchanges do not have a corresponding acknowledgment. The following list explains situations that cause the system to generate a TA1. This information can help you troubleshoot and prevent the TA1 and the AC1 from being generated.

1. Look at the data received from your partner on the inbound queue. You can access that information from the Communications subsystem on the Work with Inbound Queue Control panel (EDIX407-FMT01). Look under the Comm Profile ID used to transmit data to this particular partner. If the ISA14 (Interchange Acknowledgment Requested) is ‘1’ (‘0’ = No and ‘1’ = Yes), then Sterling Gentran:Server automatically generates the TA1, regardless of how you set up the global parameters and the partner parameters.
2. Verify the Acknowledge Interchange global parameter is set to ‘N.’ If this parameter is set to ‘Y,’ the TA1 will always be generated when an ISA interchange is received.
3. If the Partner Acknowledge global parameter is set to ‘Y,’ then be sure the Acknowledge Interchange Partner parameter is set to ‘N.’ You can find the Acknowledge Interchange on the partner’s first control record. (SEE the “Acknowledge Interchange” section of the “Global Parameters” chapter in this guide for more information.) The Partner Acknowledge global parameter allows the system to evaluate the partner parameters.
4. Verify the Acknowledge Error global parameter is set to ‘N.’ If this parameter is set to ‘Y’ and an error occurs while the Editor is checking the interchange for compliance, the system generates a TA1, regardless of whether your partner requested an acknowledgment. Errors always override acknowledgment requests.
5. The system generates a TA1 if the Editor encounters an error in the interchange and the following three conditions are true: the Acknowledge Error global parameter is set to ‘N’; the Partner Acknowledge global parameter is set to ‘Y’; and the Acknowledge Error Partner parameter is set to ‘Y.’
6. Finally, to verify that the Editor is resolving the correct partner, be sure the Detail Always global parameter is set to ‘Y’ to generate a detail report. If so, the system prints the resolved partner. If the system is not resolving the correct partner, look at the ISA sender ID/qual and the GS sender ID to verify that cross references for this Partner ID exist in the Partner file.

## Do I need to specify the Sender and Receiver ID in the Processing command?

No. On the PRCTRNOOUT command prompt panel, there are two parameters that identify the Sender (Sender ID and Sender ID Qualifier) and two parameters that identify the Receiver (Receiver ID and Receiver ID Qualifier). You can use these parameters to override the trading partner to whom the data is sent. If you use these parameters, the system does not attempt to resolve the partner from the Application Partner Reference field (stored on the Application Data ID). Also, when you use the Receiver ID parameter, the system sends all data being processed to the specified Receiver ID. You can use this feature as a debugging tool when you get a 611 error message, "Unable to find receiver's control record on the Partner file."

## Why should I use Inbound Splitting?

(SEE the "Splitting" chapter in this guide to learn about this feature and how to use it.) When you are receiving more than one transaction type, use inbound splitting to separate the transaction sets prior to mapping. If you do not use inbound splitting and you receive more than one transaction type, the Mapper suspends the extra data that does not correspond to the Application Data ID being processed. The Mapper produces the 613 message, "Transaction cannot be selected."

Even if you are currently receiving only one transaction type, you should still use splitting so that the Slide file acts only as a trap for any unexpected data you receive. Functional acknowledgments received should be routed to a split file, even if no other documents are currently being received.

## Why does my data go to the Slide file even though I set up Inbound splitting?

(SEE the "Splitting" chapter in this guide for an explanation of the conditions causing the system to put data in the Slide file. This chapter contains step-by-step procedures to set up data separation correctly so the system will store the data in the appropriate split file.)

## Is there any regular maintenance that must be done for Sterling Gentran:Server files?

### Backup & Recovery Procedures

You will need to establish backup and recovery procedures for Sterling Gentran:Server files, as you would for any of the other files on your iSeries. Most companies back up the Sterling Gentran:Server files as part of their regular system backups. In addition, if there is a high level of activity with the Sterling Gentran:Server files (for example, building new partners or maps), then many sites will also do more frequent backups of the Sterling Gentran:Server data library (G3X6DTA).

---

## Clearing Temporary Files

Other maintenance that should be scheduled regularly is the removal of members from the work files, which can be done with the RMVGENMBR command. (SEE the topic “Remove Gentran Work Members” earlier in this chapter for more information on using this command.)

Each time you process inbound or outbound data, Sterling Gentran:Server creates new members in several physical files. The members are named with the letter “M” followed by a sequence number in the format ‘nnnnn,’ which is followed by the letter ‘I’ for inbound or ‘O’ for outbound. If processing is run with “Clear Files Processed = \*Yes,” then the members of the temporary work files will be removed automatically after processing is completed. However, if you process with “Clear Files Processed = \*No,” or processing ends abnormally prior to job completion, members will remain in the work files. In these instances, you can examine and remove all Gentran work members using the RMVGENMBR command.

The physical files (stored in RMVMBRP file) maintained by the RMVGENMBR command are as follows:

- COMNETFIL\*
- COMNETFILA\*
- GEISNETFIL\*
- GT01FAP
- GT01SAP
- GT02FAP
- GT02OAP
- GT02OAPINS
- GT02SAP
- GT11CPP
- GT11OAP
- GT15IAP
- GT15RJP
- GT15SAP
- GT15WAP
- GT17ACK
- GT41RJP
- GT42OAP
- GT42REJ
- GT43CPP
- GT88IAP
- GTVATIN
- GTVATOUT
- IBMNETFIL\*

- TELEKOM\*
- TELEKOMAR\*
- TELEKOMSTS\*
- All split files and subsplit files. (GT1500 – GT1580) 01-80 for subsequent sub-splits

An asterisk '\*' denotes a network report archive file.

#### NOTE

Only the Gentran work members of the split files and subsplit files are removed by the RMVGENMBR command. The \*FIRST member (which may contain data waiting to process through the Mapper) is not touched by this command.

## File Reorganizations

Regular reorganization procedures should be followed for the partner, application, and transaction files. You should also reorganize the online standards files whenever a Standards Selective Delete (DLTSTD) is performed.

#### RECOMMENDATION

Reorganize the maintenance files periodically to reclaim the space from deleted records. The primary files that need to be reorganized are the mapping, application, Partner, and standards files that are shown below.

Mapping Files	Mapping Table Files	Application Files	Partner Files	Standards Files
TRNHDR	CDEDEF	APPHDR	PCTREC	STDACT
TRNSEG	CDECDE	APPRCT	PGRREC	STDCDE
TRNELE	CDEDTA	APPFLD	PTRREC	STDDIC
	CDEVAL	APPTLR	PNRREC	STDELE
			PURREC	STDSEG
			PDSREC	STDTRN
			PERREC	STDVER
			PARXREF	

## File Purges

The Purge process reduces processing time for each translation run, and performs a reorganization as a step of the purge. It is critical that the Purge process be executed on a timely basis for the Audit File, Communication files, and the Job Scheduler files (if you are using the Sterling Gentran:Server Job Scheduler). There are purge options for each of these files.

Keep in mind that you may want to schedule these purges with more than one option. For example, if you scheduled the system to purge the Audit file once a night based on the conditions that the data has been acknowledged and is older than 14 days, then data would remain on the Audit file for 2 weeks before it is removed. You may also want to schedule a purge of the Audit file once a month to purge data that is older than 60 days (for example), regardless if acknowledged or not. This would remove outdated information that may not have been acknowledged, but was available for more than a reasonable amount of time to respond to the partner.

The options to select for purging are variable from site to site, as is the time frame of when these purges should be done. The trade-offs are that the data must remain in the file long enough for you to respond to your business needs as well as your partners without degrading translation or communication transmission performance too much.

Purges have an option to purge the data to tape or a save file. If the data is purged to tape or a save file, you can restore the data and merge it back into the original file using the Retrieve commands (for example the RTVAUD command retrieves the Audit file from either tape or a save file). (SEE the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 Manager's Implementation Planner* for information on daily activities.)

## What libraries and job descriptions does the system use during Processing?

For interactive and batch jobs (non-scheduled), your current library list is submitted with the job. At the time the job is submitted, the system pulls the job description from the user's environment profile, which is set up through the Environment Control subsystem.

For scheduled jobs, the system pulls the library list from the job description on the master schedule entry, which is set up through the System Administration subsystem in the Work with Job Scheduler function.



---

### CAUTION

The iSeries libraries QTEMP and QGPL should always be first in your library list, followed by the Sterling Gentran:Server data and program libraries (that is, G3X6DTA and G3X6PGM). Any user libraries should be included afterward.

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## What is Data Suspension?

Suspension occurs when Sterling Gentran:Server encounters an error severe enough that it does not know how to continue processing the data. When this happens, the data is placed in the Suspense file and an error message is printed on the report (Mapper and Editor). Suspension can occur in both the Mapper and the Editor, although for different reasons in each.

During outbound processing, the Mapper suspends data if it cannot determine which partner to select in the Partner file. Verify that a field has been assigned as the Application Partner Reference field on the Application Data ID. The Application Partner Reference field is the field in the application data file being processed that tells Sterling Gentran:Server which partner to select on the Partner file. If the contents of that field are not found in the Partner file, a cross reference entry is needed to point to the correct partner. (SEE the “Application Definition” chapter in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide* for a more complete discussion of the Application Partner Reference field.) The Mappers will also suspend data, both inbound and outbound, if a map cannot be selected. This will cause a 613 error message to be printed on the Mapping report.

The Editors may suspend data if the partner cannot be found on the Partner file. The Editor needs to be able to find the partner based on the Sender/Receiver IDs in the envelopes. The global parameters will affect whether data is suspended or not. (SEE the section “The Version Specification “Family”” in the “Global Parameters” chapter in this guide for a more complete discussion of partner verification.) The Editors also suspend data if the standards version or document cannot be found in the Standards file. In addition, the Editors suspend data if element separators, segment terminators, or subelement separators are invalid.

When data is suspended by the Inbound Editor, it is placed in a suspense physical file member that is unique to that job. The inbound suspense file is GT01SAP. Once the error has been corrected, the data on the inbound queue can be reset and reprocessed. Or, you can locate the suspense file member that contains the data to be reprocessed and add it to the inbound queue for reprocessing with the Add Data to Queues (ADD) function in the Processing subsystem.

### NOTE

---

The PRCTRIN command does not remove suspense file members that contain data even if the Clear Work File flag is set to \*YES. To remove suspense file members, use the RMVGENMBR command to clean up the GT01SAP and GT02SAP files.

---

When data is suspended by the Outbound Editor, it is placed in the outbound suspense file, GT02SAP, in a unique member for the job. If the group was suspended or rejected, the empty interchange that was already processed is marked as ‘QE’ (Queued with Errors) on the outbound queue to reject the batch.

When data is suspended by the Outbound Mapper or Editor, the entire outbound process must be run again (using the PRCTRNOU command).

## When processing Tradacoms documents, can Sterling Gentran:Server automatically increment and track the FLGN (control number) within messages?

Support has been integrated to generate an incremental File Generation Number (FLGN) for the Tradacoms FIL Segment. The last generation number for an EDI message is stored in the Partner file under the Header Message ID at the transaction level. In order to generate a number automatically, a user exit must be encoded in the inbound and/or outbound maps. A separate user exit has been provided for each direction.

### Partner Setup

Two new fields were added to the Partner Transaction file (PTRREC):

1. PTRFLGO: FLGN outbound, bytes 361-364 (screen label: Generation Number – Outbound)
2. PTRFLGI: FLGN inbound, bytes 365-368 (screen label: Generation Number – Inbound).

These fields display on the transaction record panel (EDIX041 – FMT02) for a partner profile having an interchange type of STX or SCH. The fields are defined as alphanumeric in the files but are manipulated as numeric. The fields should be initialized on the Header message for each Partner with the last generation number used before processing using the new generation programs.

The Partner Transaction panel (EDIX041-FMT02) is shown in the following figure, with the two new fields in the bottom right-hand corner.

```

EDIX041          Partner Transaction          EDI  04/30/11
FMT02                               12:00:00

Partner ID . . . . . PARTNER
Partner Qualifier . . . . .
Partner Name . . . . . TRADACOMS Trading Partner Name
Transaction ID . . . . . ORDHDR

Outbound envelope information for MHD segment
Message Reference Number . . . . . 000000000024
Message Type . . . . . ORDHDR
Release Number . . . . . 6
Version Number . . . . . ANA
Version Release Number . . . . . 001
Controlling Agency . . . . .
Test or Production . . . . . P
Transaction Map ID Inbound . . . . . ORDERSIN
Transaction Map ID Outbound . . . . . ORDERSOUT
Accept Transaction Inbound . . . . . Y
Send Transaction Outbound . . . . . Y
Validate Codes Inbound . . . . . Generation Number - Outbound . . 0016
Validate Codes Outbound . . . . . Generation Number - Inbound . . 0001

F1=Help  F4=Prompt  F10=Update  F12=Cancel  F24=More Keys

```

Figure 1.61 Partner Transaction panel (EDIX041-FMT02)



## Map Setup

In order to activate the generation and tracking of the FLGN number, a special user exit must be coded in the map. The following user exits have been provided to perform this new functionality:

1. FLGNOUT: Element level user exit for outbound maps
2. FLGNIN: Element level user exit for inbound maps

## Outbound Processing

The Outbound Mapper (EBDI042) will call the special user exit FLGNOUT (if specified on the extended map) to increment the last generated FLGN number by 1 and load it into the FLGN element in the FIL segment. The Partner file should be initialized with an appropriate number, keeping in mind the user exit will increment the number first before loading it into the EDI data. If the field is left blank, it will be treated as '0.' The number generated will always be a four digit number such as '0001,' which the Editor might suppress to the minimum numeric length. When the number reaches its maximum value of '9999,' it will wrap around and start with '1.'

On the extended mapping panel (EDIX508 – FMT01) for the FLGN element of the FIL segment, specify the user exit, FLGNOUT, as shown in the following figure.

```

EDIX508                               Extended Outbound Mapping                EDI  04/30/11
FMT01                                                                       12:00:00

Segment ID . . . . .                FIL
Area Code . . . . .                H           Transaction ID . . .  ORDERSOUT
Element Number . . . . .            10          Send or Receive. . . S
Segment Sequence . . . . .          500         Element ID . . . . . FLGN

                                Mapping of Data Element
Mapping Number . . . . .            0
  Value           Op Value           Op Value
  Element = '0'
  If      F010.GENNO      GT '0'
  And/Or
Table ID . . . . .                               Type of Table. . . .
Add to Hash Total # . . . . .                   Length (Minimum) . . 1
Save in Constant # . . . . .                     Length (Maximum) . . 4
Add 1 to Accumulator # . . . . .                 Group Req Cd . . . .
User Exit Routine . . . . .          FLGNOUT      Related. . . . .     N
Mandatory Code . . . . .             M           Type . . . . .     NO
Element Group . . . . .                               Type . . . . .
Segment Description . . . . .          FILE DETAILS
Element Description . . . . .          FILE GENERATION NUMBER

F1=Help  F2=More/Less  F4=Prompt  F10=Update  F19=Appl  F24=More Keys

```

Figure 1.62 Extended Outbound Mapping panel (EDIX508-FMT01)

The value in the element being mapped can be either a literal or an application field. It will be overwritten, however, if the special user exit, FLGNOUT, is specified in the User Exit Routine field.

Inbound Processing

The Inbound Mapper (EBDI041) will call the special user exit FLGNIN (if specified on the extended map) to validate the incoming FLGN number against the number stored on the Partner’s Transaction record for the Header message ID. The FLGNIN user exit compares the incoming FLGN number with the contents of the field labeled ‘Generation Number – Inbound’ for validation. The following messages will be loaded into CONSTANT-55 based on validation:

Message in Constant-55	Under the following conditions:
OK	If the number is just 1 greater than the last number received. The new number is updated in the file.
DUPLICATE DOCUMENT	If the number is equal to the last number received.
INVALID GENERATION NUMBER	If the number is not 1 greater nor is it equal to the last number received.

In any situation where the incoming FLGN number is not “OK,” a message is also logged in the inbound processing joblog. This will be used for debugging purposes. If you currently do not get a joblog, you can specify a Job Description in the user’s profile in Environment Control that has the message logging level as LOG(4 0 \*SECLVL) with LOGCLPGM(\*YES). Not only will a message be displayed in the joblog, but the incoming and expected generation numbers will also be displayed.

On the extended mapping panel (EDIX513 – FMT01) for the FLGN element of the FIL segment, specify the user exit, FLGNIN, as shown in the following figure.

```

EDIX513                      Extended Inbound Mapping                      EDI  04/30/11
FMT01                          12:00:00

Segment ID . . . . .        FIL
Area Code. . . . .         H          Transaction ID . . .  ORDERSIN
Element Number . . . . .   10        Send or Receive. . . R
Segment Sequence . . . . . 500       Element ID . . . . . FLGN
Mapping Number . . . . .    0

                                Mapping of Data Element
Application Target Field . . . . F010.FILNO
                                Value      Op Value      Op Value
Target Field =
If
And/Or
Table ID . . . . .          Type of Table. . . .
Add to Hash Total #. . . . . Length (Minimum) . . . 1
Save in Constant # . . . . . Length (Maximum) . . . 4
Add 1 to Accumulator # . . . . . Group Req Cd . . . .
User Exit Routine. . . . .   FLGNIN      Related. . . . . N
Mandatory Code . . . . .    M          Type . . . . . NO
Element Group. . . . .      Type . . . . .
Segment Description. . . . . FILE DETAILS
Element Description. . . . . FILE GENERATION NUMBER

F1=Help  F2=More/Less  F4=Prompt  F10=Update  F19=Appl  F24=More Keys
    
```

Figure 1.63 Extended Inbound Mapping panel (EDIX513-FMT01)

You should also map the status message that was returned in CONSTANT-55 from the user exit FLGNIN into a header field. This can be done on an alternate extended map for the FLGN element. Use option 3 to copy the '0' level extended map to sequence 1 on the Work with Extended Maps panel (EDIX506-FMT01) and then revise the extended map as shown in the following figure.

```

EDIX513                      Extended Inbound Mapping                      EDI  04/30/11
FMT01                          12:00:00

Segment ID . . . . .      FIL
Area Code . . . . .      H          Transaction ID . . .  ORDERSIN
Element Number . . . . .  10       Send or Receive. . . R
Segment Sequence . . . . . 500     Element ID . . . . . FLGN
Mapping Number . . . . .  1

                                Mapping of Data Element
Application Target Field . . . . . F010.STATUS
                                Value          Op Value      Op Value
Target Field = CONSTANT-55
  If
  And/Or
Table ID . . . . .
Add to Hash Total # . . . . .
Save in Constant # . . . . .
Add 1 to Accumulator # . . . . .
User Exit Routine. . . . .
Mandatory Code . . . . .      M          Type . . . . .      NO
Element Group. . . . .
Segment Description. . . . .  FILE DETAILS
Element Description. . . . .  FILE GENERATION NUMBER

F1=Help  F2=More/Less  F4=Prompt  F10=Update  F19=Appl  F24=More Keys
    
```

Figure 1.64 Extended Inbound Mapping panel (EDIX513-FMT01)

Alternatively, you could just map the results from CONSTANT-55 into an application field via the Field Value on the Application Definition as shown in the following figure.

```

EDIX554                      Application Fields                      EDI  04/30/11
CTL01                          12:00:00

Application ID . . . . . ORDERS
Send or Receive. . . . . R
Record/File Sequence Number. . . . 55
Description. . . . . FILE/CUST/SUPPLIER INFO
Record/File. . . . . 3

Position to Sequence Number. . . .

Type option, press Enter.
  3=Copy  4=Delete

Opt Seq Field Name      Ty Start Len M Description      Field Value
 200 F010.TRNTYP      AN   30   4 M TRANSACTION TYPE
 225 F010.SUPANA      AN   34  14 M SUPPLIER'S ANA
 250 F010.CUSTAN      AN   48  14 M CUSTOMER'S ANA
 275 F010.FILNO       NO   62   1 M FILE GENERATION NUMBER
 280 F010.STATUS      AN   63  30 M FLGN STATUS FROM FLGNIN  CONSTANT-55
 300 F010.FILVER      NO   93   1 M FILE VERSION NUMBER

More...
F1=Help  F4=Prompt  F10=Update  F12=Cancel  F13=Services  F24=More Keys
    
```

Figure 1.65 Application Fields panel (EDIX554-CTL01)

## In this Chapter

This chapter covers the following topics:

- What are Global Parameters? ..... 2-1
- Panel Quick Reference ..... 2-2
- Global Parameters Panels ..... 2-3
- Reports ..... 2-49

## What are Global Parameters?

Global parameters are switches that impact inbound and outbound processing. The Editors use global parameters during compliance checking to determine what action to take. In most cases, the switches indicate if a feature is used “globally” for all partners, or on a partner-by-partner basis.

For example, acknowledgments can be generated “globally” for all partners at varying levels of detail. They can also be generated on a partner-by-partner basis, allowing each partner to receive different levels of acknowledgments. Most users prefer the partner-by-partner basis because “global” functionality is too rigid. The partner-by-partner method allows for flexibility and users find that every partner seems to want something different.

Global parameters reside in a file called GLBPRM in the Sterling Gentran:Server Data Library. The global parameters function is part of the System Administration subsystem.

 **NOTE**

---

The global parameter settings used in this chapter reflect the default settings in your Sterling Gentran:Server Data library (G3X6DTA). Please note that the global parameter default settings in the Sterling Gentran:Server Tutorial library (G3X6SAMP) may differ from these.

---

## Panel Quick Reference

The following table shows how to access the global parameters panels.

Panel Name	Purpose	Access Methods
GENSYS menu Sterling Gentran:Server System Administration	Menu for System Administration functions	<ul style="list-style-type: none"> <li>○ Select option '11' on GENMAIN</li> <li>○ Type 'GO GENSYS' on command line</li> </ul>
EDIX415-FMT01 Global Parameters	Modify global parameters Part 1	<ul style="list-style-type: none"> <li>○ Select option '1' on the GENSYS menu</li> <li>○ Type 'EXCPGM EDIX415' on the command line</li> </ul>
EDIX415-FMT02 Global Parameters	Modify global parameters Part 2	<ul style="list-style-type: none"> <li>○ Press <b>Enter</b> or <b>F8</b> on panel EDIX415-FMT01</li> </ul>
EDIX415-FMT03 Global Parameters	Modify global parameters Part 3	<ul style="list-style-type: none"> <li>○ Press <b>Enter</b> or <b>F8</b> on panel EDIX415-FMT02</li> </ul>
EDIX415-FMT04 Global Parameters	Modify global parameters Part 4	<ul style="list-style-type: none"> <li>○ Press <b>Enter</b> or <b>F8</b> on panel EDIX415-FMT03</li> </ul>
PRTGLB Print Global Parameters	Print settings of the global parameters	<ul style="list-style-type: none"> <li>○ Press <b>F21</b> (Prt Global) on EDIX415-FMT01, FMT02, FMT03, or FMT04</li> <li>○ Type 'PRTGLB' on the command line</li> </ul>

# Global Parameters Panels

## Getting Started

### How Are the Panels Organized?

The global parameters function is part of the System Administration subsystem. There are four global parameters panels: EDIX415-FMT01, FMT02, FMT03, and FMT04. The following sections show how to access and use these panels. Each panel is followed by a description of its parameters and references to the Partner file or other files affected by those parameters.

Recommendations, and their impact on the EDI system, are provided for each parameter. The global parameters panels initially display with the default values. If you are just getting started with Sterling Gentran:Server, you may want to keep the default values. You can always update them in the future to add special features or functionality.

Some parameters are grouped into a category called a “family.” In these cases, we provide an overview of the “family” before the descriptions of individual parameters.

### Moving Between Panels

To move forward from one panel to the next, press **Enter** or **F8** (Next). To move backward to the previous panel (for example from FMT02 to FMT01) press **F7** (Back). Any changes you make on these panels are not put into effect until you press **F10** (Update).

## Manage Global Parameters

### Access the System Administration Subsystem

The global parameters panels are part of the System Administration subsystem. To access this subsystem, select option '11' (System Administration) on the Sterling Gentran:Server menu (GENMAIN) and press **Enter**, or type 'GO GENSYS' on the command line. The following figure shows this action.

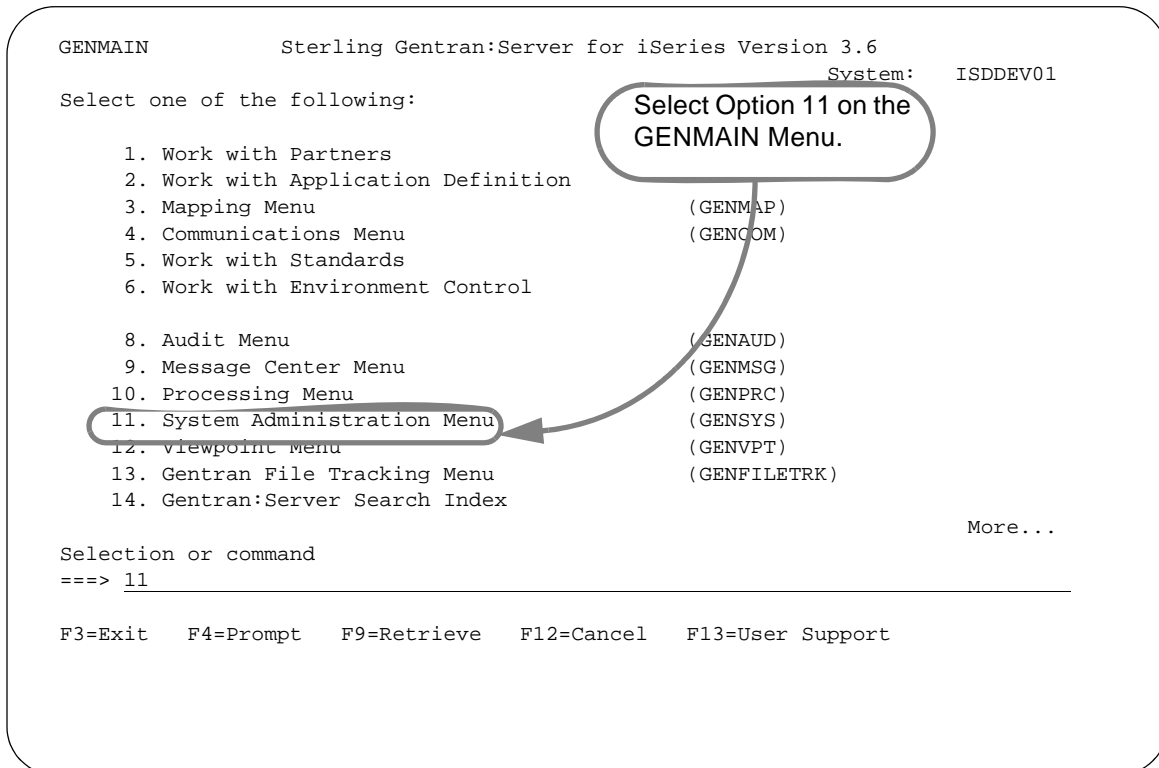


Figure 2.1 Access the System Administration subsystem from the GENMAIN menu



## Access the Global Parameters Panels

After you select the System Administration subsystem on the GENMAIN menu, the system displays the System Administration menu (GENSYS), which is shown below. On this menu, select the Global Parameters function by typing '1' on the command line and pressing **Enter**.

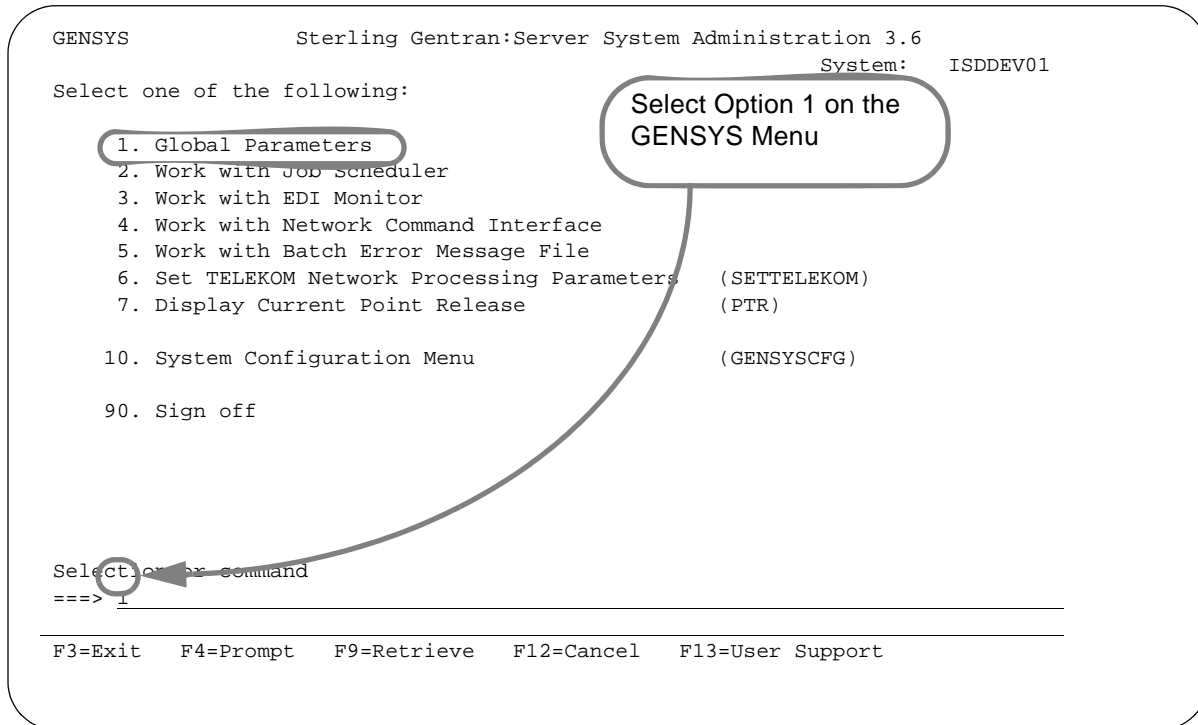


Figure 2.2 Access the Global Parameters function from the GENSYS menu

### Modify Global Parameters

After you select option '1' (Global Parameters) from the GENSY menu, the first Global Parameters panel (EDIX415-FMT01) displays with the default values in place. This panel and the default values are shown below.

```
EDIX415                      Global Parameters                      EDI    04/30/11
FMT01                          12:00:00

Verify Interchange . . . . . Y (Y/N)
Verify Group . . . . . Y (Y/N)
Verify Transaction . . . . . Y (Y/N)

Interchange Version. . . . . Y
Group Version. . . . . Y

Version Conversion
From          To
_____
_____
_____
_____

Update Allowed . . . . . Y (Y/N)

F1=Help  F8=Next  F10=Update  F12=Cancel  F21=Prt Global  F24=More Keys
```

Press **Enter** or **F8 (Next)** to go to next panel

Figure 2.3 The first Global Parameters panel (EDIX415-FMT01)

## Field Definitions

### **The Verify “Family” of Parameters**

The parameters Verify Interchange, Verify Group, and Verify Transaction allow you to protect your system against unknown partners and unexpected documents. Often, verification simply ensures that everything is set up properly within Sterling Gentran:Server. This ensures that the proper partner is used for map selection and auditing.

The system uses the verification feature for inbound processing, outbound processing, global parameters, and Partner file parameters. Data that does not pass verification is placed in the Suspense File.

To understand how the system performs verification, you first need to know how Sterling Gentran:Server *resolves* the partner (finds the Partner ID in the Partner file). (SEE the "Partner Resolution" chapter for more information.)

### **Verify Interchange**

Valid values for Verify Interchange are:

- ‘Y’ Yes, verify the partner can be resolved for the interchange receiver when outbound, or for the interchange sender when inbound. If the partner cannot be resolved at the interchange level, the data is suspended by the Editor.
- ‘N’ No, do not perform verification. If the partner cannot be resolved at the interchange level, the data is passed on anyway—no suspension occurs. If you are auditing and the partner is not resolved, the data is stored on the Audit file under the actual Interchange ID instead of the Partner ID. If the partner is not resolved, BG password validation would not be performed.



---

#### **RECOMMENDATION**

Set Verify Interchange to ‘Y’ to ensure that any data written to the Audit file is loaded under the expected Partner ID and BG password validation is performed.

---

**Verify Group**

The following figure shows the Verify Group global parameter and the fields it affects on the Partner Group panel (EDIX031-FMT01).

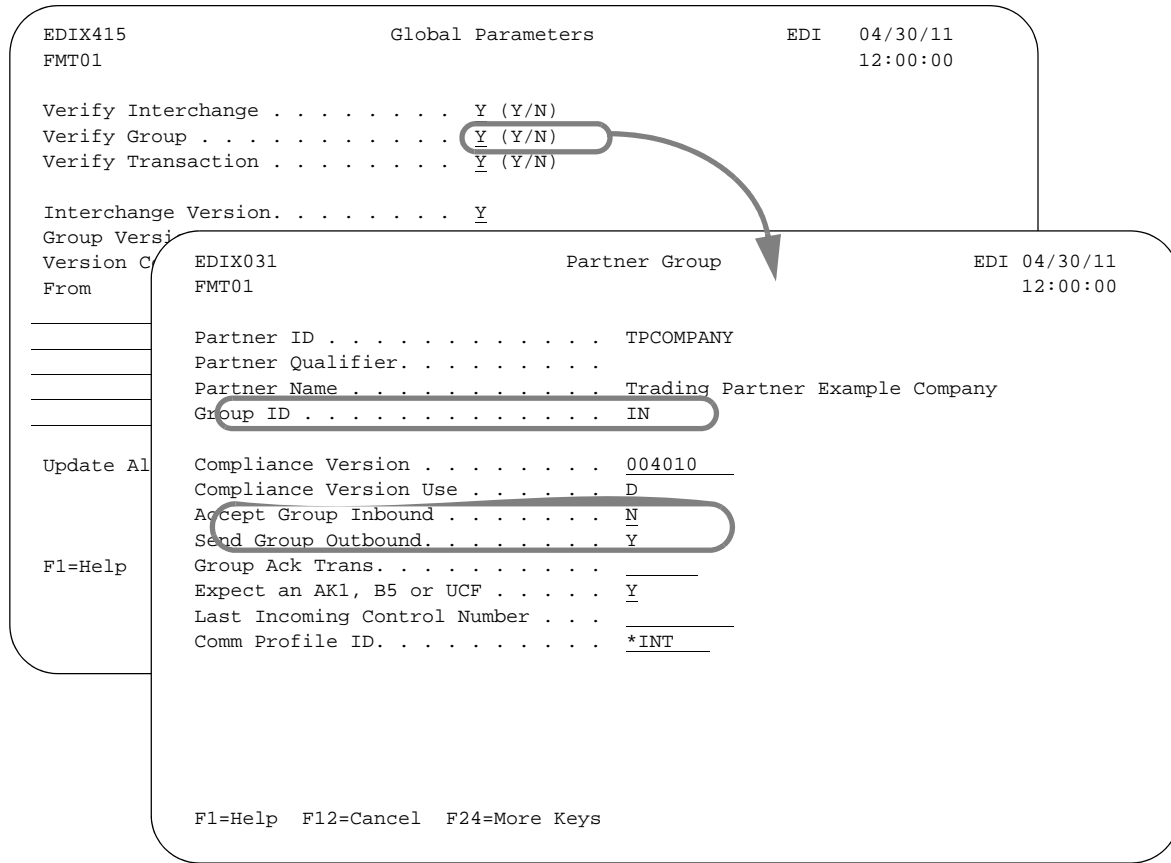


Figure 2.4 Partner Group panel (EDIX031)

Valid values for Verify Group are:

- ‘Y’ Yes, verify that the partner can be resolved (found on the Partner file) for the group receiver (outbound), or for the group sender (inbound). Sterling Gentran:Server also verifies that there is a group record in the Partner file for the functional group being processed (Group ID must be equal to the GS01). If inbound, the Accept Flag on the group record must be ‘Y.’ If outbound, the Send Flag on the group record must be ‘Y.’

If the partner cannot be resolved at the group level, or if group validation fails, the EDI data is suspended by the Editor.

The previous figure shows the group record that must exist for group verification of a Partner ID. In this example, invoices (Group ID = ‘IN’) are sent to the partner. Therefore, if Verify Group parameter is set to ‘Y’ and the system *receives* invoices from this partner, the data is suspended.

‘N’ No, do not perform group verification. If the partner cannot be resolved for the Group ID, or is resolved but does not pass validation, the data is passed on anyway—no suspension occurs.

It is possible for data to be passed if the Global Partner (!Gentran-Reserved-Partner-ID-1) is set to receive or send any document. Data may also be passed if the actual partner was found with a Global Group record (Group ID = !!!DFT) and has the ability to send or receive any group.



**RECOMMENDATION**

Set Verify Group to ‘Y.’ The group level is the most important value to verify on the partner because map selection for inbound takes place using the resolved Sender ID from the GS envelope. (The Interchange Sender ID is used if Verify Group = ‘N’ and the GS Sender ID cannot be resolved).

**Verify Transaction**

The following figure shows the Verify Transaction global parameter and the fields it affects on the Partner Transaction panel (EDIX041-FMT01).

```

EDIX415                               Global Parameters                               EDI 04/30/11
FMT01                                  12:00:00

Verify Interchange . . . . . Y (Y/N)
Verify Group . . . . . Y (Y/N)
Verify Transaction . . . . . Y (Y/N)

Interchange Version. . . . . Y
Group Version. . . . . Y

Version Conversion
From      To
003015    003010

Update Allowed . .

F1=Help  F8=Next

EDIX041                               Partner Transaction                               EDI 04/30/11
FMT01                                  12:00:00

Partner ID . . . . . TPCOMPANY
Partner Qualifier. . . . .
Partner Name . . . . . Trading Partner Example Company
Transaction ID . . . . . 810

Test or Production . . . . . T
Transaction Map ID Inbound . . . . .
Transaction Map ID Outbound. . . . . 810S41TPC1
Accept Transaction Inbound . . . . . N
Send Transaction Outbound. . . . . Y
Validate Codes Inbound . . . . . Y
Validate Codes Outbound. . . . . Y
Expect an AK2, A2, or UCM. . . . . Y
Transaction Acknowledgement Type . . . . .
Acknowledgment Overdue in . . . . . ___ Hours ___ Minutes

F1=Help  F8=Next  F12=Cancel  F24=More Keys
    
```

Figure 2.5 Partner Transaction panel (EDIX041-FMT01)

The fields circled are used for transaction verification.

Valid values for Verify Transaction are:

‘Y’ Yes, verify that the partner is set up for this transaction set. Sterling Gentran:Server verifies that there is a transaction record in the Partner file for the transaction set processed (Transaction ID must be equal to the ST01). If inbound, the Accept Flag on the transaction record must be ‘Y.’ If outbound, the Send Flag on the transaction record must be ‘Y.’ If transaction validation fails, the data is suspended.

The previous figure shows the transaction record that must exist for a Partner ID when you verify the transaction. In this example, invoices are sent to the partner. Therefore, if invoices (Transaction ID = ‘810’) were received from this partner and Verify Transaction global parameter was set to ‘Y,’ the data is suspended.

‘N’ No, do not perform transaction verification. If the data does not pass validation, it attempts to be passed on anyway—no suspension occurs.



#### RECOMMENDATION

Set Verify Transaction to ‘Y’ to ensure that the correct map is selected for translation.

#### The Version Specification “Family”

The version feature, which includes the fields Interchange Version and Group Version on the Global Parameters panel (EDIX415-FMT01), allows the version in the data to be overridden. These versions can be overridden on a global basis for all partners or on a partner-by-partner basis. There are various reasons for doing this. You may want to override the version and process the data against the anticipated version if the partner is sending a different version than what was originally set up and the version is valid according to the standards.

Map exists for Version:	EDI data Received for Version:	Sterling Gentran:Server to Select Version:
004010VICS	004010	004010VICS

The table above demonstrates a common situation for users where a transaction mapping definition was created for a specific version, but the EDI data received was for a different version. In order to translate the received data, Sterling Gentran:Server overrides the version in the EDI data and selects the version for which the map was created.

Some errors might occur because codes from the full version 004010 may not be valid in the subset version 004010VICS, however, this feature may provide a temporary solution for processing data immediately.

**Interchange Version**

This parameter, which is on the first Global Parameter panel (EDIX415-FMT01), determines when to override the interchange version that is in the data to be compliance checked for ISA and ICS interchanges (BG interchange does not contain a version). Invalid versions (not found in the standards) can be set up using the Version Conversion Feature, which is discussed later in this section.

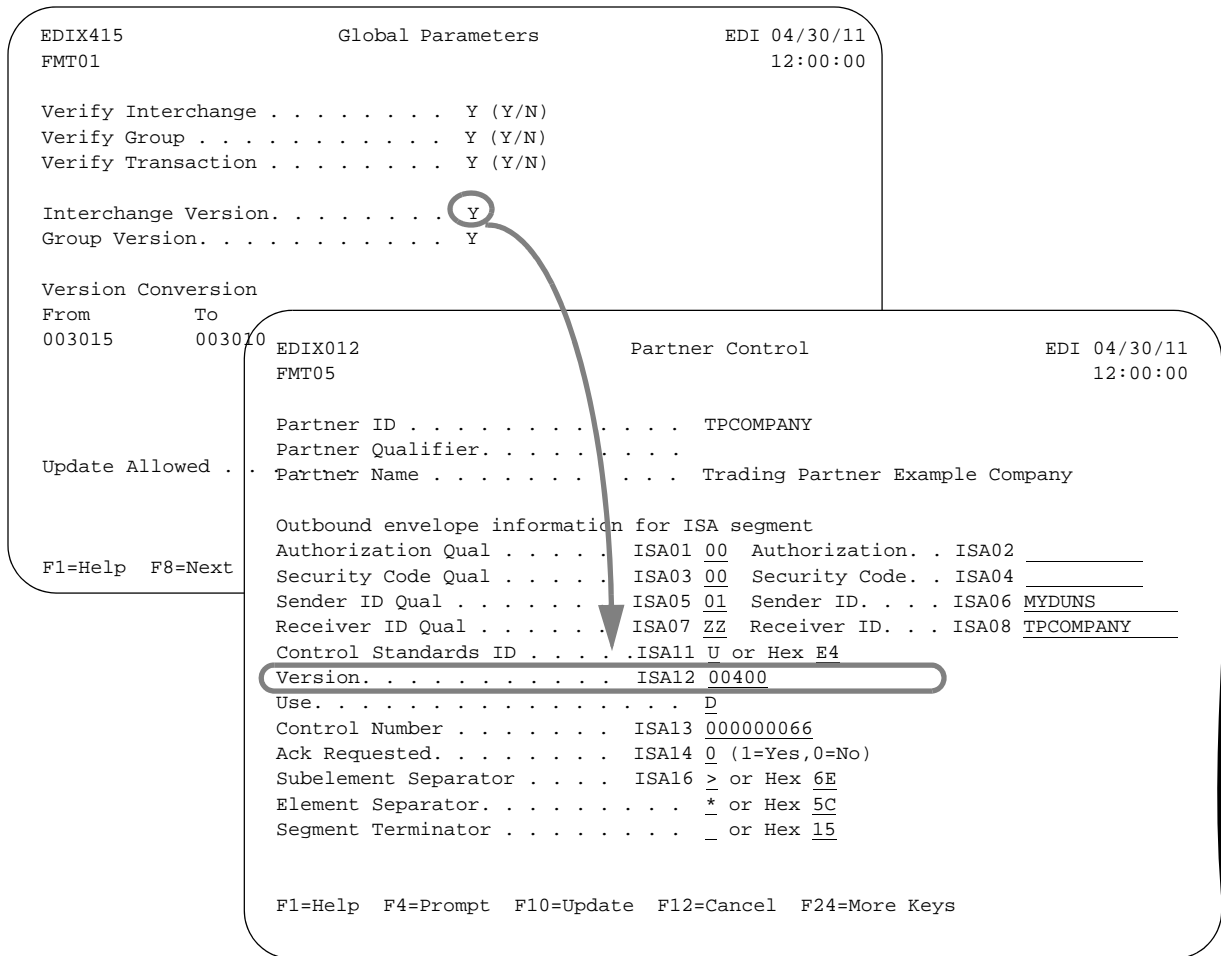


Figure 2.6 Partner's Interchange Version Use flag

The circled information is used when interchange version is 'Y.'

Valid Values for the interchange version are:

- 'A' For **all partners**, always override the version in the input data and use the interchange version set up in the Partner file. There is a compliance version that must be defined in the Partner file. This version is selected by the Editor for compliance checking for the interchange. The Version Use Flag in the Partner Control record is ignored.
- 'Y' On a **partner-by-partner basis**, override the version in the input data. This value activates the Version Use flag on the Partner file control record. Based on the value of the Use Flag (see values below), the version is selected for compliance checking. Values for the Version Use Flag are:
  - 'A' The version in the input data is always overridden and the version in the Partner file is used.
  - 'I' The input version is never overridden. The version in the input data is always picked for compliance checking.
  - 'D' The version in the input data is used if valid (default). Otherwise, the Partner file interchange version is used.
- 'N' For **all partners**, never override the version in the input data. Use the input data version (ISA12) for compliance checking. If it is invalid, the data is suspended. *The version use flag (values A/I/D) in the Partner Control record is ignored.*



---

**RECOMMENDATION**

Set Interchange Version to 'Y.' This allows the user to customize the EDI system on a partner-by-partner basis and override the version only when necessary.

---



**Group Version**

This parameter, which is on the first Global Parameters panel (EDIX415-FMT01), determines when to override the group version that is in the data to be compliance checked. This is the same type of feature previously discussed for the interchange version. However, it affects the version that is in the GS envelope, regardless of the type of interchange that was sent. Invalid versions (not found in the standards) can be overridden by using the Version Conversion Feature, which is discussed later in this section.

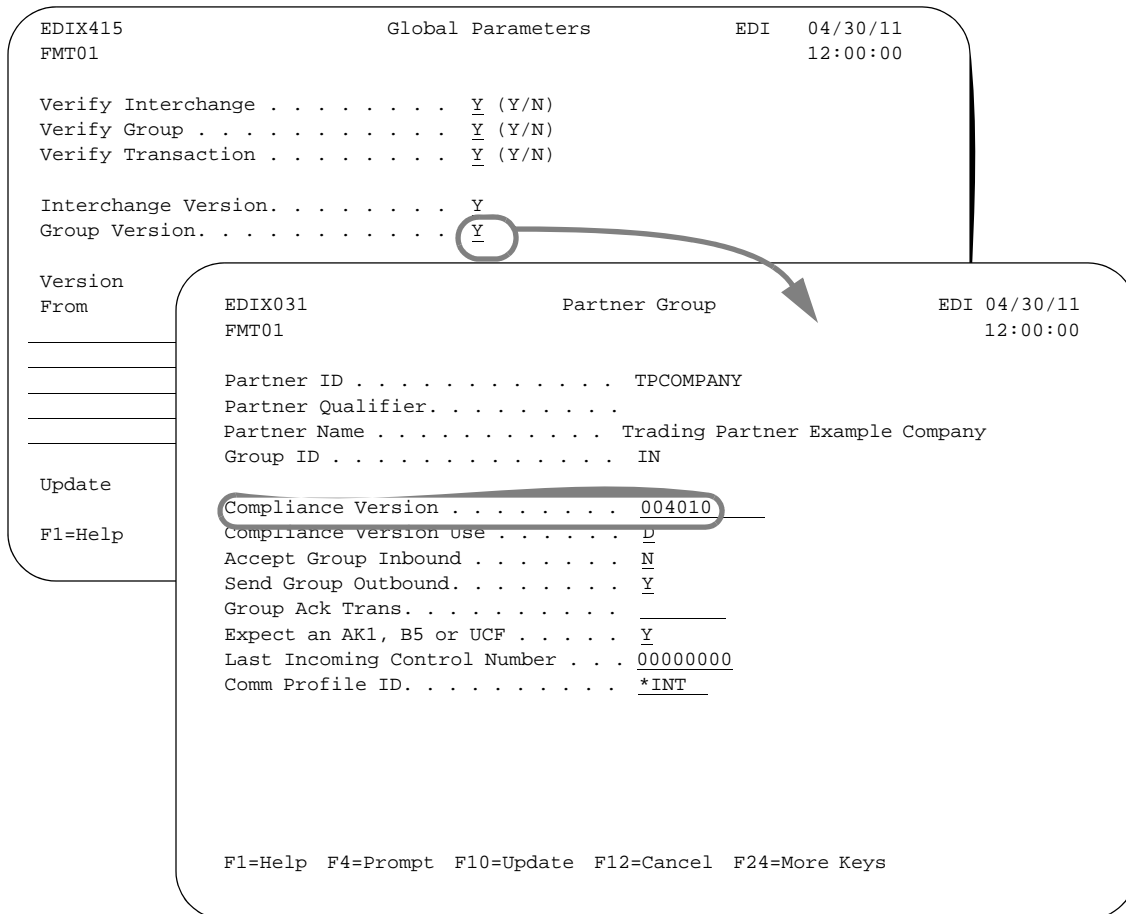


Figure 2.7 Partner's Group Version Use flag

The circled information is used when Group Version is 'Y.'

Valid values for Group Version are:

- 'A' For **all partners**, always override the version in the input data and use the group version setup in the Partner file. There is a compliance version that must be defined in the Partner file. This version is selected by the Editor for compliance checking for the group processed (if a specific group record was not set up, the !!!DFT group ID may be selected). *The Compliance Version Use Flag (values A/I/D) in the Partner group record is ignored.*
- 'Y' On a **partner-by-partner basis**, override the version in the input data. This value activates the Compliance Version Use Flag on the Partner File group record for the group processed. Based on the value of the Use Flag (see values below). The version is selected for compliance checking (inbound and outbound) and map selection (inbound only). Values for the Compliance Version Use Flag are:
  - 'A' The version in the input data is always overridden and the version on the group record in the Partner file is used.
  - 'I' The input version is never overridden. The version in the input data is always selected for compliance checking.
  - 'D' The version in the input data is used if found (default). Otherwise, the Partner file group version is used.



---

**NOTE**

If you are running EDIFACT data and no UNG segment exists in the interchange, then compliance checking uses the version on the Partner group record instead of the version on the UNH record for segments from UNH to UNT. The Compliance Version Use Flag is not used if the UNG segment is missing from the interchange.

---

- 'N' For **all partners**, never override the version in the input data. The input data (GS08) version is the version used for compliance checking. If it is invalid, the data is suspended. *The Compliance Version Use Flag (values A/I/D) in the Partner group record is ignored.*



---

**RECOMMENDATION**

Set Group Version to 'Y.' This allows the user to customize the EDI system on a partner-by-partner basis and override the version only when necessary.

---

### Update Allowed

The Update Allowed flag displays on many of the Sterling Gentran:Server panels to protect data from being changed—inadvertently or purposely. Sterling Gentran:Server users may update the flag if their security profile has a data level of ‘1’ for the System Administration subsystem. (SEE the “Environment Control” chapter in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide* for more information.)

Valid values for Update Allowed are:

- ‘Y’ Yes, allow updates to the global parameters. Any parameter in the Global Parameter file (all three panels) can be changed. A user with an authority code of ‘3’ for the System Administration subsystem cannot update the global parameters even if the Update Allowed flag is set to a ‘Y.’
- ‘N’ No, do not allow updates to the global parameters. If a parameter needs to be changed on any of the three panels, this flag needs to be changed to a ‘Y.’ The actual parameter may then be updated. A user must have an authority code of ‘1’ in the security profile to change this flag.



---

#### RECOMMENDATION

Set Update Allowed to ‘Y.’ It may be changed to ‘N’ prior to moving to a production environment to prevent inadvertent modifications.

---

### Version Conversion

Version Conversion is used for inbound and outbound processing. An invalid version for the group or interchange is converted to a valid version so compliance checking can still be performed. This has a global effect for all partners.



---

#### CAUTION

A valid version *cannot* be converted to another valid version. A valid version is one that is found in the Sterling Gentran:Server Processing Standards file, often termed the batch standards file. If the selected version is not found in the Processing Standards file and no version conversion is set up, data is suspended.

---

Up to five versions can be entered for conversion. If data is suspended due to an invalid version, verify the version contained in the EDI data. If it is an unsupported version in the standards, this feature can be used to bypass the erroneous version. Simply update the global parameters with the invalid version to be converted and reprocess the data.

If the version is supported by standards, the version may not be in the batch (Processing) standards file *within* Sterling Gentran:Server. This feature may still be used. However, you may want to correct your Sterling Gentran:Server system setup. (SEE the “Standards” chapter in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide* for more information on selecting transactions-in-use and running the Standards Extract program (EXTSTD) to refresh the batch (Processing) Standards file.)

This table provides examples of the Version Conversion feature (invalid to valid).

Invalid Version	Convert From ==> To	Valid Version
004020	=====>	004010
00402	=====>	00400
4040	=====>	004010

**RECOMMENDATION**

Set up Version Conversion on an as needed basis.

## Modify Global Parameters

To access the second Global Parameters panel (EDIX415-FMT02), which is shown below, press **Enter** on the first Global Parameters panel (EDIX415-FMT01).

```

EDIX415                               Global Parameters                               EDI 04/30/11
FMT02                                                                           12:00:00

Audit Interchange. . . . .             Y (Y/N)
Audit Group. . . . .                   Y (Y/N)
Audit Transaction. . . . .             Y (Y/N)
Relationship Mode Auditing . . . . .   N (Y/N)

Error Report . . . . .                 Y (Y/N)
Detail Report. . . . .                 N (Y/N)
Error Rejection. . . . .              N

Split Output Files . . . . .           Y (Y/N)
Sub-Split Output Files . . . . .      N (Y/N)
Split by Partner . . . . .             N (Y/N)

ICS Tables . . . . .                  N (Y/N)
BG Partner . . . . .                  Y (Y/N)
BG Version . . . . .                  DEFAULT
Generate 999 for . . . . .

F1=Help  F8=Next  F10=Update  F12=Cancel  F21=Prt Global  F24=More Keys

```

Figure 2.8 Global Parameters panel (EDIX415-FMT02)

## Basic Information

Leave the default options for the parameters as they appear to complete the basic information required for this panel. Press **Enter** or **F8 (Next)** to advance to the third Global Parameters panel (EDIX415-FMT03).

## Field Definitions

### Auditing “Family”

The auditing feature includes Audit Interchange, Audit Group, and Audit Transaction. It is used for inbound and outbound processing and determines the Auditing level performed. Any or all levels may be selected since they are independent of one another.

Data is logged in the Audit file (AUDREC) by activating any of the three parameters. These three parameters have nothing to do with acknowledgments, either the generation or receipt of. However, they can help reconcile acknowledgments.

*This feature is not supported on a partner-by-partner basis. Therefore, no partner parameters are reviewed.* (SEE the "Audit" chapter for more information on effective use of the Auditing feature.)

**Audit Interchange**

This parameter is used to indicate if an interchange, sent or received, is logged in the Audit file. For each interchange being compliance checked by the Inbound or Outbound Editor, a record is written in the Audit file to log the interchange being processed. Logging the interchange level is very helpful for tracking EDI data.

```

EDIX415          Global Parameters          EDI 04/30/11
FMT02                                12:00:00

Audit Interchange. . . . . Y (Y/N)
Audit Group. . . . . Y (Y/N)
Audit Transaction. . . . . Y (Y/N)
Relationship Mode Auditing . . . . N (Y/N)

Error Repo
Detail Re
Error Rej
Split Out
Sub-Split
Split by
ICS Table
BG Partne
BG Versio
Generate
F1=Help

EDIX251          Work with Audit Interchange Status          EDI 04/30/11
FMT01                                pgmlib: G3X6PGM          dtalib: G3X6DTA          12:00:00

Position to Partner _____ Qual ____ Created _____

Type option (and Information), press Enter.
4=Delete 5=View 6=Print EDI 12=Groups 13=Acknowledge 30=Print Audit

Opt Interchange Partner          Qual R Control #          Status          Created
A/N/C          Date          Time
-----
TPCOMPANY          S 000000047          / /Q 04/30/2011 15:25
---
TPCOMPANY          S 000000048          / /Q 04/30/2011 15:25
---
TPCOMPANY          R 000000002          / /PI 04/30/2011 15:24
---
TPCOMPANY          S 000000029          / / 04/30/2011 16:31
---
VENDOR-1          S 000000043          / /Q 04/30/2011 11:40
---
VENDOR-1          S 000000042          / /Q 04/30/2011 12:14
---
VENDOR-1          S 000000040          / /Q 04/30/2011 14:52
---
VENDOR-1          S 000000039          / /Q 04/30/2011 15:07
---
VENDOR-1          S 000000038          / /Q 04/30/2011 14:58
More...

Parameters or command
====>
F1=Help F3=Exit F12=Cancel F15=Sort F23=More Options F24=More Keys
    
```

Figure 2.9 Interchanges logged in the Audit file

The circled information shows Interchange Control # 000000047 logged for TPCOMPANY.

Valid values for Audit Interchange are:

- ‘Y’ Yes, log the interchange. Duplicates are automatically checked to determine if the Interchange Control Number has already been logged for the specified partner. If a duplicate occurs, the current record is not logged and error message #209 is printed on the Editor Processing Report.

'N' No, do not log the interchange. There is no way to check for duplicate control numbers at the interchange level.



**RECOMMENDATION**

Set Audit Interchange to 'Y' to enable the Audit tracking feature. Duplicates can be detected, EDI data can easily be traced, and acknowledgment reconciliation is possible.

**Audit Group**

This parameter, which is on the second Global Parameters panel (EDIX415-FMT02), indicates if a group, that was sent or received, is logged in the Audit File. For each group being compliance checked by the Inbound or Outbound Editor, a record is written in the Audit file to log the group being processed. Logging the group level is very helpful for acknowledgment reconciliation (FA or AG).

```

EDIX415          Global Parameters          EDI 04/30/11
FMT02                                12:00:00

Audit Interchange. . . . . Y (Y/N)
Audit Group. . . . . Y (Y/N)
Audit Transaction. . . . . Y (Y/N)
Relationship Mode Auditing . . . . N (Y/N)

Error Repor EDIX252          Work with Audit Group Status          EDI 04/30/11
Detail Re   FMT01          pgmlib: G3X6PGM          dtalib: G3X6DTA          12:00:00
Error Rej

Split Out   Position to Group Partner _____ Qual _____ S/R _
Sub-Split  Type option (and Information), press Enter.
Split by    4=Delete 5=View 6=Print EDI 12=Transactions 13=Acknowledge

ICS Table  Opt Group Partner          S          Func  Status  Created
BG Partne  Qual R Control #          Grp  A/N/C  Date
BG Versio  _____
Generate   TPCOMPANY          S 000000041  TN  / /Q  04/30/2011
           _____
           VENDOR-1          R 000000007  IN  E/ /RN 04/30/2011
           VENDOR-1          S 000000024  FA  / /    04/30/2011
           VENDOR-1          S 000000025  FA  / /    04/30/2011
           VENDOR-1          S 000000026  FA  / /Q   04/30/2011
           VENDOR-1          S 000000027  FA  / /    04/30/2011
           VENDOR-1          S 000000024  PO  / /SN 04/30/2011
           VENDOR-1
           S 000000025          PO  / /Q  01-25-00
           VENDOR-1          S 000000026  PO  / /Q  01-25-00
                                           More...

Parameters or command
====>
F1=Help F3=Exit F12=Cancel F15=Sort F23=More Options F24=More Keys
    
```

Figure 2.10 Groups logged in the Audit file

The circled information contains Group Control # 000000041 for invoices for TPCOMPANY.

Valid values for Audit Group are:

- 'Y' Yes, log the group. Duplicates are automatically checked to determine if the group control number has already been logged for the specified partner. If a duplicate occurs, the current record is not logged and error message #209 is printed on the Editor Processing Report.
- 'N' No, do not log the group. There is no way to check for duplicate control numbers at the group level.



---

**RECOMMENDATION**

Set Audit Group to 'Y' to enable the Audit tracking feature. Duplicates can be detected, EDI data can easily be traced, and acknowledgment reconciliation is possible.

---



**Audit Transaction**

This parameter, which is on the second Global Parameters panel (EDIX415-FMT02), indicates whether a transaction (sent or received) is logged in the Audit File. For each transaction being compliance checked by the Inbound or Outbound Editor, a record is written in the Audit file to log the transaction being processed. Logging the transaction level is very helpful for acknowledgment reconciliation (the 997, 999, and CONTRL).

```

EDIX415          Global Parameters          EDI  04/30/11
FMT02                               12:00:00

Audit Interchange. . . . . Y (Y/N)
Audit Group. . . . . Y (Y/N)
Audit Transaction. . . . . Y (Y/N)
Relationship Mode Auditing . . . . N (Y/N)
    
```

---

```

EDIX253          Work with Audit Transaction Status          EDI  04/30/11
FMT01          pgmlib: G3X6PGM          dtalib: G3X6DTA          12:00:00

Position to Group Partner _____ Qual_____ S/R _

Type option (and Information), press Enter.
  4=Delete 5=View 6=Print EDI 13=Acknowledge 30=Print Audit 31=Requeue
                S Tran          Tran          Status          Created
Opt Group Partner          Qual R Control #          ID          A/N/C          Date
-----
TPCOMPANY          S 000000012          997          / /Q 04/30/11
TPCOMPANY          S 000000013          997          / /Q 04/30/11
TPCOMPANY          S 000000014          997          / /Q 04/30/11
TPCOMPANY          S 000000015          997          / /Q 04/30/11
TPCOMPANY          S 000000016          997          / /Q 04/30/11
TPCOMPANY          S 000000017          997          / /Q 04/30/11
TPCOMPANY          S 000000018          997          / /Q 04/30/11
VENDOR-1          R 000070001          810          E/ /RN 04/30/11
                More...

Parameters or command
====> _____

F1=Help F3=Exit F6=Fold/Unfold F12=Cancel F15=Sort F24=More Keys
    
```

Figure 2.11 Transactions logged in the Audit file

The circled information contains the Transaction Control # 000000012 that was logged for a purchase order for TPCOMPANY.

Valid values for Audit Transaction are:

- 'Y' Yes, log the transaction. Duplicates are automatically checked to determine if the Transaction Control Number has already been logged for the specified partner. If a duplicate occurs, the current record is not logged and error message #209 is printed on the Editor Processing Report.
- 'N' No, do not log the transaction. There is no way to check for duplicate control numbers at the transaction level.



---

**RECOMMENDATION**

Set Audit Transaction to 'Y' to enable the Audit tracking feature.

---

**Relationship Mode Auditing**

This parameter is used during inbound and outbound processing to determine whether data should be logged into the Audit file by using both the User ID and the Partner ID. The User ID identifies the name of the company for the user processing the data. This is a valuable relationship if your company is multidivisional or you are trading with a partner who is multidivisional.

Valid values for Relationship Mode Auditing are:

- 'Y' Yes, activate relationship mode audit logging; use the first 15 characters of both the User ID and the Partner ID to log audit entries.
- 'N' No, do not activate relationship mode audit logging; only use the Partner ID to log audit entries.



---

**RECOMMENDATION**

Leave set at the default, 'N,' unless you or your partner are multidivisional.

---



---

**NOTE**

When using relationship mode ("Y"), a system parameter used by the online Audit system to change the display is turned on in the Sterling Gentran:Server system configuration file (SYSCFG).

---

The following figure shows an example of how audit data is displayed when the Relationship Mode Auditing parameter is used.

```

EDIX415          Global Parameters          EDI  04/30/11
FMT02                                12:00:00

Audit Interchange. . . . . Y (Y/N)
Audit Group. . . . . Y (Y/N)
Audit Transaction. . . . . Y (Y/N)
Relationship Mode Auditing . . . . . Y (Y/N)
Error Report . . . . . Y (Y/N)
    
```

Work with Audit Interchange Status EDI 04/30/11  
 pgmlib: G3X6PGM dtalib: G3X6DTA 12:00:00

Position to Int. User/Partner TPC \_\_\_\_\_ Qual \_\_\_\_ Created \_\_\_\_\_

Type option (and Information), press Enter.  
 4=Delete 5=View 6=Print EDI 12=Groups 13=Acknowledge 30=Print Audit Status

Opt	Interchange	Partner	Qual	S/R	Control #	A/N/C	Created
							Date Time
---	MYCOMPANY	TPCOMPANY		S	000000001	/ /	04/30/11 12:00
---	MYCOMPANY	VENDOR-1		S	000000036	/ /	04/30/11 12:00
---	MYCOMPANY	XYZCO		R	000000001	/ /	04/30/11 12:00
---	MYCOMPANY	XYZCO		R	000000002	/ /	04/30/11 12:00
---	MYCOMPANY	XYZCO		S	000000045	/ /	04/30/11 12:00
---	MYCOMPANY	XYZCO		S	000000046	/ /	04/30/11 12:00
---	MYCOMPANY	XYZCO		S	000000047	/ /	04/30/11 12:00
---	MYCOMPANY	XYZCO		S	000000048	/ /	04/30/11 12:00

More...

Parameters or command  
 ===> \_\_\_\_\_

F1=Help F3=Exit F12=Cancel F15=Sort F23=More Options F24=More Keys

Figure 2.12 Audit information when Relationship Auditing = 'Y'

**Error Report**

This parameter, which is on the second Global Parameters panel (EDIX415-FMT02), affects only the Editor Processing Reports EBDI001 (for inbound) and EBDI002 (for outbound). These reports show compliance errors. Since mapping errors do not display on this report, this parameter does not affect the generation of the Mapper Processing Reports.

The reports are extremely useful in verifying that the Translation Processing completed without errors (i.e., no suspension, error rejection, or syntax errors occurred). The ability to suppress the reports is useful in limiting the amount of reports a user must review or in streamlining the EDI system. Valid values are:

- 'Y' Yes, always produce a Processing Report from the Editor, even if no errors were encountered. This option can be useful in situations where non-technical users are tracking the EDI processing. It indicates that the processing at least ran. Without a report, it may be difficult to determine if the processing even ran, especially if the user has limited system access.
- 'N' No, only produce the Editor Processing Report when errors were encountered. If no compliance errors are detected, the report is suppressed. Selecting this option can be useful in situations where many translation runs are being processed daily by reducing the amount of reports a user has to review. Only reports needing follow-up action need to be reviewed.

**RECOMMENDATION**

---

Set Error Report to 'Y.' If a method has been devised to ensure Processing has completed and automation is one of your goals, then set this to 'N.'

---

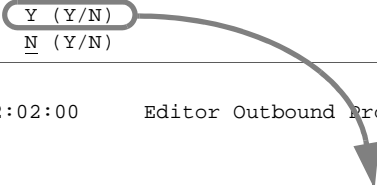
The following figure shows an Editor Processing Report with no errors. The report is suppressed if the Error Report global parameter is set to 'N.'

```

EDIX415          Global Parameters          EDI   04/30/11
FMT02                               12:00:00

Audit Interchange. . . . . Y (Y/N)
Audit Group. . . . . Y (Y/N)
Audit Transaction. . . . . Y (Y/N)
Relationship Mode Auditing . . . . . N (Y/N)

Error Report . . . . . Y (Y/N)
Detail Report. . . . . N (Y/N)
    
```



```

EBDI002  RUN   04/30/11  TIME 12:02:00  Editor Outbound Processing Report  PAGE 1

ERROR RECORD SEG ELT/COMP
NUMBR NUMBER ID NBR      INFORMATION  ERROR MESSAGE

          33  RECORDS READ
          32  SEGMENTS READ
          00  SEGMENTS SUSPENDED
          32  SEGMENTS WRITTEN
          00  ERROR RECORDS WRITTEN
          00  PASS THRU RECORDS WRITTEN
          00  DIRECTION RECORDS WRITTEN
          00  REJECT RECORDS WRITTEN
          10  RECORDS WRITTEN
          00  EDITOR RETURN CODE
          00  MESSAGE CENTER RETURN CODE

          ***  END OF REPORT  ***
    
```

Figure 2.13 Editor Processing Report (which is suppressed if ERROR REPORT = 'N')

**Detail Report**

This parameter, which is on the second Global Parameters panel (EDIX415-FMT02), allows you to see all the work the Editors are performing “behind the scenes” during compliance checking. Normally, this level of detail is better left off the report, because it makes the Processing Report extremely long. The parameter can be overridden on the processing commands, PRCTRININ and PRCTRNOOUT.

Valid values for Detail Report are:

- ‘Y’ Yes, if generating the Editor Processing Report, provide the detail level of information. Information includes the Editor’s look-ups for partner verification, acknowledgment generation, data separation, document validation, and error rejection. This information is valuable if suspension occurred or data is not being processed the way it is expected.
- ‘N’ No, only provide the minimal information on the Editor Processing Report. Only the Envelope Control Numbers are shown with the Partner ID that is being processed with any errors that occur.

**RECOMMENDATION**

---

Set Detail Report to ‘Y’ in a test environment. Change it to ‘N’ when moving into a production environment. Also, set this parameter to ‘Y’ anytime suspension occurs or data is not processed as you expected. Then, reprocess the data so more information can be provided to help in the debugging process.

---

This global parameter is controlled by the processing commands using the parameter, ‘Editor Detail Report’. The default is \*GLBPRM, which uses the value directly from the global parameter file. If set to \*YES, a Detail Report is produced, regardless of the global parameter value. If set to \*NO, additional detail is not generated.

The following figure illustrates the controlling parameter on the PRCTRNOOUT command. The same parameter is on the PRCTRININ command, but is not shown.

```

Process Transactions Outbound (PRCTRNOOUT)

Type choices, press Enter.

Application Data ID . . . . . _____ Character value
      + for more values
Mapper Debug Report? . . . . . *NO_____ *YES, *NO
Clear Temporary Files ? . . . . . *YES_____ *YES, *NO
Application File Member . . . . . *DEFAULT_____ *DEFAULT, Name
Run Interactively? . . . . . *NO_____ *YES, *NO

Additional Parameters

Process Name . . . . . PRCTRNOOUT_____
Editor Detail Report? . . . . . *GLBPRM_____ *GLBPRM, *YES, *NO
Print Parameters Report? . . . . . *NO_____ *YES, *NO
Suspend Blank Appl. Partner? . . . *YES_____ *YES, *NO
Comm Profile ID . . . . . CB3BSC_____ *PARTNER, Profile ID

More...
F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display
F24=More keys

```

Figure 2.14 PRCTRNOOUT Command – Editor Detail Report parameter

A sample Detail Report is illustrated in the following figure.

```

EDIX415          Global Parameters          EDI   04/30/11
FMT02                               12:00:00

Audit Interchange. . . . . Y (Y/N)
Audit Group. . . . . Y (Y/N)
Audit Transaction. . . . . Y (Y/N)
Relationship Mode Auditing . . . . N (Y/N)

Error Report . . . . . Y (Y/N)
Detail Report. . . . . Y (Y/N)
    
```

```

EBDI002    RUN 04/30/11    TIME 12:14:36    EDITOR OUTBOUND PROCESSING REPORT    PAGE 1
ERROR RECORD SEG ELT/COMP
NUMBER NUMBER ID NBR INFORMATION ERROR MESSAGE
INTERCHANGE = VENDOR-1
  2 ISA PARTNER VERIFICATION TYPE = ISA CONTROL # = 000000042 VERSION = 00200
  2 ISA GROUP RECVR QUAL CHECK ID=VENDOR-1 QUAL= SUCCESSFUL
  2 ISA GROUP QUALIFIER INFO RECEIVER= QUAL= SUCCESSFUL
  2 ISA GROUP SENDER QUAL CHECK ID=STERLING SFW QUAL=ZZ NOT FOUND
GROUP = VENDOR-1 TYPE = PO CONTROL # = 000000029 VERSION = 002040
  3 GS GROUP VERIFICATION ID=VENDOR-1 QUAL= SUCCESSFUL
TRANSACTION = TYPE = 850 CONTROL # = 000000030 VERSION = 002040
  4 ST TRANSACTION VERIFICATION ID=VENDOR-1 QUAL= SUCCESSFUL
  45 SE AUDIT TRANSACTION ADD ID=VENDOR-1 QUAL= ADDED
  45 SE TRANSACTION = TRANS CONTROL = 000000030
*** AUDIT INDICATOR FOR 850 DOCUMENT = PONUMBER-001
  47 IEA AUDIT GROUP ADD ID=VENDOR-1 QUAL= ADDED
  47 IEA GROUP ID = PO GROUP CONTROL = 000000029
  47 ISA AUDIT INTERCHANGE ADD ID=VENDOR-1 QUAL= ADDED
  47 ISA INTERCHG CNTL = 000000042

47 RECORDS READ
47 SEGMENTS READ
00 SEGMENTS SUSPENDED
47 SEGMENTS WRITTEN
00 ERROR RECORDS WRITTEN
00 PASS THRU RECORDS WRITTEN
00 DIRECTION RECORDS WRITTEN
00 REJECT RECORDS WRITTEN
24 RECORDS WRITTEN
00 EDITOR RETURN CODE
00 MESSAGE CENTER RETURN CODE

* * * END OF REPORT * * *
    
```

Figure 2.15 Detailed Error Report generated when Detail Report = 'Y'



**Error Rejection**

This parameter, which is on the second Global Parameters panel (EDIX415-FMT02), allows error rejection to be performed based on syntax errors encountered during compliance checking against the standards. If an error occurs, the Error Messages file (GT00EMP) and the Partner file (GT00PRL) are used to determine what actions to take.

Sterling Gentran:Server provides compliance checking of data against the Batch Standards file (GT00TBP) for inbound and outbound documents. By default, it reports any discrepancies found between the EDI data and the standards in the form of a *warning notification* on the Editor Processing Report (EBDI001 for inbound, EBDI002 for outbound). This warning is not always enough. Users may need to reject entire interchanges, groups, or transactions when certain error conditions occur based on user business requirements.

The Error Rejection feature allows the user to select certain compliance errors and force the data containing the error to be separated from the “good” data. Errors that rejection may be set up for include, but are not limited to:

- Invalid code
- Missing mandatory segment
- Missing mandatory element
- Conditional requirements not met
- Ending envelope control number does not match beginning control number

Rejection cannot be set up for specific invalid information such as an incorrect UPC number or invalid quantity, as this is subjective and specific to user’s business requirements. Error rejection is based on *standards* compliance.

SEE the "System Considerations" chapter in this guide, and the “Partner” chapter in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide* for additional information about error rejection.

**NOTE**

---

Data with a warning notification is passed to the Mapper; Error rejection data is not passed.

---

Valid values for error rejection are:

- ‘Y’ Yes, error rejection is used. The Partner file must be modified to set up for specific error rejection rules at the interchange, group, or transaction levels. This option does not necessarily mean that error rejection takes place; only that the potential for error rejection exists. Rejection information still needs to be set up under the specific partners or under the global partner (!Gentran-Reserved-Partner-ID-1) in order for rejection to work.
- ‘N’ No, error rejection is not used. Rejection never occurs, even if the Partner file is set up for rejection and those specific errors are encountered. In this case, the partner’s rejection information is ignored. Only a warning of the error is printed on the Editor Processing Report. The Editors do not look any further for any action to perform.



---

#### RECOMMENDATION

Set Error Rejection to ‘N.’ **DO NOT** use this feature until you have been processing for some time and know the following information:

- Which errors are set up for rejection. These error numbers display on the Editor Processing Report as they occur during translation processing. They are used to prevent data from continuing.
  - Where the “bad” or rejected data goes.
  - How Sterling Gentran:Server processing flow works and how to determine if rejection took place.
  - How to recover from rejection if it takes place. If data is rejected inbound, does my partner automatically send the corrected data again, based on the functional acknowledgment sent by me? Or do they call first to confirm the nature of the problem. Do I call them to let them know rejection took place? If data is rejected outbound, how does it get reprocessed to be sent out?
- 

#### Split Output Files

This feature, which is on the second Global Parameters panel (EDIX415-FMT02), known as “data separation” or “splitting,” is used for sorting data into distinct files. It is used only for inbound processing. After inbound documents are compliance-checked, they are separated by application type rather than by trading partner.

Splitting information is set up in the Partner file under the Partner ID for your company. The Split Output Files global parameter **MUST** be set to ‘Y’ for the Editor to use this information. This allows the documents to be placed in one of the 80 split files that are output from the Editor. There is a default output file called the Slide file, which is used if splitting is not used. For each split file, there are an additional 80 sub-split files to allow further data separation. (SEE the "Splitting" chapter for more information about the entire splitting process.)

The following figure shows group-level splitting for purchase orders and functional acknowledgments.

```

EDIX415          Global Parameters          EDI 04/30/11
FMT02                                12:00:00

Audit Interchange. . . . . Y (Y/N)
Audit Group. . . . . Y (Y/N)
Audit Transaction. . . . . Y (Y/N)
Relationship Mode Auditing . . . . . N (Y/N)

Error Report . . . . . Y (Y/N)
Detail Report. . . . . N (Y/N)
Error Rejection. . . . . N

Split Output Files . . . . . Y (Y/N)
Sub-Split Output Files . . . . . N (Y/N)
Split by Partner . . . . . N (Y/N)

IC EDIX051          Work with Partner Data Separation          EDI 04/30/11
BG FMT01          pgmlib: G3X6PGM          dtalib: G3X6DTA          12:00:00
BG
Ge Position to Partner ID . _____ Qual ____ Level __

Type option (and Information), press Enter.
F1 1=Create 2=Revise 3=Copy 4=Delete 5=View

Opt Partner ID          Qual L Level ID Split
-----
___ C13579          G PO          0001
___ C13579          T 810          0001
___ C13579          T 850          0001
___ C24680          G PO          0001
___ C24680          T 810          0001
___ C24680          T 850          0001
___ MYCOMPANY          G FA          0025
___ MYCOMPANY          G OG          0001
___ MYCOMPANY          G PO          0001

Parameters or command
===>
F1=Help F3=Exit F12=Cancel F15=Sort F24=More Keys
    
```

Figure 2.16 Data Separation for Purchase Orders and Functional Acknowledgments

Valid values for the Split Output Files global parameter are:

- ‘Y’ Yes, allow inbound data to be separated into distinct split files based on the data separation information set up in the Partner file. The Editor looks for this information under the resolved Receiver ID (which is your company) and determines in which of the 80 split files the incoming documents are placed. The split files are numbered 1 to 80 in the Partner file and are named GT1501 through GT1580. Data is routed to the Slide file (GT1500) if the partner cannot be found for the receiver ID, or if the partner was resolved but there was no data separation information established for the document received.

‘N’ No, do not allow inbound data to be separated into distinct split files. All data is routed to the Slide file (GT1500) regardless of data separation information established in the Partner file. It is rare to set it to ‘N.’

Some users might argue that if data is only being sent outbound, there is no need to use this feature. However, even if they are never being mapped, functional acknowledgments may still be received and routed to a split file.



---

**RECOMMENDATION**

Set Split Output Files to ‘Y,’ even when only one document is being received, such as purchase orders. Splitting is set up so any unexpected documents received are separated from the good documents and placed in the various split and/or slide files.

---

**Sub-Split Output Files**

This feature, which is on the second Global Parameters panel (EDIX415-FMT02), indicates whether the inbound data should be considered for the sub-split feature. If you have sub-split definitions set up and want to use the feature, specify ‘Y.’ If you do not need to use the sub-split capabilities, specify ‘N’ to save processing time.

The sub-split feature enables data to be further broken down by using a particular piece of information in the data. The data is routed to a separate file to be input to the mapper.

Valid values for the Sub-Split Output Files Global parameter are:

‘Y’ Yes, allow inbound data to be sub-split.

‘N’ No, do not allow inbound data to be sub-split (saves processing time).



---

**NOTE**

The Split Output Files parameter must be set to ‘Y’ in order to activate this parameter.

---

**Split by Partner**

This parameter, which is on the second Global Parameters panel (EDIX415-FMT02), allows you to use the resolved sender ID (partner) or the receiver ID (user) to look up the splitting instructions in the partner file.

Valid values for Split by Partner are:

‘Y’ Yes, use the sender ID to look up the splitting instructions.

‘N’ No, use the receiver ID to look up the splitting instructions.

**ICS Tables**

This parameter, which is on the second Global Parameters panel (EDIX415-FMT02), is specifically used for the ICS interchange. It allows the user to accept only the new ANSI X12 ICS/ICE segment formats, or both old and new ANSI X12 ICS/ICE segment formats. The older format has a control standards identifier that is a 4-byte field and contains “AIAG” or “ANSI”. This field is only one byte with the new format, and contains a ‘U’ for USA EDI. Valid values for the ICS tables are:

- ‘Y’ Yes, accept only the new ANSI X12 ICS/ICE segment formats.
- ‘N’ No, do not accept just the new ICS formats. Instead accept both old (4-byte field) and new (1-byte field) ICS segment formats.

**RECOMMENDATION**

---

Set to ‘N’ unless you are using the ICS interchange, in which case the parameter should be set to ‘Y.’

---

**BG Partner**

This parameter, which is on the second Global Parameters panel (EDIX415-FMT02), is used specifically for the BG interchange. It is only used for inbound processing to validate the password in the BG02 element and it is used to pull the Comm ID and password for outbound acknowledgments. In the Partner file, there is a field on the interchange control record to enter the expected BG password. If the password in the EDI data does not match the password defined for the partner, the data is suspended.

If the global parameter is set to ‘Y,’ but the Password field in the Partner file is BLANK, the password is not validated. This allows the user to validate passwords on a partner-by-partner basis.

If interchange compliance checking is not performed (partner cannot be found and the global parameter Verify Interchange is set to ‘N’), the password is not validated.

Typically, the Receiver ID in the BG04 element is a network communication phone number and may not be unique. The password in the BG02 element is used as a unique identifier for the Receiver.

Additionally, this parameter allows the Comm ID and password to be retrieved from the partner’s Interchange Control Record 2 containing outbound envelope values. These two values are loaded into the BG segment that surrounds an acknowledgment that is to be sent out. If this parameter is turned off, the Comm ID and password are left blank on the BG for the acknowledgment.

```

EDIX415                Global Parameters                EDI 04/30/11
FMT02                             12:00:00

Audit Interchange. . . . . Y (Y/N)
Audit Group. . . . . Y (Y/N)
Audit Transaction. . . . . Y (Y/N)
Relationship Mode Auditing . . . . . N (Y/N)

Error Report . . . . . Y (Y/N)
Detail Report. . . . . N (Y/N)
Error Rejection. . . . . N

Split Output Files . . . . . Y (Y/N)
Sub-Split Output Files . . . . . N (Y/N)
Split by Partner . . . . . N (Y/N)

ICS Tables . . . . . N (Y/N)
BG Partner . . . . . Y (Y/N)
BG Version . . . . . DEFAULT
Genera

EDIX012                Partner Control                EDI 04/30/11
FMT01                             12:00:00

F1=Help

Partner ID . . . . . BG-PARTNER
Partner Qualifier. . . . .
Partner Name . . . . . Example of a BG Partner
Division . . . . . 000
Interchange Header Option. . . . . BG
Last Incoming Sequence Number. . . . .
GS Sender ID Qualifier . . . . . - ___
GS Receiver ID Qualifier . . . . . - ___
Expect a TA1, AC1, or UCI. . . . . N
Acknowledge Interchange. . . . . N
Acknowledge Group or Trans . . . . . T
Acknowledge Errors . . . . . Y
Purge Acknowledged . . . . . -
Purge Reported . . . . . -
Purge Older Than Days. . . . .
Last Incoming BG Password . . . . . MYPASSWORD
Comm Profile ID. . . . . 00000                      Group Profile ID . . . . . N
Last Incoming UNB/STX Seq. No. . . . .             Update Allowed . . . . . N

F1=Help  F4=Prompt  F10=Update  F12=Cancel  F24=More Keys
    
```

Figure 2.17 BG Password Verification

The circled information shows the BG password that is validated. Valid values for BG Partner are:

- ‘Y’ Yes, verify all incoming BG passwords. The password in the BG interchange has to match the Last Incoming BG Password in the Partner file. Also, pull the Comm ID and password for outbound acknowledgments.
- ‘N’ No, do not verify the BG password. Other types of interchanges do not perform any type of verification and may not be deemed necessary.

**CAUTION**

If BG Partner is 'N' and 999 acknowledgments are being sent out, the Comm ID and password will be blank in the BG segment.

---

**RECOMMENDATION**

Set BG Partner to 'Y' to allow the Comm ID and password to be retrieved for acknowledgments for BG interchanges received.

---

**BG Version**

This parameter, which is on the second Global Parameters panel (EDIX415-FMT02), is used specifically for BG interchanges during inbound and outbound processing. The parameter identifies the version used to compliance check the BG/EG segments since there is no version in the BG segment.

**RECOMMENDATION**

Set the version to 'DEFAULT.' This is a version within Sterling Gentran:Server that contains all envelope segments. If you are using the BG interchange, provide a version for compliance checking.

---

**Generate 999 For**

This parameter, which is on the second Global Parameters panel (EDIX415-FMT02), is used for inbound processing to determine which type of functional acknowledgment should be generated (997 or 999).

This parameter is only used when an acknowledgment is to be sent and the type of acknowledgment cannot be determined from the partner's transaction record. In this case, if the acknowledgment is being generated for a version coded in the global parameter, the 999 acknowledgment would be selected. If not, the default acknowledgment type is the 997.

The transaction record for the partner will dictate the type of acknowledgment. If the type cannot be determined, this global parameter is used.

**RECOMMENDATION**

Enter versions for which the 999 acknowledgment should be generated. Remember to define the type of acknowledgment on the partner's transaction record. If the Partner file is not used, define the versions on this parameter for the 999 generation.

---

Modify Global Parameters

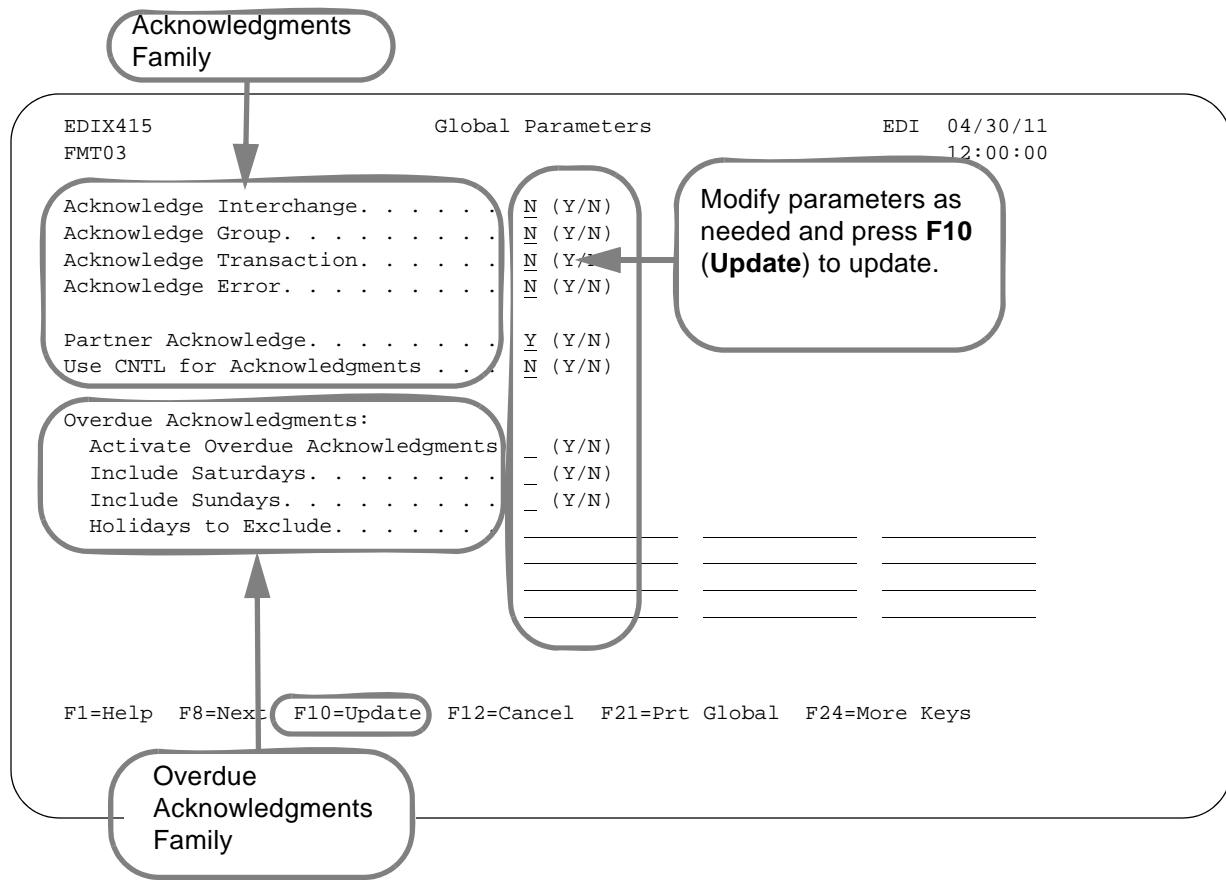


Figure 2.18 The third Global Parameters panel (EDIX415-FMT03)

Basic Information

When you press **F10 (Update)**, you are returned to the System Administration menu (GENSYS).

Acknowledgments “Family”

This feature is used only for inbound processing. It determines whether acknowledgments are generated for EDI documents received and what level of detail is provided.

This feature is only used when the parameter, Generate Acknowledgments, on the Process Transactions Inbound (PRCTRIN) command is set to \*GLBPRM. This activates the Acknowledgment family of global parameters. When the command parameter is \*NO, acknowledgements are suppressed, regardless of the global parameter settings.



Process Transactions Inbound (PRCTRIN)

Type choices, press Enter.

Additional Parameters

Process Name . . . . .	PRCTRIN	
Editor Detail Report? . . . . .	*GLBPRM	*GLBPRM, *YES, *NO
Print Parameters Report? . . . . .	*NO	*YES, *NO
Generate Acknowledgments? . . . . .	*GLBPRM	*GLBPRM, *NO
First Segment Mandatory? . . . . .	*NO	*NO, *YES
User Exits:		
Start . . . . .	_____	Character value
End . . . . .	_____	Character value
Collect VAT Data? . . . . .	*NO	*YES, *NO
Control/Sender's Ref. Length . . . . .	14	06, 08, 14
Clear Values at Section Break? . . . . .	*NO	*NO, *YES
MQ Link . . . . .	_____	Name

More...

F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display  
F24=More keys

Activates the Acknowledgment Family of Parameters

Figure 2.19 Acknowledgments Family Feature

### Overdue Acknowledgments “Family”

The parameters allow you to control if and how you report an overdue acknowledgment. Often, you need to be notified if your trading partner has not received one of your outbound documents within a specified amount of time. These parameters, along with the information entered on the partner transaction record, will control an overdue date for the document(s) just sent. You can then report on documents that have not been acknowledged within the specified time allotted by running the PRTOVRACK (Print Overdue Acknowledgment Report).

### Field Definitions

#### **Acknowledge Interchange**

This parameter is used for inbound processing as a global method of acknowledging an interchange for ALL partners. The processing parameter, Generate Acknowledgments (ACK), on the PRCTRIN command must be set to \*GLBPRM in order to activate this parameter. The acknowledgment parameters in the Partner file are ignored if this option is turned on, preventing the customization of the EDI system on a partner-by-partner basis.

If the system receives an ISA interchange, Sterling Gentran:Server generates a TA1 interchange acknowledgment, regardless of how the Partner file defines the partner. If an ICS interchange was received, an AC1 interchange acknowledgment is generated. If a UNA or UNB interchange was received, an EDIFACT CONTRL message is generated. There is no interchange acknowledgment for the BG interchange, so no acknowledgment is generated. Valid values for Acknowledge Interchange are:

- ‘Y’ Yes, always generate an interchange acknowledgment for all partners when an interchange is received. The Partner file options are ignored.
- ‘N’ No, do not always generate an interchange acknowledgment. The interchange acknowledgment is not automatically generated.



---

**RECOMMENDATION**

Set Acknowledge Interchange to ‘N’ and set the Partner Acknowledge global parameter to ‘Y.’ Acknowledgment is done on a partner-by-partner basis.

---

### Acknowledge Group

The Acknowledge Group parameter is used for inbound processing as a global method for acknowledging a functional group for ALL partners. The processing parameter, Generate Acknowledgments (ACK), on the PRCTRIN command must be set to \*GLBPRM in order to activate this parameter. The acknowledgment parameters in the Partner file are ignored if this option is turned on, preventing the customization of the EDI system on a partner-by-partner basis.

If this parameter is used, an X12 or UCS document will generate a 997 (containing the AK1 and AK9 segments) or a 999 acknowledgment (containing the B5 segment). The 997 is the default document generated for X12 and UCS, unless the Generate record is used in the global parameters file to specify a 999 document for a specific incoming version. This depends on the Generate 999 For global parameter as well as the acknowledgment type contained on the Partner file transaction record. An EDIFACT document will generate a CONTRL acknowledgment (containing the UCI and UCF segments). The group acknowledgment is not commonly used for EDIFACT.

Valid values for Acknowledge Group are:

- ‘Y’ Yes, always generate a group acknowledgment for all partners when a group is received. The Partner file options are ignored.
- ‘N’ No, do not always generate a group acknowledgment. A group acknowledgment is not automatically generated.



---

**RECOMMENDATION**

Set Acknowledge Group to ‘N’ and set the Partner Acknowledge global parameter to ‘Y’ to acknowledge on a partner-by-partner basis.

---

### Acknowledge Transaction

This parameter is used for inbound processing as a global method of acknowledging a transaction set for ALL partners. The processing parameter, Generate Acknowledgments (ACK), on the PRCTRNN command must be set to \*GLBPRM in order to activate this parameter. The acknowledgment parameters in the Partner file are ignored if this option is turned on, preventing the customization of the EDI system on a partner-by-partner basis.

If used, an X12 or UCS document will generate a 997 (containing the AK1, AK2, AK5, and AK9 segments) or 999 acknowledgment (containing the B5 segment). The default 997 document will be generated for X12 and UCS, unless the 'Generate 999 For' global parameter is used to request a 999 document for a specific incoming version. This depends on the Generate 999 For global parameter, as well as the acknowledgment type contained on the Partner file transaction record. An EDIFACT document will generate a CONTRL acknowledgment (containing the UCI and UCM segments). Valid values are:

- 'Y' Yes, always generate a transaction acknowledgment for all partners when a transaction set is received. The Partner file options are ignored.
- 'N' No, do not always generate a transaction acknowledgment. If generating transaction acknowledgments on a partner-by-partner basis, set the Partner Acknowledge global parameter to 'Y.' This allows the transaction acknowledgment options on the Partner files to be evaluated.



#### RECOMMENDATION

Set Acknowledge Transaction to 'N' and set the Partner Acknowledge global parameter to 'Y' to acknowledge on a partner-by-partner basis.

### Acknowledge Error

This parameter is used for inbound processing. It is also a global method of acknowledging an interchange, group, or transaction set for ALL partners when errors are detected. The processing parameter, Generate Acknowledgments (ACK), on the PRCTRNN command must be set to \*GLBPRM in order to activate this parameter. The acknowledgment parameters in the Partner file are ignored if this option is turned on, preventing the customization of the EDI system on a partner-by-partner basis. An X12 or UCS document will generate a 997 (containing the AK3 and AK4 segments) or 999 acknowledgment (containing the A1 segment). Additionally, if the error occurs on an interchange control segment, a TA1 or AC1 will be generated for X12 and UCS. The status code in the Error Acknowledgment will be an 'E' (Accepted with Errors). An EDIFACT document will generate a CONTRL acknowledgment (containing the UCS and UCD segments).

The Acknowledge Error Flag can be used in conjunction with any of the three levels of acknowledgment indicators, whether they are set to 'Y' or 'N.' If an error occurs, an acknowledgment is automatically generated. If the error occurred in the interchange, only an interchange acknowledgment is generated. If the error occurred within the group or transaction, then the full functional acknowledgment is generated.

Valid values for Acknowledge Error are:

- 'Y' Yes, always force acknowledgments at all levels for all partners when an error occurs. The acknowledgment options at the Global and partner level are ignored.
- 'N' No, do not force acknowledgments to be generated when errors occur. To acknowledge errors on a partner-by-partner basis, the Partner Acknowledge global parameter must be set to 'Y.' The Partner file options for acknowledging errors may be evaluated.



---

**RECOMMENDATION**

Set Acknowledge Error to 'N' and set the Partner Acknowledge global parameter to 'Y' to acknowledge errors on a partner-by-partner basis.

---



---

**NOTE**

SEE the Common Questions section in the "Processing" chapter for a discussion of the TA1 acknowledgment.

---

**Partner Acknowledge**

This parameter is used for inbound processing. It handles acknowledgments on a partner-by-partner basis. The Partner file acknowledgment options are evaluated for each given partner. Acknowledgments are only created based on that partner's setup. Acknowledgment by a specific group ID or transaction ID for each given partner is set up in Partner Group and Partner Transaction.

This feature cannot be used in combination with the following global parameters: Acknowledge Interchange, Acknowledge Group, Acknowledge Transaction and Acknowledge Errors. The processing parameter, Generate Acknowledgments (ACK) on the PRCTRIN command, must be set to \*GLBPRM to activate this parameter.

```

EDIX415                Global Parameters                EDI  04/30/11
FMT03                  12:00:00

Acknowledge Interchange. . . . . N (Y/N)
Acknowledge Group. . . . . N (Y/N)
Acknowledge Transaction. . . . . N (Y/N)
Acknowledge Error. . . . . N (Y/N)

Partner Acknowledge. . . . . Y (Y/N)
Use CNTL for Acknowledgments . . . . . N (Y/N)

Overd EDIX012                Partner Control                EDI  04/30/11
Act    FMT01                  12:00:00
Inc
Inc
Hol

Partner ID . . . . . BG-PARTNER
Partner Qualifier. . . . .
Partner Name . . . . . Example of a BG Partner
Division . . . . . 000
Interchange Header Option. . . . . BG
Last Incoming Sequence Number. . . . . _____
GS Sender ID Qualifier . . . . . -- --
GS Receiver ID Qualifier . . . . . -- --
Expect a TAL, ACl, or UCI. . . . . N
Acknowledge Interchange. . . . . N
Acknowledge Group or Trans . . . . . T
Acknowledge Errors . . . . . Y
Purge Acknowledged . . . . . --
Purge Reported . . . . . --
Purge Older Than Days. . . . . --
Last Incoming BG Password . . . . . MYPASSWORD
Comm Profile ID. . . . . CN3BSC                Group Profile ID . . . . . N
Last Incoming UNB/STX Seq. No. . . . . _____                Update Allowed . . . . . N

F1=Help  F4=Prompt  F10=Update  F12=Cancel  F24=More Keys

```

Figure 2.20 Partner Level acknowledged options

The circled information contains the acknowledgment options that are used when the Partner Acknowledge global parameter is 'Y.'

Valid values for Partner Acknowledge are:

- 'Y' Yes, use the acknowledgment options in the Partner file to determine if an acknowledgment is generated. The Partner file options are only used when the global parameter acknowledge for a given level is set to 'N.'
- 'N' No, do not use the acknowledgment options contained in the Partner file to determine how acknowledgments are generated. If this option is 'N,' and all the global acknowledgment indicators are set to 'N,' no acknowledgment is generated.



#### RECOMMENDATION

Set Partner Acknowledge to 'Y' and set all the global acknowledgment options to 'N,' so that all acknowledgments are generated on a partner-by-partner basis. This allows for complete customization of the EDI system and requires few changes to be made in the future if acknowledgment options need to be changed.

### Use CNTL for Acknowledgments

This parameter is only used during inbound processing to determine how the acknowledgments should be generated if you decide that acknowledgments should be generated. There are two generation methods:

- Acknowledgments with envelopes
- Acknowledgments with control records for delayed enveloping

When a value of 'Y' is used, control records (known as CNTL records) are generated for each of the envelope levels (interchange, group, and transaction). Another step in the process will replace these control records with the actual envelopes by reading the partner file.



---

#### RECOMMENDATION

Leave at the default, 'N,' unless you have a need to override envelope values. If you do activate the parameter, be sure to thoroughly test before moving to production, as this impacts functional acknowledgment generation and reconciliation.

---

### Activate Overdue Acknowledgments

Activates and deactivates reporting on overdue acknowledgments. Valid values for Activate Overdue Acknowledgments are:

- 'Y' Yes, calculate an overdue date/time for every outbound document that has a time frame specified on the partner's transaction record for the document being sent.
- 'N' No, do not calculate an overdue date/time regardless of whether or not the partner's transaction record has a time frame specified.

### Include Saturdays

Indicates whether Saturday dates will be included in the date calculation for overdue acknowledgments. Valid values for Include Saturdays are:

- 'Y' Yes, the system will include Saturday dates in the date calculation for overdue acknowledgments.
- 'N' No, the system will not include Saturday dates in the date calculation for overdue acknowledgments.

### Include Sundays

Indicates whether Sunday dates will be included in the date calculation for overdue acknowledgments. Valid values for Include Sundays are:

- 'Y' Yes, the system will include Sunday dates in the date calculation for overdue acknowledgments.
- 'N' No, the system will not include Sunday dates in the date calculation for overdue acknowledgments.

### Holidays to Exclude

This parameter enables you to enter up to 12 dates that you want to exclude in the date calculation for overdue acknowledgments. After several months have gone by, you should revisit this panel to verify whether the dates entered are satisfactory or need revised. You must enter the dates in the format specified in your environmental control.

## Modify Global Parameters

```

EDIX415                      Global Parameters                      EDI  2011/01/27
FMT04                          12:00:00

Sequential Check Control . . . . . N (Y/N)
Sequential Error Control . . . . . N (Y/N)
Compression Level . . . . . I
ANSI Subelements . . . . . Y (Y/N)
EDI Monitor Report . . . . . Y (Y/N)
Validate Codes . . . . . Y (Y/N)
Async Communications Activation . . . . . N
LU6.2 Communications Activation . . . . . N
FTP Communications Activation . . . . . Y
Viewpoint Activation . . . . . N
SAP Activation . . . . . Y

F1=Help  F7=Back  F10=Update  F12=Cancel  F21=Prt Global  F24=More Keys

```

Modify parameters as needed and press **F10 (Update)** to update.

Figure 2.21 The fourth Global Parameters panel (EDIX415-FMT04)

## Field Definitions

### Sequential Check Control and Sequential Error Control

These parameters are used for inbound processing. They interface with the Partner file options to determine if incoming control numbers are logged and optionally verified in the Partner file. They are mutually exclusive, meaning only one of the two options can be turned “ON” (set to ‘Y’).

If either option is set to ‘Y,’ the Inbound Editor attempts to update the Partner file with the incoming control number at the interchange and group level for all partners. At this point, the control number is only updated when the Last Incoming Control Number in the Partner file is numeric. By leaving the partner’s last incoming control number BLANK, the user can deactivate the logging and verifying of control numbers for a given partner, while allowing it to take place for other partners.

The difference between the Check and Error option is that the Check option only performs the logging; it never performs any verification on that number. The Error option not only updates the control number, it *verifies that the incoming control number is just one more than the last incoming control number for the interchange and each group received*. If it is not just one greater than the last control number, two error messages (#355 and 356) are printed on the Inbound Editor Processing Report (EBDI001). The messages indicate the control number that was expected and the control number that was received.

Some users might want to use the check option with some or all partners. This function enables the user to look at the Partner file at any time to see how many interchanges or groups have been received from that partner.



**RECOMMENDATION**

Set both options to 'N.' Typically, the sender of the data is responsible for that data by verifying an acknowledgment has been received. If no acknowledgment has been received within a reasonable time, they should contact you to verify that the data was received.

When there is a “jump” in the control numbers, it does not necessarily mean you missed some data. Rather, the sender may have reprocessed the data due to errors without resetting the control numbers.

```

EDIX415          Global Parameters          EDI  2011/01/27
FMT04                               12:00:00

Sequential Check Control . . . . . N (Y/N)
Sequential Error Control . . . . . N (Y/N)

Compression Level. . . . . I

ANSI Subelements . . . . . Y (Y/N)
EDI Monitor Report . . . . . Y (Y/N)

Validate Codes . . . . . Y (Y/N)

Asyn LU6
LU6 EDIX012          Partner Control          EDI  04/30/11
FTP  FMT01                               12:00:00
View
SAP  Partner ID . . . . . BG-PARTNER
     Partner Qualifier. . . . .
     Partner Name . . . . . Example of a BG Partner
     Division . . . . . 000
     Interchange Header Option. . . . . BG
F1=H Last Incoming Sequence Number. . . 000000005
     GS Sender ID Qualifier . . . . . --
     GS Receiver ID Qualifier . . . . . --
     Expect a TA1, AC1, or UCI. . . . . N
     Acknowledge Interchange. . . . . N
     Acknowledge Group or Trans . . . . . T
     Acknowledge Errors . . . . . Y
     Purge Acknowledged . . . . . --
     Purge Reported . . . . . --
     Purge Older Than Days. . . . . --
     Last Incoming BG Password . . . . . MYPASSWORD
     Comm Profile ID. . . . . CN3BSC          Group Profile ID . . . N
     Last Incoming UNB/STX Seq. No. . . . .          Update Allowed . . . N

F1=Help  F4=Prompt  F10=Update  F12=Cancel  F24=More Keys
    
```

Figure 2.22 Last incoming control number at the interchange level



The circled information contains the incoming Interchange Control Number that is validated and logged.

```

EDIX415          Global Parameters          EDI  2011/01/27
FMT04                               12:00:00

Sequential Check Control . . . . . N (Y/N)
Sequential Error Control . . . . . N (Y/N)

Compression Level. . . . . I

ANSI Subelements . . . . . Y (Y/N)
EDI Monitor Report . . . . . Y (Y/N)

Validate Codes . . . . . Y (Y/N)

Asynchronous LU6.2
FTP Control SAP A
View
SAP A

EDIX031          Partner Group          EDI  04/30/11
FMT01                               12:00:00

Partner ID . . . . . TPCOMPANY
Partner Qualifier. . . . .
Partner Name . . . . . Trading Partner Example Company
Group ID . . . . . IN

Compliance Version . . . . . 004010
Compliance Version Use . . . . . D
Accept Group Inbound . . . . . N
Send Group Outbound. . . . . Y
Group Ack Trans. . . . .
Expect an AK1, B5 or UCF . . . . . Y
Last Incoming Control Number . . . . . 00000000
Comm Profile ID. . . . . *INT

F1=Help  F4=Prompt  F10=Update  F12=Cancel  F24=More Keys
  
```

Figure 2.23 Last incoming control number at the group level for invoices

The circled information contains the incoming Group Control number that is validated and logged.

### Compression Level

This parameter is used for outbound processing to determine what level of compression is used for the EDI data. The EDI data passed to the Outbound Editor (EBDI002) from the Mapper (EBDI042) has not been compressed yet. Typically, the interchange level is chosen to compress everything from the interchange header through and including the interchange trailer. The compression excludes the ISA segment. Not only are trailing blanks and leading zeros compressed within the segment, but all segments within the interchange are wrapped or compressed.

The purpose of compressing data is to send the minimum number of characters in an outbound transmission to reduce telecommunication costs and improve the transmission efficiency. The following five examples illustrate each of the compression levels.

```

BG*COMMID      *PASSWORD  *SENDER      *RECEIVER    *971115*1210*00029~
GS*OG*SENDER   *RECEIVER    *971115*1211*000000029*T*U3/1      ~
ST*875*000000152~
G50*N*971115*PONUMBER-001          ~

```

Figure 2.24 Partial Sample of Input Data

```

BG*COMMID*PASSWORD*SENDER*RECEIVER*971115*1210*29~GS*OG*SENDER*RECEIVER*971115*1212*29*T*U3/1~ST
*875*0152~G50~N*971115*PONUMBER-001~

```

Figure 2.25 Output Data using Compress Interchange

```

BG*COMMID*PASSWORD*SENDER*RECEIVER*971115*1210*29~
GS*OG*SENDER*RECEIVER*971115*1211*29*T*U3/1~ST*875*0152~G50~N*971115*PONUMBER-001~

```

Figure 2.26 Output Data Using Compress Group

```

BG*COMMID*PASSWORD*SENDER*RECEIVER*971115*1210*29~
GS*OG*SENDER*RECEIVER*971115*1211*29*T*U3/1~
ST*875*0152~G50*N*971115*PONUMBER-001~

```

Figure 2.27 Output Data using Compress Transaction

```

BG*COMMID*PASSWORD*SENDER*RECEIVER*971115*1210*29~
GS*OG*SENDER*RECEIVER*971115*1211*29*T*U3/1~
ST*875*0152~
G50*N*971115*PONUMBER-001~

```

Figure 2.28 Output Data using Compress Segment

**RECOMMENDATION**

Set Compression Level to 'I' for the entire interchange. For testing, it may be desirable to compress at the segment level. This way, verifying the results of the EDI segments written is easier since the data is not wrapped (each segment starts a new record).

**ANSI Subelements**

This parameter allows the subelements to be recognized during inbound and outbound processing. Subelements were adopted into the X12 standards beginning with version 003030. They have existed in international standards for some time. Not many users were affected by this change since it was only incorporated in a small set of segments, such as the MEA. It is a further subdivision of a single element into smaller elements. (SEE your standards manuals for more information.)

**RECOMMENDATION** 

---

The default is 'Y.' If you and your partners are not using subelements in ANSI standards, set ANSI Subelements to 'N.'

---

**EDI Monitor Report**

This parameter is used by both inbound and outbound processing and a communication network report. If set to 'Y,' the Mapper, Editor and the network reports will be logged in the Monitor file; otherwise, they will only be written to the output spool files. When bypassing the EDI Monitor, throughput may be increased. (SEE the "EDI Monitor" chapter for more information on the EDI Monitor.)

**RECOMMENDATION** 

---

If you require the reports, leave the parameter set to 'Y.' If you do not use the reports, set the parameter to 'N' to increase throughput.

---

**Validate Codes**

This parameter is used during inbound and outbound processing to determine if standard code compliance should be used or bypassed. Bypassing code compliance may increase throughput. To run standard code compliance, set this parameter to 'Y.' To bypass standard code compliance, set this parameter to 'N.' When this parameter is set to 'Y,' compliance checking is determined at the partner level. The Validate Codes Inbound and Validate Codes Outbound values on the Partner Transaction panel (EDIX041-FMT01) are used in combination with the Verify Transaction global parameter to determine if code compliance is performed.

**RECOMMENDATION** 

---

Leave the parameter set to the default, 'Y,' for testing and until your trading partner relationships are stable. If you do not plan to reject data for invalid codes, set this parameter to 'N.'

---

**Async Communications Activation**

This parameter is used to activate the Async Communications feature. If you are doing Async Communications, you must enter a 'Y' in this field; otherwise, enter a 'N'.

**LU6.2 Communications Activation**

This parameter is used to activate the LU6.2 Communications feature. If you are doing LU6.2 Communications, you must enter a 'Y' in this field; otherwise, enter a 'N'.

**FTP Communications Activation**

This parameter is used to activate the FTP Communications feature. If you are doing FTP Communications, you must enter a 'Y' in this field; otherwise, enter a 'N'.

**Sterling Gentran:Viewpoint Activation**

This parameter is used to activate the Sterling Gentran:Viewpoint feature. If you want to access the Sterling Gentran:Viewpoint Module, you must enter a 'Y' in this field; otherwise, enter a 'N'.

**SAP Activation**

This parameter is used to activate the SAP Extension. If you want to access the SAP Extension, you must enter a 'Y' in this field; otherwise, enter a 'N'.

## Printing the Global Parameters Report

The Sterling Gentran:Server system provides you with the ability to print a report displaying the Global Parameter settings. Information is printed from the Global Parameter file (GLBPRM).

To print the global parameters, press **F21** (Prt Global) on EDIX415-FMT01, FMT02, FMT03, or FMT04. Or, on a command line, type PRTGLB and press **Enter**.

# Reports

## EBDI004G – Global Parameters Report

### Contents of the Report

The Global Parameters Report prints the settings of the global parameters.

### How to Identify the Report

The name of the Sterling Gentran:Server program that generates this report (EBDI004) and the upper case letter “G” (for global) are used together as an identifier, “EBDI004G,” which is printed in the upper left corner of each page. This identifier also displays in the User Data field associated with the spooled report in the Output Queue. The full title, “Global Parameters Report,” is centered at the top of each page.

### How to Generate the Report

This is a user-generated report. It is submitted in one of two ways:

- From the command line, by typing ‘PRTGLB’ and pressing **Enter**.
- From the Global Parameters panel (EDIX415), by pressing **F21** (Prt Global) on FMT01, FMT02, FMT03, or FMT04.

### Special Considerations

Like all other Sterling Gentran:Server reports, the Global Parameters Report automatically goes to the iSeries Output Queue defined for the user running the job. (SEE the “Environment Control” chapter in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide* for instructions on how to set up a user’s Output Queue.)

EBDI004G2      RUN 04/30/11      TIME 12:00      GLOBAL PARAMETERS REPORT      PAGE 1

## GLOBAL PARAMETERS:

Verify Interchange . . . . .	Y
Verify Group . . . . .	Y
Verify Transaction . . . . .	Y
Interchange Version . . . . .	Y
Group Version . . . . .	Y
Version Conversion	
From                      To	
Audit Interchange . . . . .	Y
Audit Group . . . . .	Y
Audit Transaction . . . . .	Y
Relationship Mode Auditing . . . . .	Y
Error Report . . . . .	Y
Detail Report . . . . .	Y
Error Rejection . . . . .	N
Split Output Files . . . . .	Y
Sub-Split Output Files . . . . .	N
Split by Partner . . . . .	N
ICS Tables . . . . .	N
BG Partner . . . . .	Y
BG Version . . . . .	DEFAULT
GENERATE 999 for . . . . .	
Acknowledge Interchange . . . . .	N
Acknowledge Group . . . . .	N
Acknowledge Transaction . . . . .	N
Acknowledge Error . . . . .	N
Partner Acknowledge . . . . .	Y
Use CNTL for Acknowledgments . . . . .	N
Overdue Acknowledgments:	
Activate Overdue Acknowledgments	N
Include Saturdays . . . . .	N
Include Sundays . . . . .	N
Holidays to Exclude . . . . .	
Sequential Check Control . . . . .	N
Sequential Error Control . . . . .	N
Compression Level . . . . .	I
ANSI Subelements . . . . .	N
EDI Monitor Report . . . . .	Y
Validate Codes . . . . .	N
Async Communications Activation . . . . .	<u>N</u>
LU6.2 Communications Activation . . . . .	<u>N</u>
FTP Communications Activation . . . . .	<u>Y</u>
Viewpoint Activation . . . . .	<u>N</u>
SAP Activation . . . . .	<u>Y</u>

## In this Chapter

This chapter explains the concept of “resolving” the partner and the importance of Sterling Gentran:Server finding the partner in the Partner file. We also discuss how Sterling Gentran:Server finds the partner for the two most common interchange envelopes: BG and ISA. The following topics are covered:

- What is Partner Resolution? ..... 3-1
- Partner Resolution for:
  - BG Interchange Envelope. .... 3-3
  - ISA Interchange Envelope ..... 3-3
  - GS Group Envelope ..... 3-4

## What is Partner Resolution?

“Resolving the partner” means finding the partner in the Partner file. Sterling Gentran:Server needs to find the partner to retrieve all the necessary information to process EDI data. The partner is resolved, if necessary, at various stages in the processing: by the Outbound Mapper, the Outbound Editor, and the Inbound Editor. For inbound and outbound processing, the Editors check the envelope identifiers (Receiver IDs for outbound processing and Sender IDs for inbound processing) to identify the partner. Often, these identifiers do not have the same value that was used to create the partner.

Sterling Gentran:Server checks the Partner Cross Reference file in these situations to see if a cross reference entry was added to point the unknown identifier back to the Partner ID. This process of finding the partner is called **Partner Resolution**. The Outbound Mapper uses the Application Partner Reference field defined for the application definition to identify the partner.

Many users are unsure how Sterling Gentran:Server finds a partner during inbound and outbound processing. Knowing the procedure Sterling Gentran:Server uses to locate a partner is important in understanding what partner Sterling Gentran:Server is using for editing, splitting, and mapping, as well as what cross references are needed.

The following figure and the text after it explain the Partner Lookup (Resolution) for the two most common interchange envelopes: the BG and the ISA. The text also discusses the Partner Lookup for the group envelope in terms of how it is affected by the Interchange Lookup method. Note that inbound and outbound perform in a similar manner.

In the diagram below, the values in parentheses represent the identifiers used for outbound processing, and the values not in parentheses represent the identifiers used for inbound processing.

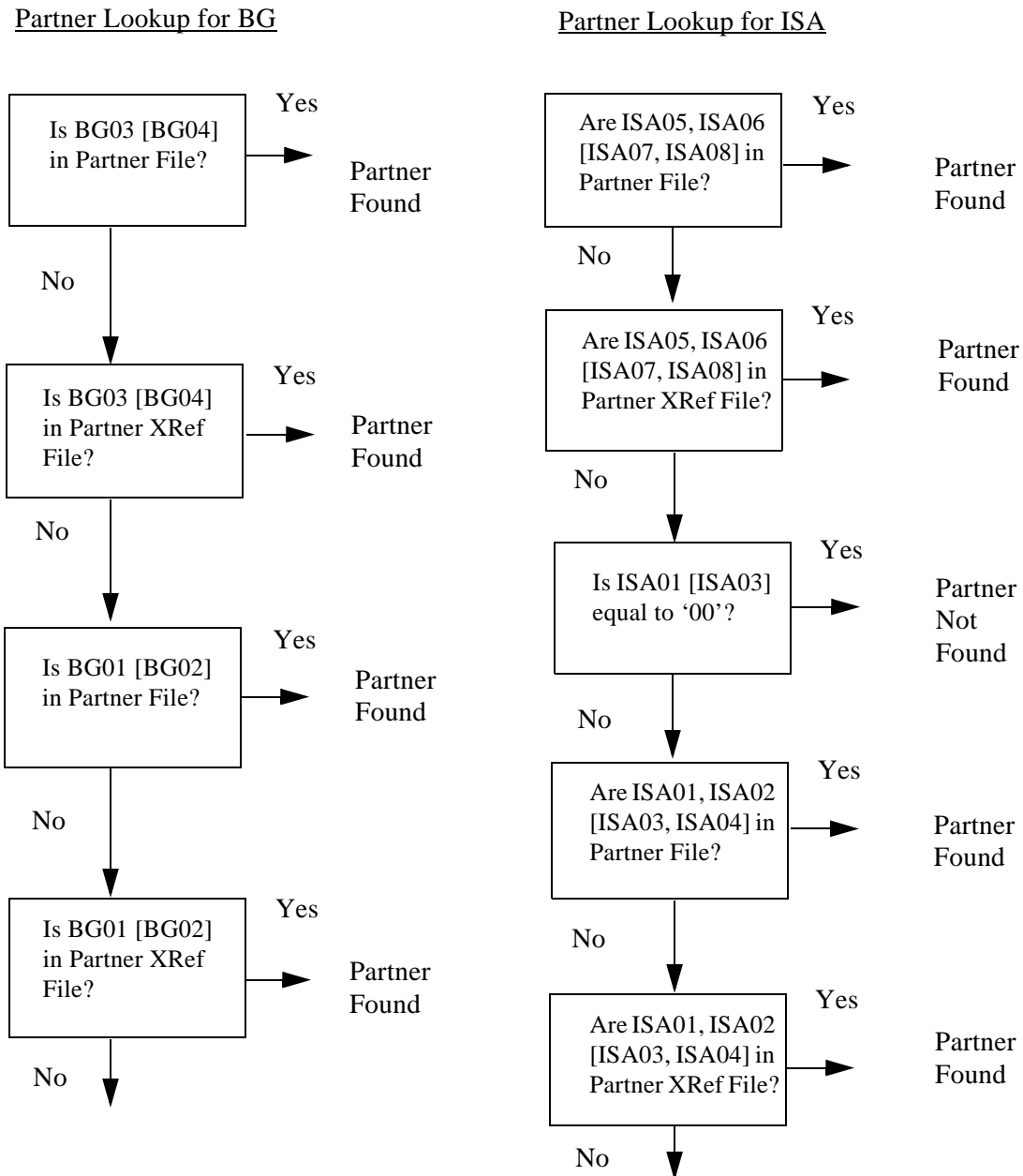


Figure 3.1 Partner Resolution for BG and ISA Interchange



## BG Interchange Envelope

Sterling Gentran:Server first uses the Application Sender ID (BG03), if inbound, or Application Receiver ID (BG04), if outbound, to locate the partner in the BG interchange envelope. The Partner file is checked first. If the partner is found under the Application Sender or Receiver ID, that partner is used (therefore it was “resolved”). If no match is found, Sterling Gentran:Server checks the Partner Cross Reference file.

If Sterling Gentran:Server is unable to resolve the BG Application Sender/Receiver ID to a partner, the BG Comm ID (BG01), if inbound, or BG Password (BG02), if outbound, is used. As always, the system checks the Partner file first and then checks the Partner Cross Reference file. If the BG Receiver (BG04) and the BG Password (BG02) are not found for outbound processing, the Partner ID passed by the Mapper on the ###INT record internal instruction record) is used to read the Partner file.

## ISA Interchange Envelope

Sterling Gentran:Server uses the Sender ID and qualifier (ISA06 and ISA05), if inbound, or the Receiver ID and qualifier (ISA08 and ISA07), if outbound, to locate the partner in the ISA interchange envelope. Similar to the steps discussed above for the BG envelope, for the ISA envelope, Sterling Gentran:Server tries to find the ID/qualifier combination on the Partner file first. If no match is found, the Partner Cross Reference file is then checked for an entry whose value matches the ID and qualifier from the interchange. If no match is found in the Partner Cross Reference file, Sterling Gentran:Server uses the Authorization Code and qualifier (ISA02 and ISA01), if inbound, or Security Code and qualifier (ISA04 and ISA03), if outbound. The Partner file is checked first, then the Partner Cross Reference file.

## GS Group Envelope

When an interchange partner is found, Sterling Gentran:Server examines one of two fields on the Partner Control panel (EDIX012-FMT01). If inbound, the GS Sender ID field is examined; if outbound, the GS Receiver ID field is examined. If the field value is set to 'N,' Sterling Gentran:Server does not use a qualifier during the GS partner lookup. If the value is set to 'Y,' Sterling Gentran:Server uses the qualifier coded in the field on the Control record when doing the GS partner lookup. If the value is set to 'I,' Sterling Gentran:Server uses the qualifier from the Partner ID that was found at the interchange level in the Partner file. If there was no qualifier for the Partner ID, Sterling Gentran:Server does not use a qualifier for the GS partner lookup.

If a partner was not found at the interchange level for the ISA interchange envelope, Sterling Gentran:Server automatically carries the Interchange ID qualifier (ISA05, if inbound, or ISA07, if outbound) to the GS for the partner lookup. If a partner was not found at the interchange level for the BG interchange envelope, no qualifier is carried for the GS partner lookup.

The GS Sender ID (GS02), if inbound, or GS Receiver ID (GS03), if outbound, is used along with the qualifier determined from the previous steps to perform a partner lookup on the Partner file. Again, if no match is found directly in the Partner file, Sterling Gentran:Server searches the Partner Cross Reference file.

4 **Splitting**

## In this Chapter

This chapter explains the concept of “splitting,” which is also called “data separation.” The chapter presents the steps you take to ensure that the splitting feature is set up correctly. An overview of the procedures for defining partner file parameters and global parameters, both of which affect the splitting feature, is included in the chapter.

To help you answer more technical questions that you may have about setting up splitting or resolving problems after setup, we have provided this chapter as a troubleshooting guide.



**NOTE**

---

SEE the “Partner” chapter in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide* for more information about setting up partner information. In particular, the section, “Entering Partner Data Separation,” is closely related to this chapter.

---

This chapter covers the following topics:

- What is Splitting? . . . . . 4-2
- Steps for Setting Up Inbound Splitting . . . . . 4-3
- Troubleshooting the Inbound Splitting Process . . . . . 4-5
- Outbound “Splitting” . . . . . 4-23
- Common Questions . . . . . 4-26

# What is Splitting?

Splitting (data separation) is used during inbound processing to separate the data into different temporary files called “split files.” The purpose of splitting is to sort the edited EDI data by application type to prepare it for mapping.

Typically, data received from a third party network, such as IBM® Sterling B2B Collaboration Network, contains EDI data from many partners and may contain many different document types. The data file, as a whole, can be checked for compliance errors and sorted by the type of document to be passed on to the mapping translation step. There are a total of 80 split files that can be used for the sorting as well as an additional 80 “sub-split files” that can be used for each split file.

The following figure shows where splitting occurs during inbound processing.

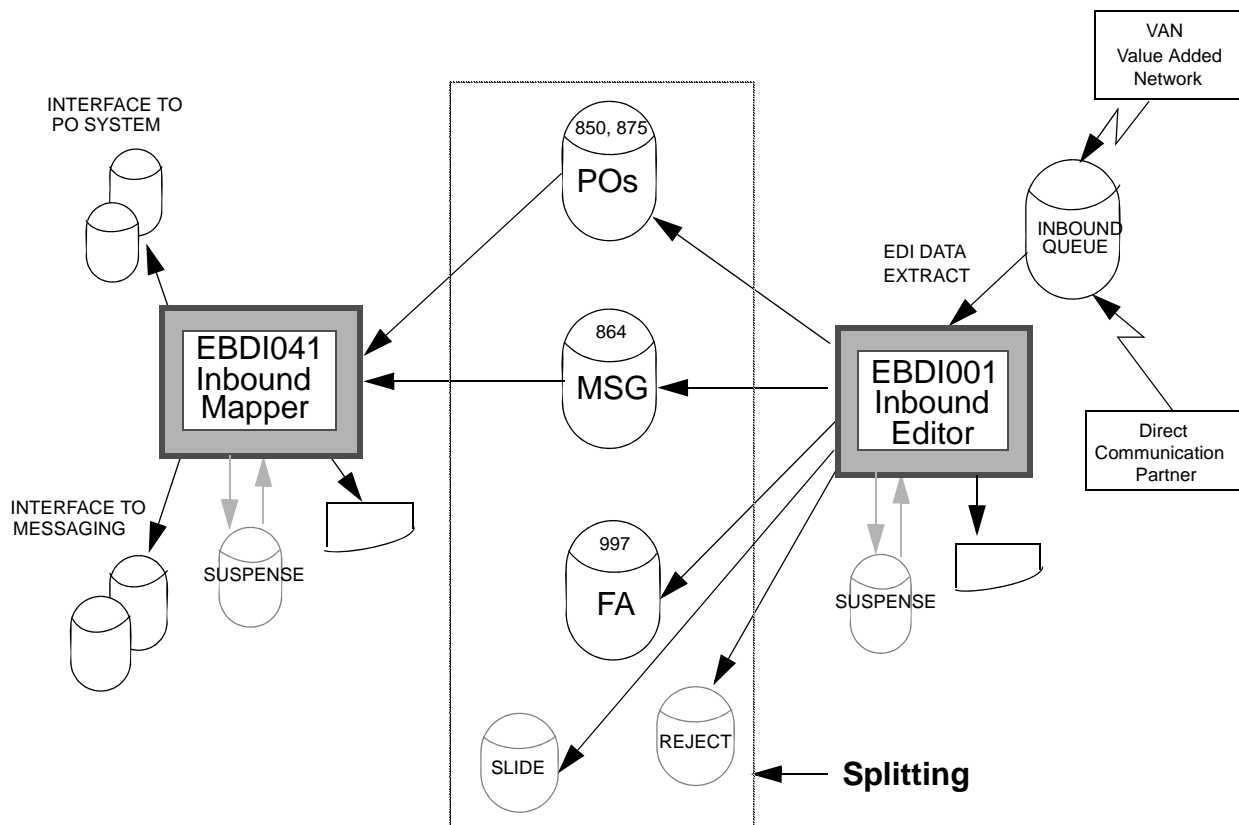


Figure 4.1 Splitting feature in Inbound Processing

# Steps for Setting Up Inbound Splitting

Data should be separated based on the type of application for which it is destined. For example, purchase order documents should be grouped together and mapped into purchase order application files. Invoice documents should be grouped together, separate from the orders, and mapped into invoice application files.

The following steps identify the procedure of setting up splitting. (SEE the “Partner” chapter in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide* for more detailed information on how to set up splitting.) The figure below identifies the information necessary to set up splitting as well as sample data to help illustrate.

Splitting is based either on the Receiver ID (your company) of the incoming data or the Sender ID (your trading partner) depending on the global parameter “Split by Partner.”

Splitting Scenario	
1. Create Partner Profile ID for receiver or sender, depending on the method chosen.	MYCOMPANY or TPCOMPANY  (Use your own company name or ID in place of MYCOMPANY or your partner’s ID in place of TPCOMPANY.)
2. Identify incoming transactions.	Examples:  PO (850) Purchase Order (X12)  OG (875) Purchase Order (UCS)  TX (864) Text Message  FA (997) Functional Acknowledgments

## Step 1: Create a Partner Profile for Your Company or Your Trading Partner

If Splitting is based on the Receiver ID (Split by Partner is set to ‘N’) you need to set up your own company as a partner. Sterling Gentran:Server looks at the Receiver ID from the interchange and group (that is., ISA or BG and GS) and attempts to find the partner to obtain the splitting instructions.

If splitting is based on the Sender ID (Split by Partner is ‘Y’), the Sender ID on the interchange and group envelopes is used.

## Step 2: Add the Data Separation Records

From the Work with Partner panel (EDIX005-FMT01), advance to the Data Separation panel (EDIX051-FMT01) for the selected partner. You need to create data separation records for each document you expect to receive inbound. Specify the split file for each Group or Transaction ID.

---

### Step 3: Add Cross Reference Entries to the Partner Cross Reference

Add cross reference entries to the Partner Cross Reference file. The cross reference ties the IDs from the interchange and group segments in the inbound data to the Partner ID just created. This enables Sterling Gentran:Server to find the appropriate partner profile. If Split by Partner is 'N', the Receiver IDs are looked up. If Split by Partner is 'Y', the Sender IDs are used. This step only needs to be performed if the Partner ID is different than the envelope identifiers. (SEE the "Partner Resolution" chapter for more information.)

### Step 4: Turn "ON" Splitting at the Global Parameter level

There are switches at the global level called "global parameters" that affect the way Sterling Gentran:Server processes data. Turning "ON" a parameter indicates the parameter is set to 'Y', for YES. The global parameter that enables splitting is "Split Output Files".

If you follow all the steps for splitting but leave this parameter "OFF" (set to 'N'), the splitting fails and all the data will be directed to the Slide file. Your instructions will be ignored. The global parameter, in this case, overrides all other options for splitting. (SEE the "Global Parameters" chapter for more information.)

Split by Partner is a secondary global parameter used for splitting. If data is to be separated (the Split Output Files parameter is activated), then this parameter determines how to look up the splitting definition records, either by partner (Sender ID) or the user (Receiver ID). Specify 'Y' to split based on the Partner/Sender ID or 'N' to split based on the User/Receiver ID.

Sub-split Output Files is a third parameter used for splitting. If splitting is activated, you can optionally choose to separate the data further by using sub-split files for each designated split file by using some criteria in the data.

# Troubleshooting the Inbound Splitting Process

This section walks through splitting from a processing standpoint. It is intended to be used to help troubleshoot the inbound splitting process by walking you through the various spots that you can check to verify that splitting was set up correctly. The figures shown are independent examples for assistance in troubleshooting.

## Inbound Processing is Initiated

The user initiates inbound processing (PRCTRIN) from the Processing Menu or by prompting the command.

```

                                Process Transactions Inbound (PRCTRIN)

Type choices, press Enter.

Comm Profile ID (Editor) . . . . CN3BSC          *NONE, *ALL, Comm Profile Id
      + for more values
Application ID (Mapper) . . . . SEMPOAPPL       *NONE, *ALL, Application Id
      + for more values
Mapper Debug Report? . . . . . *NO              *YES, *NO
Clear Temporary Files? . . . . . *YES          *YES, *NO
Acknowledgment Reports:
  Print Report? . . . . . *NO                *YES, *NO
  Split File . . . . . 00000          00000-00080, SLIDE
  Sub-Split File . . . . . 00              00-80
Application File Member . . . . *FIRST         *FIRST, *UNIQUE
Replace Data in App. Files? . . *YES          *YES, *NO
Run Interactively? . . . . . *NO            *YES, *NO

                                                                    Bottom
F3=Exit   F4=Prompt   F5=Refresh   F10=Additional parameters   F12=Cancel
F13=How to use this display   F24=More keys

```

Figure 4.2 Initiating Inbound Processing

Data received during a communications session is extracted from the inbound queue and passed to the Inbound Editor.

```

EDIX407          Work with Inbound Queue Control          EDI 04/30/11
FMT01           pgmlib: G3X6PGM      dtalib: G3X6DTA      12:00:00

Position to Profile ID . . . . . _____ Profile Seq 9999999

Type option (and Information), press Enter.
  2=Revise  4=Delete  5=View  6=Print  30=Extract Data  31=Find String

      Profile
Opt Profile  Sts   Seq #   Date       Time       Records   Comm   Batch  Batch
      Stamp   Seq #   ID
-----
___ CN3BSC    PI      5   06-29-00   11:09:17    12      9     10  POINB
___ CN3BSC    PI      3   06-20-99   14:13:34     7      2      3  Edifact
___ CN3BSC    RN      2   11-09-99   17:35:37     6      2      2  SEMPOAP
___ CN3BSC    RN      1   11-09-99   17:36:16    16      3      1  INVFILE
___ EVAL     PI     162  12-14-99   11:16:36     6      8      9
___ EVAL     PI     161  12-14-99   11:16:05     7      8      8
___ EVAL     PI     160  12-14-99   11:11:49     6      7      7
___ EVAL     PI     159  12-14-99   11:11:04     7      7      6
___ INSNET   RN      1   06-23-99   18:45:30    24      3      4

                                           Bottom

Parameters or command
===>
F1=Help  F3=Exit  F12=Cancel  F15=Sort  F24=More Keys
    
```

Figure 4.3 Work with Inbound Queue Control illustrating EDI data available for Inbound Processing



**CAUTION**

Data must have been received prior to processing inbound data (during communications). Only batches with a status of 'RN' (Received Normally) are processed.



## Determine If and How Splitting Should Occur

The global parameter, Split Output Files, is looked up first to determine if splitting should occur. If 'Y' is specified, the Split by Partner global parameter is evaluated by the editor in order to determine which ID (Receiver or Sender) should be resolved and used for splitting. If 'N' is specified, the receiver is used; if 'Y' is specified, the sender is used.

EDIX415	Global Parameters	EDI 04/30/11
FMT02		12:00:00
Audit Interchange. . . . .	<u>Y</u> (Y/N)	
Audit Group. . . . .	<u>Y</u> (Y/N)	
Audit Transaction. . . . .	<u>Y</u> (Y/N)	
Relationship Mode Auditing . . . . .	<u>N</u> (Y/N)	
Error Report . . . . .	Y (Y/N)	
Detail Report. . . . .	<u>N</u> (Y/N)	
Error Rejection. . . . .	<u>N</u>	
Split Output Files . . . . .	<u>Y</u> (Y/N)	
Sub-Split Output Files . . . . .	<u>N</u> (Y/N)	
Split by Partner . . . . .	<u>N</u> (Y/N)	
ICS Tables . . . . .	<u>N</u> (Y/N)	
BG Partner . . . . .	<u>Y</u> (Y/N)	
BG Version . . . . .	<u>DEFAULT</u>	
Generate 999 for . . . . .	_____	

F1=Help F4=Prompt F8=Next F10=Update F12=Cancel F24=More Keys

Figure 4.4 Splitting Parameters

The Inbound Editor Report in the following figure shows a scenario in which splitting occurs based on the receiver.

```

EBDI001      RUN 04/30/11      TIME 12:00:00      EDITOR INBOUND PROCESSING REPORT      PAGE 1
ERROR RECORD SEG ELT/COMP
NUMBER NUMBER ID NBR      INFORMATION      ERROR MESSAGE
INTERCHANGE = C13579
2 ISA      PARTNER DIRECTED OUTPUT      ID=123456789      TYPE = ISA      CONTROL # = 000000001      VERSION = 00400
2 ISA      PARTNER ACKNOWLEDGE      ID=C13579      QUAL=      NOT FOUND
2 ISA      ACKNOWLEDGEMENT INFO      INT=N      GROUP=T      ERROR=Y      QUAL=      SUCCESSFUL
2 ISA      PARTNER VERIFICATION      ID=C13579      QUAL=      SUCCESSFUL
2 ISA      GROUP SENDER QUAL CHECK      ID=C13579      QUAL=      SUCCESSFUL
2 ISA      GROUP QUALIFIER INFO      SENDER= N      QUAL=      SUCCESSFUL
2 ISA      GROUP RCVR QUAL CHECK      ID=123456789      QUAL=      SUCCESSFUL
2 ISA      GROUP QUALIFIER INFO      RECEIVER=
2 ISA      SPLITTING BY: USER      (RECEIVER)
GROUP = C13579      TYPE = PO      CONTROL # = 000000001      VERSION = 004010
3 GS      GROUP DIRECTED OUTPUT      ID=123456789      QUAL=      NOT FOUND
3 GS      GROUP VERIFICATION      ID=C13579      QUAL=      SUCCESSFUL
TRANSACTION =      TYPE = 850      CONTROL # = 0001      VERSION = 004010
3 ST      TRANS DIRECTED OUTPUT      ID=123456789      QUAL=      SUCCESSFUL
3 ST      FILES: 0001
3 ST      TRANSACTION VERIFICATION      ID=C13579      QUAL=      SUCCESSFUL
3 ST      TRANSACTION GENERATE      ID=C13579      QUAL=      SUCCESSFUL
3 ST      ACKNOWLEDGE PARTNER GENERATE ON      FA 004010      997
209 5 SE      TC13579      CANNOT ADD ITEM TO AUDIT FILE. IT DUPLICATES AN ITEM ALREADY ON FILE.
5 SE      AUDIT TRANSACTION ADD      ID=C13579      QUAL=      NOT ADDED
5 SE      TRANSACTION =      TRANS CONTROL = 0001
IBM
    
```

Figure 4.5 Inbound Editor Report (EBDI001) showing Splitting by Receiver

## Resolving the Receiver ID and Sender ID

The Inbound Editor must find the appropriate partner in the Partner file. This is known as “resolving” the Receiver ID and Sender ID and ultimately locating which split file the EDI data should be routed to in preparation for the mapping translation step.

Both Receiver and Sender IDs will attempt to be resolved (found in the Partner file); however, only one or the other is used for looking up the data separation instructions based on the global parameter previously mentioned.

The following figure references EDI data that is extracted from the inbound queue and passed to the Inbound Editor.

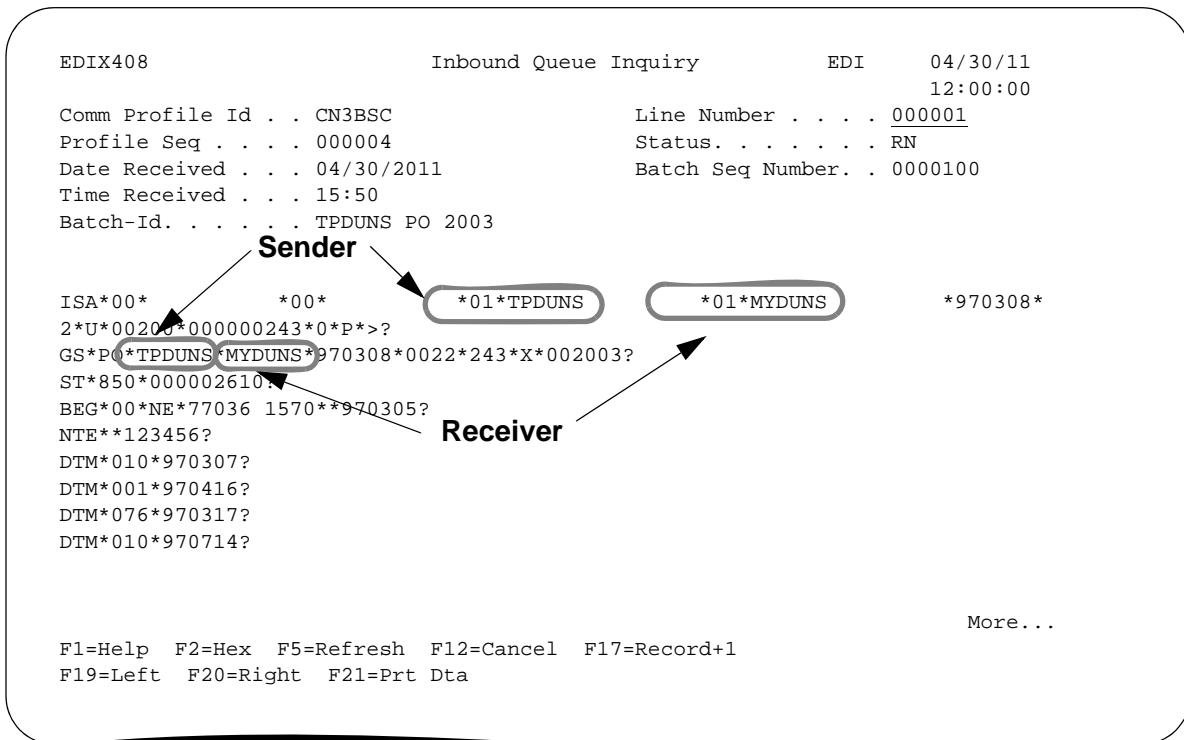


Figure 4.6 Inbound Queue Inquiry illustrating the Sender and Receiver IDs

This is the actual EDI data that is extracted and used as input to the processing run. The data is stored in the inbound queue under the Comm Profile ID, CN3BSC. To display the data, use Option ‘5’ (View) next to the specific batch of data on the Work with Inbound Queue panel (EDIX407-FMT01).

Notice the Receiver ID and Sender ID in the ISA and GS segments in the figure above. These are the IDs used when trying to resolve the receiver or sender on the Partner File as previously described. The Receiver ID (MYDUNS) is used if the Split by Partner global parameter is ‘N’; otherwise, the Sender ID (TPDUNS) is used.

The following figure shows how Sterling Gentran:Server resolves the Receiver ID. The X-Ref value, which is MYDUNS, references the actual partner called MYCOMPANY. The same method is used for resolving the Sender ID.

```

EDIX008                      Partner Cross Reference          EDI    04/30/11
CTL01                                                      12:00:00

Partner ID . . . . . MYCOMPANY
Qualifier. . . . .
Partner Name . . . . . MYCOMPANY (for inbound splitting)
Position to X-Ref . . . . . _____
Type option, press Enter.
    4=Delete

Opt X-Ref              Qual
___ MYDUNS             ___
___ MYDUNS             01
___
___
___
___
___
___
___
___
___

F1=Help  F4=Prompt  F5=Refresh  F10=Update  F12=Cancel  F13=Services  More...
```

Figure 4.7 Partner Cross References used to Resolve the Receiver ID

### Receiver Method

When Sterling Gentran:Server attempts to find the Receiver ID (GS03 for X12 data) in the Partner file, it uses the Partner Cross Reference file. It does this because the value in the GS03 is different than the Partner ID used to define the receiver in our example. In this example, the partner will be found due to the cross reference entries that were set up.

### Sender Method

When Sterling Gentran:Server attempts to find the Sender ID (GS02 for X12 data) in the Partner file, it uses the Partner Cross Reference file as well.



### CAUTION

If the partner cannot be resolved, the next step (retrieval of splitting instructions) is skipped. In this situation, all the data passed out of the Editor is placed in the Slide file.

The Inbound Editor Report in the following figure shows a scenario where splitting is based on the receiver. If no split file is indicated, the data may have gone to a sub-split file if set up, or the slide file.

```

EBDI001 RUN 04/30/11 TIME 12:00:00 EDITOR INBOUND PROCESSING REPORT PAGE 1
ERROR RECORD SEG ELT/COMP
NUMBER NUMBER ID NBR INFORMATION ERROR MESSAGE
INTERCHANGE = TDMISA
2 ISA PARTNER DIRECTED OUTPUT TYPE = ISA ONTROL # = 000000183 VERSION = 00400
2 ISA PARTNER VERIFICATION ID=TESTPARTNER QUAL=ZZ NOT FOUND
2 ISA INTCHG SEQUENCE CHECK ID=TDMISA QUAL= SUCCESSFUL
2 ISA LAST INCOMING INTERCHG CNTL NUMBER NOMENIC. ID=TDMISA QUAL= SUCCESSFUL
2 ISA GROUP SENDER QUAL CHECK ID=TDMISA QUAL= SUCCESSFUL
2 ISA GROUP QUALIFIER INFO SENDER= N QUAL=ZZ SUCCESSFUL
2 ISA GROUP RCVR QUAL CHECK ID=TESTPARTNER
2 ISA GROUP_QUALIFIER_INFO RECEIVER= N
2 ISA SPLITTING BY: USER (RECEIVER)
2 GS GROUP DIRECTED OUTPUT TYPE = FO ONTROL # = 000000069 VERSION = 004010
2 GS FILES: 0008 ID=TESTPARTNER QUAL=ZZ SUCCESSFUL

2 GS GROUP VERIFICATION ID=TDMISA QUAL= SUCCESSFUL
2 GS GROUP SEQUENCE CHECK ID=TDMISA QUAL= SUCCESSFUL
2 GS LAST INCOMING GS CONTROL NUMBER NOT NUMBER
TRANSACTION = TYPE = 850 ONTROL # = 000000186 VERSION = 004010
3 ST TRANS DIRECTED OUTPUT ID=TESTPARTNER QUAL=ZZ NOT FOUND
3 ST TRANSACTION VERIFICATION ID=TDMISA QUAL= SUCCESSFUL
3 ST ACKNOWLEDGE GENERATE OFF
4 SE AUDIT TRANSACTION ADD ID=TDMISA QUAL= ADDED
4 SE TRANSACTION = TRANSACTION CONTROL = 000000186
*** AUDIT INDICATOR FOR 850 DOCUMENT = 123456789
TRANSACTION = TYPE = 850 ONTROL # = 000000187 VERSION = 004010
5 ST TRANS DIRECTED OUTPUT ID=TESTPARTNER QUAL=ZZ NOT FOUND
IBM
EBDI001 RUN 04/30/2011 TIME 15:24:58 EDITOR INBOUND PROCESSING REPORT PAGE 2
ERROR RECORD SEG ELT/COMP
NUMBER NUMBER ID NBR INFORMATION ERROR MESSAGE

```

Figure 4.8 Inbound Editor Report showing Receiver

## Editor Retrieves Splitting Instructions

The Editor retrieves splitting instructions. If Split by Partner is 'N', the "resolved" Receiver ID is read for data separation records that match the type of groups and transactions being processed inbound. When Split by Partner is 'Y', the resolved Sender ID is read.

At the group level, the GS01 Functional Group ID is used as the key. The Editor looks for a matching data separation record that was set up with a level of 'G' and Level ID equal to the same Functional Group ID.

At the transaction level, the ST01 Transaction Set ID is used as the key. The Editor looks for a matching data separation record that was set up with a level of 'T' and Level ID equal to the same Transaction Set ID.

```

EDIX051          Work with Partner Data Separation          EDI 04/30/11
FMT01           pgmlib: G3X6PGM      dtalib: G3X6DTA       12:00:00

Position to Partner ID_____ Qual_____ Level ID _____

Type option (and Information), press Enter.
  1=Create  2=Revise  3=Copy  4=Delete  5=View

Opt Partner ID          Qual L Level ID Split
---
--- INSPARTNER          T ORDTLR  0003
--- MYCOMPANY           G FA      0025
--- MYCOMPANY           G OG      0001
--- MYCOMPANY           T ORDERS  0002
--- MYCOMPANY           G PO      0001
--- MYCOMPANY           G TX      0006
--- MYCOMPANY           T 860    0005
--- TPCOMPANY           T 860

```

Bottom

```

Parameters or command
===> _____
F1=Help  F3=Exit  F12=Cancel  F15=Sort  F24=More Keys

```

Figure 4.9 Splitting Instructions Retrieved

The circled information is used to determine the level of splitting and the split file that is used.

In the example illustrated, the data separation record for PO is retrieved from the resolved Receiver ID, MYCOMPANY. This shows that data is placed in split file 1.

- If a match is found at the group or transaction level, the designated split file (values 1 to 80) coded on the data separation record is used. If more than one split file is designated, the data is duplicated into all the specified files.
- If a match is found at both the group and transaction levels, the transaction level overrides the group level.
- If a match is found and the Detail Report global parameter is set to 'Y,' a message is written on the Editor Report indicating the split file designated. The next figure shows the message that is written.
- If a match is not found at either level, the default file (Slide File) is used.

In the example below, purchase orders will be routed to split file 1.

```

EBDI001      RUN 04/30/11      TIME 12:00:00      EDITOR INBOUND PROCESSING REPORT      PAGE 1
ERROR RECORD SEG ELT/COMP
NUMBER ID NBR INFORMATION      ERROR MESSAGE
INTERCHANGE = C13579
2 ISA      PARTNER DIRECTED OUTPUT      TYPE = ISA      CONTROL # = 000000001      VERSION = 00400
                ID=123456789      QUAL=      NOT FOUND
2 ISA      PARTNER ACKNOWLEDGE      ID=C13579      QUAL=      SUCCESSFUL
2 ISA      ACKNOWLEDGEMENT INFO      INT=N      GROUP=T      ERROR=Y
2 ISA      PARTNER VERIFICATION      ID=C13579      QUAL=      SUCCESSFUL
2 ISA      GROUP SENDER QUAL CHECK      ID=C13579      QUAL=      SUCCESSFUL
2 ISA      GROUP QUALIFIER INFO      SENDER=      N
2 ISA      GROUP RCVR QUAL CHECK      ID=123456789      QUAL=      SUCCESSFUL
2 ISA      GROUP QUALIFIER INFO      RECEIVER=
                (RECEIVER)
GROUP = C13579      SPLITTING BY: USER
                TYPE = PO      CONTROL # = 000000001      VERSION = 004010
3 GS      GROUP DIRECTED OUTPUT      ID=123456789      QUAL=      NOT FOUND
3 GS      GROUP VERIFICATION      ID=C13579      QUAL=      SUCCESSFUL
TRANSACTION =      TYPE = 850      CONTROL # = 0001      VERSION = 004010
3 ST      TRANS DIRECTED OUTPUT      ID=123456789      QUAL=      SUCCESSFUL
3 ST      FILES: 0001
3 ST      TRANSACTION VERIFICATION      ID=C13579      QUAL=      SUCCESSFUL
3 ST      TRANSACTION GENERATE      ID=C13579      QUAL=      SUCCESSFUL
3 ST      ACKNOWLEDGE PARTNER GENERATE ON      FA 004010      997
209 5 SE      TC13579      CANNOT ADDITEM ITEM TO AUDIT FILE. IT DUPLICATES AN ITEM ALREADY ON FILE.
    
```

Figure 4.10 Splitting message printed on Inbound Editor Report for split files

## Direction Records for Data Written by Inbound Editor

The Inbound Editor writes a direction record (instruction for a later step) for each split file that the data is placed in. If a split file was not found, or the partner could not be found, the ###DIR instruction record is empty and the data is placed in the Slide file.

The Editor Inbound Processing Report indicates how many direction records were written and the split files that were referenced on those direction records. These are listed at the bottom of the report in the statistic information as illustrated in the figure below.

```
EBDI001  RUN  04/30/11      TIME 12:15  EDITOR INBOUND PROCESSING REPORT  PAGE  1

ERROR RECORD SEG ELT/COMP
NUMBR NUMBER ID  NBR    INFORMATION      ERROR MESSAGE

      DIRECTION RECORDS FOR SPLIT FILES:
      0001

      22 RECORDS READ
      21 SEGMENTS READ
      00 SEGMENTS SUSPENDED
      21 SEGMENTS WRITTEN
      00 ERROR RECORDS WRITTEN
      00 PASS THRU RECORDS WRITTEN
      01 DIRECTION RECORDS WRITTEN
      00 REJECT RECORDS WRITTEN
      27 RECORDS WRITTEN
      00 GENERATED ACKNOWLEDGMENT SEGMENTS WRITTEN
      00 EDITOR RETURN CODE
      00 MESSAGE CENTER RETURN CODE

      * * * END OF REPORT * * *
```

Figure 4.11 Statistics for Splitting on the Editor Inbound Processing Report

The job log also indicates these statistics. When the Error Report global parameter is set to 'N' and no errors are encountered, the Editor Processing Report is not generated. In this situation, you could review the job log for the statistics.



The following figure displays the portion of the job log that shows the Inbound Editor being invoked and the output messages that are listed.

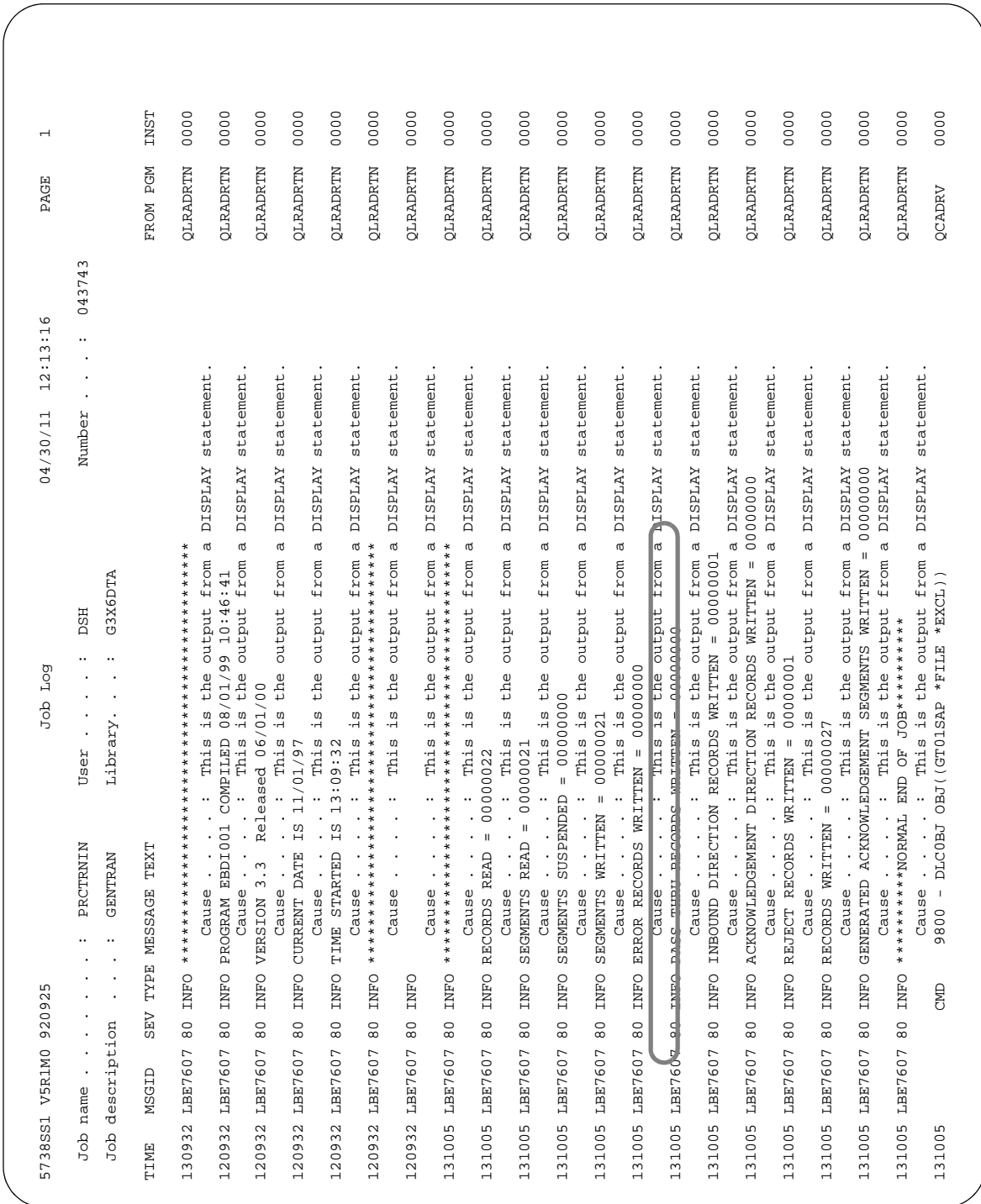


Figure 4.12 Job Log with splitting statistics from the Inbound Editor

## Data Placed in Split Files Based on Direction Record

The Splitter Program (EBDI015) is run as a subprocess of the Inbound Editor (or compliance checking) step. Based on the direction record(s) written by the Editor, data is placed in one of the 80 split files (GT1501 through GT1580), or in the slide file (GT1500). There are 80 sub-split files available within each of the split files, named GT15nn01 through GT15nn80, where “nn” represents the split file number.

There is no report generated as a result of running this step. However, the job log indicates the number of records written to each split file (illustrated in the next figure). Records written to the slide file are designated as “Non-Split File Records Written.”

Job name	Job Log	Page
5769SS1 V5R1M0 980729	ISDDEV01 04/30/11 12:00:00	13
Job description	User . . . . . : DSH	089247
MSGID	Library . . . . . : G3X6TSTDTA	
*NONE	PRCTRIN . . . . . : GENTRAN	
	SEV . . . . . : SEV	
	DATE . . . . . : 03/21/00	
	TIME . . . . . : 09:13:45	
	FROM PGM . . . . . : QCADRV	
	LIBRARY . . . . . : QSYS	
	INST . . . . . : 01A6	
	TO PGM . . . . . : EDCL008	
	LIBRARY . . . . . : G3X6PGM	
	INST . . . . . : 028A	
Command	Message . . . . . : 84600 - ADPPFM FILE(GT1500) MBR(M06020I)	
	Message . . . . . : 84700 - OVRDBF FILE(GT1500) MBR(M06020I)	
Command	Message . . . . . : 84700 - OVRDBF FILE(GT1500) MBR(M06020I)	
	Message . . . . . : 98700 - ADPPFM FILE(GT1501) MBR(M06020I)	
Command	Message . . . . . : 98700 - ADPPFM FILE(GT1501) MBR(M06020I)	
	Message . . . . . : 98800 - OVRDBF FILE(GT1501) MBR(M06020I)	
Command	Message . . . . . : 98800 - OVRDBF FILE(GT1501) MBR(M06020I)	
	Message . . . . . : 99600 - ADPPFM FILE(GT15SAP) MBR(M06020I)	
Command	Message . . . . . : 99600 - ADPPFM FILE(GT15SAP) MBR(M06020I)	
	Message . . . . . : 99700 - OVRDBF FILE(GT15SAP) MBR(M06020I)	
Command	Message . . . . . : 99700 - OVRDBF FILE(GT15SAP) MBR(M06020I)	
	Message . . . . . : 100000 - ADPPFM FILE(GT15RJP) MBR(M06020I)	
Command	Message . . . . . : 100000 - ADPPFM FILE(GT15RJP) MBR(M06020I)	
	Message . . . . . : 100100 - OVRDBF FILE(GT15RJP) MBR(M06020I)	
Command	Message . . . . . : 100100 - OVRDBF FILE(GT15RJP) MBR(M06020I)	
	Message . . . . . : 100800 - CALL PGM(EBDI015) /* The CALL command contains parameters */	
Information	80 03/21/00 09:13:46 QLRADRTN QSYS 0282 *EXT *EXT *N	
	Message . . . . . : *****	
Information	80 03/21/00 09:13:46 QLRADRTN QSYS 0282 *EXT *EXT *N	
	Cause . . . . . : This is the output from a DISPLAY statement.	
Information	80 03/21/00 09:13:46 QLRADRTN QSYS 0282 *EXT *EXT *N	
	Cause . . . . . : PROGRAM EBDI015 COMPILED 12.21.99 09:08:08	
Information	80 03/21/00 09:13:46 QLRADRTN QSYS 0282 *EXT *EXT *N	
	Cause . . . . . : This is the output from a DISPLAY statement.	
Information	80 03/21/00 09:13:46 QLRADRTN QSYS 0282 *EXT *EXT *N	
	Cause . . . . . : GENTRAN:Server Version 3.0 - Released 4/01/00	
Information	80 03/21/00 09:13:46 QLRADRTN QSYS 0282 *EXT *EXT *N	
	Cause . . . . . : This is the output from a DISPLAY statement.	
Information	80 03/21/00 09:13:46 QLRADRTN QSYS 0282 *EXT *EXT *N	
	Cause . . . . . : *****	
Information	80 03/21/00 09:13:46 QLRADRTN QSYS 0282 *EXT *EXT *N	
	Cause . . . . . : This is the output from a DISPLAY statement.	
Information	80 03/21/00 09:13:46 QLRADRTN QSYS 0282 *EXT *EXT *N	
	Cause . . . . . : This is the output from a DISPLAY statement.	
Information	80 03/21/00 09:13:46 QLRADRTN QSYS 0282 *EXT *EXT *N	
	Cause . . . . . : REJECT RECORDS WRITTEN = 00000000	
Information	80 03/21/00 09:13:46 QLRADRTN QSYS 0282 *EXT *EXT *N	
	Cause . . . . . : This is the output from a DISPLAY statement.	
Information	80 03/21/00 09:13:46 QLRADRTN QSYS 0282 *EXT *EXT *N	
	Cause . . . . . : NON-SPLIT RECORDS WRITTEN = 00000000	
Information	80 03/21/00 09:13:46 QLRADRTN QSYS 0282 *EXT *EXT *N	
	Cause . . . . . : This is the output from a DISPLAY statement.	
Information	80 03/21/00 09:13:46 QLRADRTN QSYS 0282 *EXT *EXT *N	
	Cause . . . . . : RECORDS WRITTEN TO SPLIT FILE 0001 = 00000033	
Information	80 03/21/00 09:13:46 QLRADRTN QSYS 0282 *EXT *EXT *N	
	Cause . . . . . : This is the output from a DISPLAY statement.	

Figure 4.13 Job Log indicating records written to split files by EBDI015

You can look at the contents of these split files by selecting the Inbound Split File Status Inquiry option from the Processing menu (GENPRC). The Split File Inquiry panel (EDIX260) is shown below.

To view the Suspense file, press **F14** (Suspense) on the panel. The total number of records in the first member of each split file and slide/reject file are shown. There are also additional levels of splitting, called “sub-splitting.” The sub-split files can also be accessed from this panel. If data resides in the sub-split files for a particular split file, the value ‘Y’ displays in the Sub-Split column. If the Sub-Split column is blank for a split file, no data exists in its sub-split files. You can clear any of the files or display the data in the files.

```

EDIX260                      Split File Inquiry                      EDI 04/30/11
CTL01                          12:00:00

Type option, press Enter.
  5=View  6=Print  11=Clear  12=Sub-split

Opt      File      Records      Sub-Split
---      ---      ---          ---
---      SLIDE      151
---      REJECT
---      1          60
---      2          93
---      3
---      4
---      5
---      6
---      7
---      8
---      9
---      10
---      11
---      12

F1=Help  F5=Refresh  F12=Cancel  F14=Suspense

More...
```

Figure 4.14 Split File contents

Type ‘5’ in the Option field and press **Enter** to display the split file contents.

The split files and the slide file are temporary files and are optionally cleared when processed through the Mapper. If an Application Data ID is specified on the inbound processing command (PRCTRIN) and the Clear Temporary Files parameter is ‘\*YES,’ then the split file is cleared at the end of processing.

If the Clear Temporary Files parameter is ‘\*NO,’ the next time data is processed, it is appended to the data left in the \*FIRST split file members from the last run.

A unique member is also added to the split file for each processing run. The unique member will be available to reprocess data for a specific run if the Clear Temporary Files parameter is set to \*NO. The unique member name created for each run is listed in the EBDI041 mapping report. In order to reprocess data for a specific run, copy the data in the desired unique split file member to the \*FIRST member.

If this parameter is set to '\*NO' and you do not want data to be appended, you need to do one of the following:

- Manually clear the \*FIRST split file member using the Processing menu (GENPRC) to select the option "Inbound Split File Status Inquiry" and use option '11' (Clear).

OR

- Use the Clear Physical File Member (CLRPFM) command to clear the \*FIRST member of each split file.



**NOTE**

When processing with this parameter set to \*NO, you must schedule regular maintenance of the split files. The RMVGENMBR command can be used to remove the unique split file members. (SEE the "Processing" chapter for more information about the RMVGENMBR command.)

The Process Transactions Inbound (PRCTRIN) panel is shown below with the Clear Temporary Files parameter.

```

Process Transactions Inbound (PRCTRIN)

Type choices, press Enter.

Comm Profile ID (Editor) . . . . CN3BSC      *NONE, *ALL, Comm Profile Id
      + for more values
Application ID (Mapper) . . . . SEMPOAPPL  *NONE, *ALL, Application Id
      + for more values
Mapper Debug Report? . . . . *NO          *YES, *NO
Clear Temporary Files? . . . . *YES      *YES, *NO
Acknowledgment Reports:
  Print Report? . . . . . *NO          *YES, *NO
  Split File . . . . . 00000      00000-00080, SLIDE
  Sub-Split File . . . . . 00       00-80
  Application File Member . . . . *FIRST  *FIRST, *UNIQUE
  Replace Data in App. Files? . . *YES    *YES, *NO
  Run Interactively? . . . . . *NO     *YES, *NO

                                           Bottom
F3=Exit   F4=Prompt   F5=Refresh   F10=Additional parameters   F12=Cancel
F13=How to use this display   F24=More keys
    
```

Figure 4.15 Process Inbound Transactions (PRCTRIN) panel with Clear Temporary Files parameter

## Mapper is Run

The Mapper (EBDI041) is run if the Application Data ID parameter on the Inbound Processing Command (PRCTRIN) was entered. The Mapper processes each Application Data ID that was entered on the processing command.

```

                                Process Transactions Inbound (PRCTRIN)

Type choices, press Enter.

Comm Profile ID (Editor) . . . .  CN3BSC          *NONE, *ALL, Comm Profile Id
      + for more values
Application ID (Mapper) . . . .  SEMPOAPPL        *NONE, *ALL, Application Id
      + for more values
Mapper Debug Report? . . . . .  *NO             *YES, *NO
Clear Temporary Files? . . . . . *YES          *YES, *NO
Acknowledgment Reports:
  Print Report? . . . . .        *NO             *YES, *NO
  Split File . . . . .           00000          00000-00080, SLIDE
  Sub-Split File . . . . .       00             00-80
Application File Member . . . . . *FIRST         *FIRST, *UNIQUE
Replace Data in App. Files? . . . *YES           *YES, *NO
Run Interactively? . . . . .    *NO             *YES, *NO

                                                                    Bottom
F3=Exit   F4=Prompt   F5=Refresh   F10=Additional parameters   F12=Cancel
F13=How to use this display   F24=More keys

```

Figure 4.16 Process Inbound Transactions panel (PRCTRIN) with Application Data ID parameter

The above figure shows the inbound processing command with the Application Data ID filled in for processing. Multiple Application Data IDs may be specified by typing a '+' in the field just below the Application Data ID and pressing **Enter**. A subsequent command panel lets you enter more Application Data IDs.

The Mapper (EBDI041) reads the data in the split file that was designated on the Application Data ID panel (EDIX552) for the Application Data ID being processed. If no split file was entered on the Application Data ID panel (EDIX552), the Mapper reads the Slide file as input.

If, during Inbound Processing (PRCTRIN), both the Comm Profile ID and the Application ID are specified, the Mapper reads the data from the unique member created in the split file for the run. If only the Application ID is specified, the Mapper reads the data from the \*FIRST member of the split file.

The following figure shows the field that is used in determining the input file for the Mapper. In this example, the Mapper reads split file 1 for input data when processing the Application Data ID called 'SEMPOAPPL.'

EDIX552	Application Definition	EDI	04/30/11
FMT01			12:00:00
Application ID . . . . .	SEMPOAPPL		
Send or Receive. . . . .	R		
Division . . . . .	000		
Description. . . . .	INBOUND PO		
Functional Groups. . . . .	PO		
	OG		
File Type. . . . .	P		
EDI Split File . . . . .	00001		
EDI Sub-Split File . . . . .			
Record Type Start Position . . . . .			
Length . . . . .			
Application File . . . . .			
Update Allowed . . . . .	Y		
F1=Help F12=Cancel F13=Services F24=More Keys			

Figure 4.17 Application Definition panel (EDIX552-FMT01)

If the input file is empty, message #676 is printed on the Mapper Inbound Processing Report indicating that the input file was empty, as shown in the following figure.

Optionally, if the input EDI file could not be opened (occurs if you process the editor and mapper in the same run and no data was written to the split file member being read), message #685 is printed on the Inbound Mapper report. This error still indicates the input file is empty, except the unique member wasn't added and, therefore, could not be opened.

If a sub-split file is used, specify both the split file and the sub-split file to be read as input to the Mapper.

```

EBDI041  RUN  04/30/11    TIME 12:21    MAPPER INBOUND PROCESSING REPORT    PAGE 1

ERROR **RECORD**          FIELD SEG ELE
NUMBR  NBR ID            SEQ # ID  SEQ INFORMATION  ERROR MESSAGE

INTERMEDIATE FILE MEMBER NAME - M142055001

676 0000000            0000000    000          EDI INPUT FILE IS EMPTY

PROCESSING ENDED WITH ERRORS - PROCESSING COUNTS BELOW

                                EDI RECORDS READ -----          0
                                EDI RECORDS SUSPENDED -----         0
                                APPLICATION RECORDS WRITTEN ----         0
                                RETURN-CODE FOR MAPPING -----         8
                                MESSAGE CENTER RETURN CODE-----        12

```

Figure 4.18 Mapping Report with empty Input File message

If it was determined that the Editor wrote records but the input file to the Mapper is empty or could not be opened, the user should review the following:

- Any printed messages that indicate where the data should have been written. Messages display if the Detail Report global parameter was used for the Editor Processing Report.
- The job log, to determine where the data was actually written.
- The Application Data ID from mapping integration, to determine the split file (and sub-split file, if used) that was designated as the input file to be read.



---

## Outbound “Splitting”

There is no data separation or splitting for outbound processing since the Communication subsystem is fully integrated into Sterling Gentran:Server by way of the Partner file. Data is routed based on the Communication Profile ID associated with your trading partner.

The Outbound Mapper (EBDI042) uses the Comm Profile ID parameter (COMPRF) from the PRCTRNOU command to initially determine how to route the data. If \*PARTNER is specified, the Comm Profile ID from the interchange (control) or group record for each resolved partner is used to build a \$\$ADD internal instruction record (used later in the process flow) to route the data to the outbound queue. If a Comm Profile ID is specified on the PRCTRNOU command, all data for the run is routed to that specific profile on the outbound queue. In this case, all Comm profile information defined in the partner profiles is ignored.

If the COMPRF parameter is \*PARTNER, the mapper looks at the Group Comm Profile switch on the partner’s interchange record to determine if data should be routed based on a Comm Profile ID at the group level. If ‘Y’, the group record for the data being sent is looked up for the partner and used if valid. If ‘N’, the group record is not looked up and the Comm Profile ID at the interchange is used.

When the COMPRF parameter is not \*PARTNER, the Outbound Enveloper (EBDI056, subroutine of the mapper) overrides the Comm Profile ID found on the partner profile.

The Outbound Editor (EBDI002) loads the data into the outbound queue under the Comm Profile ID that was placed on the \$\$ADD record from the Partner file. If the Comm Profile ID was blank, the data is loaded to the Comm Profile ID called ‘DEFAULT.’ When setting up the Partner ID, press **F4** (Prompt) on the Comm Profile ID for a list of available profiles that can be used. Sterling Gentran:Server supplies predefined profiles for the major EDI networks. (SEE the “Using Communications” chapter in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 Communications Guide* for more information about Comm Profile IDs.)

The following figure illustrates how the Comm Profile ID can be overridden by the Outbound Enveloper for all partners processed in the run. If the Comm Profile ID is \*PARTNER, the profile defined on the partner definition is used; otherwise, the override Comm Profile ID on the command is used.

```

Process Transactions Outbound (PRCTRNOU)

Type choices, press Enter.

Application Data ID . . . . . _____ Character value
      + for more values _____
Mapper Debug Report? . . . . . *NO      *YES, *NO
Clear Temporary Files ? . . . . . *YES    *YES, *NO
Application File Member . . . . . *DEFAULT *DEFAULT, Name
Run Interactively? . . . . . *NO      *YES, *NO

Additional Parameters

Process Name . . . . . PRCTRNOU
Editor Detail Report? . . . . . *GLBPRM *GLBPRM, *YES, *NO
Print Parameters Report? . . . . . *NO      *YES, *NO
Suspend Blank Appl. Partner? . . . . . *YES     *YES, *NO
Comm Profile ID . . . . . CN3BSC *PARTNER, Profile ID

More...
F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
    
```

Figure 4.19 Override the Comm Profile ID

The following figure shows the Comm Profile ID, which identifies where all outbound EDI data should be routed for this Partner ID. The Group Profile flag is 'N' in this case.

```

EDIX012          Partner Control          EDI 04/30/11
FMT01                                12:00:00

Partner ID . . . . . TPCOMPANY
Partner Qualifier . . . . .
Partner Name . . . . . Trading Partner Example Company
Division . . . . . 000
Interchange Header Option . . . . . ISA
Last Incoming Sequence Number . . . . . 000000005
GS Sender ID Qualifier . . . . . N
GS Receiver ID Qualifier . . . . . N
Expect a TA1, AC1, or UCI . . . . . N
Acknowledge Interchange . . . . . N
Acknowledge Group or Trans . . . . . T
Acknowledge Errors . . . . . Y
Purge Acknowledged . . . . . N
Purge Reported . . . . . N
Purge Older Than Days . . . . .
Last Incoming BG Password _____ Set 209 Error . . . . . N
Comm Profile ID . . . . . CN3BSC Group Profile ID . . . . . N
Last Incoming UNB/STX Seq. No. . . . . Update Allowed . . . . . Y

F1=Help  F4=Prompt  F10=Update  F12=Cancel  F24=More Keys
    
```

Figure 4.20 Identify the Comm Profile ID for Outbound Data

The following figure shows how the Comm Profile ID is determined when the Group Profile ID flag is 'Y' on the Partner Interchange record.

```

EDIX031                      Partner Group                      EDI 04/30/11
FMT01                          12:00:00

Partner ID . . . . . TPCOMPANY
Partner Qualifier . . . . .
Partner Name . . . . . Trading Partner Example Company
Group ID . . . . . IN

Compliance Version . . . . . 004010
Compliance Version Use . . . . . D
Accept Group Inbound . . . . . N
Send Group Outbound . . . . . Y
Group Ack Trans. . . . .
Expect an AK1, B5 or UCF . . . . . Y
Last Incoming Control Number . . . . .
Comm Profile ID. . . . . CN3BSC
Acknowledge Specific Group . . . . . N

F1=Help  F4=Prompt  F10=Update  F12=Cancel  F24=More Keys
    
```

Figure 4.21 Determine the Comm Profile ID

During outbound processing, EDI data is placed in the outbound queue under the Comm Profile ID specified for the partner. In this scenario, all data is place on the outbound queue under the Comm Profile ID of CN3BSC.

```

EDIX404                      Work with Outbound Queue Control          EDI 04/30/11
FMT01                          pgmlib: G3X6PGM          dtalib: G3X6DTA          12:00:00

Position to Profile ID . . . . . CN3BSC          Profile Seq 9999999

Type option (and Information), press Enter.
  2=Revise  4=Delete  5=View  6=Print  30=Extract Data  31=Find String

          Profile
Opt Profile  Sts   Seq #   Date       Time       Records   Comm   Batch  Batch
          Seq #   Date       Time       Records   Stamp   Seq #   ID
-----
___ CN3BSC   Q     189   03-14-04   14:17:26    4         243
___ CN3BSC   Q     188   03-14-04   14:17:26    4         242
___ CN3BSC   Q     187   12-13-04   11:40:20    3         241
___ CN3BSC   Q     186   12-13-04   11:40:20    4         240
___ CN3BSC   Q     185   12-11-04   14:28:01    4         239
___ CN3BSC   Q     184   12-11-04   14:28:01    4         238
___ CN3BSC   Q     183   12-11-04   14:28:01    4         237
___ CN3BSC   Q     182   05-25-04   14:22:42    4         236
___ CN3BSC   Q     181   05-25-04   14:20:18    4         234

More...

Parameters or command
===>

F1=Help  F3=Exit  F12=Cancel  F15=Sort  F24=More Keys
    
```

Figure 4.22 Outbound Queue Control panel (EDIX404-CTL01)

## Common Questions

### When does the system perform splitting?

Splitting occurs during inbound processing prior to mapping. There is no need for splitting during outbound processing due to the integrated communications module in Sterling Gentran:Server. However, this chapter reviews splitting for inbound and outbound to help show the parameters that affect the routing of data for both directions.

### Should I use splitting? What happens if I do not use it?

Although splitting is not required, it is *highly recommended*. Splitting improves the efficiency and throughput of the Mapper. It also enables you to trap unexpected documents, and it allows for better error recovery of documents trapped. If splitting is not set up, all of the documents are placed in the default file called the “Slide file.” Splitting should be used, even if you are receiving only one document (transaction set).

## In this Chapter

This chapter is intended for the EDI Coordinator. The information here builds on the “Global Parameters” chapter, so please be sure you are familiar with that material before you begin this chapter. These two chapters overlap slightly to reinforce key points that are critical to your understanding of both the global parameters and the System Considerations. The shared information ensures thoroughness and completeness in this chapter, which covers the following topics:

- What are System Considerations? . . . . . 5-1
- Editors . . . . . 5-2
- Error Rejection . . . . . 5-4
- Acknowledgments . . . . . 5-10
- Concurrent Processing . . . . . 5-19
- Network Reconciliation . . . . . 5-29
- User Exit Layout and Examples . . . . . 5-49
- CL Example . . . . . 5-60

## What are System Considerations?

Once you become experienced with Sterling Gentran:Server, you may want to take advantage of some features that enhance system throughput. System considerations are operational controls for fine-tuning your EDI system. This includes adjustments to the global parameters and User Exits (both RPG and COBOL).

## Editors

The heart of the Sterling Gentran:Server system is the two Editors. The Inbound and Outbound Editors are responsible for validating data formats, compliance checking data to standards, sequence checking for incoming control numbers, audit controls, acknowledgments, instruction records for data splitting, error rejection, and data compression for outbound processing.

Through the use of the Global Parameters file, the Partner file, and the System Configuration file, the Editors allow for the following:

## Edit Controls

Compliance checking is performed against a file that contains all standards versions and transactions selected previously using “Transactions-in-Use”. You, however, control whether the data is rejected or accepted when it does not meet standards. Partner IDs can be verified against your Partner file to enhance security prior to processing the data. Unidentified versions can be processed as standard versions through the use of global parameters. This added flexibility allows you to process non-standard data, when necessary.

## Duplicate Data Detection

To make you aware of duplicate data being processed, Sterling Gentran:Server offers audit controls. Based on the level of control selected, Sterling Gentran:Server will maintain an audit trail of activities. The level of Audit control is set through the Audit global parameter records. Should a duplicate be detected, Sterling Gentran:Server will alert you through an error message. You have the flexibility to reject or accept the duplicate using controls/parameters in the Partner file. Error Rejection can be done globally or by individual trading partners.

## Sequence Checking

Sterling Gentran:Server will help you track your inbound transactions by sequence checking the interchange and group control numbers. For each trading partner, you can set up incoming control numbers. These numbers can be checked and updated each time you receive data. If a control number is out of sequence (that is, if it is not equal to the previous control number + 1), Sterling Gentran:Server will alert you through an error message. You control whether to accept or reject the out-of-sequence condition. Sequence checking is a combination of the global and partner parameters.

## Acknowledgments

Sterling Gentran:Server offers the capability to generate or receive acknowledgments with your regular EDI data. Flexibility is maintained by allowing acknowledgments to be generated at different levels: interchange, group, and/or transaction. Further control is possible by giving you a choice of setting the level globally or by individual trading partners. An audit trail can be maintained for acknowledgments through the Audit feature. There are different methods that can be used to generate acknowledgments. (SEE the “Acknowledgments” section later in this chapter for details on the generation process.)

## Output Processing

Sterling Gentran:Server allows for flexible handling of the Editor's output. For inbound processing, data may be marked for splitting at the group or transaction level. If no splitting is desired, Sterling Gentran:Server enables you to use the default (Slide) file. The Editors only mark data for splitting. The actual splitting occurs in a separate program (EBDI015).

## Error Rejection and Suspense

Sterling Gentran:Server will save all data that has been input to the Editors. Errors on the processing parameters or in the data will cause Sterling Gentran:Server to place the data into a suspense file. This allows you the ability to correct and later re-submit the data back into the Editors. Other types of errors will, if selected, be “marked” for rejection. The actual rejection of data occurs in a separate program (EBDI015). Rejected data may not be reprocessed.

## Compression

For outbound processing, Sterling Gentran:Server gives you the flexibility of compressing the data for transmission. This includes functional acknowledgments generated during inbound processing. To meet your processing needs, Sterling Gentran:Server offers several levels of compression available through the Global Parameters file. Compression is a useful feature for minimizing communication connect time.

## Error Reporting

By default, Sterling Gentran:Server generates a processing report to indicate whether or not errors exist in the data. The Global Parameters file offers the option of generating an error report only when errors exist.

## Audit Tracking

In Sterling Gentran:Server, you have the option of logging processed EDI data into the Audit file, depending on global parameter settings in the Inbound and Outbound Editors. Data can be logged at interchange, group, and transaction levels. By default, the data is logged using the Partner ID (resolved sender ID for inbound data and resolved receiver ID for outbound data). You can also log the data by combining the User ID and Partner ID in a relationship mode.

---

# Error Rejection

The following scenario describes an example of the Error Rejection process:

Company A is receiving an invoice from Company B. Company A has guaranteed its invoice application department that EDI transmitted invoices will have all mandatory elements coded before they are presented for processing. Sterling Gentran:Server Error Rejection will ensure that the data is complete.

To guarantee these results, the user sets up error rejection at the transaction level for inbound invoices, using the error message code of '0062' (missing mandatory element), and specifying inbound rejection.

When Company B transmits an invoice to Company A, the Inbound Editor will do its normal compliance checking against the standards table. During compliance checking, if a mandatory element is found that is not coded, the data will be marked for rejection, due to the error rejection setup described in the last paragraph. The Inbound Editor does not reject the data at this time. Its only purpose is to mark the data that should be rejected.

After the Inbound Editor completes its processes, the inbound split program will separate the good data from the data marked for rejection. In our scenario, the split program will remove the transactions in error from the good data being passed to the invoicing application and write them to the Reject File. The end result is that only the good data is processed by the invoice application. In this scenario, Company B should re-transmit the corrected data to Company A.

The same process described in this scenario can be performed for outbound documents. The Sterling Gentran:Server Outbound Editor will detect errors using compliance checking. When these errors occur, the data will be marked. The data will be placed on the outbound queue and marked with the status of 'QE' (Queued with Errors). You can then examine or purge the bad data.

A batch is also marked as 'QE' if the interchange is partial (a header without a trailer or vice versa) or is empty (contains no functional groups, transactions, or segments). The batch is rejected internally to prevent errors during network processing.

When using the Sterling Gentran:Server Error Rejection feature, the Inbound and Outbound Editors use information from the Global Parameters file, the Partner file, and the Error Messages file to determine what action to take when compliance errors occur.

To use Error Rejection, you must use the online global parameters maintenance feature to indicate Error Rejection: "Y". This indicator tells the system that Error Rejection is being used. The system will in turn use the Error Messages file and the Partner file to determine exactly which actions to take.

In addition, Partner file error rejection records must be coded in the following manner:

- To reject inbound data, create error rejection records for the Sender ID of the interchange or group being received.
- To reject outbound data, create error rejection records for the Receiver ID of the interchange or group being sent.



The information in the partner error rejection record indicates the level (partner, group, or transaction), the specific error number, and whether this error is to be rejected inbound, outbound, or both.

(SEE Chapter 3, “Partner,” in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide* for more information on Error Rejection. SEE Chapter 1, “Using Communications,” in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 Communications Guide* for more information on the “Queued with Errors” status.)

## Partner IDs for Error Rejection

Your first choice when setting up Error Rejection is whether to set it up using the Global Partner ID, !GENTRAN-RESERVED-PARTNER-ID-1, or to set it up on an individual partner basis.

Using the Global Partner ID will put your error rejection records in effect for ALL partners. For example, if you set up an error rejection record coded for error number '0062' (missing mandatory element), transaction 875 (purchase order), and reject inbound, the system will reject an 875 transaction set whenever an error '0062' occurs, regardless of which Partner ID is coded on the group.

Using individual Partner IDs allows you to control Error Rejection for each specific partner. Using the example described above, when an error '0062' occurs in an 875 transaction, the system reads the error records for the Partner ID within the interchange to determine if the transaction should be rejected and takes the specified action.



### NOTE

You cannot set up an Error Rejection record for both the Global Partner AND each individual partner. The system will default to the most recently added record.

## Levels of Error Rejection

The Sterling Gentran:Server system provides the customer with the ability to control Error Rejection at the following three levels for inbound and outbound processing.

### Partner Level (Interchange)

This level specifically refers to errors at the interchange header/trailer level for inbound and outbound levels. It allows the user to control errors that occur ON the interchange header/trailer segments.

### Group Level

Group ID is the key to the Partner file for this level, specifically referring to errors at the group header/trailer level for inbound and outbound levels. It allows the user to control errors that occur ON the group header or trailer segments. When using the group level you have the option of coding this record for a specific group (that is, purchase orders or invoices) or for all groups. To code the partner error record for a specific group, enter the specific functional group ID (for example, PO, IN) into the Level ID field. To code the partner error record for all groups, code the Level ID field with 'ALL.' The effect of coding 'ALL' causes the system to perform the indicated action (reject inbound or

---

outbound) without regard to the type of group header functional ID that is in the inbound or outbound data. The coding of specific group functional IDs allows you to control error rejection on a group by group basis.

### Transaction Level

Transaction ID is the key to the Partner file for this level, specifically referring to errors at the transaction set level for inbound and outbound. It allows the user to control errors that occur on any segments WITHIN the transaction header and trailer segments. When using the transaction level you have the option of coding this record for a specific transaction (that is, 875 or 880), or for all transactions. To code the partner error record for a specific transaction, enter the transaction ID into the Level ID field. To code the partner error record for all transactions, code the Level ID field with 'ALL.' The effect of coding 'ALL' causes the system to perform the indicated action (reject inbound or outbound) no matter what type of transaction set ID is in the inbound or outbound data. The coding of specific transaction set IDs allows you to control error rejection on a transaction-by-transaction basis.

## Error Numbers in Error Rejection

Each error rejection is identified by a number. Errors which can be rejected are determined by their identifying number. (SEE the "System Messages" chapter for a description of every error.) When the system is processing inbound or outbound data and a compliance error occurs, the action taken when using Error Rejection is determined by whether that error number has a corresponding partner error record. Each error you wish to control must have a corresponding partner error record.



---

### NOTE

By default, Sterling Gentran:Server treats compliance errors as warning messages unless specific error rejection is set up.

---

## Direction Control in Error Rejection

Sterling Gentran:Server batch provides two control fields that enable you to determine the action for each specific error: inbound rejection and outbound rejection. You can control each error number and its corresponding action separately for inbound and outbound processing. You can also set up an error number and its corresponding action for both inbound and outbound processing on the same error record. The inbound rejection field for each error controls whether it is rejected on incoming data. The outbound rejection field for each error controls whether it is rejected on outgoing data. Valid values are 'Y' (Yes) and 'N' (No).

## Error Message File

The Sterling Gentran:Server Error Message file (GT00EMP) contains all compliance error messages issued during the Inbound and Outbound Editor processing. The error message file contains each error number, its error message, and two special Partner file fields, Reject Inbound and Reject Outbound, that include three levels used by the Error Rejection feature.

## Error Rejection Numbers

This section is included to assist you in setting up Error Rejection. The lists that follow include the inbound and outbound processing error numbers used by Sterling Gentran:Server. It is up to YOU to choose which errors are important for your processing. (SEE the “System Messages” chapter for more details on error messages.)

**Error Rejection Numbers – Inbound**

**Error Numbers at the Partner Level**

ICS	ISA	BG	GS	EDIFACT
20	21	21	21	21
21	22	22	22	22
22	78	142	207	142
23	142	207	218	207
24	207	218	532	859
25		219	533	860
26		220	534	861
29		380	535	862
40			536	863
41			538	864
42				
43				
44				
78				
142				
207				
221				

**Error Numbers for all Interchanges**

20,45,46,67,183,209,354,355,356, 859

**Date and Time Error Numbers**

32,34,35,36,37,38,39,83, 691

**Error Numbers at the Group Level**

47,48,49,55,67,141,195, 209,562, 860, 861

**Error Numbers at the Transaction Level**

50,51,52,53,54,57,60,61,62,63,64,65,67,79,80,81,82,84,85,86,87,88,89,90,91,92,  
93,131,140,145,146,147,209,326,327,385,386,387, 861, 862, 863, 864, 865

**Error Rejection Numbers – Outbound****Error Numbers at the Partner Level**

ICS	ISA	BG	GS	EDIFACT
20	21	21	21	21
21	22	22	22	22
22	78	142	207	142
23	142	207	218	207
24	207	218	532	859
25		219	533	860
26		220	534	861
27		380	535	862
28			536	863
29			538	864
40				
41				
42				
43				
44				
142				
207				

**Error Numbers for all Interchanges**

10,20,45,46,67, 183, 209, 859

**Date and Time Error Numbers**

32,33,34,35,36,37,38,39,83, 691

**Error Numbers at the Group Level**

48,49,67,141, 195, 209, 562, 860, 861

**Error Numbers at the Transaction Level**

52,53,54,57,60,61,62,63,64,65,67,79,80,81,82,84,85,86,87,88,89,90,91,92,93,130,131,140,145,146,147,209,326,327,385,386,387,561, 861, 862, 863, 864, 865

---

# Acknowledgments

<b>SENT</b>	You send an acknowledgment in response to a document you have received from a trading partner. The acknowledgment can indicate when the document was received, if it was accepted or rejected, and if rejected, what specifically was incorrect.
<b>RECEIVED</b>	You receive an acknowledgment in response to a document you send to a trading partner. The acknowledgment can indicate when the document was received (by the trading partner), if it was accepted or rejected, and if rejected, what specifically was incorrect.

The EDI acknowledgment process permits multiple levels of acknowledgments to and from your trading partners. You and your trading partners must determine what level of acknowledgments to use. The acknowledgment feature of Sterling Gentran:Server provides you with the ability to automatically generate acknowledgments at four levels: interchange, group, transaction, and error.

- The **interchange level** provides acknowledgments for an interchange which may contain many groups and transactions.
- The **group level** provides acknowledgments for each individual group within an interchange and may contain many transactions.
- The **transaction level** provides an acknowledgment for each individual transaction within an interchange.
- The **Error level** defines the amount of detail you will send when errors are found in a document you have received from a trading partner. The EDI acknowledgment process will allow you to say the interchange was in error, the group was in error, or the transaction was in error – without any details. Optionally, you can indicate the specific errors.

## Acknowledgment Generation

Once it is determined that acknowledgments should be generated, there are two methods of generating the acknowledgments:

- Acknowledgments with envelopes
- Acknowledgments with CNTL records

### Acknowledgments with Envelopes

This is the “original” method of creating acknowledgments within Sterling Gentran:Server. The Inbound Editor builds the envelopes (interchange/group/transaction) and the acknowledgment segments. The input Sender and Receiver IDs are reversed for the acknowledgment envelopes. For 997 acknowledgments, the version can be changed on the acknowledgment document from the input version received. To accomplish this, add the FA functional Group ID under the input Sender ID on the partner profile and place the version you want for the acknowledgment envelope in the

outbound (GS08) version and controlling agency fields. The authorization and security codes will be changed on the returning acknowledgment envelopes if the ISA01 and ISA03 qualifiers on the incoming envelopes are both not '00.'

---

 **NOTE**

For 999 acknowledgments, which are valid only with the old TDCC standards, the first character of the version is replaced with a 'G' for 'General' version. For example, U3/0 would become G3/0 on the 999 acknowledgment.

---

### Acknowledgments with CNTL Records

An alternate method of creating acknowledgments is the CNTL method. In this method, the Inbound Editor creates control records (CNTL records using the resolved sender ID) rather than the actual interchange/group/transaction envelopes. The resulting acknowledgment file goes through the envelope generation program (EBDI011A) in the inbound processing (PRCTRIN) flow. This method is very flexible because you can choose any envelope type you want to send back to your partner. With this method, you can change version numbers, change security and/or authorization codes, and use a different sender and receiver than the one you originally received. To create this method of acknowledgment generation, activate the global parameter 'Use CNTL for Acknowledgments.'

## Global Parameters and Acknowledgments

The global parameters feature enables you to set the level of acknowledgments to be generated by the system. You can set the following parameters:

- Acknowledge Interchange
- Acknowledge Group
- Acknowledge Transaction
- Acknowledge Error
- Partner Acknowledge

---

 **NOTE**

The global parameters for acknowledgments can only be used if the processing parameter, Generate Acknowledgments (ACK), on the Process Transactions Inbound (PRCTRIN) command is set to \*GLBRM. If \*NO is specified, parameters are inactive.

---

After activating the processing parameter Generate Acknowledgements (ACK) on the PRCTRIN command (by specifying \*GLBPRM), the following acknowledgment global parameters are active.

## Acknowledge Interchange

This parameter forces an interchange acknowledgment for ALL partners. The Partner file and the incoming interchange itself have no effect. The following table lists the acknowledgments generated by Sterling Gentran:Server at the interchange level.

Interchange Level Acknowledgments	
If Interchange begins with control segment below	Acknowledgment generated (if requested)
ISA	TA1
ICS	AC1
UNA or UNB	CONTRL
BG	None (no acknowledgments defined for standards which use BG)

### NOTE

On the ISA interchange control segment, the Acknowledge Requested field (ISA14) can contain a "1", which means the trading partner is requesting an interchange acknowledgment; or a "0", which means they are not. If this field contains a "1", Sterling Gentran:Server will generate a TA1 acknowledgment regardless of the contents of the global parameters or the Partner file. (SEE the "Controlling Inbound Interchange Acknowledgments" section, page 5-17, for more detail.)

## Acknowledge Group

This parameter forces a group acknowledgment for ALL partners. The Partner file has no effect. The following table lists the acknowledgments generated at the group level by Sterling Gentran:Server for various document types.

Group Level Acknowledgments		
Document Type	Acknowledgment generated (if requested)	Segments
X12, UCS	997 (unless 'Generate Record' global parameter is used to request a 999 acknowledgment for a specific incoming version)	997 contains AK1 and AK9 999 contains B5
EDIFACT	CONTRL	UCI (and UCF if UNG segment is received)



## Acknowledge Transaction

This parameter forces a transaction acknowledgment for ALL partners. The Partner file has no effect. The following table lists the acknowledgments generated at the transaction level by Sterling Gentran:Server for various document types.

Transaction Level Acknowledgments		
Document Type	Acknowledgment generated (if requested)	Segments
X12, UCS	997 (unless 'Generate 999 For' global parameter is used to request a 999 acknowledgment for a specific incoming version)	997 contains AK1, AK2, AK5, and AK9 999 contains B5
EDIFACT	CONTRL	UCI and UCM (and UCF if UNG segment is received)

## Acknowledge Errors

This parameter will force acknowledgments for all partners at all levels when an error is detected. The Partner file and other acknowledgment global parameters have no effect. The following table lists the acknowledgments generated at the error level by Sterling Gentran:Server for various document types.

Error Acknowledgments		
Document Type	Acknowledgment generated (if requested)	Segments
X12, UCS	997 (unless 'Generate 999 For' global parameter is used to request a 999 acknowledgment for a specific incoming version)	997 contains AK3 or AK4 999 contains A1 If error is at interchange level, TA1 or AC1 will also be generated
EDIFACT	CONTRL	UCS and UCD

## Using the Partner Acknowledge Parameter

This parameter causes the system to read the Partner file control record to determine how to handle acknowledgments. If acknowledgments are to be controlled entirely at the partner level, type "N" for all four acknowledgment levels (Interchange, group, transaction, and error).

---

## Partner File and Acknowledgments

When the Partner Acknowledge global parameter is activated, the acknowledgment fields in the Partner file are evaluated. The Partner file control record for each partner includes three fields that affect how acknowledgments are handled. The fields are located on the first panel of the control record.

### Ack Interchange

This parameter on the Partner File control record is similar to the global parameter ACKNOWLEDGE INTERCHANGE, but pertains only to a specific partner. Valid values are 'Y' or 'N.'

When controlling interchange acknowledgments at the partner level, coding this value to 'Y' causes an interchange acknowledgment for this partner to be generated. The acknowledgment generated (TA1, AC1, or UCI) will indicate the acceptance of the indicated interchange. Coding this value to 'N' eliminates generation of interchange acknowledgment for this partner.

### Ack Group or Trans

This parameter on the Partner file control record is similar to the global parameter ACKNOWLEDGE GROUP or ACKNOWLEDGE TRANSACTION, but pertains only to a specific partner. Valid values are 'G,' 'T,' or blank.

When controlling acknowledgments at the partner level, coding this value to 'G' causes a group acknowledgment to be generated (997 or 999 for X12 or UCS, CONTRL for EDIFACT). Coding the value to 'T' causes a transaction acknowledgment to be generated. The acknowledgments for the specified partner will always be generated. Coding this value to Blank eliminates generation of both group and transaction acknowledgments for this partner.

### Ack Errors

This field on the control record is similar to the global parameter ACKNOWLEDGE ERROR. Valid values are 'Y' or 'N.'

When controlling acknowledgments at the partner level, coding this value to 'Y' causes an acknowledgment at any level for the specified partner to be generated when errors occur. The acknowledgment generated will indicate the type of errors encountered. An X12 or UCS document will generate a 997 (containing the AK3 or AK4 segment), or a 999 (containing the A1 segment). An EDIFACT document will generate a CONTRL acknowledgment (containing the UCS and UCD segments).

## Impact of Coding Partner Acknowledgments

### Impact at the Interchange Level

Coding the Partner Control file for interchange acknowledgments (TA1, AC1, or UCI) will have the following results:

- Ack Interchange coded 'Y' and Ack Errors coded 'Y':

Will cause generation of an interchange acknowledgment ALWAYS. The interchange acknowledgment will either indicate everything was accepted or specify the error(s) encountered.

- Ack Interchange coded 'N' and Ack Errors coded 'Y':

Will cause generation of an interchange acknowledgment only when errors are encountered. The interchange acknowledgment will specify the error(s) encountered.

- Ack Interchange coded 'Y' and Ack Errors coded 'N':

Will cause generation of an interchange acknowledgment ALWAYS. The interchange acknowledgment generated will indicate acceptance.

- Ack Interchange coded 'N' and Ack Errors coded 'N':

Will eliminate the partners control record from having an impact on whether to generate an interchange acknowledgment.

### Impact at the Group Level

Coding the Partner Control file for group acknowledgments (997, 999, or CONTRL) will have the following results:

- Ack Group or Ack Trans coded 'G' and Ack Errors coded 'Y':

Will cause generation of a group acknowledgment ALWAYS. The group acknowledgment will either indicate everything was accepted or specify the error(s) encountered in the detail segments.

- Ack Group or Ack Trans coded Blank and Ack Errors coded 'Y':

Will cause generation of a group acknowledgment only when errors are encountered. The group acknowledgment will specify the error(s) encountered in the detail segments.

- Ack Group or Ack Trans coded 'G' and Ack Errors coded 'N':

Will cause generation of a group acknowledgment ALWAYS. The group acknowledgment generated will indicate acceptance or errors, but without the detail segments.

- Ack Group or Ack Trans coded Blank and Ack Errors coded 'N':

Will eliminate the partner's control record from having an impact on whether to generate a group acknowledgment.

### Impact at the Transaction Level

Coding the Partner Control file for transaction acknowledgments (997, 999, or CONTRL) will have the following results:

- Ack Group or Trans coded 'T' and Ack Errors coded 'Y':

Will cause generation of a transaction acknowledgment ALWAYS. The transaction acknowledgment will either indicate everything was accepted, or specify the error(s) encountered in the detail segments.

- Ack Group or Trans coded Blank and Ack Errors coded 'Y':

Will cause generation of an transaction acknowledgment only when errors are encountered. The transaction acknowledgment will specify the error(s) encountered in the detail segments.

- Ack Group or Trans coded 'T' and Ack Errors coded 'N':

Will cause generation of a transaction acknowledgment ALWAYS. The transaction acknowledgment generated will indicate acceptance or errors, but without the detail segments.

- Ack Group or Trans coded Blank and Ack Errors coded 'N':

Will eliminate the partner's control record from having an impact on whether to generate a transaction acknowledgment.

## Using Combinations of Global Parameter and Partner File Settings

The system allows combinations of global parameters and specific Partner file settings to determine acknowledgment processing. To set combination partner and global acknowledgments, code any of the combination of Acknowledge (level and/or error), with Partner Acknowledge set to: "Y". The system will default to the Partner file for those parameters which you have turned off.

- If the Global Parameters file is the only file containing acknowledgment information, the level of acknowledgment selected will be in effect for all trading partners.
- If the Global Parameters file is used in conjunction with the Partner file, the global parameters should contain the level of acknowledgments to always be generated. The Partner file would then contain additional level(s) of acknowledgments which would only be generated for a specific partner.
- If the Partner file is to be used exclusively, the Global Parameters file should have the acknowledgment parameters set to "N". All levels of acknowledgment would then be controlled on a partner-by-partner basis using the acknowledge fields in the Partner file.
- If acknowledged on a partner-by-partner basis, the Partner Acknowledgment global parameter must be set to "Y".

## Controlling Inbound Interchange Acknowledgments

In some interchanges, namely the ISA, a field exists on the interchange (ISA14) that indicates the request for an interchange acknowledgment. When the ISA14 field is '1,' an interchange acknowledgment is generated. When this field is '0,' the acknowledgment is generated based on the other global parameter and partner acknowledgment rules. (SEE the "Common Questions" section, page 1-132, in the "Processing" chapter for more information.)

### Envelope Generation for Acknowledgments

This section provides information about how Sterling Gentran:Server builds envelopes during acknowledgment generation.

#### Acknowledgment Creation for ISA Interchanges

The inbound editor (EBDI001) generates the acknowledgments for an incoming document. When generating an acknowledgment, the editor first reverses the sender and receiver IDs on the incoming ISA to send back on the outbound acknowledgment. The sender ID and qualifier (ISA05 and ISA06) become the receiver ID and qualifier (ISA07 and ISA08) on the outgoing acknowledgment. The receiver ID and qualifier become the sender ID and qualifier.

If the security and authorization qualifiers (ISA01 and ISA03) are both '00,' Sterling Gentran:Server sends back security and authorization qualifiers of '00.' The security and authorization codes (ISA02 and ISA04) are blank.

If the security qualifier or authorization qualifier (ISA01 or ISA03) is not '00,' Sterling Gentran:Server reads the partner file to identify the sender of the inbound document. From the outbound ISA parameters in the control record, Sterling Gentran:Server reads the outbound security code/qualifier or authorization code/qualifier. The values of these fields are used for the outbound ISA on the acknowledgment.

#### Acknowledgment Creation for BG Interchanges

Sterling Gentran:Server reverses the sender ID and receiver ID (BG03 and BG04) from the inbound document to create the outgoing functional acknowledgment.

The communications ID and password (BG01 and BG02) for the BG on the functional acknowledgment are determined by reading the partner file for the sender of the incoming interchange. The outbound BG parameters from the control record are used for the communications ID and password to be sent back on the acknowledgment interchange envelope.

#### Acknowledgment Creation for GS Envelopes

Sterling Gentran:Server reverses the sender ID and receiver ID (GS02 and GS03) from the inbound document to create the outgoing functional acknowledgment.

If the global parameter Partner Acknowledge is set to \*NO, the standards version from the inbound document is used for the outgoing functional acknowledgment.

If the global parameter Partner Acknowledge is set to \*YES:

- If the standards version (GS08) on the outbound parameters from the group record on the partner file is not blank and the responsible agency is not blank, the version from the group record is sent back on the acknowledgment group envelope.
- If the standards version or the responsible agency code on the outbound parameters from the group record on the partner file is blank, the compliance version of the inbound document is sent back on the acknowledgment group envelope.

## EDIFACT Standards Considerations

If you are expecting EDIFACT acknowledgments, you must remember to go into the online Work with Standards panel, select any of the versions you will be using: 002001UN, 002002UN, D 3, or D 4 go to the Standards Transactions in Use panel, select the Control Transaction and EDIFACT Control Message. After completing these steps, run the Standards Table Extract (EXTSTD) to rebuild the batch standards files.

Now that the standards are ready to process an EDIFACT acknowledgment, set the global acknowledgment parameters and the acknowledgment parameters for your partners to the proper values. Please note that the acknowledgment fields on the partner panels work in conjunction with the global acknowledgment parameters. If a global acknowledgment parameter is set to 'Y,' the global parameter will override the value for the equivalent acknowledgment parameter in the partner record.



---

**NOTE**

The value in the inbound UNB segment/element 1/sub-element 2 (SYN Ver #) dictates the outbound CONTRL version that is used. Syntax version 1 is 002001UN; version 2 is 002002UN; version 3 is D 3; version 4 is D 3; all other versions are 002002UN.

---

# Concurrent Processing

## What is Concurrent Processing?

In Sterling Gentran:Server, concurrent processing enables you to run multiple processes at the same time over a single Sterling Gentran data library. For example, you can run an inbound processing job and an outbound processing job at the same time, or run two separate inbound processes at once.

## Benefits of Concurrent Processing

The Sterling Gentran:Server architecture provides the ability to perform multiple tasks on your application files at the same time. For example, in outbound processing, you can add data to the same application definition Sterling Gentran:Server is currently processing.

The concurrent processing feature also improves system throughput by providing an alternative to the slower, sequential processing method. As a result, if a large job is submitted ahead of a small job, the small job can execute at the same time (that is, concurrently) and complete before the large job.

## Enabling Concurrent Processing

In its default configuration, Sterling Gentran:Server handles processing sequentially. You initiate concurrent processing by the parameter settings you choose on the inbound and outbound processing commands. Additional tasks that need to be performed for a successful implementation of concurrent processing are detailed in this section.

To take advantage of concurrent processing, your iSeries application files need to allow members to be added. (SEE “Inbound Application File Setup and Use” and “Outbound Application File Setup and Use” for more information.)

Sequential job processing may be run in a single-thread job queue. Concurrent job processing may be run in multiple single-thread job queues or a multi-threaded job queue. Multiple Sterling Gentran:Server jobs can be run simultaneously including inbound and outbound processing (or multiples of each), communication sessions, print jobs, and populating application files simultaneously. This is accomplished by changing the method by which Sterling Gentran:Server handles jobs. If you choose to implement concurrent processing, you need to consider the following:

- Inbound and outbound application file setup and use (for multiple members)
- Unique work file members created during processing
- Environment control profiles (specifying job queues)

## Inbound Application file setup and use

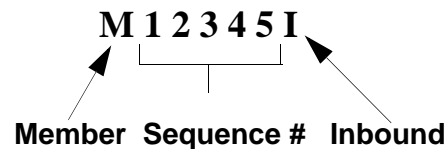
The inbound processing job is enabled to write to unique members for your application files. The application program interface (API) between Sterling Gentran:Server and your application system must reference the unique member. (SEE the "Inbound Concurrent Processing" section, page 5-21, for more information.)

## Outbound Application File Setup and Use

Redefine the application files to be able to contain multiple members. Your application program interface (API) must write to unique member names and then pass that member name to the Sterling Gentran:Server processing job. A possible processing method would be to have a CL that adds data to your application files and runs the outbound processing command (PRCTRNOU), passing the member name within the job. (SEE the "Outbound Concurrent Processing" section, page 5-26, for more information.)

## Unique Work File Members Created During Processing

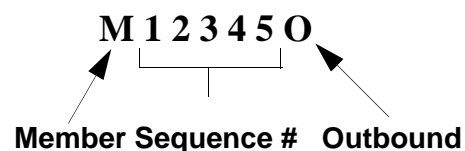
To enable Sterling Gentran:Server to accommodate concurrent processing, the processing function now creates unique work file members using a different naming scheme. Uniqueness is controlled using a data area, MEMBERSEQ, which contains a five-digit number. For members generated as a result of issuing the inbound processing command (PRCTRIN), each work member has a name based on the following formula:



### NOTE

When \*UNIQUE is specified on the PRCTRIN command, application file members will have an incremented three-digit suffix, such as '001' or '002,' to allow for multiple application definitions to be processed for the same run. When \*FIRST is specified, data is written to the first member in the application file(s).

For members generated as a result of issuing the outbound processing command (PRCTRNOU), names are based on the following formula:



## Environment Control Changes

To use concurrent processing, you may wish to make some revisions to your Environment Control settings if you reference different job queues.



## Inbound Concurrent Processing

In this section, special considerations for using concurrent processing for inbound jobs are discussed. The following figure shows an example of the inbound processing flow.

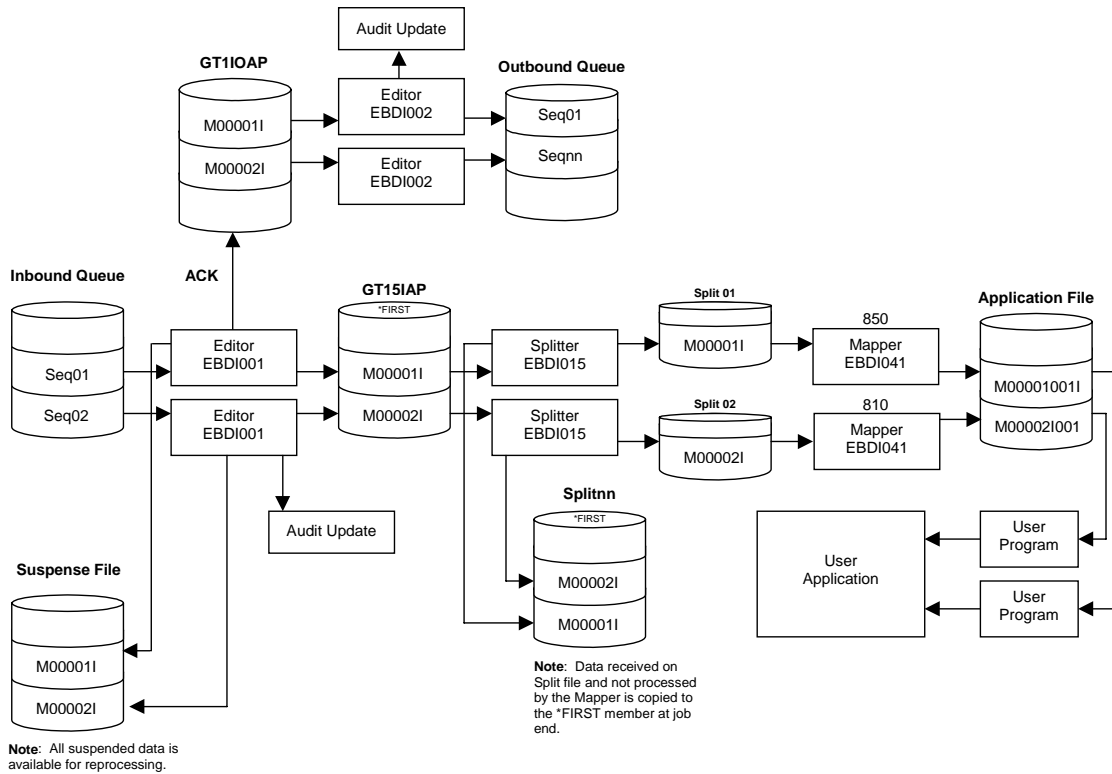


Figure 5.1 Inbound Concurrent Processing Flow Example

### Identifying File Member Names to Your Application

When processing inbound in a concurrent processing environment, your application needs to know the name of the file member that holds the data for a processing run. There are two ways to find the name of the file member:

1. **Manually:** Review the Mapper Inbound Processing Report (EBDI041). The name of the member displays on the report, as shown in the following figure. The members added to the application files will contain a numeric suffix, starting with '001' and incrementing by one for each application definition processed. For example, the second member will have a suffix of '002.'

NUMBER	NBR ID	SEQ #	ID	SEQ INFORMATION	ERROR MESSAGE
EBDI041 RUN 04/30/11 TIME 12:00 MAPPER INBOUND PROCESSING REPORT PAGE 1					
ERROR **RECORD** FIELD SEG ELE					
INTERMEDIATE FILE MEMBER NAME - M20091I001					
609	3		23		UNABLE TO FIND SENDER'S CONTROL RECORD ON PARTNER FILE.
PARTNER ID: XYZ COMPU ZZ CONTROL					
626	27		EE		UNABLE TO TRANSLATE CODE - MOVED SPACE TO TARGET FIELD.
TRANSLATION ID: UNITMEAS					
626	30		EE		UNABLE TO TRANSLATE CODE - MOVED SPACE TO TARGET FIELD.
TRANSLATION ID: UNITMEAS					
PROCESSING ENDED WITH ERRORS - PROCESSING COUNTS BELOW					
EDI RECORDS READ ----- 56					
EDI RECORDS SUSPENDED ----- 0					
APPLICATION RECORDS WRITTEN ---- 20					
RETURN-CODE FOR MAPPING ----- 4					

Figure 5.2 Mapper Inbound Processing Report (EBDI041)

2. **Automatically:** Retrieve the data member within the job run, programmatically. QTEMP contains a data area called GENWRKMBR, which contains the names of all of the members added to your application files during the run. Your program must contain the PRCTRIN command (ensure the INT parameter is \*YES). After the PRCTRIN command, the names should be retrieved and passed along for your application processing before the end of the job that processed the Sterling Gentran:Server translation. The following figure shows a sample program for retrieving mapped data for application processing.

```

SEQNBR*...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+... 8 ...+... 9 ...+... 0
500          PGM
3300         DCL          VAR(&MBRNAME) TYPE(*CHAR) LEN(10)
3400         DCL          VAR(&APPID)   TYPE(*CHAR) LEN(10)
6100         DCL          VAR(&COUNT)  TYPE(*DEC)  LEN(4 0) VALUE(0)
6101         DCL          VAR(&OFFSET)  TYPE(*DEC)  LEN(4 0) VALUE(0)
9600
9700         CHGVAR       VAR(&COUNT) VALUE(1)
9701 /* Retrieve the length of the offset for the data area. */
13505        RTVDTAARA   DTAARA(QTEMP/GENMBRCNT) RTNVAR(&OFFSET)
13506 LOOP:   RTVDTAARA   DTAARA(QTEMP/GENWRKMBR (&COUNT 10)) +
13507          RTNVAR(&APPID)
13508        CHGVAR       VAR(&COUNT) VALUE(&COUNT + 10)
13509        RTVDTAARA   DTAARA(QTEMP/GENWRKMBR (&COUNT 10)) +
13510          RTNVAR(&MBRNAME)
13511
13512 /* Customer's code can be added here to process the application using*/
13513 /* the applications id (&APPID) and the member name (&MBRNAME). */
13514
13515        CHGVAR       VAR(&COUNT) VALUE(&COUNT + 10)
13516 /* Check for more applications to process */
13517        IF            COND(&COUNT *LT &OFFSET) THEN(DO)
13518          GOTO CMDLBL(LOOP)
13519        ENDDO
68300 END:      ENDPGM

          * * * * END OF SOURCE * * * *

```

Figure 5.3 Sample Program for Retrieving Mapped Data

## Processing Statuses

A new temporary status code has been added, 'CP' (Concurrent Processing), to enable concurrent processing. Batches of data received during communications (STRCOMSSN) are loaded to the inbound queue with a status of 'RN' (Received Normal). When inbound processing runs, the editor reads the data, changes the batch status to 'CP' while it processes. When the editor completes its processing, the status is changed to 'PI' (Processed Inbound).

## How Sterling Gentran:Server Handles Partial Inbound Processing Runs

In Sterling Gentran:Server, the following considerations should be kept in mind when using concurrent processing:

1. Each time you run an inbound editor-only job, data is sent to a unique work member in the split file, and then copied to the \*FIRST member.
2. Each time you run another editor-only job, data is appended to the \*FIRST member. The only way to complete processing for the data in the \*FIRST member is to run a mapper-only job.

If you run the editor and mapper in the same processing job, the mapper will read the data from the unique member in the split file that was just written by the editor.

The parameters used on the PRCTRIN (Process Transactions Inbound) command determine if the job is an editor-only, mapper-only, or a full editor-mapper run. If you specify the comm profile ID, the editor will run. If you specify an application ID, the mapper will run.

## How Split Files are Populated in Sterling Gentran:Server

This depends upon whether you are running a full (editor and mapper) or partial (editor only) inbound processing job.

- An editor-only partial inbound run will create a unique member in the split files for the data. At the end of the job, data from a unique member will be copied to the first member. If data already exists in the first member, the new data is appended to the existing data; it does not replace the data.
- If a full inbound job (editor and mapper) is run, the job will create a unique split file member for the data. The mapper will then read data from that member only and ignore the first member.
- If partial inbound jobs (editor only) are run for a given period – for example, many editor runs occurring throughout the day, the final job of the day should be a mapper-only run in order to process all the accumulated data in the \*FIRST member of the split file through the mapper.



---

**NOTE**

If you need to reprocess a batch of data from the inbound queue, reset batches to 'RN.'

---

## Using the PRCTRIN Command to Initiate Concurrent Processing

When you select option '2' (Process Inbound Files) on the GENPRC menu, the system displays the Process Transactions Inbound (PRCTRIN) panel, which is shown in the following figure. The minimum information you should provide on this panel is the Comm Profile ID and/or Application Data ID.

To access the first PRCTRIN panel shown in the following figure, select '2' (Process Transactions Inbound) on the GENPRC menu. Press **F10** (Additional Parameters) to view all of the parameters.

```

                                Process Transactions Inbound (PRCTRIN)

Type choices, press Enter.

Comm Profile ID (Editor) . . . .  CN3BSC          *NONE, *ALL, Comm Profile Id
      + for more values
Application ID (Mapper) . . . .  SEMPOAPPL       *NONE, *ALL, Application Id
      + for more values
Mapper Debug Report? . . . . .  *NO           *YES, *NO
Clear Temporary Files? . . . . . *NO           *YES, *NO
Acknowledgment Reports:
  Print Report? . . . . .        *NO           *YES, *NO
  Split File . . . . .           00025       00000-00080, SLIDE
  Sub-Split File . . . . .       00          00-80
Application File Member . . . . . *UNIQUE     *FIRST, *UNIQUE
Replace Data in App. Files? . . . *YES         *YES, *NO
Run Interactively? . . . . .     *NO          *YES, *NO

                                                                    Bottom
F3=Exit   F4=Prompt   F5=Refresh   F10=Additional parameters   F12=Cancel
F13=How to use this display   F24=More keys

```

Figure 5.4 Process Transactions Inbound (PRCTRIN) panel

### Field Definitions

The parameters below are those that pertain to concurrent processing; for definitions for all other fields, see the online help or the "Processing" chapter.

#### **Clear Temporary Files?**

If you set to \*NO for concurrent processing, use the RMVGENMBR command (on the GENPRC menu) to clear out work members periodically (at the end of each day or week, for example). Setting this parameter to \*NO also gives you the ability to have an additional audit trail of your processing runs; however, the work files could grow rapidly, depending on your processing volume.

#### **Run Interactively?**

Set to \*NO for concurrent processing. If the command is embedded in a CL program, this parameter (INT) should be set to \*YES to streamline the process and not have a separate job submitted.

**Replace Data in App. Files?**

In Sterling Gentran:Server, this parameter applies to external logical files as well as external physical and internal physical files. If you specify \*YES, you should specify \*UNIQUE in the Application File Member field to ensure data is not lost when the application files are cleared.

**Application File Member?**

For concurrent processing, specify \*UNIQUE. This will cause unique members to be added to the application files for the processing run.

If you are not setting up for concurrent processing, specify \*FIRST to have data written to the first member in the application files. The default value is \*FIRST and processing will occur in the same way as in prior Sterling Gentran releases.

## Outbound Concurrent Processing

In this section, special considerations for using concurrent processing for outbound jobs are discussed. The following figure shows an example of the outbound concurrent processing flow.

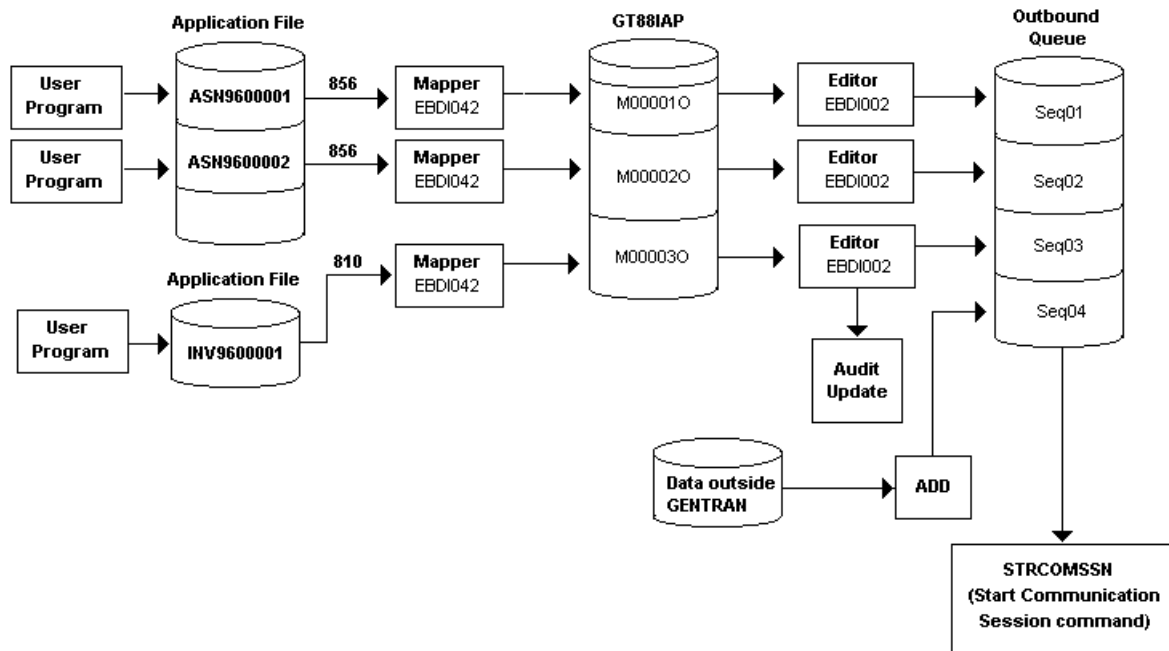


Figure 5.5 Outbound Concurrent Processing Flow Example

### How Sterling Gentran:Server Handles EDI Control Numbers

EDI control numbers are assigned when outbound processing begins. Because two or more jobs may be running at the same time, it is possible to have the job that started first be the job that finishes last. Data loaded to the outbound queue could now contain envelope control numbers that are out of sequence. The control numbers will be unique and since the possibility of control numbers for a single partner being out of sequence is low, this may not present any problems. It is a consideration that should be kept in mind when processing concurrent batches.

## Using the PRCTRNOU Command to Initiate Concurrent Processing

When you select '1' (Process Transactions Outbound) on the GENPRC menu, the system displays the PRCTRNOU panel. For concurrent processing, the minimum information you need to provide on this panel is the Application Data ID and an Application File Member name (APPMBR keyword).

To access the PRCTRNOU panel shown in the following figure, select '1' (Process Transactions Outbound) on the GENPRC menu. Press **F10** (Additional Parameters) to view all of the parameters.

```

                                Process Transactions Outbound (PRCTRNOU)

Type choices, press Enter.

Application Data ID . . . . . INVOUTL      Character value
      + for more values
Mapper Debug Report? . . . . . *NO       *YES, *NO
Clear Temporary Files ? . . . . *YES      *YES, *NO
Application File Member . . . . OUTBND1   *DEFAULT, Name
Run Interactively? . . . . . *NO       *YES, *NO

                                                                    Bottom
F3=Exit   F4=Prompt   F5=Refresh   F10=Additional parameters   F12=Cancel
F13=How to use this display   F24=More keys

```

Figure 5.6 Process Transactions Outbound (PRCTRNOU) panel

### Field Definitions

The parameters below are those that pertain to concurrent processing; for definitions for all fields, see the online help for each field, or the “Processing” chapter.

#### **Clear Temporary Files?**

If you set to \*NO for concurrent processing, use the RMVGENMBR command (on the GENPRC menu) to clear out work members periodically (at the end of each day or week, for example). Setting this parameter to \*NO also gives you the ability to have an additional audit trail of your processing runs; however, the work files could grow rapidly, depending on your processing volume.

**Application Member**

When set up for concurrent processing, specify the unique member name in the Application Member field that should be processed for the run. If a specific name is not used, the first member in the application files is used.

1. When a specific member name is used, the following will occur, depending on the type of application definition used:
  - External Physical files: Sterling Gentran:Server creates a multi-format logical file over all the physical files defined to the application definition referencing the specific file member. This same member name must be in each physical file processed for the run.
  - External Logical file: Sterling Gentran:Server reads from the specific file member in the logical. The user may have created the multi-format logical over any physical file member(s).
  - Internal Physical file: Sterling Gentran:Server reads from the specific file member.
2. When \*DEFAULT is specified, the first member of the file is used. When processing with an external logical file, the first member of the multi-format logical file is used, which may be created over any member(s) of the physical files.

**Run Interactively**

When invoked from a menu or the command line, specify \*NO to enable concurrent processing. If the command is being run from within a CL program, specify \*YES to streamline the process.



# Network Reconciliation

## Overview

The network reconciliation feature enables you to view the status of outbound documents through the Audit subsystem. Sterling Gentran:Server retrieves the network reports from your Value-Added Network (VAN) into specified files, then automatically posts this information to a network reconciliation file upon completion of each communications session. The audit subsystem then checks the network reconciliation file for the network status of any outbound document, and displays the network status, along with the acknowledgment status and communications status, on the following panels:

- Work with Audit Interchange Status (EDIX251-FMT01)
- Work with Audit Group Status (EDIX252-FMT01)
- Work with Audit Transaction Status (EDIX253-FMT01)

The following figure shows the Network Reconciliation status column on the Work with Audit Interchange panel (EDIX251-FMT01). The 'N' column shows the network reconciliation status.

```

EDIX251          Work with Audit Interchange Status          EDI  04/30/11
FMT01            pgmlib: G3X6PGM      dtalib: G3X6DTA        12:00:00

Position to Partner _____ Qual _____ Created _____

Type option (and Information), press Enter.
  4=Delete  5=View  6=Print EDI  12=Groups  13=Acknowledge  30=Print Audit
              S              Status      Created
Opt Interchange Partner      Qual R Control #  A/N/C  Date  Time
-----
TPCOMPANY                    S 000000066  /E/Q  04/30/11 12:00
TPCOMPANY                    S 000000065  /P/Q  04/30/11 12:00
TPCOMPANY                    S 000000064  /P/Q  04/30/11 12:00
TPCOMPANY                    S 000000063  /P/Q  04/30/11 12:00
TPCOMPANY                    S 000000062  /P/Q  04/30/11 12:00
TPCOMPANY                    S 000000061  /P/Q  04/30/11 12:00
TPCOMPANY                    S 000000060  /P/Q  04/30/11 12:00
TPCOMPANY                    S 000000059  A/R/Q  04/30/11 12:00
TPCOMPANY                    S 000000058  /S/Q  04/30/11 12:00
More...

Parameters or command
====>
F1=Help  F3=Exit  F12=Cancel  F15=Sort  F23=More Options  F24=More Keys
  
```

**Network Status Column**

Figure 5.7 Network Reconciliation Status on Work with Audit Interchange Status Panel

The network reconciliation status for a document can be one of the following:

- E – Errors encountered during network processing
- P – Partner has picked up the interchange
- R – Network has received the interchange
- S – Network has “processed” the interchange

## Using Network Reconciliation

If you use Sterling B2B Collaboration Network, Advantis, or GEIS Value-Added Networks, and want to use network reconciliation, you'll need to perform the following tasks:

1. Ensure that the network reports you receive are in data format (machine-readable); you may need to contact your network provider to request this.
2. Change the Sterling Gentran:Server communications script(s) for the network to use the correct file and network commands. The filenames used for each network and a sample script for each network follows.
3. Verify that each partner ID on the network report matches a partner ID or partner cross-reference within Sterling Gentran.

Network Reconciliation is automatically handled for the Telekom and INS Tradanet networks without additional script modifications.

### Changing the Communications Scripts

The communications script(s) used by Sterling Gentran:Server must be changed to include the filename listed in the table below for your network:

Network	Filename
Sterling B2B Collaboration Network	COMNETFIL
Advantis	IBMNETFIL
GEIS	GEISNETFIL

The following pages contain sample scripts for Sterling B2B Collaboration Network, Advantis, and GEIS. We recommend that you make a copy of the script you currently use before making any changes. On the following pages, lines in the scripts that need to be changed or added are circled.

#### NOTE

For more information about commands used for requesting report data, see your network guide or contact your network provider. (SEE Chapter 2, "Using Scripts," in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 Communications Guide* for more information about making changes to your communications scripts.)

The following sections illustrate sample communication scripts for each of the three networks for both BSC and SNA protocols, where supported. The figures show entire scripts; however, you will need to page up or down to see the entire script on the Communication Session Control panel (EDIX403-CTL01).

## Sterling B2B Collaboration Network

The following reports from Sterling B2B Collaboration Network are used by the network reconciliation feature:

- **020** – Transmission Confirmation Report (Optional)
- **060** – On-Demand Mailslot Status Report

We recommend that you contact Sterling B2B Collaboration Network Customer Support and request an additional mailslot to hold your 020 (optional) and 060 Reports.

### NOTE

If you choose not to use the 020 report, the Network Reconciliation status will not be available for your documents. If you want to see this status, request Sterling B2B Collaboration Network to put the 020 report in your additional mailslot in **data format**.

**Please note that you will no longer receive the 020 report in report format if you choose to use this option.**

```

EDIX403                Communication Session Control          EDI    04/30/11
CTL01                  .                               .       12:00:00
Comm Profile ID. . . . . CN3BSC
Session Name . . . . . RA
Company. . . . . COMMERCE:Network RELEASE 3

Type option, press Enter.
  3=Copy  4=Delete  7=Copy Seq#  11=Extended Parms

Opt Seq No Tran File File Name  Ind Description
___  20   C   ___          0  SEND REQUEST FOR REPORTS _____
$$REQUEST ID=SX999R BATCHID='TEST'
___  25   C   ___          0  REQUEST REPORTS FOR VIEWPOINT_
$$REQUEST ID=SX999V BATCHID='TEST'
___  30   C   ___          2  SEND REQUEST FOR X12 DATA _____
$$REQUEST ID=SX999D BATCHID='TEST'
___  40   R   SP          7  RECEIVE REPORT DATA TO SPOOL__
***  ERROR  ***  NO BATCHES FOR TRANSMISSION
___  45   R   IF  COMNETFIL_  7  RECV REPORTS FOR VIEWPOINT____
***  ERROR  ***  NO BATCHES FOR TRANSMISSION
___  50   R   IQ          7  RECV X12 DATA TO INQUE _____
***  ERROR  ***  NO BATCHES FOR TRANSMISSION

```

Figure 5.8 Sterling B2B Collaboration Network Sample Script RA Session (BSC)

- Add Seq Nos. 25 and 45 into your RA session exactly as indicated above, replacing SX999V and batch ID with your additional mailslot.
- Seq No. 25 requests your 020 (optional) and 060 reports from your additional mailslot.

- Seq No. 45 receives your 020 (optional) and 060 reports into a file called COMNETFIL in preparation for reformatting and reconciling.

```

EDIX403          Communication Session Control          EDI  04/30/11
CTL01                                12:00:00
Comm Profile ID. . . . . CN3BSC
Session Name . . . . . RR
Company. . . . . COMMERCE:Network RELEASE 3

Type option, press Enter.
  3=Copy  4=Delete  7=Copy Seq#  11=Extended Parm

Opt Seq No Tran File File Name  Ind Description
___  10  C   ___   ___   ___   2  SEND RLSE3 SIGNON_____
/*SIGNON EDI3780 *
___  20  C   ___   ___   ___   2  SEND REQUEST FOR REPORTS_____
$$REQUEST ID=SX999R BATCHID='TEST'
___  25  C   ___   ___   ___   2  REQUEST REPORTS FOR VIEWPOINT_
$$REQUEST ID=SX999V BATCHID='TEST'
___  30  R   SP   ___   ___   7  RECEIVE REPORTS TO SPOOL_____
***  ERROR  ***  NO BATCHES FOR TRANSMISSION
___  35  R   IF  COMNETFIL_  7  RECV REPORTS FOR VIEWPOINT___
***  ERROR  ***  NO BATCHES FOR TRANSMISSION
___
  
```

Figure 5.9 Sterling B2B Collaboration Network Sample Script RR Session (BSC)

- Add Seq Nos. 25 and 35 into your RR session exactly as indicated above, replacing SX999V and batch ID with your additional mailslot.
- Seq No 25 requests your 020 (optional) and 060 reports from your additional mailslot.
- Seq No 35 receives your 020 (optional) and 060 reports into a file called COMNETFIL in preparation for reformatting and reconciling.

```

EDIX403          Communication Session Control          EDI  04/30/11
CTL01                               12:00:00
Comm Profile ID. . . . . CN3BSC
Session Name . . . . . SR
Company. . . . . COMMERCE:Network RELEASE 3

Type option, press Enter.
  3=Copy  4=Delete  7=Copy Seq#  11=Extended Parms

Opt Seq No Tran File File Name  Ind Description
___  20  C  ___  _____  0  SEND REQUEST FOR REPORTS _____
$$REQUEST ID=SX999R BATCHID='TEST'
___  25  C  ___  _____  0  REQUEST REPORTS FOR VIEWPOINT_
$$REQUEST ID=SX999V BATCHID='TEST'
___  30  C  ___  _____  0  SEND REQUEST FOR X12 DATA _____
$$REQUEST ID=SX999D BATCHID='TEST'
___  40  C  ___  _____  0  SEND $$ADD RECORD _____
$$ADD ID=SX999D BATCHID='TEST'
___  50  S  OQ  _____  2  SEND X12 DATA FROM OUTQUE _____

___  60  R  SP  _____  7  RECEIVE REPORTS TO SPOOL _____
***  ERROR  ***  NO BATCHES FOR TRANSMISSION
___  65  R  IF  COMNETFIL_  7  RECV REPORTS FOR VIEWPOINT _____
***  ERROR  ***  NO BATCHES FOR TRANSMISSION
___  70  R  IQ  _____  7  RECEIVE X12 DATA TO INQUE _____
***  ERROR  ***  NO BATCHES FOR TRANSMISSION

```

Figure 5.10 Sterling B2B Collaboration Network Sample Script – SR Session (BSC)

- Add Seq Nos. 25 and 65 into your SR session exactly as indicated above, replacing SX999V and batch ID with your additional mailslot.
- Seq No 25 requests your 020 (optional) and 060 reports from your additional mailslot.
- Seq No 65 receives your 020 (optional) and 060 reports into a file called COMNETFIL in preparation for reformatting and reconciling.

```

EDIX403          Communication Session Control          EDI   04/30/11
CTL01                               12:00:00
Comm Profile ID. . . . . CN3BSC
Session Name . . . . . ST
Company. . . . . COMMERCE:Network RELEASE 3

Type option, press Enter.
  3=Copy  4=Delete  7=Copy Seq#  11=Extended Parm

Opt Seq No Tran File File Name  Ind Description
___  ___  ___  ___  ___  ___  ___
  10   C   ___  ___  ___  0  SEND ADD RECORD_____
$$ADD ID=SX999D BATCHID='TEST'
  20   C   ___  ___  ___  2  SEND REQUEST FOR (060) REPORT_
??STAT ID=SX999D RPASS='TEST' DEST=SX999V DPASS='TEST' OPT=S TYPE=D_____

```

Figure 5.11 Sterling B2B Collaboration Network Sample Script – ST Session (BSC)

If the ST script does not already exist, you must add this ST script to request your 060 report.

The ??STAT command is used to identify the mailslot for which you want processing activity. The DEST parameter is used to identify where you want the 060 report to be loaded – in this case, your additional mailslot.

You can request the 060 report as often as necessary. Each time you request this report, the network provides processing activity for the previous 24 hours, less 10 minutes (the time required to compile the report).

After running the ST session, you must run one of the sessions you've just modified that receives the reports to COMNETFIL.

```

EDIX403                Communication Session Control          EDI   04/30/11
CTL01                  .                                     .    12:00:00
Comm Profile ID. . . . . CN3SNA
Session Name . . . . . RA
Company. . . . . COMMERCE:Network RELEASE 3

Type option, press Enter.
  3=Copy  4=Delete  7=Copy Seq#  11=Extended Parms

Opt Seq No Tran File File Name  Ind Description
___  10  R   SP   _____  7  TRAP LOGON MSG FROM SUPERTRACS
SUCCESSFUL LOGON TO SUPERTRACS_____
___  20  R   SP   _____  7  TRAP SUPERTRACS READY MSG_____
*** SUPERTRACS READY FOR INPUT_____
___  30  C   ___   _____  3  SEND REQUEST TO SUPERT_____
$$REQUEST ID=SX999D BATCHID='TEST' MEDIA=BX_____
___  40  R   IQ   _____  5  RECV DATA TO INQUE_____
*** ERROR *** TRANSMIT FAILED. NO BATCHES FOR TRANSMISSION_____
___  50  C   ___   _____  3  SEND REQUEST TO SUPERT_____
$$REQUEST ID=SX999R BATCHID='TEST' MEDIA=BX_____
___  60  R   SP   _____  5  RECV DATA TO SPOOL_____
*** ERROR *** TRANSMIT FAILED. NO BATCHES FOR TRANSMISSION_____
___  62  C   ___   _____  3  REQUEST REPORTS FOR VIEWPOINT_
$$REQUEST ID=SX999V BATCHID='TEST' MEDIA=BX_____
___  64  R   IA  COMNETFIL_  5  RECV REPORTS FOR VIEWPOINT_____
*** ERROR *** TRANSMIT FAILED. NO BATCHES FOR TRANSMISSION_____
___  70  C   ___   _____  0  SEND LOGOFF TO END SESSION_____
$$LOGOFF APPLID=APPLIDNAME RMT=LUNAME_____

```

Figure 5.12 Sterling B2B Collaboration Network Sample Script – RA Session (SNA)

- Add Seq Nos 62 and 64 into your RA session exactly as indicated above, replacing SX999V and batch ID with your additional mailslot.
- Seq No 62 requests your 020 (optional) and 060 reports from your additional mailslot.
- Seq No 64 receives your 020 (optional) and 060 reports into a file called COMNETFIL in preparation for reformatting and reconciling.

```

EDIX403                Communication Session Control          EDI   04/30/11
CTL01                  .                                     .       12:00:00
Comm Profile ID. . . . . CN3SNA
Session Name . . . . . RR
Company. . . . . COMMERCE:Network RELEASE 3

Type option, press Enter.
  3=Copy 4=Delete 7=Copy Seq# 11=Extended Parms

Opt Seq No Tran File File Name  Ind Description
___  10  R   SP   _____  7  TRAP SUPERTRACS LOGON MSG_____
SUCCESSFUL LOGON TO SUPERTRACS _____
___  20  R   SP   _____  7  TRAP SUPERTRACS READY MSG_____
*** SUPERTRACS READY FOR INPUT _____
___  30  C   ___   _____  0  SEND REQUEST TO SUPERT _____
$$REQUEST ID=SX999R BATCHID='TEST' MEDIA=BX _____
___  35  R   SP   _____  5  RECV REPORT DATA TO FILE _____
*** ERROR *** TRANSMIT FAILED. NO BATCHES FOR TRANSMISSION
___  37  C   ___   _____  0  REQUEST REPORTS FOR VIEWPOINT_
$$REQUEST ID=SX999V BATCHID='TEST' MEDIA=BX _____
___  38  R   IA  COMNETFIL_  5  RECV REPORTS FOR VIEWPOINT _____
*** ERROR *** TRANSMIT FAILED. NO BATCHES FOR TRANSMISSION.
___  40  C   ___   _____  0  SEND LOGOFF TO END SESSION _____
$$LOGOFF APPLID=APPLIDNAME RMT=LUNAME _____

```

Figure 5.13 Sterling B2B Collaboration Network Sample Script – RR Session (SNA)

- Add Seq Nos 37 and 38 into your RR session exactly as indicated above, replacing SX999V and batch ID with your additional mailslot.
- Seq No 37 requests your 020 (optional) and 060 reports from your additional mailslot.
- Seq No 38 receives your 020 (optional) and 060 reports into a file called COMNETFIL in preparation for reformatting and reconciling.



```

EDIX403          Communication Session Control          EDI    04/30/11
CTL01                               12:00:00
Comm Profile ID. . . . . CN3SNA
Session Name . . . . . SR
Company. . . . . COMMERCE:Network RELEASE 3

Type option, press Enter.
  3=Copy 4=Delete 7=Copy Seq# 11=Extended Parm

Opt Seq No Tran File File Name Ind Description
___ 10 R SP _____ 7 TRAP SUPERTRACS LOGON MSG___
SUCCESSFUL LOGON TO SUPERTRACS
___ 20 R SP _____ 7 TRAP SUPERTRACS READY MSG___
*** SUPERTRACS READY FOR INPUT
___ 30 C _____ 0 SEND ADD RECORD_____
$$ADD ID= SX999D BATCHID='TEST'
___ 40 S OQ _____ 3 SEND DATA FROM OUTBOUND QUEUE_
___ 50 R SP _____ 7 TRAP SUPERTRACS READY MSG___
*** SUPERTRACS READY FOR INPUT
___ 60 C _____ 3 SEND REQUEST FOR DATA_____
$$REQUEST ID= SX999D BATCHID='TEST' MEDIA=BX
___ 70 R IQ _____ 5 RECV DATA TO INBOUND QUEUE___
*** ERROR *** TRANSMIT FAILED. NO BATCHES FOR TRANSMISSION
___ 80 C _____ 0 SEND REQUEST FOR REPORT DATA___
$$REQUEST ID= SX999R BATCHID='TEST' MEDIA=BX
___ 90 R SP _____ 5 RECV REPORT DATA TO FILE_____
*** ERROR *** TRANSMIT FAILED. NO BATCHES FOR TRANSMISSION
___ 92 C _____ 0 REQUEST REPORTS FOR VIEWPOINT_
$$REQUEST ID= SX999V BATCHID='TEST' MEDIA=BX
___ 94 R IA COMNETFIL_ 5 RECV REPORTS FOR VIEWPOINT___
*** ERROR *** TRANSMIT FAILED. NO BATCHES FOR TRANSMISSION.
___ 100 C _____ 0 SEND NETWORK LOGOFF CMD_____
$$LOGOFF APPLID=APPLIDNAME RMT=LUNAME_____

```

Figure 5.14 Sterling B2B Collaboration Network Sample Script – SR Session (SNA)

- Add Seq Nos 92 and 94 into your SR session exactly as indicated above, replacing SX999V and batch ID with your additional mailslot.
- Seq No 92 requests your 020 (optional) and 060 reports from your additional mailslot.
- Seq No 94 receives your 020 (optional) and 060 reports into a file called COMNETFIL in preparation for reformatting and reconciling.

```

EDIX403                Communication Session Control          EDI    04/30/11
CTL01                  12:00:00
Comm Profile ID. . . . . CN3SNA
Session Name . . . . . ST
Company. . . . . COMMERCE:Network RELEASE 3

Type option, press Enter.
  3=Copy 4=Delete 7=Copy Seq# 11=Extended Parms

Opt Seq No Tran File File Name Ind Description
___ 10 R SP _____ 7 TRAP SUPERTRACS LOGON MSG ___
SUCCESSFUL LOGON TO SUPERTRACS
___ 20 R SP _____ 7 TRAP SUPERTRACS READY MSG ___
*** SUPERTRACS READY FOR INPUT
___ 30 C _____ 0 SEND ADD RECORD _____
$$ADD ID= SX999D BATCHID='TEST'
___ 40 C _____ 3 SEND REQUEST FOR (060) REPORT _
??STAT ID= SX999D RPASS='TEST' DEST= SX999V DPASS='TEST' OPT=S TYPE=D
___ 50 C _____ 0 SEND LOGOFF TO END SESSION ___
$$LOGOFF APPLID=APPLIDNAME RMT=LUNAME

```

Figure 5.15 Sterling B2B Collaboration Network Sample Script – ST Session (SNA)

If the ST script does not already exist, you must add this ST script to request your 060 report.

The ??STAT command is used to identify the mailslot on which you want processing activity. The DEST parameter is used to identify where you want the 060 report to be loaded – in this case, your additional mailslot.

You can request the 060 report as often as necessary. Each time you request this report, the network provides processing activity for the previous 24 hours, less 10 minutes (the time required to compile the report).

After running the ST session, you must run one of the sessions you've just modified that receives the reports to COMNETFIL.

## Advantis Network

The audit trail you will receive from Advantis will supply information for all network tracking points.

```

EDIX403                Communication Session Control                EDI    04/30/11
CTL01                  12:00:00
Comm Profile ID. . . . . ADVBSC
Session Name . . . . . SR
Company. . . . . IBM INFORMATION NETWORK

Type option, press Enter.
  3=Copy  4=Delete  7=Copy Seq#  11=Extended Parms

Opt Seq No Tran File File Name Ind Description
___      5   C   ___          2 SEND EXCHANGE I.D. _____
RJE2
___     10   R   SP          7 RECV IBM INFO NETWORK LOGO _____
___     15   C   ___          2 SEND IBM LOGON _____
/*L ACCT,USRID,PSWD/*S EDIRECT/*U BSCEDI
___     20   R   SP          7 RECV WELCOME MESSAGE _____
___     25   C   ___          2 SEND INFO EXCHANGE LOGON _____
IELOGON ACCOUNT(ACCT) USERID(USRID) PASSWORD(PSWD);
___     27   R   SP          7 RECV INPUT DATA SET PROMPT _____
___     28   S   OQ          0 SEND X12 DATA TO NETWORK _____
___     30   C   ___          0 SEND REQUEST FOR X12 DATA _____
RECEIVE;
___     32   C   ___          0 SEND REQUEST FOR AUDIT TRAIL _____
AUDIT;
___     33   C   ___          0 SEND RECV REQUEST FOR AUDIT _____
RECEIVE CLASS(AUDIT);
___     35   C   ___          2 SEND REQUEST TO RECV OUTPUT _____
RECEIVE CLASS(EDILOG);
___     40   R   SP          7 RECV INPUT FILE002 MSG _____
___     45   R   IQ          7 RECV X12 DATA _____
___     47   R   IF  IBMNETFIL_ 7 RECV AUDIT RECORDS _____
___     50   R   SP          7 RECV NETWORK SESSION LOG _____

```

Figure 5.16 Advantis Sample Script – SR Session (BSC)

- Add Seq Nos 32, 33, and 47 into your SR session.
- The AUDIT command is used to ask Advantis to place in your mailbox an audit trail of your sent and received data in prior sessions.
- The RECEIVE CLASS (AUDIT) command is used to tell Advantis that you want to receive the audit trail during this session.
- The audit trail will be received into a file called IBMNETFIL in preparation for reformatting and reconciling.

```

EDIX403          Communication Session Control          EDI   04/30/11
CTL01           12:00:00
Comm Profile ID. . . . . ADVBSC
Session Name . . . . . SO
Company. . . . . IBM INFORMATION NETWORK

Type option, press Enter.
  3=Copy  4=Delete  7=Copy Seq#  11=Extended Parm

Opt Seq No Tran File File Name  Ind Description
__  5  C  __  _____  2  SEND EXCHANGE I.D. _____
RJE2
__  10 R  SP  _____  7  RECV IBM INFO NETWORK LOGO ____
__  15 C  __  _____  2  SEND IBM LOGON _____
/*L ACCT,USRID,PSWD/*S EDIRECT/*U BSCEDI
__  20 R  SP  _____  7  RECV WELCOME MESSAGE _____
__  25 C  __  _____  2  SEND INFO EXCHANGE LOGON ____
IELOGON ACCOUNT(ACCT) USERID(USRID) PASSWORD(PSWD); _____
__  27 R  SP  _____  7  RECV INPUT DATA SET PROMPT ____
__  30 S  OQ  _____  0  SEND X12 DATA _____
__  32 C  __  _____  0  SEND REQUEST FOR AUDIT TRAIL __
AUDIT; _____
__  33 C  __  _____  0  SEND RECV REQUEST FOR AUDIT ____
RECEIVE CLASS(AUDIT); _____
__  35 C  __  _____  2  SEND REQUEST TO RECV OUTPUT ____
RECEIVE CLASS(EDILOG); _____
__  40 R  SP  _____  7  RECV INPUT FILE002 MSG _____
__  43 R  IF  IBMNETFIL_  7  RECV AUDIT RECORDS _____
__  45 R  SP  _____  7  RECV NETWORK SESSION LOG _____

```

Figure 5.17 Advantis Sample Script – Session SO (BSC)

- Add Seq Nos 32, 33, and 43 into your SO session.
- The AUDIT command is used to ask Advantis to place in your mailbox an audit trail of your sent and received data in prior sessions.
- The RECEIVE CLASS (AUDIT) command is used to tell Advantis that you want to receive the audit trail during this session.
- The audit trail will be received into a file called IBMNETFIL in preparation for reformatting and reconciling.

```

EDIX403           Communication Session Control           EDI   04/30/11
CTL01                                12:00:00
Comm Profile ID. . . . . ADVBSC
Session Name . . . . . RA
Company. . . . . IBM INFORMATION NETWORK

Type option, press Enter.
  3=Copy  4=Delete  7=Copy Seq#  11=Extended Parms

Opt Seq No Tran File File Name  Ind Description
___  ___  ___  ___  ___  ___  ___
___   5   C   ___  ___  ___  2  SEND EXCHANGE I.D. _____
RJE2
___  10   R   SP  ___  ___  7  RECV IBM INFO NETWORK LOGO _____
___  15   C   ___  ___  ___  2  SEND IBM LOGON _____
/*L ACCT,USRID,PSWD/*S EDIRECT/*U BSCEDI
___  20   R   SP  ___  ___  7  RECV WELCOME MESSAGE _____
___  25   C   ___  ___  ___  2  SEND INFO EXCHANGE LOGON
IELOGON ACCOUNT(ACCT) USERID(USRID) PASSWORD(PSWD);
___  27   R   SP  ___  ___  7  RECV INPUT DATA SET PROMPT _____
___  28   C   ___  ___  ___  0  SEND RECV REQUEST FOR ERR MSGS
RECEIVE CLASS(SYMSG);
___  30   C   ___  ___  ___  0  SEND REQUEST FOR X12 DATA _____
RECEIVE;
___  33   C   ___  ___  ___  0  SEND REQUEST FOR AUDIT _____
RECEIVE CLASS(AUDIT);
___  35   C   ___  ___  ___  2  SEND REQUEST TO RECV OUTPUT _____
RECEIVE CLASS(EDILOG);
___  40   R   SP  ___  ___  7  RECV INPUT FILE002 MSG _____
___  43   R   SP  ___  ___  7  RECV SYSTEM ERR MSGS _____
___  45   R   IQ  ___  ___  7  RECV X12 DATA _____
___  47   R   IF  IBMNETFIL_ 7  RECV AUDIT RECORDS _____
___  50   R   SP  ___  ___  7  RECV NETWORK LOGON _____

```

Figure 5.18 Advantis Sample Script – Session RA (BSC)

- Add Seq Nos. 33 and 47 into your RA session.
- The RECEIVE CLASS (AUDIT) command is used to tell Advantis that you want to receive the audit trail during this session.
- The audit trail will be received into a file called IBMNETFIL in preparation for reformatting and reconciling.

```

EDIX403                Communication Session Control                EDI    04/30/11
CTL01                  .                                         .         12:00:00
Comm Profile ID. . . . . ADVLU0
Session Name . . . . . SR
Company. . . . . IBM INFORMATION NETWORK SDLC

Type option, press Enter.
  3=Copy 4=Delete 7=Copy Seq# 11=Extended ParmS

Opt Seq No Tran File File Name Ind Description
___ 10 C ___ 2 SEND IBM LOGON
/*L ACCT,USRID,PSWD/*S EDIRECTS/*U SNAEDI
___ 20 D ___ 5 RECV & DROP WELCOME MESSAGE
WELCOME TO IBM IN EXPEDITE/DIRECT
___ 25 R SP ___ 7 TRAP FOR CHANGE DIRECTION
___ 40 C ___ 2 SEND INFO EXCHANGE LOGON
IELOGON ACCOUNT(ACCT) USERID(USRID) PASSWORD(PSWD);
___ 50 D ___ 7 RECV &DROP DATA SET 1 PROMPT
ANOTHER INTENTIONAL NO MATCH CONDITION TO SUPPRESS PROMPT MESSAGES FROM
___ 70 S OQ ___ 2 SEND X12 DATA
___ 90 D ___ 7 RECV & DROP DATA SET 2 PROMPT
SET A NO MATCH MESSAGE TO RECV TILL CHANGE DIRECTION, AND DROP PROMPT MESSAGES
___ 93 C ___ 0 SEND REQUEST FOR AUDIT TRAIL
AUDIT;
___ 96 C ___ 2 SEND RECV REQUEST FOR AUDIT
RECEIVE CLASS(AUDIT);
___ 97 D ___ 7 RECV &DROP DATA SET 3 PROMPT
EXPEDITE/DIRECT RECEIVE INPUT DATA SET 0003
___ 98 R IF IBMNETFIL_ 7 RECV AUDIT RECORDS
___ 100 C ___ 2 SEND REQUEST TO RECV X12 DATA
RECEIVE CLASS('#E?') DLM(BLANKS);
___ 110 D ___ 7 RECV & DROP DATA SET 4 PROMPT
EXPEDITE/DIRECT RECEIVE INPUT DATA SET 0004
___ 120 R IQ ___ 7 RECV X12 DATA TO INQUE
___ 130 C ___ 2 SEND REQUEST FOR SYS MESSAGES
RECEIVE CLASS(SYSMSG);
___ 140 D ___ 7 RECV & DROP DATA SET 5 PROMPT
EXPEDITE/DIRECT RECEIVE INPUT DATA SET 0005
___ 150 R SP ___ 7 RECV SYSTEM MESSAGES IF AVAIL
___ 180 C ___ 2 SEND REQUEST FOR EDI REPORT
RECEIVE CLASS(EDILOG);
___ 190 D ___ 7 RECV & DROP DATA SET 6 PROMPT

```

Figure 5.19 Advantis Sample Script – Session SR (SNA)

- Add Seq Nos. 93, 96, 97, and 98 into your SR session.
- Modify Seq No. 100 as shown above to clarify that you only want EDI-formatted data.
- The AUDIT command is used to ask Advantis to place in your mailbox an audit trail of your sent and received data in prior sessions.
- The RECEIVE CLASS (AUDIT) command is used to tell Advantis that you want to receive the audit trail during this session.
- The audit trail will be received into a file called IBMNETFIL in preparation for reformatting and reconciling.

```

EDIX403                Communication Session Control          EDI   04/30/11
CTL01                  . . . . .                          12:00:00
Comm Profile ID. . . . . ADVLU0
Session Name . . . . . SO
Company. . . . . IBM INFORMATION NETWORK SDLC

Type option, press Enter.
  3=Copy  4=Delete  7=Copy Seq#  11=Extended Parms

Opt Seq No Tran File File Name Ind Description
___ 20 C ___ 2 SEND IBM LOGON _____
/*L ACCT,USRID,PSWD/*S EDIRECTS/*U SNAEDI
___ 30 D ___ 5 RECV & DROP WELCOME MESSAGE ___
WELCOME TO IBM IN EXPEDITE/DIRECT _____
___ 40 R SP _____ 7 TRAP FOR CHANGE DIRECTION _____

___ 50 C ___ 2 SEND INFO EXCHANGE LOGON _____
IELOGON ACCOUNT(ACCT) USERID(USRID) PASSWORD(PSWD); _____
___ 70 D ___ 7 RECV & DROP DATA SET 1 PROMPT _
READ AND TRASH ALL RECS UNTIL INDIC 7 IS SET ON (CHANGE DIRECTION RECVD). _____
___ 90 S OQ _____ 2 SEND X12 DATA TO NETWORK _____

___ 120 D ___ 7 RECV & DROP DATA SET 2 PROMPT _
RECV AND TRASH DATA TILL CHANGE DIRECTION IS RECVD _____
___ 125 C ___ 0 SEND REQUEST FOR AUDIT TRAIL _
AUDIT; _____
___ 130 C ___ 2 SEND RECV REQUEST FOR AUDIT _
RECEIVE CLASS(AUDIT); _____
___ 140 D ___ 7 RECV & DROP DATA SET 3 PROMPT _
EXPEDITE/DIRECT RECEIVE INPUT DATA SET 0003 _____
___ 150 R IF IBMNETFIL_ 7 RECV AUDIT RECORDS _____

___ 160 C ___ 2 SEND REQUEST TO RECV OUTPUT _
RECEIVE CLASS(EDILOG); _____
___ 170 D ___ 7 RECV & DROP DATA SET 4 PROMPT _
EXPEDITE/DIRECT RECEIVE INPUT DATA SET 0004 _____
___ 180 R SP _____ 7 RECV NETWORK SESSION LOG _____

```

Figure 5.20 Advantis Sample Script – Session SO (SNA)

- Add Seq Nos. 125, 130, 140, and 150 into your SO session.
- The AUDIT command is used to ask Advantis to place in your mailbox an audit trail of your sent and received data in prior sessions.
- The RECEIVE CLASS (AUDIT) command is used to tell Advantis that you want to receive the audit trail during this session.
- The audit trail will be received into a file called IBMNETFIL in preparation for reformatting and reconciling.

```

EDIX403                Communication Session Control                EDI    04/30/11
CTL01                  12:00:00
Comm Profile ID. . . . . ADVLU0
Session Name . . . . . RA
Company. . . . . IBM INFORMATION NETWORK SDLC

Type option, press Enter.
  3=Copy 4=Delete 7=Copy Seq# 11=Extended Parms

Opt Seq No Tran File File Name Ind Description
___ 10 C ___ 2 SEND IBM LOGON_____
/*L ACCT,USRID,PSWD/*S EDIRECTS/*U SNAEDI_____
___ 20 D ___ 5 RECV & DROP WELCOME MESSAGE___
WELCOME TO IBM IN EXPEDITE/DIRECT_____
___ 30 R SP _____ 7 TRAP FOR CHANGE DIRECTION_____

___ 50 C ___ 2 SEND INFO EXCHANGE LOGON_____
IELOGON ACCOUNT(ACCT) USERID(USRID) PASSWORD(PSWD);_____
___ 60 D ___ 7 RECV & DROP DATA SET 1 PROMPT___
TRAP & DROP ALL DATA TILL CHANGE DIRECTION IS RECEIVED_____
___ 70 C ___ 2 SEND RECV REQUEST FOR ERR MSGS
RECEIVE CLASS(SYMSG);_____
___ 90 D ___ 7 RECV & DROP DATA SET 2 PROMPT___
EXPEDITE/DIRECT RECEIVE INPUT DATA SET 0002_____
___ 95 R SP _____ 7 RECV IBM SYS MSGS IF AVAILABLE

___ 97 C ___ 2 SEND RECV REQUEST FOR AUDIT___
RECEIVE CLASS(AUDIT);_____
___ 98 D ___ 7 RECV &DROP DATA SET 3 PROMPT___
EXPEDITE/DIRECT RECEIVE INPUT DATA SET 0003_____
___ 99 R IF IBMNETFIL_ 7 RECV AUDIT RECORDS_____

___ 100 C ___ 2 SEND REQUEST FOR X12 DATA_____
RECEIVE CLASS('#E?') DLM(BLANKS);_____
___ 110 D ___ 7 RECV & DROP DATA SET 4 PROMPT___
EXPEDITE/DIRECT RECEIVE INPUT DATA SET 0004_____
___ 120 R IQ _____ 7 RECV X12 DATA TO INQUE_____

___ 130 C ___ 2 SEND REQUEST FOR SESSION LOG___
RECEIVE CLASS(EDILOG);_____
___ 150 D ___ 7 RECV &DROP DATA SET 5 PROMPT___
EXPEDITE/DIRECT RECEIVE INPUT DATA SET 0005_____
___ 160 R SP _____ 7 RECV NETWORK SESSION LOG_____

```

Figure 5.21 Advantis Sample Script – Session RA (SNA)

- Add Seq Nos. 97, 98, and 99 into your RA session.
- Modify Seq No. 100 as shown above to clarify that you only want EDI-formatted data.
- The AUDIT command is used to ask Advantis to place in your mailbox an audit trail of your sent and received data in prior sessions.
- The RECEIVE CLASS (AUDIT) command is used to tell Advantis that you want to receive the audit trail during this session.
- The audit trail will be received into a file called IBMNETFIL in preparation for reformatting and reconciling.



## GEIS Network

The following reports from the GEIS Network are used by Sterling Gentran:Server:

- **EDXSSTA** – Sender Status Report (supplies information for the “Network Received”, “Network Processed”, and “Partner Picked-Up” tracking points)
- **EDXURET** – Sender Unretrieved Report (supplies information for the “Network Received”, “Network Processed”, and “Partner Picked-Up” tracking points)

The network reconciliation feature supports both Version 1.0 and 2.0 of the GEIS Network reports.

```

EDIX403          Communication Session Control          EDI  04/30/11
CTL01                               12:00:00
Comm Profile ID. . . . . GEIS
Session Name . . . . . RA
Company. . . . . GENERAL ELECTRIC INFO SYSTEMS

Type option, press Enter.
  3=Copy  4=Delete  7=Copy Seq#  11=Extended ParmS

Opt Seq No Tran File File Name  Ind Description
___  5  C  ___  _____  0  SEND USER ID & PASSWORD_____
IDX,PASSW,MAILA_____
___  10  C  ___  _____  0  SEND MAILBOX/PUNCH RECORD_____
*LTID MAILBOXA,CPUNCH_____
___  15  C  ___  _____  0  SEND MODE INPUT RECORD_____
*MODE INPUT(OUTPUT(HISTIDXA),LIST),WAIT,TAB(HSSTABLE)_____
___  37  C  ___  _____  0  SEND RECEIVE REQUEST_____
/EDXRCV_____
___  38  C  ___  _____  0  SND REQUEST FOR SNDR STAT RPT_
/EDXSSTA EF_____
___  39  C  ___  _____  0  SEND REQUEST TO PRINT REPORT__
PRINT RSSTAIDX;MAILBOXA;NONE_____
___  40  C  ___  _____  0  SND REQUEST FOR SNDR UNRTV RPT
/EDXURET EF_____
___  41  C  ___  _____  0  SEND REQUEST TO PRINT REPORT__
PRINT RURETIDX;MAILBOXA;NONE_____
___  45  C  ___  _____  2  SEND END OF SESSION RECORD_____
*EOS_____
___  50  R  SP  _____  9  RECEIVE EDIT & BANNER RPTS_____
___  55  R  IQ  _____  9  RECEIVE X12 TO INQUE_____
___  60  R  IF  GEISNETFIL  8  RECV TTY RPT FOR VIEWPOINT_____

```

Figure 5.22 GEIS Sample Script – RA Session (BSC)

- Add Seq Nos. 38, 39, 40, and 41 into your RA session.
- Modify Seq No. 60 to receive the reports into file GEISNETFIL.
- Seq No. 38 requests your Sender Status report (electronic format).
- Seq No. 39 is used to tell GEIS that you want to receive the Sender Status report during this session.
- Seq No. 40 requests your Sender Unretrieved report (electronic format).
- Seq No. 41 is used to tell GEIS that you want to receive the Sender Unretrieved report during this session.

```

EDIX403          Communication Session Control          EDI   04/30/11
CTL01                                12:00:00
Comm Profile ID. . . . . GEIS
Session Name . . . . . SR
Company. . . . . GENERAL ELECTRIC INFO SYSTEMS

Type option, press Enter.
  3=Copy  4=Delete  7=Copy Seq#  11=Extended Parms

Opt Seq No Tran File File Name  Ind Description
___  5   C   ___   ___   0  SEND USER ID & PASSWORD ___
IDX,PASSW,MAILA
___  10  C   ___   ___   0  SEND MAILBOX/PUNCH RECORD ___
*LTID MAILBOXA,CPUNCH
___  15  C   ___   ___   0  SEND MODE INPUT RECORD ___
*MODE INPUT(OUTPUT(HISTIDXA),LIST),WAIT,TAB(HSSTABLE)
___  20  C   ___   ___   0  SEND START OF DATA RECORD ___
*DATA DOCSIDX(PURE,ASCII)
___  25  S   OQ   ___   0  SEND X12 DATA ___
___  30  C   ___   ___   0  SEND EOF RECORD ___
*EOF
___  35  C   ___   ___   0  SEND SEND-TO-MAILBOX COMMAND ___
/EDXSND DOCSIDX
___  37  C   ___   ___   0  SEND RECEIVE REQUEST
/EDXRVC
___  38  C   ___   ___   0  SND REQUEST FOR SNDR STAT RPT
/EDXSSTA EF
___  39  C   ___   ___   0  SEND REQUEST TO PRINT REPORT
PRINT RSSTAIDX;MAILBOXA;NONE
___  40  C   ___   ___   0  SND REQUEST FOR SNDR UNRTV RPT
/EDXURET EF
___  41  C   ___   ___   0  SEND REQUEST TO PRINT REPORT
PRINT RURETIDX;MAILBOXA;NONE
___  45  C   ___   ___   2  SEND END OF SESSION RECORD
*EOS
___  50  R   SP   ___   9  RECEIVE EDIT & BANNER RPTS
___  55  R   IQ   ___   9  RECEIVE X12 TO INQUE
___  60  R   IF  GEISNETFIL 8  RECV TTY RPT FOR VIEWPOINT

```

Figure 5.23 GEIS Sample Script – SR Session (BSC)

- Add Seq Nos. 38, 39, 40, and 41 into your SR session.
- Modify Seq No. 60 to receive the reports into file GEISNETFIL.
- Seq No. 38 requests your Sender Status report (electronic format).
- Seq No. 39 is used to tell GEIS that you want to receive the Sender Status report during this session.
- Seq No. 40 requests your Sender Unretrieved report (electronic format).
- Seq No. 41 is used to tell GEIS that you want to receive the Sender Unretrieved report during this session.

```

EDIX403          Communication Session Control          EDI    04/30/11
CTL01                                12:00:00
Comm Profile ID. . . . . GEIS
Session Name . . . . . RV
Company. . . . . GENERAL ELECTRIC INFO SYSTEMS

Type option, press Enter.
  3=Copy  4=Delete  7=Copy Seq#  11=Extended ParmS

  Opt Seq No Tran File File Name  Ind Description
  ___  ___  ___  ___  ___  ___  ___
  ___   5   C   ___  _____  0  SEND USER ID & PASSWORD _____
IDX,PASSW,MAILA_____
  ___  10   C   ___  _____  0  SEND MAILBOX/PUNCH RECORD _____
*LTID MAILBOXA,CPUNCH_____
  ___  20   C   ___  _____  0  SEND MODE INPUT RECORD _____
*MODE INPUT(OUTPUT(HISTIDX),LIST),WAIT,TAB(HSSTABLE)_____
  ___  30   C   ___  _____  0  SND REQUEST FOR SNDR STAT RPT_
/EDXSSTA EF_____
  ___  40   C   ___  _____  0  SEND REQUEST TO PRINT REPORT__
PRINT RSSTAIDX;MAILBOXA;NONE_____
  ___  50   C   ___  _____  0  SND REQUEST FOR SNDR UNRTV RPT
/EDXURET EF_____
  ___  60   C   ___  _____  0  SEND REQUEST TO PRINT REPORT__
PRINT RURETIDX;MAILBOXA;NONE_____
  ___  70   C   ___  _____  2  SEND END OF SESSION RECORD _____
*EOS_____
  ___  80   R   IF  GEISNETFIL  8  RECV REPORTS FOR VIEWPOINT _____

```

Figure 5.24 GEIS Sample Script – RV Session (BSC)

If the RV script does not already exist, add it to receive only the Sender Status and Sender Unretrieved reports.

 **NOTE**

The network reconciliation feature needs to receive these reports in a separate session from other GEIS reports because all reports are received to file GEISNETFIL, which is cleared after network reconciliation is updated.

- Seq No. 30 requests your Sender Status report (electronic format).
- Seq No. 40 is used to tell GEIS that you want to receive the Sender Status report during this session.
- Seq No. 50 requests your Sender Unretrieved report (electronic format).
- Seq No. 60 is used to tell GEIS that you want to receive the Sender Unretrieved report during this session.
- Seq No. 80 is used to receive the reports into file GEISNETFIL.

## Summary

Once you have made the required changes to your communications scripts to receive the network reports, your business documents will be tracked through the Audit subsystem.

An example of the audit panels displaying the network status is shown in the following figure.

```

EDIX251          Work with Audit Interchange Status          EDI      04/30/11
FMT01           pgmlib: G3X6PGM      dtalib: G3X6DTA          12:00:00

Position to Partner _____ Qual ____ Created _____

Type option (and Information), press Enter.
  4=Delete  5=View  6=Print EDI  12=Groups  13=Acknowledge  30=Print Audit
                                     S          Status      Created
Opt Interchange Partner              Qual R Control #          A/N/C      Date      Time
-----
___ TP PARTNER                        S 000000000000035      /E/Q 04/30/11 12:00
___ TP PARTNER                        S 000000000000032      /P/Q 04/30/11 12:00
___ TP PARTNER                        S 000000000000029      /P/Q 04/30/11 12:00
___ TP PARTNER                        S 000000000000036      A/R/Q 04/30/11 12:00
___ TP PARTNER                        S 000000000000021      /S/Q 04/30/11 12:00

                                                                 Bottom

Parameters or command
===>
F1=Help  F3=Exit  F12=Cancel  F15=Sort  F23=More Options  F24=More Keys

```

Figure 5.25 Network Reconciliation Status on Work with Audit Interchange Status Panel

## User Exit Layout and Examples

This section contains User Exit information: User Exit Call Block Layouts for element and segment levels, a sample CL User Exit, a sample RPG User Exit, and a sample COBOL User Exit. User exits allow you to temporarily suspend Sterling Gentran:Server processing to call a user-written program. (SEE the Glossary for a complete listing of Sterling Gentran:Server constants, hash totals, and accumulators.) The sample user exits are not intended to be used as shown: they are examples of how user exits might be done for RPG and COBOL.

## User Exit Call Block Layout (Element and Map Run Level)

Positions	Field Content	COBOL Picture	Format	Length	Description
<b>User Block Area</b>					
1-1	Processing Option	X(01)	AN	01	This field is set by the calling program to indicate where in the process the user exit was called. Valid values are: <ul style="list-style-type: none"> <li><input type="radio"/> "S" (process level – start)</li> <li><input type="radio"/> "P" (element level – during process)</li> <li><input type="radio"/> "E" (process level – end)</li> </ul>
2-81	User Defined Area	X(80)	AN	80	This field can be used for any purpose. Its intent was to provide a method of communicating between different exits and subsequent invocations of the same exit in different documents. This field is not used by the mapping process.
82-161	Field to be Mapped	X(80)	AN	80	This field contains the result of the mapping up to the execution of the user exit. The user exit can modify this field, causing the modified data to be mapped.
162-163	Length of Field to be Mapped	S9(04) COMP	BI	02	This field contains the length of the field to be mapped upon execution of the exit. If the user exit modifies the field to be mapped, this field should be modified too.
164-165	Standard Minimum Length	S9(04) COMP	BI	02	This field contains the minimum length of the element to be mapped, as defined by the standard. It should not be modified by the user exit.
166-167	Standard Maximum Length	S9(04) COMP	BI	02	This field contains the maximum length of the element to be mapped, as defined by the standard. It should not be modified by the user exit.

Positions	Field Content	COBOL Picture	Format	Length	Description
168-169	Standard Data Type	X(02)	AN	02	This field contains the data type of the element to be mapped, as defined by the standard. It should not be modified by the user exit.
<b>Constants Block Area</b>					
170-8089	Constants 01 thru 99 <b>99 occurrences</b>	X(80) per occurrence	AN	80 per occurrence; 7920 bytes total	These fields contain the 99 reserved constants that can be referred to on the mapping screens. The user exit can use these fields to pass data within the same document.
<b>Hash Totals Block Area</b>					
8090-8889	Hash Totals 01 thru 80 <b>80 occurrences</b>	S9(12)V9(6) COMP-3 per occurrence	PD	10 per occurrence; 800 total	These fields contain the 80 reserved hash totals that can be referred to on the mapping screens. The user exit can use these fields to pass data within the same document.
<b>Accumulators Block Area</b>					
8890-9689	Accumulators 01 thru 80 <b>80 occurrences</b>	S9(18) COMP-3 per occurrence	PD	10 per occurrence; 800 total	These fields contain the 80 reserved accumulators that can be referred to on the mapping screens. The user exit can use these fields to pass data within the same document.

Figure 5.26 User Exit Call Block (Element and Map Run Level)

## Inbound User Exit Call Block Layout (Segment Level)

Positions	Field Content	COBOL Picture	Format	Length	Description
1-258	Segment	X(258)	AN	258	The inbound segment.  Note: You will only get the first 258 bytes of the segment.
259-8178	Constants 01 thru 99 <b>99 occurrences</b>	X(80) per occurrence	AN	80 per occurrence; 7920 bytes total	These fields contain the 99 reserved constants that can be referred to on the mapping panels. The user exit can use these fields to pass data within the same document.
8179-8978	Hash Totals 01 thru 80 <b>80 occurrences</b>	S9(12)V9(6) COMP-3 per occurrence	PD	10 per occurrence; 800 total	These fields contain the 80 reserved hash totals that can be referred to on the mapping panels. The user exit can use these fields to pass data within the same document.
8979-9778	Accumulators 01 thru 80 <b>80 occurrences</b>	S9(18) COMP-3 per occurrence	PD	10 per occurrence; 800 total	These fields contain the 80 reserved accumulators that can be referred to on the mapping panels. The user exit can use these fields to pass data within the same document.

Figure 5.27 Inbound User Exit Call Block (Segment Level)



## Outbound User Exit Call Block Layout (Segment Level)

Positions	Field Content	COBOL Picture	Format	Length	Description
1-5100	Segment	X(5100)	AN	5100	The outbound segment.
5101-13021	Constants 01 thru 99 <b>99</b> occurrences	X(80) per occurrence	AN	80 per occurrence; 7920 bytes total	These fields contain the 99 reserved constants that can be referred to on the mapping panels. The user exit can use these fields to pass data within the same document.
13022-13822	Hash Totals 01 thru 80 <b>80</b> occurrences	S9(12)V9(6) COMP-3 per occurrence	PD	10 per occurrence; 800 total	These fields contain the 80 reserved hash totals that can be referred to on the mapping panels. The user exit can use these fields to pass data within the same document.
13823-14623	Accumulators 01 thru 80 <b>80</b> occurrences	S9(18) COMP-3 per occurrence	PD	10 per occurrence; 800 total	These fields contain the 80 reserved accumulators that can be referred to on the mapping panels. The user exit can use these fields to pass data within the same document.

Inbound User Exit Call Block (Segment Level)

## Sample CL User Exit (Mapper Run Level)

```

*****
/* MAPEXIT Run level User Exit (sample using CL source) */
/*
/*      This example uses CL source, however, any high-level */
/*      program can be used as long as the program receives */
/*      the incoming parameters properly */
/*
/*
/*****
PGM PARM(&USRBLK &CON &HSH &ACC)
  /* parm list */
  DCL VAR(&USRBLK) TYPE(*CHAR) LEN(169)
  DCL VAR(&CON)    TYPE(*CHAR) LEN(7920)
  DCL VAR(&HSH)   TYPE(*CHAR) LEN(1440)
  DCL VAR(&ACC)   TYPE(*CHAR) LEN(1440)
  DCL VAR(&OPT)   TYPE(*CHAR) LEN(1)
  DCL VAR(&CON51) TYPE(*CHAR) LEN(80)  VALUE('RUN-EXIT-CONSTANT')

  CHGVAR VAR(&OPT) VALUE(%SST(&USRBLK 1 1))
/**/
/* If processing option is 'S', invoke start run logic */
/* else, if processing option is 'E', invoke end run logic */
/**/
  IF COND(&OPT = 'S') THEN(DO)
    SNDPGMMSG MSG('start of map run user exit')
    /* Change constant-51 (run-level) directly into the string */
    CHGVAR VAR(%SST(&CON 4001 80)) VALUE(&CON51)
  ENDDO
  IF COND(&OPT = 'E') THEN(SNDPGMMSG MSG('end of map run user -
    exit'))
END:
DLTOVR FILE(*ALL)
RCLRSC
ENDPGM

```

Figure 5.28 Sample CL User Exit

## Sample RPG User Exit (Element Level)

```

SEQNBR*...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+...
100 F*****
200 F/TITLE CON01          BLANK OUT ELEMENT WHILE MAPPING CONSTANT-01
300 F*****
400 F*
500 F*  PROGRAM ID    - CON01
600 F*
700 F*  PROGRAM NAME - BLANK OUT ELEMENT WHILE MAPPING CONSTANT-01
800 F*
900 F*  PURPOSE      - ALLOWS MAPPING OF CONSTANT WHILE NOT ACTUALLY
1000 F*                MAPPING ELEMENT TO APPLICATION FILE.
1100 F*
1200 F*  AUTHOR       - JOHN Q. PUBLIC
1300 F*
1400 F*  CREATE DATE  - 11/01/97
1500 F*
1600 F*.....
1700 F*
1800 F*  MODIFICATIONS:
1900 F*  DATE:    PROGRAMMER:                TOPIC:
2000 F*
2100 F*****
2200 E/EJECT
2300 E* *****
2400 E*  * ARRAYS FOR COBOL PARMS                *
2500 E* *****
2600 E          CON          99 80          CONSTANT ARRAY
2700 E          HSH          80 18 6        HASH TOTAL ARRAY
2800 E          ACC          80 18 0        ACC. TOTAL ARRAY
2900 E/EJECT
3000 I* *****
3100 I*  * DATA STRUCTURE TO BREAK UP USER-EXIT-CALL-BLOCK *
3200 I* *****
3300 I/SPACE
3400 IEXIT          DS
3500 I
3600 I                1 1 OPT
3700 I                2 81 USRARA
3800 I                82 161 EXTFLD
3900 I                B 162 1630FLDLNG
4000 I                B 164 1650FLDMIN
4100 I                B 166 1670FLDMAX
4200 I                168 169 FLDTYP
4300 I/EJECT
4400 C* *****
4500 C*  * PARM DEFINITIONS                *
4600 C* *****
4700 C/SPACE
4800 C          *ENTRY  PLIST
4900 C                PARM          EXTBLK169          EXIT CALL BLOCK
5000 C                PARM          CON          CONSTANT ARRAY
5100 C                PARM          HSH          HASH TOT. ARRAY
5200 C                PARM          ACC          ACC. TOT. ARRAY
5300 C/EJECT
5400 C* *****
5500 C*  * PROCESS = MOVE EXIT-BLOCK TO EXIT (DS), MOVE *
5600 C*  * EXIT-FIELD TO CONSTANT-01, *BLANK OUT THE EXIT- *
5700 C*  * FIELD, Z-ADD 0 TO FLD-LNG, MOVE EXIT (DS) TO *
5800 C*  * EXIT-BLOCK. *
5900 C* *****
6000 C/SPACE
6100 C          MOVE EXTBLK  EXIT
6200 C* *****
6300 C          MOVE EXTFLD  CON,1
6400 C* *****
6500 C          FLDTYP  IFEQ  AN
6600 C          FLDTYP  OREQ  ID
6700 C          MOVE *BLANK  EXTFLD
6800 C          ELSE
6900 C          MOVE *ZEROS  EXTFLD
7000 C          END
7100 C* *****
7200 C          Z-ADD0  FLDLNG
7300 C* *****
7400 C          MOVE EXIT  EXTBLK
7500 C* *****
7600 C          SETON          LR
7700 C* *****
7800 C/SPACE

```

\* \* \* \* E N D O F S O U R C E \* \* \* \*

Figure 5.29 Sample RPG User Exit

## Sample COBOL User Exit (Element Level)

```

***** Beginning of data *****
0001.00      PROCESS APOST, XREF, VBSUM
0002.00      IDENTIFICATION DIVISION.
0003.00      PROGRAM-ID. LOADCN1.
0004.00      AUTHOR.          IBM
0005.00      DATE-WRITTEN.   11/01/97
0006.00      *          COPY STERLING GENTRAN.
0007.00
0008.00      *  PROGRAM NAME: STERLING GENTRAN MAPPING - LOAD CONSTANT #1
0009.00      *          AND ELIMINATE THE MAPPING.
0010.00
0011.00      ENVIRONMENT DIVISION.
0012.00      CONFIGURATION SECTION.
0013.00
0014.00      INPUT-OUTPUT SECTION.
0015.00      FILE-CONTROL.
0016.00      DATA DIVISION.
0017.00      FILE SECTION.
0018.00          EJECT
0019.00      LINKAGE SECTION.
0020.00
0021.00      01  USER-EXIT-CALL-BLOCK.
0022.00          05  USER-EXIT-PROCOPT          PIC X(01).
0023.00          05  USER-EXIT-USER-AREA      PIC X(80).
0024.00          05  USER-EXIT-FIELD          PIC X(80).
0025.00          05  USER-EXIT-FIELD-LENGTH    PIC S9(04) COMP-4.
0026.00          05  USER-EXIT-FIELD-MIN      PIC S9(04) COMP-4.
0027.00          05  USER-EXIT-FIELD-MAX      PIC S9(04) COMP-4.
0028.00          05  USER-EXIT-FIELD-TYPE      PIC X(02).
0029.00
0030.00      01  PREDEFINED-CONSTANTS.
0031.00          05  CONSTANT-01                PIC X(80).
0032.00          05  CONSTANT-02                PIC X(80).
0033.00          05  CONSTANT-03                PIC X(80).
0034.00          05  CONSTANT-04                PIC X(80).
0035.00          05  CONSTANT-05                PIC X(80).
0036.00          05  CONSTANT-06                PIC X(80).
0037.00          05  CONSTANT-07                PIC X(80).
0038.00          05  CONSTANT-08                PIC X(80).
0039.00          05  CONSTANT-09                PIC X(80).
0040.00          05  CONSTANT-10                PIC X(80).
0041.00          05  CONSTANT-11                PIC X(80).
0042.00          05  CONSTANT-12                PIC X(80).
0043.00          05  CONSTANT-13                PIC X(80).
0044.00          05  CONSTANT-14                PIC X(80).
0045.00          05  CONSTANT-15                PIC X(80).
0046.00          05  CONSTANT-16                PIC X(80).
0047.00          05  CONSTANT-17                PIC X(80).
0048.00          05  CONSTANT-18                PIC X(80).
0049.00          05  CONSTANT-19                PIC X(80).
0050.00          05  CONSTANT-20                PIC X(80).
0051.00          05  CONSTANT-21                PIC X(80).
0052.00          05  CONSTANT-22                PIC X(80).
0053.00          05  CONSTANT-23                PIC X(80).
0054.00          05  CONSTANT-24                PIC X(80).
0055.00          05  CONSTANT-25                PIC X(80).
0056.00          05  CONSTANT-26                PIC X(80).
0057.00          05  CONSTANT-27                PIC X(80).
0058.00          05  CONSTANT-28                PIC X(80).
0059.00          05  CONSTANT-29                PIC X(80).
0060.00          05  CONSTANT-30                PIC X(80).
0061.00          05  CONSTANT-31                PIC X(80).
0062.00          05  CONSTANT-32                PIC X(80).
0063.00          05  CONSTANT-33                PIC X(80).
0064.00          05  CONSTANT-34                PIC X(80).
0065.00          05  CONSTANT-35                PIC X(80).
0066.00          05  CONSTANT-36                PIC X(80).
0067.00          05  CONSTANT-37                PIC X(80).
0068.00          05  CONSTANT-38                PIC X(80).
0069.00          05  CONSTANT-39                PIC X(80).
0070.00          05  CONSTANT-40                PIC X(80).
0071.00          05  CONSTANT-41                PIC X(80).
0072.00          05  CONSTANT-42                PIC X(80).
0073.00          05  CONSTANT-43                PIC X(80).
0074.00          05  CONSTANT-44                PIC X(80).
0075.00          05  CONSTANT-45                PIC X(80).
0076.00          05  CONSTANT-46                PIC X(80).

```

0077.00	05	CONSTANT-47	PIC X(80).
0078.00	05	CONSTANT-48	PIC X(80).
0079.00	05	CONSTANT-49	PIC X(80).
0080.00	05	CONSTANT-50	PIC X(80).
0081.00	05	CONSTANT-51	PIC X(80).
0082.00	05	CONSTANT-52	PIC X(80).
0083.00	05	CONSTANT-53	PIC X(80).
0084.00	05	CONSTANT-54	PIC X(80).
0085.00	05	CONSTANT-55	PIC X(80).
0085.01	05	CONSTANT-56	PIC X(80).
0085.02	05	CONSTANT-57	PIC X(80).
0085.03	05	CONSTANT-58	PIC X(80).
0085.04	05	CONSTANT-59	PIC X(80).
0085.05	05	CONSTANT-60	PIC X(80).
0085.06	05	CONSTANT-61	PIC X(80).
0085.07	05	CONSTANT-62	PIC X(80).
0085.08	05	CONSTANT-63	PIC X(80).
0085.09	05	CONSTANT-64	PIC X(80).
0085.10	05	CONSTANT-65	PIC X(80).
0085.11	05	CONSTANT-66	PIC X(80).
0085.12	05	CONSTANT-67	PIC X(80).
0085.13	05	CONSTANT-68	PIC X(80).
0085.14	05	CONSTANT-69	PIC X(80).
0085.15	05	CONSTANT-70	PIC X(80).
0085.16	05	CONSTANT-71	PIC X(80).
0085.17	05	CONSTANT-72	PIC X(80).
0085.18	05	CONSTANT-73	PIC X(80).
0085.19	05	CONSTANT-74	PIC X(80).
0085.20	05	CONSTANT-75	PIC X(80).
0085.21	05	CONSTANT-76	PIC X(80).
0085.22	05	CONSTANT-77	PIC X(80).
0085.23	05	CONSTANT-78	PIC X(80).
0085.24	05	CONSTANT-79	PIC X(80).
0085.25	05	CONSTANT-80	PIC X(80).
0085.26	05	CONSTANT-81	PIC X(80).
0085.27	05	CONSTANT-82	PIC X(80).
0085.28	05	CONSTANT-83	PIC X(80).
0085.29	05	CONSTANT-84	PIC X(80).
0085.30	05	CONSTANT-85	PIC X(80).
0085.31	05	CONSTANT-86	PIC X(80).
0085.32	05	CONSTANT-87	PIC X(80).
0085.33	05	CONSTANT-88	PIC X(80).
0085.34	05	CONSTANT-89	PIC X(80).
0085.35	05	CONSTANT-90	PIC X(80).
0085.36	05	CONSTANT-91	PIC X(80).
0085.37	05	CONSTANT-92	PIC X(80).
0085.38	05	CONSTANT-93	PIC X(80).
0085.39	05	CONSTANT-94	PIC X(80).
0085.40	05	CONSTANT-95	PIC X(80).
0085.41	05	CONSTANT-96	PIC X(80).
0085.42	05	CONSTANT-97	PIC X(80).
0085.43	05	CONSTANT-98	PIC X(80).
0085.44	05	CONSTANT-99	PIC X(80).
0086.00			
0087.00	01	HASH-TOTALS.	
0088.00	05	HASH-TOTAL-01	PIC S9(12)V9(6) COMP-3.
0089.00	05	HASH-TOTAL-02	PIC S9(12)V9(6) COMP-3.
0090.00	05	HASH-TOTAL-03	PIC S9(12)V9(6) COMP-3.
0091.00	05	HASH-TOTAL-04	PIC S9(12)V9(6) COMP-3.
0092.00	05	HASH-TOTAL-05	PIC S9(12)V9(6) COMP-3.
0093.00	05	HASH-TOTAL-06	PIC S9(12)V9(6) COMP-3.
0094.00	05	HASH-TOTAL-07	PIC S9(12)V9(6) COMP-3.
0095.00	05	HASH-TOTAL-08	PIC S9(12)V9(6) COMP-3.
0096.00	05	HASH-TOTAL-09	PIC S9(12)V9(6) COMP-3.
0097.00	05	HASH-TOTAL-10	PIC S9(12)V9(6) COMP-3.
0098.00	05	HASH-TOTAL-11	PIC S9(12)V9(6) COMP-3.
0099.00	05	HASH-TOTAL-12	PIC S9(12)V9(6) COMP-3.
0100.00	05	HASH-TOTAL-13	PIC S9(12)V9(6) COMP-3.
0101.00	05	HASH-TOTAL-14	PIC S9(12)V9(6) COMP-3.
0102.00	05	HASH-TOTAL-15	PIC S9(12)V9(6) COMP-3.
0103.00	05	HASH-TOTAL-16	PIC S9(12)V9(6) COMP-3.
0104.00	05	HASH-TOTAL-17	PIC S9(12)V9(6) COMP-3.
0105.00	05	HASH-TOTAL-18	PIC S9(12)V9(6) COMP-3.
0106.00	05	HASH-TOTAL-19	PIC S9(12)V9(6) COMP-3.
0107.00	05	HASH-TOTAL-20	PIC S9(12)V9(6) COMP-3.
0107.01	05	HASH-TOTAL-21	PIC S9(12)V9(6) COMP-3.
0107.02	05	HASH-TOTAL-22	PIC S9(12)V9(6) COMP-3.
0107.03	05	HASH-TOTAL-23	PIC S9(12)V9(6) COMP-3.
0107.04	05	HASH-TOTAL-24	PIC S9(12)V9(6) COMP-3.
0107.05	05	HASH-TOTAL-25	PIC S9(12)V9(6) COMP-3.
0107.06	05	HASH-TOTAL-26	PIC S9(12)V9(6) COMP-3.

0107.07	05	HASH-TOTAL-27	PIC S9(12)V9(6)	COMP-3.
0107.08	05	HASH-TOTAL-28	PIC S9(12)V9(6)	COMP-3.
0107.09	05	HASH-TOTAL-29	PIC S9(12)V9(6)	COMP-3.
0107.10	05	HASH-TOTAL-30	PIC S9(12)V9(6)	COMP-3.
0107.11	05	HASH-TOTAL-31	PIC S9(12)V9(6)	COMP-3.
0107.12	05	HASH-TOTAL-32	PIC S9(12)V9(6)	COMP-3.
0107.13	05	HASH-TOTAL-33	PIC S9(12)V9(6)	COMP-3.
0107.14	05	HASH-TOTAL-34	PIC S9(12)V9(6)	COMP-3.
0107.15	05	HASH-TOTAL-35	PIC S9(12)V9(6)	COMP-3.
0107.16	05	HASH-TOTAL-36	PIC S9(12)V9(6)	COMP-3.
0107.17	05	HASH-TOTAL-37	PIC S9(12)V9(6)	COMP-3.
0107.18	05	HASH-TOTAL-38	PIC S9(12)V9(6)	COMP-3.
0107.19	05	HASH-TOTAL-39	PIC S9(12)V9(6)	COMP-3.
0107.20	05	HASH-TOTAL-40	PIC S9(12)V9(6)	COMP-3.
0107.21	05	HASH-TOTAL-41	PIC S9(12)V9(6)	COMP-3.
0107.22	05	HASH-TOTAL-42	PIC S9(12)V9(6)	COMP-3.
0107.23	05	HASH-TOTAL-43	PIC S9(12)V9(6)	COMP-3.
0107.24	05	HASH-TOTAL-44	PIC S9(12)V9(6)	COMP-3.
0107.25	05	HASH-TOTAL-45	PIC S9(12)V9(6)	COMP-3.
0107.26	05	HASH-TOTAL-46	PIC S9(12)V9(6)	COMP-3.
0107.27	05	HASH-TOTAL-47	PIC S9(12)V9(6)	COMP-3.
0107.28	05	HASH-TOTAL-48	PIC S9(12)V9(6)	COMP-3.
0107.29	05	HASH-TOTAL-49	PIC S9(12)V9(6)	COMP-3.
0107.30	05	HASH-TOTAL-50	PIC S9(12)V9(6)	COMP-3.
0107.31	05	HASH-TOTAL-51	PIC S9(12)V9(6)	COMP-3.
0107.32	05	HASH-TOTAL-52	PIC S9(12)V9(6)	COMP-3.
0107.33	05	HASH-TOTAL-53	PIC S9(12)V9(6)	COMP-3.
0107.34	05	HASH-TOTAL-54	PIC S9(12)V9(6)	COMP-3.
0107.35	05	HASH-TOTAL-55	PIC S9(12)V9(6)	COMP-3.
0107.36	05	HASH-TOTAL-56	PIC S9(12)V9(6)	COMP-3.
0107.37	05	HASH-TOTAL-57	PIC S9(12)V9(6)	COMP-3.
0107.38	05	HASH-TOTAL-58	PIC S9(12)V9(6)	COMP-3.
0107.39	05	HASH-TOTAL-59	PIC S9(12)V9(6)	COMP-3.
0107.40	05	HASH-TOTAL-60	PIC S9(12)V9(6)	COMP-3.
0107.41	05	HASH-TOTAL-61	PIC S9(12)V9(6)	COMP-3.
0107.42	05	HASH-TOTAL-62	PIC S9(12)V9(6)	COMP-3.
0107.43	05	HASH-TOTAL-63	PIC S9(12)V9(6)	COMP-3.
0107.44	05	HASH-TOTAL-64	PIC S9(12)V9(6)	COMP-3.
0107.45	05	HASH-TOTAL-65	PIC S9(12)V9(6)	COMP-3.
0107.46	05	HASH-TOTAL-66	PIC S9(12)V9(6)	COMP-3.
0107.47	05	HASH-TOTAL-67	PIC S9(12)V9(6)	COMP-3.
0107.48	05	HASH-TOTAL-68	PIC S9(12)V9(6)	COMP-3.
0107.49	05	HASH-TOTAL-69	PIC S9(12)V9(6)	COMP-3.
0107.50	05	HASH-TOTAL-70	PIC S9(12)V9(6)	COMP-3.
0107.51	05	HASH-TOTAL-71	PIC S9(12)V9(6)	COMP-3.
0107.52	05	HASH-TOTAL-72	PIC S9(12)V9(6)	COMP-3.
0107.53	05	HASH-TOTAL-73	PIC S9(12)V9(6)	COMP-3.
0107.54	05	HASH-TOTAL-74	PIC S9(12)V9(6)	COMP-3.
0107.55	05	HASH-TOTAL-75	PIC S9(12)V9(6)	COMP-3.
0107.56	05	HASH-TOTAL-76	PIC S9(12)V9(6)	COMP-3.
0107.57	05	HASH-TOTAL-77	PIC S9(12)V9(6)	COMP-3.
0107.58	05	HASH-TOTAL-78	PIC S9(12)V9(6)	COMP-3.
0107.59	05	HASH-TOTAL-79	PIC S9(12)V9(6)	COMP-3.
0107.60	05	HASH-TOTAL-80	PIC S9(12)V9(6)	COMP-3.
0108.00				
0109.00	01	ACCUMULATORS.		
0110.00	05	ACCUMULATOR-01	PIC S9(18)	COMP-3.
0111.00	05	ACCUMULATOR-02	PIC S9(18)	COMP-3.
0112.00	05	ACCUMULATOR-03	PIC S9(18)	COMP-3.
0113.00	05	ACCUMULATOR-04	PIC S9(18)	COMP-3.
0114.00	05	ACCUMULATOR-05	PIC S9(18)	COMP-3.
0115.00	05	ACCUMULATOR-06	PIC S9(18)	COMP-3.
0116.00	05	ACCUMULATOR-07	PIC S9(18)	COMP-3.
0117.00	05	ACCUMULATOR-08	PIC S9(18)	COMP-3.
0118.00	05	ACCUMULATOR-09	PIC S9(18)	COMP-3.
0119.00	05	ACCUMULATOR-10	PIC S9(18)	COMP-3.
0120.00	05	ACCUMULATOR-11	PIC S9(18)	COMP-3.
0121.00	05	ACCUMULATOR-12	PIC S9(18)	COMP-3.
0122.00	05	ACCUMULATOR-13	PIC S9(18)	COMP-3.
0123.00	05	ACCUMULATOR-14	PIC S9(18)	COMP-3.
0124.00	05	ACCUMULATOR-15	PIC S9(18)	COMP-3.
0125.00	05	ACCUMULATOR-16	PIC S9(18)	COMP-3.
0126.00	05	ACCUMULATOR-17	PIC S9(18)	COMP-3.
0127.00	05	ACCUMULATOR-18	PIC S9(18)	COMP-3.
0128.00	05	ACCUMULATOR-19	PIC S9(18)	COMP-3.
0129.00	05	ACCUMULATOR-20	PIC S9(18)	COMP-3.
0129.01	05	ACCUMULATOR-21	PIC S9(18)	COMP-3.
0129.02	05	ACCUMULATOR-22	PIC S9(18)	COMP-3.
0129.03	05	ACCUMULATOR-23	PIC S9(18)	COMP-3.
0129.04	05	ACCUMULATOR-24	PIC S9(18)	COMP-3.
0129.05	05	ACCUMULATOR-25	PIC S9(18)	COMP-3.

```

0129.06      05  ACCUMULATOR-26      PIC S9(18)      COMP-3.
0129.07      05  ACCUMULATOR-27      PIC S9(18)      COMP-3.
0129.08      05  ACCUMULATOR-28      PIC S9(18)      COMP-3.
0129.09      05  ACCUMULATOR-29      PIC S9(18)      COMP-3.
0129.10      05  ACCUMULATOR-30      PIC S9(18)      COMP-3.
0129.11      05  ACCUMULATOR-31      PIC S9(18)      COMP-3.
0129.12      05  ACCUMULATOR-32      PIC S9(18)      COMP-3.
0129.13      05  ACCUMULATOR-33      PIC S9(18)      COMP-3.
0129.14      05  ACCUMULATOR-34      PIC S9(18)      COMP-3.
0129.15      05  ACCUMULATOR-35      PIC S9(18)      COMP-3.
0129.16      05  ACCUMULATOR-36      PIC S9(18)      COMP-3.
0129.17      05  ACCUMULATOR-37      PIC S9(18)      COMP-3.
0129.18      05  ACCUMULATOR-38      PIC S9(18)      COMP-3.
0129.19      05  ACCUMULATOR-39      PIC S9(18)      COMP-3.
0129.20      05  ACCUMULATOR-40      PIC S9(18)      COMP-3.
0129.21      05  ACCUMULATOR-41      PIC S9(18)      COMP-3.
0129.22      05  ACCUMULATOR-42      PIC S9(18)      COMP-3.
0129.23      05  ACCUMULATOR-43      PIC S9(18)      COMP-3.
0129.24      05  ACCUMULATOR-44      PIC S9(18)      COMP-3.
0129.25      05  ACCUMULATOR-45      PIC S9(18)      COMP-3.
0129.26      05  ACCUMULATOR-46      PIC S9(18)      COMP-3.
0129.27      05  ACCUMULATOR-47      PIC S9(18)      COMP-3.
0129.28      05  ACCUMULATOR-48      PIC S9(18)      COMP-3.
0129.29      05  ACCUMULATOR-49      PIC S9(18)      COMP-3.
0129.30      05  ACCUMULATOR-50      PIC S9(18)      COMP-3.
0129.31      05  ACCUMULATOR-51      PIC S9(18)      COMP-3.
0129.32      05  ACCUMULATOR-52      PIC S9(18)      COMP-3.
0129.33      05  ACCUMULATOR-53      PIC S9(18)      COMP-3.
0129.34      05  ACCUMULATOR-54      PIC S9(18)      COMP-3.
0129.35      05  ACCUMULATOR-55      PIC S9(18)      COMP-3.
0129.36      05  ACCUMULATOR-56      PIC S9(18)      COMP-3.
0129.37      05  ACCUMULATOR-57      PIC S9(18)      COMP-3.
0129.38      05  ACCUMULATOR-58      PIC S9(18)      COMP-3.
0129.39      05  ACCUMULATOR-59      PIC S9(18)      COMP-3.
0129.40      05  ACCUMULATOR-60      PIC S9(18)      COMP-3.
0129.41      05  ACCUMULATOR-61      PIC S9(18)      COMP-3.
0129.42      05  ACCUMULATOR-62      PIC S9(18)      COMP-3.
0129.43      05  ACCUMULATOR-63      PIC S9(18)      COMP-3.
0129.44      05  ACCUMULATOR-64      PIC S9(18)      COMP-3.
0129.45      05  ACCUMULATOR-65      PIC S9(18)      COMP-3.
0129.46      05  ACCUMULATOR-66      PIC S9(18)      COMP-3.
0129.47      05  ACCUMULATOR-67      PIC S9(18)      COMP-3.
0129.48      05  ACCUMULATOR-68      PIC S9(18)      COMP-3.
0129.49      05  ACCUMULATOR-69      PIC S9(18)      COMP-3.
0129.50      05  ACCUMULATOR-70      PIC S9(18)      COMP-3.
0129.51      05  ACCUMULATOR-71      PIC S9(18)      COMP-3.
0129.52      05  ACCUMULATOR-72      PIC S9(18)      COMP-3.
0129.53      05  ACCUMULATOR-73      PIC S9(18)      COMP-3.
0129.54      05  ACCUMULATOR-74      PIC S9(18)      COMP-3.
0129.55      05  ACCUMULATOR-75      PIC S9(18)      COMP-3.
0129.56      05  ACCUMULATOR-76      PIC S9(18)      COMP-3.
0129.57      05  ACCUMULATOR-77      PIC S9(18)      COMP-3.
0129.58      05  ACCUMULATOR-78      PIC S9(18)      COMP-3.
0129.59      05  ACCUMULATOR-79      PIC S9(18)      COMP-3.
0129.60      05  ACCUMULATOR-80      PIC S9(18)      COMP-3.
0130.00
0131.00      PROCEDURE DIVISION      USING USER-EXIT-CALL-BLOCK
0132.00                                          PREDEFINED-CONSTANTS
0133.00                                          HASH-TOTALS
0134.00                                          ACCUMULATORS.
0135.00
0136.00      MOVE USER-EXIT-FIELD TO CONSTANT-01.
0137.00      MOVE SPACES           TO USER-EXIT-FIELD.
0138.00      MOVE +0                TO USER-EXIT-FIELD-LENGTH.
0139.00
0140.00      GOBACK.

```

Figure 5.30 Sample COBOL User Exit

## CL Example

This section contains a sample CL program that streamlines the EDI flow. *This program is an illustration only*: it is not intended to be used as it appears. Note the usage of the INT (Interactive) parameter with the Sterling Gentran commands, STRCOMSSN and PRCTRIN. When processing Sterling Gentran commands from your CL programs, you should specify INT (\*YES) to keep the command processing with the same job. Otherwise, the command will be submitted to batch using the SBMJOB command and processing will continue before the command completes. (SEE the “Job Scheduler” chapter for information on scheduling CL programs.) The following is an example CL program.

```

SEQNBR*...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+...
100 /*****
200 /* This sample CL accepts Communications profile, Communications */
300 /* session & Mapping application as parameters. */
400 /* */
500 /* Step 1 = Execute the STRCOMSSN command utilizing the parameters*/
600 /* passed. */
700 /* */
800 /* Step 2 = Execute the PRCTRIN command utilizing the parameters */
900 /* passed. */
1000 /* */
1100 /* Step 3 = Execute the CALL command. The CALL would typically */
1200 /* be a user written program to take the output from */
1300 /* PRCTRIN and update the users Purchase Order system.*/
1400 /* */
1500 /* NOTE = Abnormal termination of ANY of the three steps would */
1600 /* result in a message being sent to the QSYSOPR MSGQ. */
1700 /*****
1800
1900 PGM PARM(&PROFILE &SESSION &APPL)
2000
2100 /*****
2200 /* &PROFILE = The communications profile desired */
2300 /* &SESSION = The communications session desired */
2400 /* &APPL = The mapping application desired */
2500 /*****
2600
2700 DCL VAR(&PROFILE) TYPE(*CHAR) LEN(8)
2800 DCL VAR(&SESSION) TYPE(*CHAR) LEN(2)
2900 DCL VAR(&APPL) TYPE(*CHAR) LEN(10)
3000
3100 /*****
3200 /* Step 1 = Execute the STRCOMSSN command utilizing the parameters*/
3300 /* passed. */
3400 /* */
3500 /* NOTE = Abnormal termination of this step will result in a */
3600 /* message being sent to the QSYSOPR MSGQ. */
3700 /*****
3800
3900 STRCOMSSN PROFIL(&PROFILE) SSN(&SESSION) INT(*YES)
4000 MONMSG MSGID(CPF0000) EXEC(GOTO CMDLBL(ERROR))
4100
4200 /*****
4300 /* Step 2 = Execute the PRCTRIN command utilizing the parameters */
4400 /* passed. */
4500 /* */
4600 /* NOTE = Abnormal termination of this step will result in a */
4700 /* message being sent to the QSYSOPR MSGQ. */
4800 /*****
4900
5000 PRCTRIN COMPRF(&PROFILE) APPID(&APPL) INT(*YES)
5100 MONMSG MSGID(CPF0000) EXEC(GOTO CMDLBL(ERROR))
5200
5300 /*****
5400 /* Step 3 = Execute the CALL command. The CALL would typically */
5500 /* be a user written program to take the output from */
5600 /* PRCTRIN and update the users Purchase Order system.*/
5700 /* */
5800 /* NOTE = Abnormal termination of this step will result in a */
5900 /* message being sent to the QSYSOPR MSGQ. */
6000 /*****
6100
6200 CALL PGM(YOURLIB/YOURPGM) PARM('X' 'Y' 'Z')

```



```
6300          MONMSG      MSGID(CPF0000) EXEC(GOTO CMDLBL(ERROR))
6400
6500 /*****
6600 /* NOTE      = Normal completion of ALL steps will result in      */
6700 /*          bypassing the ERROR command label.                    */
6800 /*****
6900
7000          GOTO CMDLBL(END)
7100
7200 /*****
7300 /* NOTE      = ERROR command label. This is the GOTO destination  */
7400 /*          for abnormal termination of steps 1, 2 &3.            */
7500 /*****
7600
7700 ERROR:      SNDPGMMSG  MSG('An error ocured during the execution +
7800              of one of the steps contained in +
7900              SAMPLECL.') TOMSGQ(*SYSOPR)
8000
8100 /*****
8200 /* NOTE      = END command label. This is the GOTO destination  */
8300 /*          for normal completion of steps 1, 2 &3.            */
8400 /*****
8500
8600 END:        ENDPGM
8700
```

\* \* \* \* E N D O F S O U R C E \* \* \* \*

Figure 5.31 CL Example



## In this Chapter

This chapter describes setting up, viewing, and using the Message Center for Sterling Gentran:Server. The chapter covers the following topics:

- What is the Message Center? ..... 6-1
- Panel Quick Reference ..... 6-2
- Access the Message Center Subsystem ..... 6-4
- Configure the Message Center ..... 6-6
- Search the Message Center ..... 6-9
- Work with the Message Center ..... 6-14
- Print the Message Center Entries Report ..... 6-43
- Purge the Message Center (PRGMSGCTR)..... 6-50
- Retrieve the Message Center (RTVMSGCTR)..... 6-53
- Reports ..... 6-55

## What is the Message Center?

The Sterling Gentran:Server Message Center is a centralized tool that provides a way to track and monitor the completion of selected procedures. During processing, the system captures any warnings or errors that have occurred during execution and logs them in the Message Center. Upon completion of the job, an overall return code is issued for the job in both the Message Center database and a new data area. This return code can be monitored by using the online panels or by generating reports. The user can configure the system to log all, none, or selected Sterling Gentran jobs.

# Panel Quick Reference

The following table gives the purpose and access methods for the panels in the Message Center.

Panel Name	Purpose	Access Method
GENMSG Sterling Gentran:Server Message Center Menu	Select an option to work with Message Center	<ul style="list-style-type: none"> <li>○ Select option '9' on the GENMAIN menu</li> <li>○ Type 'GO GENMSG' on the command line</li> </ul>
SLTMSG Select Message Center Records	Search for Message Center records using selection criteria	<ul style="list-style-type: none"> <li>○ Select option '1' on the GENMSG menu</li> <li>○ Prompt 'SLTMSG' on the command line</li> </ul>
EDIX600-FMT01 Work with Message Center	Work with Message Center entries	<ul style="list-style-type: none"> <li>○ Enter option '2' on the GENMSG menu</li> <li>○ Enter 'EXCPGM EDIX600' on the command line</li> </ul>
EDIX601-FMT01 Job Detail	View detailed error information for a specific job	<ul style="list-style-type: none"> <li>○ Select option '11' on panel EDIX600</li> </ul>
EDIX601-FMT02 Display	View specific errors/warnings	<ul style="list-style-type: none"> <li>○ Select option '5' on panel EDIX601-FMT01</li> </ul>
EDIX610-FMT01 Message Center Configuration	Message Center configuration	<ul style="list-style-type: none"> <li>○ Select option '3' on the GENMSG menu</li> <li>○ Enter 'EXCPGM EDIX610' on the command line</li> </ul>
PRTMSGCTR Print Message Center Entries Report	Print selected list of jobs	<ul style="list-style-type: none"> <li>○ Select option '4' on the GENMSG menu</li> <li>○ Select option '30' on panel EDIX600</li> <li>○ Prompt 'PRTMSGCTR' on the command line</li> </ul>
PRTMSGDTL Print Message Center Job Detail	Print Message Center Job Detail Report	<ul style="list-style-type: none"> <li>○ Select option '5' on the GENMSG menu</li> <li>○ Select option '6' on panel EDIX600</li> <li>○ Press <b>F21</b> (Prt Detail) on panel EDIX601</li> <li>○ Prompt 'PRTMSGDTL' on the command line</li> </ul>

Panel Name	Purpose	Access Method
PRGMSGCTR Purge Message Center Files	Perform routine housekeeping purges on the Message Center files	<ul style="list-style-type: none"><li>○ Select option '6' on the GENMSG menu</li><li>○ Select option '40' on panel EDIX600</li><li>○ Prompt 'PRGMSGCTR' on the command line</li></ul>
RTVMSGCTR Retrieve Message Center Files	Retrieve the Message Center Records from tape or save file	<ul style="list-style-type: none"><li>○ Select option '7' on the GENMSG menu</li><li>○ Select option '41' on panel EDIX600</li><li>○ Prompt 'RTVMSGCTR' on the command line</li></ul>

## Access the Message Center Subsystem

The Message Center Menu (GENMSG) is the starting point for all the tasks associated with configuring, viewing, and monitoring the Message Center. From this panel, you can go to the Message Center Search Utility, Work with the Message Center entries, Configure the Message Center, Print, Purge, and Retrieve the messages.

To access the Message Center menu, select option '9' (Message Center Menu) on the Sterling Gentran:Server menu (GENMAIN).

```
GENMAIN          Sterling Gentran:Server for iSeries Version 3.6
                                     System:   ISDDEV01

Select one of the following:

    1. Work with Partners
    2. Work with Application Definition
    3. Mapping Menu                (GENMAP)
    4. Communications Menu        (GENCOM)
    5. Work with Standards
    6. Work with Environment Control

    8. Audit Menu                 (GENAUD)
    9. Message Center Menu        (GENMSG)
   10. Processing Menu           (GENPRE)
   11. System Administration Menu (GENSYS)
   12. Viewpoint Menu            (GENVPT)
   13. Gentran File Tracking Menu (GENFILETRK)
   14. Gentran:Server Search Index

                                     More...

Selection or command
====> 9

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F13=User Support
```

Figure 6.1 Access the Message Center Menu from GENMAIN

The Message Center Menu (GENMSG) displays.

```
GENMSG          Sterling Gentran:Server Message Center 3.6
                                     System:   ISDDEV01

Select one of the following:

    1. Message Center Search Utility          (SLTMSG)
    2. Work with Message Center
    3. Message Center Configuration
    4. Print Message Center Entries Report    (PRTMSGCTR)
    5. Print Message Center Job Detail       (PRTMSGDTL)
    6. Purge Message Center Files           (PRGMSGCTR)
    7. Retrieve Message Center Files        (RTVMSGCTR)

    90. Sign off

Selection or command
===> _____

F3=Exit   F4=Prompt   F9=Retrieve   F12=Cancel   F13=User Support
```

Figure 6.2 Sterling Gentran:Server Message Center (GENMSG) panel

## Configure the Message Center

Use of the Message Center is controlled through the Message Center Configuration panel. You can globally turn the Message Center on or off, and select the specific commands that you wish to monitor from this screen.

To access the Configuration screen, select option '3' (Message Center Configuration) from the Sterling Gentran:Server Message Center Menu (GENMSG) as shown in the following figure:

```
GENMSG                Sterling Gentran:Server Message Center 3.6
                                                              System:   ISDDEV01

Select one of the following:

  1. Message Center Search Utility          (SLTMSG)
  2. Work with Message Center
  3. Message Center Configuration
  4. Print Message Center Entries Report    (PRMSGCTR)
  5. Print Message Center Job Detail       (PRTMSGDTL)
  6. Purge Message Center Files           (PRMSGCTR)
  7. Retrieve Message Center Files        (RTVMSGCTR)

90. Sign off

Selection or command
====> 3

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F13=User Support
```

Figure 6.3 Access the Message Center Configuration panel from GENMSG



## Modify the Message Center Configuration

The Message Center Configuration panel (EDIX610-FMT01) displays with the default values. This panel and the default values are illustrated below.

```

EDIX610                      Message Center Configuration                      EDI 04/30/11
FMT01                          12:00:00

Activate Messaging . . . . . Y (Y/N)

Function                      Select                      Function                      Select
                          (Y/N)                      (Y/N)

ADD . . . . . Y           PRGAUD . . . . . Y
AUDITPURGE . . . . . Y   PRGCHF . . . . . Y
EXTRACT . . . . . Y     PRGIBQ . . . . . Y
GENINSCMD . . . . . Y   PRGMSGCTR. . . . . Y
GENMQRCV . . . . . Y    PRGNET . . . . . Y
GENMQSND . . . . . Y    PRGOBQ . . . . . Y
GENPAGE. . . . . Y     PRGSCH . . . . . Y
PRCTRININ . . . . . Y   PRGVAT . . . . . Y
PRCTRNOUT . . . . . Y   PRGVPT . . . . . Y
PRGALL . . . . . Y     RMVGENMBR . . . . . Y
PRGALLA . . . . . Y    STRCOMSSN/STRCOMSNT . . . . . Y

Update Allowed . . . . . Y
F1=Help  F5=Refresh  F10=Update  F12=Cancel
    
```

Figure 6.4 Message Center Configuration panel (EDIX610-FMT01)

Field Definitions

Field	Definition
<p><b>Activate Messaging</b></p>	<p>This parameter is used to turn the entire Message Center on or off. To use the Message Center, enter 'Y' in this field. This activates the Message Center and allows you to select the desired commands you wish to monitor. If you wish to stop all message logging, simply enter 'N' in this field and the Message Center is disabled.</p> <p>By using this field to turn the Message Center on and off, you do not have to turn off each individual command to disable the Message Center.</p>
<p><b>ADD</b>  <b>AUDITPURGE</b>  <b>EXTRACT</b>  <b>GENINSCMD</b>  <b>GENMQRCV</b>  <b>GENMQSND</b>  <b>GENPAGE</b>  <b>PRCTRNIN</b>  <b>PRCTRNOU</b>  <b>PRGALL</b>  <b>PRGALLA</b>  <b>PRGAUD</b>  <b>PRGCHF</b>  <b>PRGIBQ</b>  <b>PRGMSGCTR</b>  <b>PRGNET</b>  <b>PRGOBQ</b>  <b>PRGSCH</b>  <b>PRGVAT</b>  <b>PRGVPT</b>  <b>RMVGENMBR</b>  <b>STRCOMSSN/  STRCOMSSNT</b></p>	<p>These fields represent specific commands and groups of commands that can be tracked in the Message Center. Valid values are:</p> <p>'Y' Yes activates messaging for the specific command. Each time the command is executed, an entry is logged in the Message Center giving any detailed messages associated with that run. Upon completion, the final return code is logged in the Message Center and in the data area QTEMP/MSGJOBCE.</p> <p>'N' No disables messaging for this command.</p> <p><b>Note</b>  The Message Center logs all communications jobs, if the STRCOMSSN/STRCOMSSNT is activated, with the exception of FTP Server. This type of communications job is not logged.</p>

# Search the Message Center

The Message Center Search Utility enables you to selectively search the Message Center for records using selection criteria to narrow your search. Data will be filtered out.

To start the Message Center search, select option '1' from the Sterling Gentran:Server Message Center menu (GENMSG), as shown in the following figure.

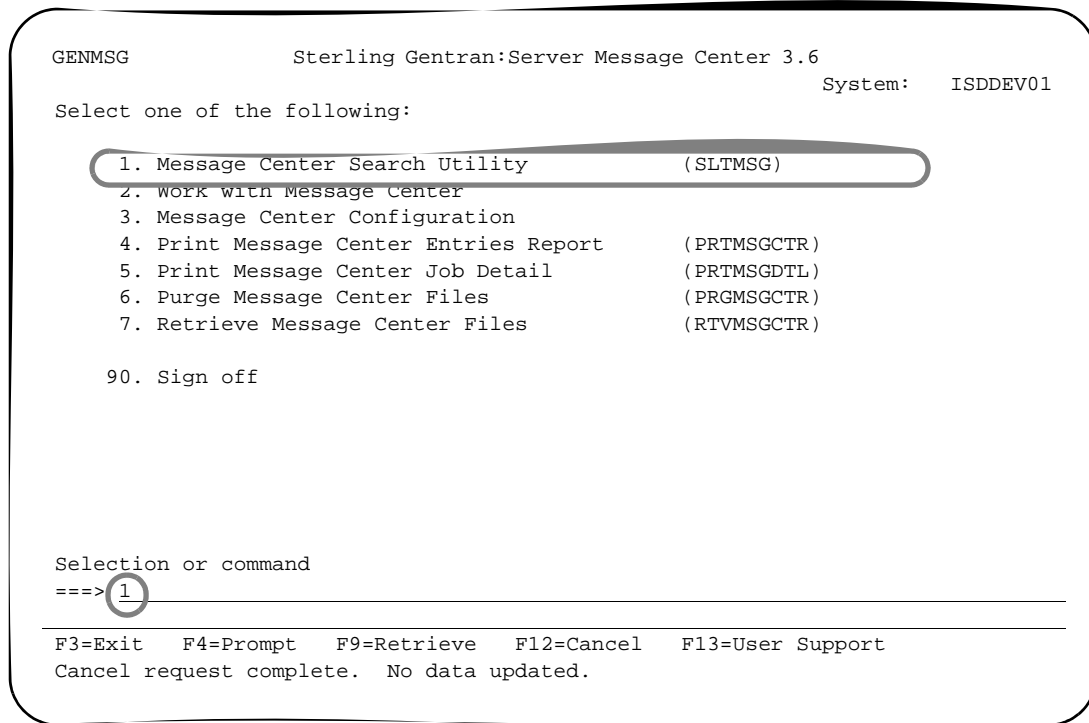


Figure 6.5 Access the Select Message Center Entries (SLTMSG) panel from GENMSG

The Select Message Center Entries panel (SLTMSG) displays. Press **F10** for additional parameters.

```

Select Message Center Entries (SLTMSG)

Type choices, press Enter.

Age Selection . . . . . *ALL      *DATE, *DAYS, *HOURS, *ALL
Command Name beginning with . . *ALL      *ALL, Name
Process Name beginning with . . *ALL
Severity to Display . . . . . *ALL      *ALL, 4, 8, 12, 16
Output . . . . . *          *, *OUTFILE, *PRINT

Additional Parameters

Run Interactively? . . . . . *YES      *YES, *NO
Schedule Job? . . . . . *NO        *NO, *YES

Bottom
F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
    
```

Figure 6.6 Message Center Entries panel (SLTMSG), with additional parameters shown

You can use any combination of the search criteria to narrow your search. For this example, enter the search criteria in this table.

Search Field	Search Value	Purpose
Age Selection	*HOURS	Limits the search to records that have been logged within the last few (you select number) hours.
Process Name	INBOUND850	Displays only those records that have a process name of 'INBOUND850'.
Severity to Display	4	Only displays those records that have an ending code of 4 or higher.
Hours to Include	8	Only displays those records that have been logged in the last 8 hours.

After the search criterion is entered, press **Enter** to begin the selection process. The Output field defaults to '\*', so the information displays on the screen (on the Work with Message Center panel (EDIX600-FMT01), which is described in the next section.

---

 **NOTE**

In our example, we're using INBOUND850 as the process name. However, you may enter/search on any customized process name you have used.

---

## Field Descriptions

### **Age Selection**

An age selection criteria for which you want to display message center records. After selecting one of the valid values and pressing **Enter**, the system displays a prompt line with an eight-position entry field enabling you to further define your selection.

Valid values are:

- \*DATE Select Message Center records for a selected range of dates. The system prompts you for the date range after Enter is pressed.
- \*DAYS Select Message Center records for a specified range of days. The system prompts you for the days range after Enter is pressed.
- \*HOURS Select Message Center records for a selected number of hours old. The system prompts you for the hours old after Enter is pressed.
- \*ALL Select all records.

### **Process Name beginning with**

A 15-position alphanumeric field used to enter a specific process name to define your Message Center selection. The process name is recorded when the job is executed and initially defaults to the command name but can be customized per run. Enter \*ALL if you wish to select all process names.

### **Command Name beginning with**

A 10-position alphanumeric field used to select specific command names that are recorded in the Message Center. Enter \*ALL to select all commands.

### **Severity to Display**

Use this field to select all of the job entries that have the particular return code beginning with the severity entered or higher.

Valid values are:

- \*ALL All return codes will be displayed
- 4 or 04 Entries that have return codes of 04 through 16
- 8 or 08 Entries that have return codes of 08 through 16
- 12 Entries that have return codes of 12 through 16
- 16 Entries that have a return code of 16

**Output**

Select the output method: Enter '\*' to display on the screen, '\*OUTFILE' to write to a file, or '\*PRINT' to send the output to a printer. The default is to the screen. To use a different method, enter the desired parameter in the Output field on the SLTMSG panel. The following table shows the result of using each output option.

Output Field Entry	Output sent to	Result	Output generated if no matching records found?
*	Screen	Work with Message Center panel displays with the results	Yes. Message "No records found greater than or equal to search request" displayed on screen.
*OUTFILE	Output File	Additional fields displayed on SLTMSG panel for library and file name selection. Output file generated for specified library and file.	No.
*PRINT	Printer	Results are sent to spool file	Yes. Selection criteria and the message, 'There were no records to print. Input file is empty.' is printed.

**Print Detail**

This prompt is only entered when \*PRINT is selected for the Output option.

\*NO prints the header information only.

\*YES prints the detailed error information along with the header information.

**From #, \*CURRENT, or Date**

This field displays when you enter a value of '\*DATE' or '\*DAYS' for the Age Selection Type.

When \*DAYS is specified, enter a number for the 'From' portion of the days range to be included. For example, to select the last three days, the 'From' number would be '0' (from zero to three days old).

When \*DATE is specified, enter a date (or \*CURRENT) for the 'From' portion of the date range to be included. This is the oldest date to be included.

**To #, \*CURRENT, or Date**

This field displays when you enter a value of \*DATE or \*DAYS in the Age Selection Type.

If you are using \*DAYS, specify the number for the 'To' portion of the days range to be included. For example, to select the last three days, the 'To' number would be '3' (from zero to three days old).

When \*DATE is specified, enter a date (or \*CURRENT) for the 'To' portion of the date range to be included. This is the most recent date to be included.

**Hours to Include**

This field is shown when \*HOURS is specified for the age type. This field allows you to specify number of hours from the current hour to be included. Entries will be included from 0 to the number of hours old that is specified here. For example, if you only want to look at the most recent 4 hours, you'd enter 4 in this field for the number of hours to include from the current hour.

**Additional Parameters****Run Interactively?**

This parameter enables you to perform the process interactively (immediately). To work with the results of the selected records online, specify \*YES; otherwise, the results will be submitted to batch.

**Schedule Job?**

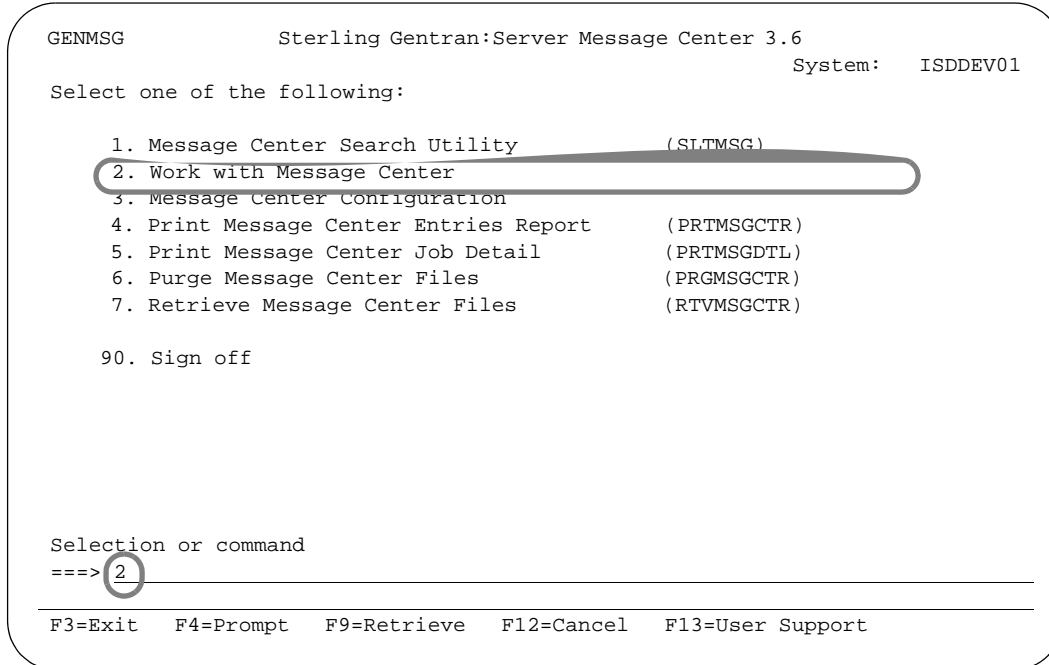
This field is used to designate whether you want to schedule the command to run as a batch job at a later time. The default value is \*NO. If the value is \*YES, the system displays the Schedule Job panel (SCHJOB) for scheduling options.

## Reviewing Search Results

Once you have selected the output method and the query is run, the results are either shown on the screen, sent to a file, or printed. When the results are shown on the screen, the Work with Message Center panel (EDIX600) displays, which is described in the next section. When the results are printed, report EBDI616 (Message Center Entries Report) is printed, which is described later in this chapter.

# Work with the Message Center

To access the Work with Message Center panel, select option '2' (Work with Message Center) on the Sterling Gentran:Server Message Center menu (GENMSG).



GENMSG Sterling Gentran:Server Message Center 3.6 System: ISDDEV01

Select one of the following:

1. Message Center Search Utility (SLTMSG)
2. Work with Message Center
3. Message Center Configuration
4. Print Message Center Entries Report (PRTMSGCTR)
5. Print Message Center Job Detail (PRTMSGDTL)
6. Purge Message Center Files (PRGMSGCTR)
7. Retrieve Message Center Files (RTVMSGCTR)

90. Sign off

Selection or command  
====> 2

F3=Exit F4=Prompt F9=Retrieve F12=Cancel F13=User Support

Figure 6.7 Access Work with Message Center from GENMSG



The Work with Message Center panel (EDIX600-FMT01) displays. All online tasks associated with the Message Center are available from the Work with Message Center panel.

```

EDIX600          Work with Message Center          EDI  04/30/11
FMT01           pgmlib: G3X6PGM      dtalib: G3X6DTA      12:00:00
                                           All Jobs

Position to Date_____ Time _____
Type option (and Information), press Enter.
  4=Delete 5=Spooled Files 6=Print 7=Work Job 11=Job Detail

Opt Process          Generation          Job
  Name              Cd Message          Date      Time  Job Name  Number
-- PRCTRNIN         08 Map Err./Edt Err  04/30/2011 14:17:03 PRCTRNIN 170493
-- PRCTRNIN         00 Completed Normal  04/30/2011 10:47:25 PRCTRNIN 170469
-- PRCTRNIN         00 Completed Normal  04/30/2011 10:46:59 PRCTRNIN 170468
-- PRCTRNIN         00 Completed Normal  04/30/2011 16:18:28 PRCTRNIN 170369
-- PRCTRNIN         08 Map Err./Edt Comp 04/30/2011 17:02:34 PRCTRNIN 170005
-- PRCTRNIN         00 Completed Normal  04/30/2011 15:43:41 PRCTRNIN 169988
-- PRCTRNIN         00 Completed Normal  04/30/2011 15:18:49 PRCTRNIN 169984
-- PRCTRNIN         16 Job Aborted      04/30/2011 14:27:04 PRCTRNIN 166320
-- EXTRACT          16 Job Aborted      04/30/2011 15:40:18 QPADEV0006 165566
-- PRCTRNIN         08 Map Comp/Edt Err  04/30/2011 11:40:04 PRCTRNIN 162784
                                           More...

Parameters or command
====>
F1=Help F6=More/Less F12=Cancel F15=Sort F23=More Options F24=More Keys
    
```

Figure 6.8 Work with Message Center panel (EDIX600-FMT01)

## View the Message Center Records

The Work with Message Center panel (EDIX600-FMT01) is the starting point to view all messages logged in the Message Center. This panel displays the primary information associated with each entry in the Message Center.

### Field Definitions

#### Process Name

This is the 15-byte name given to the job at the time the command was initiated. This field can be used to help further identify the job that is running.

#### Example:

Every day at noon, our ABC Company executes a PRCTRNIN for all inbound 850s. The process name that ABC Company has chosen is 'INBOUND 850.' Every time this application is executed, the 'INBOUND 850' process name displays in this column.

**Cd and Message**

This is the final return code and description of the job. This table lists the possible values for these fields, with the exception of PRCTRININ and PRCTRNOOUT, which are discussed next.

Return Code		Description
00	Completed Normal	The job ended successfully without any problems.
04	Informational Msg	An informational message was issued.
08	Warning Issued	A warning was issued. Processing continued.
12	Error Occurred	An error occurred and a portion of the job was not able to complete.
16	Job Aborted	The job aborted, or check job status.

Since the PRCTRININ and PRCTRNOOUT jobs are divided into two main components (mapper and editor), the description is broken down as well, providing the job executed to completion. If the job does not advance to the mapper/editor, the codes and messages listed above are used. Otherwise, the first half of the description displays the mapper status and the second half displays the editor status. When the job is complete, the return codes issued from both the mapper and editor are evaluated and the final return code is issued. The two descriptions are separated by a slash (/). Refer to the following example.

**Example:**

'Map Comp/Edt Warn' indicates the mapper completed normally and the editor had a warning.

**NOTE**

The job header is initially posted to the message center with a return code of 16, Check Job Status. It will be updated at the end of the job with the actual completion job return code and description. While the job is running, the user can press F6 (More/Less) to see the current status of the job.

The following mapper descriptions are available:

Code/Mapper		Description
00	Map Comp	Completed successfully.
00	Map None	The mapper was not executed during this run (Inbound only) and indicates the APPID parameter was *NONE.
04	Map Info	Received an informational message, but no data was changed.
08	Map Err	Received an error on a segment/element. The data was altered.
12	Map Susp	A document could not be processed, but processing continued.
16	Map Halt	The job halted in the mapper.

The following editor descriptions are available:

Code/Editor		Description
00	Edt Comp	Completed successfully.
00	Edt None	The editor was not executed during this run (Inbound only), and indicates the COMPRF parameter was *NONE.
04	Edt Info	Received an informational message, but no data was changed.
08	Edt Err	Received an error on a segment/element. The data was altered.
12	Edt Susp	A document could not be processed, but processing continued for the job.
16	Edt Halt	The job halted in the editor.

 **NOTE**

All jobs are assigned a return code of '16 Check Job Status' when they first enter the system. This accounts for an entry being logged for every job that enters the system. When the job ends normally, the final return code and description is updated at completion time. However, if the job aborts for some reason and does not have a controlled end, an entry has at least been logged for that job and the user is able to easily determine that a problem has occurred. The return code remains '16.'

**Generation Date/Time**

This is the date and time that the job entered the system. The date displays in the format selected in Environment Control. The date is internally stored in a CYYMMDD packed format.

**Job Name**

This is the iSeries job name assigned by the system when the job is executed.

**Job Number**

This is the iSeries job number assigned by the system when the job is executed.

## View Additional Fields from the Work with Message Center Panel

Press **F6** (More/Less) from the Work with Message Center panel to view the subfile with an additional row of information.

```

EDIX600                Work with Message Center                EDI  04/30/11
FMT01                  pgmlib: G3X6PGM      dtalib: G3X6DTA      12:00:00
                                                              All Jobs

Position to Date_____ Time _____
Type option (and Information), press Enter.
  4=Delete  5=Spooled Files  6=Print  7=Work Job  11=Job Detail

Opt Process                Generation                Job
Name                      Cd Message          Date      Time  Job Name  Number
--- PRCTRNN                08 Map Err./Edt Err  04/30/2011  14:17:03 PRCTRNN  170493
   User EDI                Cmd Name PRCTRNN    Sts Complete  Msg Seq#   138
--- PRCTRNN                00 Completed Normal  04/30/2011  10:47:25 PRCTRNN  170469
   User EDI                Cmd Name PRCTRNN    Sts Complete  Msg Seq#   137
--- PRCTRNN                00 Completed Normal  04/30/2011  10:46:59 PRCTRNN  170468
   User EDI                Cmd Name PRCTRNN    Sts Complete  Msg Seq#   136
--- PRCTRNN                00 Completed Normal  04/30/2011  16:18:28 PRCTRNN  170369
   User EDI                Cmd Name PRCTRNN    Sts Complete  Msg Seq#   135
--- PRCTRNN                08 Map Err./Edt Comp 04/30/2011  17:02:34 PRCTRNN  170005
   User EDI                Cmd Name PRCTRNN    Sts Complete  Msg Seq#   134
                                                              More...

Parameters or command
===> _____
F1=Help  F6=More/Less  F12=Cancel  F15=Sort  F23=More Options  F24=More Keys
    
```

Figure 6.9 Work with Message Center panel (EDIX600-FMT01) with additional fields

### Field Definitions for the unfolded row (when More/Less is pressed)

**User**

The user ID of the person who executed the job.

**Cmd Name**

The Sterling Gentran command name that was executed.

**Sts**

A short description of the current status of the job. During a purge function, the status of the job is updated in the Message Center when data is purged and then when the file is reorganized.

**Msg Seq#**

An internal sequence number that uniquely identifies all jobs logged in the Message Center. This sequence number can be used on the PRTMSGDTL command.

Sort Options

The default sort order for the Message Center is all entries by date and time. You can override the default sort order using the 'Set Message Center Sort' option (SETMSGSRST) on the System Configuration menu. (SEE the "System Considerations" chapter in this guide for more information about working with system configuration options.)

To access the data in a different order, or to use filtering criteria, use the following sort options:

<b>Sort Options for...</b>
<b>All Jobs</b>
<ul style="list-style-type: none"> <li>■ Date, Time (Date and time created)</li> <li>■ Process (Process Name), Date, Time (Date and time created)</li> <li>■ User (iSeries user), Date, Time (Date and time created)</li> <li>■ Job Name (iSeries Job Name), Date, Time (Date and time created)</li> <li>■ Msg Seq# (Internal message sequence number)</li> <li>■ Command (Command Name), Date, Time (Date and time created)</li> </ul>
<b>Errors/Warnings</b>
<b>(Displays ONLY those jobs that have a return code greater than '00')</b>
<ul style="list-style-type: none"> <li>■ Date, Time (Date and time created)</li> <li>■ Process (Process name), Date, Time (Date and time created)</li> <li>■ User (iSeries user), Date, Time (Date and time created)</li> <li>■ Job Name (iSeries Job Name), Date, Time (Date and time created)</li> <li>■ Command (Command Name), Date, Time (Date and time created)</li> </ul>

 **NOTE**

The date/time sorts are in descending order.

The Position To fields can be used to quickly access the information being searched. These fields will change according to the selected sort option.

The following figure illustrates the sort feature. Press **F15** to display the Sort window.

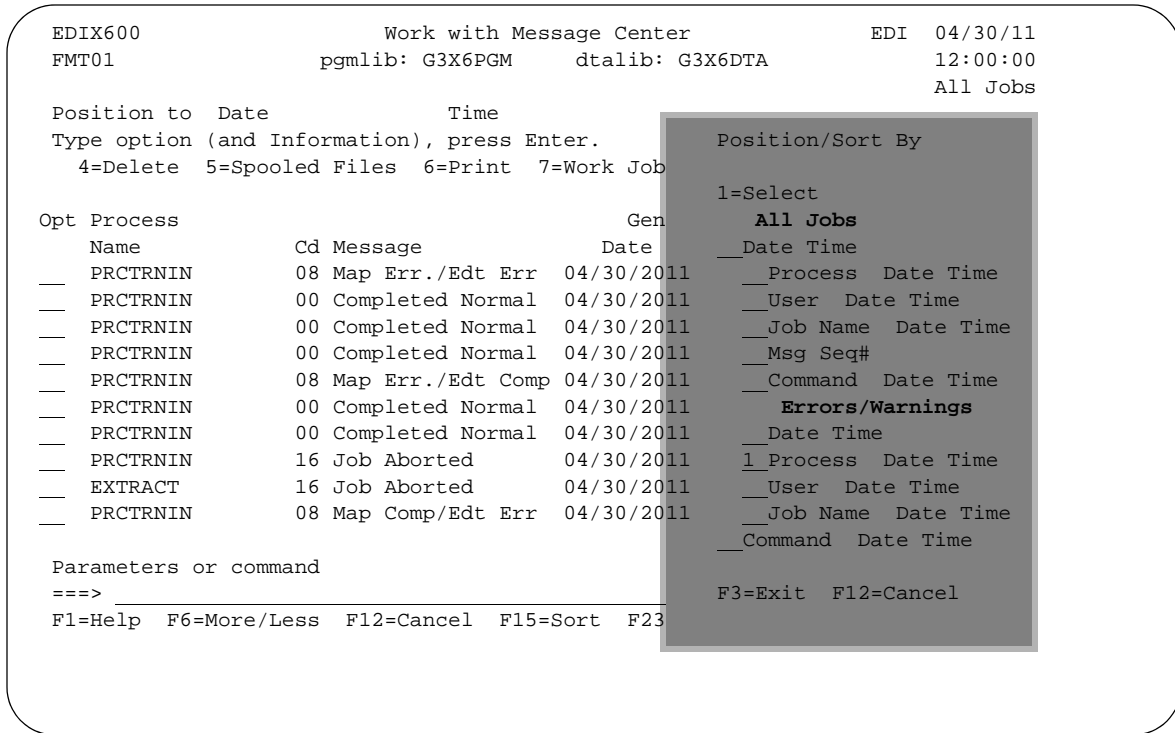


Figure 6.10 Work with Message Center panel (EDIX600-FMT01) – Sort Window

To select a sort option for the Message Center, type '1' in the Option field next to the sort option you want to use and press **Enter**.

In this example, select 'Process Date Time' for Errors/Warnings which limits the information displayed to only those entries with a return code of 04 or greater.

The Work with Message Center panel displays and indicates the sort is by Errors/Warnings.

```

EDIX600                Work with Message Center                EDI  04/30/11
FMT01                  pgmlib: G3X6PGM          dtalib: G3X6DTA          12:00:00
                                                                All Jobs

Position to  Process _____ Date _____ Time _____
Type option (and Information), press Enter.
  4=Delete  5=Spooled Files  6=Print  7=Work Job  11=Job Detail

Opt Process
Name          Cd Message          Date      Time      Job Name      Job
---          -
EXTRACT      16 Job Aborted          04/30/2011  15:40:18  QPADEV0006  165566
---          -
INBOUND850   08 Map Err./Edt None  04/30/2011  14:51:13  PRCTRININ   087018
---          -
INBOUND850   04 Map Info/Edt Comp  04/30/2011  15:08:34  PRCTRININ   081363
---          -
PRCTRININ    08 Map Err./Edt Err   04/30/2011  14:17:03  PRCTRININ   170493
---          -
PRCTRININ    08 Map Err./Edt Comp  04/30/2011  17:02:34  PRCTRININ   170005
---          -
PRCTRININ    16 Job Aborted          04/30/2011  14:27:04  PRCTRININ   166320
---          -
PRCTRININ    08 Map Comp/Edt Err   04/30/2011  11:40:04  PRCTRININ   162784
---          -
PRCTRININ    12 Map Err./Edt Susp  04/30/2011  14:27:25  PRCTRININ   162597
---          -
PRCTRININ    12 Map None/Edt Susp  04/30/2011  16:02:21  PRCTRININ   162497
---          -
PRCTRININ    12 Map Err./Edt Susp  04/30/2011  14:22:32  PRCTRININ   097895
                                                                More...

Parameters or command
===>
F1=Help  F6=More/Less  F12=Cancel  F15=Sort  F23=More Options  F24=More Keys

```

Figure 6.11 Message Center panel sorted by Process/Date/Time and filtered for Errors and Warnings

This panel displays only those entries that have a return code greater than '04.' The primary sort is by process name. The secondary sort is by date/time in descending order.



#### NOTE

You can change the default sort option for this panel. (SEE the topic "System Configuration File" in Chapter 5, "System Considerations," for more information.)



## Message Center Work With options

You can run the following options from the Work with Message Center panel (EDIX600-FMT01):

- Delete Message Center records
- Work with spooled files for a specific job (if still on the system)
- Print a message center entry
- Work with the job (if active)
- Display the job detail
- View the Communications History (for Communications jobs only)
- Work with the communications queue (for the EDI data for Communications jobs only)
- Position to the nearest EDI Monitor entry for the EDI data (for translation processing jobs only)

### Delete Records from the Message Center File

You may delete entries from the Message Center and their associated detail at any time if you have the proper authority. Prior to deleting records, it is important to have a clear understanding of your organization’s procedures for managing the Message Center files.



**CAUTION**

Deletions cannot be reversed. Exercise caution when using the Delete option.

To delete an entry in the Message Center, type ‘4’ in the Option field next to the entries that you want to delete and press **Enter**. A confirmation panel displays, showing the entry or entries to be deleted.

The following figure shows the selection of a Message Center entry to be deleted:

```

EDIX600                Work with Message Center                EDI 04/30/11
FMT01                  pgmlib: G3X6PGM      dtalib: G3X6DTA      12:00:00
                                Errors/Warnings
Position to   Process_____ Date _____ Time _____
Type option (and Information), press Enter.
4=Delete 5=Spooled Files 6=Print 7=Work Job 11=Job Detail

Opt Process                Generation                Job
Name                      Cd Message          Date      Time   Job Name  Number
---
EXTRACT                   16 Job Aborted      04/30/2011 15:40:18 QPADEV0006 165566
INBOUND850                08 Map Err./Edt None 04/30/2011 14:51:13 PRCTRNNIN 087018
INBOUND850                04 Map Info/Edt Comp 04/30/2011 15:08:34 PRCTRNNIN 081363
4 PRCTRNNIN                08 Map Err./Edt Err 04/30/2011 14:17:03 PRCTRNNIN 170493
PRCTRNNIN                 08 Map Err./Edt Comp 04/30/2011 17:02:34 PRCTRNNIN 170005
PRCTRNNIN                 16 Job Aborted      04/30/2011 14:27:04 PRCTRNNIN 166320
PRCTRNNIN                 08 Map Comp/Edt Err 04/30/2011 11:40:04 PRCTRNNIN 162784
PRCTRNNIN                 12 Map Err./Edt Susp 04/30/2011 14:27:25 PRCTRNNIN 162597
PRCTRNNIN                 12 Map None/Edt Susp 04/30/2011 16:02:21 PRCTRNNIN 162497
PRCTRNNIN                 12 Map Err./Edt Susp 04/30/2011 14:22:32 PRCTRNNIN 097895
                                More...

Parameters or command
====> _____
F1=Help  F6=More/Less  F12=Cancel  F15=Sort  F23=More Options  F24=More Keys
    
```

Figure 6.12 Work with Message Center panel (EDIX600-FMT01) – Delete option

The confirmation displays as follows:

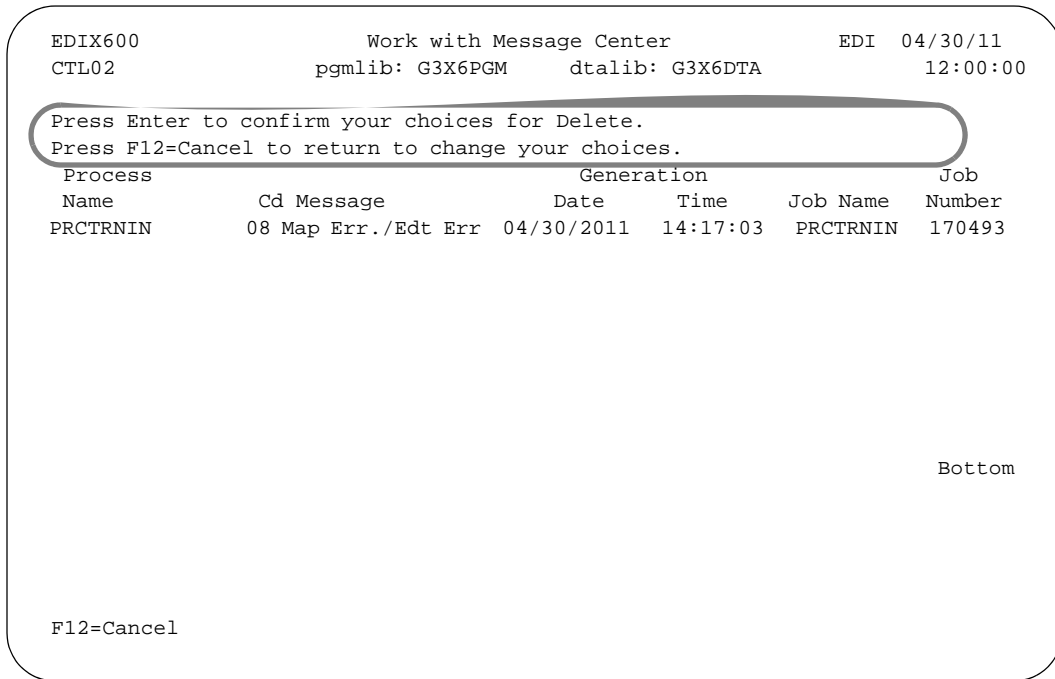


Figure 6.13 Work with Message Center panel (EDIX600-FMT01)

Press **Enter** to confirm the deletion process or **F12** to to cancel the delete action. All associated detail records for the job are also deleted.

### Work with Spooled Files for a Specific Job

You may work with the spooled files that correspond to a specific job from the Work with Message Center panel, if any still exist on the system.

To work with the spooled files for an entry, type '5' in the Option field next to the entry that you want to view, and press **Enter**.

```

EDIX600                Work with Message Center                EDI  04/30/11
FMT01                  pgmlib: G3X6PGM      dtalib: G3X6DTA      12:00:00
                                                              All Jobs

Position to  Date _____  Time _____
Type option (and Information), press Enter.
  4=Delete  5=Spooled Files  6=Print  7=Work Job  11=Job Detail

Opt Process                Generation                Job
Name                       Cd Message              Date      Time  Job Name  Number
5 PRCTRNNIN                08 Map Err./Edt Err    04/30/2011  14:17:03 PRCTRNNIN 170493
PRCTRNNIN                00 Completed Normal    04/30/2011  10:47:25 PRCTRNNIN 170469
PRCTRNNIN                00 Completed Normal    04/30/2011  10:46:59 PRCTRNNIN 170468
PRCTRNNIN                00 Completed Normal    04/30/2011  16:18:28 PRCTRNNIN 170369
PRCTRNNIN                08 Map Err./Edt Comp   04/30/2011  17:02:34 PRCTRNNIN 170005
PRCTRNNIN                00 Completed Normal    04/30/2011  15:43:41 PRCTRNNIN 169988
PRCTRNNIN                00 Completed Normal    04/30/2011  15:18:49 PRCTRNNIN 169984
PRCTRNNIN                16 Job Aborted         04/30/2011  14:27:04 PRCTRNNIN 166320
EXTRACT                  16 Job Aborted         04/30/2011  15:40:18 QPADEV0006 165566
PRCTRNNIN                08 Map Comp/Edt Err    04/30/2011  11:40:04 PRCTRNNIN 162784
                                                              More...

Parameters or command
===>
F1=Help  F6=More/Less  F12=Cancel  F15=Sort  F23=More Options  F24=More Keys
    
```

Figure 6.14 Work with Message Center panel (EDIX600-FMT01)

The iSeries Work with Job Spooled Files panel displays, showing the spooled files for the specific job.

Work with Job Spooled Files

Job: PRCTRNNIN      User: EDI      Number: 170493

Type options, press Enter.

1=Send   2=Change   3=Hold   4=Delete   5=Display   6=Release   7=Messages  
 8=Attributes      9=Work with printing status

Opt	File	Device or Queue	User Data	Status	Total Pages	Current Page	Copies
—	QPRINT	QPRINT	EBDI001	RDY	2		1
—	QPRINT	QPRINT	EBDI002	RDY	1		1
—	QSYSPRT	QPRINT	EBDI041	RDY	1		1
—	QPJOBLOG	QEZJOBLOG	PRCTRNNIN	RDY	29		1

Bottom

Parameters for options 1, 2, 3 or command  
 ==>

F3=Exit   F10=View 3   F11=View 2   F12=Cancel   F22=Printers   F24=More keys

Figure 6.15 Work with Job Spooled Files panel

Once the spooled files are displayed, type ‘5’ in the Option field next to the report that you would like to view.

**NOTE**

If the spooled files have been deleted, you will get the message, “The selected jobs spooled files are no longer on your system,” at the bottom of the Work with Message Center panel. Some jobs do not have spooled output.

**Print Message Center Information**

By selecting Option ‘6,’ (Print Detail) from EDIX600 (FMT01), the PRTMSGDTL command is executed. This report (EBDI615) provides a printout of the displayed job and its associated detail records. (SEE the topic “Reports” in this chapter for additional information.)

**Work with the Active Job**

You may work with an active job from the Work with Message Center panel as it is runs, provided that it is still active or the spooled files have not been deleted from the system.

To work with the job, type '7' in the Option field next to the entry that you want to work with, and press **Enter**.

```

EDIX600                Work with Message Center                EDI  04/30/11
FMT01                  pgmlib: G3X6PGM      dtalib: G3X6DTA      12:00:00
                                                                All Jobs

Position to Date _____ Time _____
Type option (and Information), press Enter.
  4=Delete  5=Spooled Files  6=Print  7=Work Job  11=Job Detail

Opt Process
Name          Cd Message          Generation          Job
              Date          Time          Job Name          Number
(7) PRCTRNIN  08 Map Err./Edt Err  04/30/2011  14:17:03 PRCTRNIN  170493
  PRCTRNIN  00 Completed Normal  04/30/2011  10:47:25 PRCTRNIN  170469
  PRCTRNIN  00 Completed Normal  04/30/2011  10:46:59 PRCTRNIN  170468
  PRCTRNIN  00 Completed Normal  04/30/2011  16:18:28 PRCTRNIN  170369
  PRCTRNIN  08 Map Err./Edt Comp  04/30/2011  17:02:34 PRCTRNIN  170005
  PRCTRNIN  00 Completed Normal  04/30/2011  15:43:41 PRCTRNIN  169988
  PRCTRNIN  00 Completed Normal  04/30/2011  15:18:49 PRCTRNIN  169984
  PRCTRNIN  16 Job Aborted      04/30/2011  14:27:04 PRCTRNIN  166320
  EXTRACT   16 Job Aborted      04/30/2011  15:40:18 QPADEV0006 165566
  PRCTRNIN  08 Map Comp/Edt Err  04/30/2011  11:40:04 PRCTRNIN  162784
                                                                More...

Parameters or command
===>
F1=Help  F6=More/Less  F12=Cancel  F15=Sort  F23=More Options  F24=More Keys
    
```

Figure 6.16 Work with Message Center panel (EDIX600-FMT01) – Working with active job

The iSeries Work with Job panel displays. From this panel, you may select any of the available options.

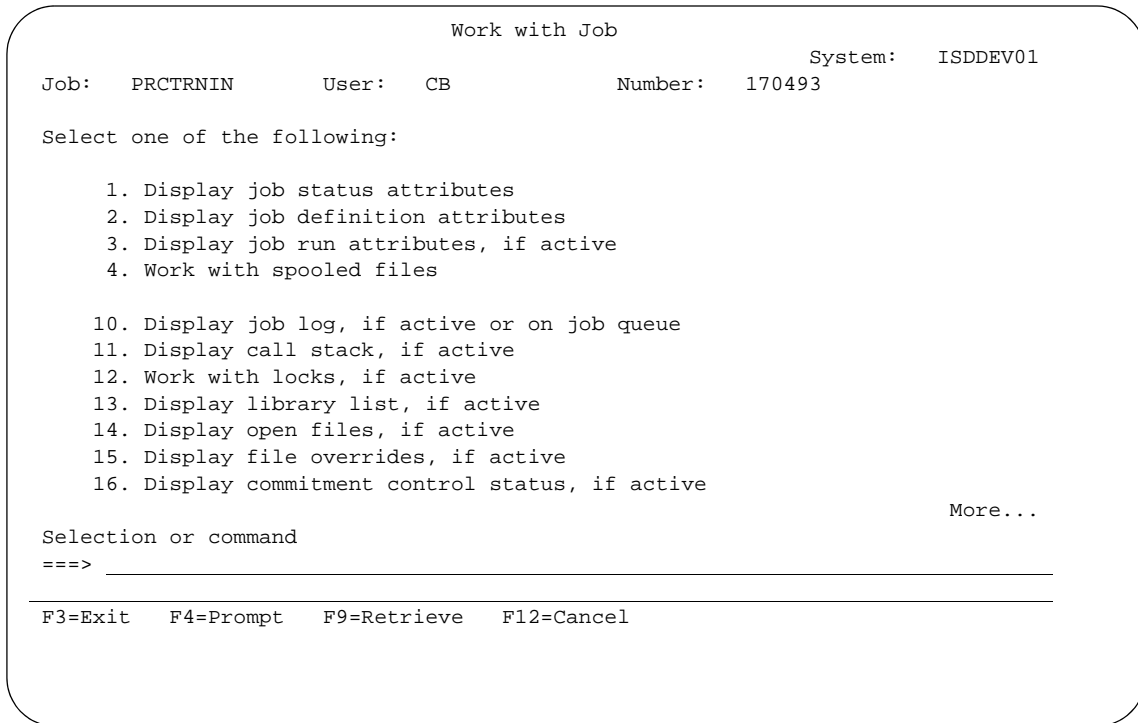


Figure 6.17 Work with Job panel

 **NOTE**

If the spooled files have been deleted or the job is not currently executing, the message, “The job is no longer on your system,” displays at the bottom of the Work with Message Center panel.

### Display the Job Detail

By selecting Option ‘11’ (Job Detail), all of the detail records (if any) associated with a job are displayed. The detail records display any errors, warnings, or informational messages that have occurred during the job execution.

To view the job detail from the Work with Message Center panel, type ‘11’ in the Option field next to the entry that you want to display and press **Enter**.

```

EDIX600                      Work with Message Center                      EDI  04/30/11
FMT01                        pgmlib: G3X6PGM      dtalib: G3X6DTA                12:00:00
                                                All Jobs

Position to  Date _____  Time _____
Type option (and Information), press Enter.
  4=Delete  5=Spooled Files  6=Print  7=Work Job  11=Job Detail

Opt Process                      Generation                      Job
Name                               Date       Time   Job Name  Number
__ PRCTRNOU  16 Job Aborted    04/30/2011  14:02:54 PRCTRNOU  162679
__ PRCTRNI  12 Map Err./Edt Susp 04/30/2011  14:27:25 PRCTRNI  162597
__ PRCTRNI  12 Map None/Edt Susp 04/30/2011  16:02:21 PRCTRNI  162497
__ ADD      00 Completed Normal 04/30/2011  11:09:16 QUEINBCL 101787
11 PRCTRNI  12 Map Err./Edt Susp 04/30/2011  14:22:32 PRCTRNI  097895
__ PRCTRNI  12 Map Err./Edt Susp 04/30/2011  14:21:42 PRCTRNI  097894
__ PRCTRNI  12 Map Err./Edt Susp 04/30/2011  14:20:03 PRCTRNI  097893
__ PRCTRNI  08 Map Err./Edt Info 04/30/2011  11:31:16 PRCTRNI  097872
__ PRCTRNI  04 Map Comp/Edt Info 04/30/2011  11:26:12 PRCTRNI  097871
__ PRCTRNI  04 Map Comp/Edt Info 04/30/2011  11:11:17 QPADEV0006 097825
                                                More...

Parameters or command
===>
F1=Help  F6=More/Less  F12=Cancel  F15=Sort  F23=More Options  F24=More Keys
    
```

Figure 6.18 Work with Message Center panel (EDIX600-FMT01) – Job detail



The Message Center Job Inquiry panel displays showing the entry or entries that correspond to the selected job.

```

EDIX601          Message Center Job Inquiry          EDI  04/30/11
FMT01                                     12:00:00

Process Name . . . . . PRCTRNIN          Job Name . . . . . PRCTRNIN
Created Date . . . . . 04/30/2011       Job Number . . . . 097895
Created Time . . . . . 14:22:32        User . . . . . IH
Return Code . . . . . 12                Msg Seq# . . . . . 123
Type option (and Information), press Enter.
  5=Display 11=Audit 12=SLTAUD 13=EDI Monitor
Message
Opt Program  Cd Appl  Nbr Description
___ EBDI001   04      33 DATE FIELD NOT NUMERIC.
___ EBDI001   04      64 INDICATED ELEMENT SHORTER THAN MINIMUM REQUIRE
___ EBDI001   12     327 NOT AUTHORIZED TO SEND/RECEIVE THIS TRANSCRIPTIO
___ EBDI001   12     327 NOT AUTHORIZED TO SEND/RECEIVE THIS TRANSCRIPTIO
___ EBDI001   04     209 CANNOT ADD ITEM TO AUDIT FILE. IT DUPLICATES A
___ EBDI001   04     209 CANNOT ADD ITEM TO AUDIT FILE. IT DUPLICATES A
___ EBDI002   08      65 INDICATED ELEMENT LONGER THAN MAXIMUM ALLOWABL
___ EBDI002   04      32 MONTH GREATER THAN 12 OR LESS THAN 1 IN DATE I
___ EBDI002   04     217 NO MATCH FOR ACKNOWLEDGEMENT FOUND ON AUDIT FI
___ EBDI002   04     217 NO MATCH FOR ACKNOWLEDGEMENT FOUND ON AUDIT FI
More...
F1=Help F3=Exit F5=Refresh F12=Cancel F19=Spool File F21=Print
    
```

Figure 6.19 Message Center Job Inquiry panel (EDIX601-FMT01)

**View Message Center Detail**

The Message Center Job Inquiry panel (EDIX601-FMT01) displays detailed information for a specific job. These items include errors, warnings, and informational messages. The specific job information displays at the top of the panel with all of the detailed messages listed in the subfile below.

**Field Definitions**

**Program**

The name of the program that was running when the message was logged.

**Cd**

The return code of the message that was logged. For all messages, with the exception of the Editors and Mappers, the program that is currently running determines the severity of the return code. When this message originates from the Editors or Mappers, the return code issued is the user’s return code found in the Batch Error Message File (GT00EMP) for that particular error number. (SEE Chapter 11, “Batch Error Message File,” for additional information.)

This table lists valid return codes and their descriptions:

Return Code	Description
00	Informational message only
04	Informational warning
08	Error occurred at an element/segment level
12	Job error occurred
16	Job halted

**Appl**

Application that was running at the time the message was logged. This field is only applicable for PRCTRININ and PRCTRNOOUT jobs.

**Message Nbr**

This is only available for PRCTRININ and PRCTRNOOUT jobs. The error number is found in the Batch Error Message File (GT00EMP).

**Message Description**

The description of the warning/error that occurred. This description can be modified for the errors that are produced from the Editors and Mappers. (SEE Chapter 11, "Batch Error Message File," for more information.)

To view additional information and a full description of the error for a particular message, Type '5' in the Option field next to the specific message and press **Enter**.

```

EDIX601          Message Center Job Inquiry          EDI  04/30/11
FMT01           12:00:00

Process Name . . . . . PRCTRNN          Job Name . . . . . PRCTRNN
Created Date . . . . . 04/30/2011      Job Number . . . . . 097895
Created Time . . . . . 14:22:32       User . . . . . IH
Return Code . . . . . 12              Msg Seq# . . . . . 123
Type option (and Information), press Enter.
5=Display  1=Audit 12=SLTAUD 13=EDI Monitor
Message
Opt Program  Cd Appl  Nbr Description
--- EBDI001   04      33 DATE FIELD NOT NUMERIC.
--- EBDI001   04      64 INDICATED ELEMENT SHORTER THAN MINIMUM REQUIRE
--- EBDI001   12     327 NOT AUTHORIZED TO SEND/RECEIVE THIS TRANSACTIO
--- EBDI001   12     327 NOT AUTHORIZED TO SEND/RECEIVE THIS TRANSACTIO
5 EBDI001   04     209 CANNOT ADD ITEM TO AUDIT FILE. IT DUPLICATES A
--- EBDI001   04     209 CANNOT ADD ITEM TO AUDIT FILE. IT DUPLICATES A
--- EBDI002   08     65 INDICATED ELEMENT LONGER THAN MAXIMUM ALLOWABL
--- EBDI002   04     32 MONTH GREATER THAN 12 OR LESS THAN 1 IN DATE I
--- EBDI002   04     217 NO MATCH FOR ACKNOWLEDGEMENT FOUND ON AUDIT FI
--- EBDI002   04     217 NO MATCH FOR ACKNOWLEDGEMENT FOUND ON AUDIT FI
More...
F1=Help  F3=Exit  F5=Refresh  F12=Cancel  F19=Spool File  F21=Print
    
```

```

EDIX601          Message Center Job Inquiry          EDI  04/30/11
FMT02           12:00:00

Program Information
From Program Name. . . EBDI001          User Return Code . . . . . 04
Message Number . . . . 209             Gentrans Return Code. . . . . 04
Description  CANNOT ADD ITEM TO AUDIT FILE. IT DUPLICATES AN ITEM ALREADY ON
FILE.

Partner Information
Interchange Partner. . TPCOMPANY          Qual
Interchange Control# . 000000002         S/R. . . . . R
Group Partner. . . . . MYCOMPANY          Qual
Group Cntl#. . . . .                    Functional Group . PO
Trans Cntl#. . . . . 00004              Transaction Set. . 850
Doc Info . . . . .
Version. . . . . 004010

Mapper/Editor/Communications Information
Segment/Element ID . . GE                Record Number. . . . . 6
Additional Info. . . . GTPCOMPANY        Member Name. . . . . M06578I
Application Name . . .                    Map Name . . . . .
Comm Profile ID. . . . EVAL              Batch Seq. . . . . 9

F1=Help  F12=Cancel  F16=Prev Rcd  F17=Next Rcd  F19=Spool File  F21=Print
    
```

Figure 6.20 Message Center Job Inquiry panel (EDIX601-FMT02)

The information displayed on this panel provides the maximum detail available at the moment the message was recorded. The Additional Info field contains additional information that was available at the time the entry was recorded, but did not fall under any of the categories listed. Read/Write status codes and subelement numbers are a few examples of items that would display in the Additional Info field.

### Scroll through Records

Function keys **F16** and **F17** provide the ability to scroll through and view the messages without toggling between the EDIX601-FMT01 and the EDIX601-FMT02 panels.

### Work with Spooled Files

Press **F19** on the Message Center Job Inquiry panel to work with spooled files for the job. The Work with Job Spooled Files panel displays.

```

                                Work with Job Spooled Files

Job:   PRCTRNN      User:   EDI           Number:   170493

Type options, press Enter.
  1=Send  2=Change  3=Hold  4=Delete  5=Display  6=Release  7=Messages
  8=Attributes      9=Work with printing status

Opt  File          Device or          Total   Current
   ___  QPRINT      Queue           User Data   Status  Pages    Page  Copies
   ___  QPRINT      QPRINT          EBDI001    RDY     2         1     1
   ___  QPRINT      QPRINT          EBDI002    RDY     1         1     1
   ___  QSYSVRT      QPRINT          EBDI041    RDY     1         1     1
   ___  QPJOBLOG     QEZJOBLOG       PRCTRNN    RDY    29         1     1

                                                                 Bottom

Parameters for options 1, 2, 3 or command
====> _____
F3=Exit  F10=View 3  F11=View 2  F12=Cancel  F22=Printers  F24=More keys
    
```

Figure 6.21 Work with Job Spooled Files panel

### Print the Detailed Information

By selecting **F21** (Print) from EDIX601 (FMT01 or FMT02), the PRTMSGDTL command is executed. This report (EBDI615) provides a printout of the job being displayed and its associated detail records. (SEE the topic “Reports” in this chapter for additional information about the PRTMSGDTL command.)

**Access the Audit**

This option provides access to the Audit subsystem, provided the message being viewed is a PRCTRNNIN or PRCTRNOOUT job. By selecting option '11,' the program advances to the Work with Audit Interchange Status panel (EDIX251). It positions you to the audit interchange record for the message was that was logged. If this is not an inbound or outbound process, the message, "This option is only valid for PRCTRNNIN and PRCTRNOOUT processes," displays.

To view the audit information from the Message Center, type '11' in the Option field next to the entry for which you want to view the audit information, and press **Enter**.

```

EDIX601                Message Center Job Inquiry                EDI  04/30/11
FMT01                                12:00:00

Process Name . . . . . PRCTRNNIN                Job Name . . . . . PRCTRNNIN
Created Date . . . . . 04/30/2011              Job Number . . . . 097895
Created Time . . . . . 14:22:32                User . . . . . IH
Return Code . . . . . 12                      Msg Seq# . . . . . 123
Type option (and Information), press Enter.
  5=Display 11=Audit 12=SLTAUD 13=EDI Monitor
Message
Opt Program  Cd Appl  Nbr Description
11 EBDI001  04      33 DATE FIELD NOT NUMERIC.
  ___ EBDI001  04      64 INDICATED ELEMENT SHORTER THAN MINIMUM REQUIRE
  ___ EBDI001  12     327 NOT AUTHORIZED TO SEND/RECEIVE THIS TRANSACTIO
  ___ EBDI001  12     327 NOT AUTHORIZED TO SEND/RECEIVE THIS TRANSACTIO
  ___ EBDI001  04     209 CANNOT ADD ITEM TO AUDIT FILE. IT DUPLICATES A
  ___ EBDI001  04     209 CANNOT ADD ITEM TO AUDIT FILE. IT DUPLICATES A
  ___ EBDI002  08     65 INDICATED ELEMENT LONGER THAN MAXIMUM ALLOWABL
  ___ EBDI002  04     32 MONTH GREATER THAN 12 OR LESS THAN 1 IN DATE I
  ___ EBDI002  04     217 NO MATCH FOR ACKNOWLEDGEMENT FOUND ON AUDIT FI
  ___ EBDI002  04     217 NO MATCH FOR ACKNOWLEDGEMENT FOUND ON AUDIT FI
More...
F1=Help F3=Exit F5=Refresh F12=Cancel F19=Spool File F21=Print
    
```

Figure 6.22 Message Center Job Inquiry panel (EDIX601-FMT01) – Audit

The Audit Interchange panel displays. The first record displayed in the subfile is the audit interchange record associated with the entry that was logged in the Message Center.

```

EDIX251          Work with Audit Interchange Status          EDI  04/30/11
FMT01           pgmlib: G3X6PGM          dtalib: G3X6DTA          12:00:00

Position to Partner _____ Qual ____ Created _____

Type option (and Information), press Enter.
  4=Delete 5=View 6=Print EDI 12=Groups 13=Acknowledge 30=Print Audit
                S                Status      Created
Opt Interchange Partner          Qual R Control #      A/N/C      Date      Time
__  _____                _____
__  VENDOR-1                    S 000000044      / /Q      04/30/2011 14:17
__  VENDOR-1                    S 000000043      / /Q      04/30/2011 11:40
__  VENDOR-1                    S 000000042      / /Q      04/30/2011 12:14
__  VENDOR-1                    S 000000040      / /Q      04/30/2011 14:52
__  VENDOR-1                    S 000000039      / /Q      04/30/2011 15:07
__  VENDOR-1                    S 000000038      / /Q      04/30/2011 14:58
__  VENDOR-1                    S 000000037      / /SN     04/30/2011 09:53
__  VENDOR-1                    S 000000033      / /       04/30/2011 11:08
__  VENDOR-1                    S 000000032      / /       04/30/2011 10:43
                                                More...

Parameters or command
===> _____
F1=Help  F3=Exit  F12=Cancel  F15=Sort  F23=More Options  F24=More Keys
    
```

Figure 6.23 Work with Audit Interchange Status panel (EDIX251-FMT01)

**Access the SLTAUD from the Message Center**

The SLTAUD command can be accessed at any point from the Message Center, as long as the entry being viewed is an outbound or inbound process (PRCTRNOU or PRCTRNI). By selecting Option ‘12’ on the Message Center Job Inquiry panel, the program prompts the SLTAUD command. If this option is selected on an entry that is not an inbound or outbound process, the message, “This option is only valid for PRCTRNI and PRCTRNOU processes,” displays.

**Access the EDI Monitor**

The EDI Monitor Inquiry panel (EDIX310) can be accessed from the Message Center Job Inquiry panel (EDIX601) to view the EDI Monitor reports. This option is only available for inbound and outbound processes, as long as the EDI Monitor tracking was activated at the time the reports were generated (global parameter setting).

To view the EDI Monitor reports from the Message Center, type '13' in the Option field next to the entry that you want to view and press **Enter**.

```

EDIX601                Message Center Job Inquiry                EDI  04/30/11
FMT01                  12:00:00

Process Name . . . . . PRCTRNIN                Job Name . . . . . PRCTRNIN
Created Date . . . . . 04/30/2011             Job Number . . . . . 097895
Created Time . . . . . 14:22:32              User . . . . . IH
Return Code . . . . . 12                    Msg Seq# . . . . . 123
Type option (and Information), press Enter.
  5=Display 11=Audit 12=SLTAUD 13=EDI Monitor
Message
Opt Program  Cd Appl  Nbr Description
__ EBDI001   04      33 DATE FIELD NOT NUMERIC.
__ EBDI001   04      64 INDICATED ELEMENT SHORTER THAN MINIMUM REQUIRE
__ EBDI001   12     327 NOT AUTHORIZED TO SEND/RECEIVE THIS TRANSACTIO
__ EBDI001   12     327 NOT AUTHORIZED TO SEND/RECEIVE THIS TRANSACTIO
__ EBDI001   04     209 CANNOT ADD ITEM TO AUDIT FILE. IT DUPLICATES A
__ EBDI001   04     209 CANNOT ADD ITEM TO AUDIT FILE. IT DUPLICATES A
__ EBDI002   08     65 INDICATED ELEMENT LONGER THAN MAXIMUM ALLOWABL
13 EBDI002   04     32 MONTH GREATER THAN 12 OR LESS THAN 1 IN DATE I
__ EBDI002   04     217 NO MATCH FOR ACKNOWLEDGEMENT FOUND ON AUDIT FI
__ EBDI002   04     217 NO MATCH FOR ACKNOWLEDGEMENT FOUND ON AUDIT FI
More...

F1=Help F3=Exit F5=Refresh F12=Cancel F19=Spool File F21=Print
    
```

Figure 6.24 Message Center Job Inquiry panel (EDIX601-FMT01) – EDI Monitor

The EDI Monitor Inquiry panel displays.

```

EDIX311          EDI Monitor Inquiry          EDI 04/30/11
CTL01                               12:00:00

Job Number . . . . . 0170493
Process Name . . . . . EBDI01

EBDI001  RUN 04/30/2011  TIME 14:17:09  EDITOR INBOUND PROCESSING+
ERROR RECORD SEG ELT/COMP                                     +
NUMBR NUMBER ID  NBR  INFORMATION          ERROR MESSAGE      +
+
INTERCHANGE = VENDOR-1          -          TYPE = ISA          +
GROUP       = VENDOR-1          -          TYPE = IN           +
TRANSACTION =                   -          TYPE = 810          +
  65      3 BIG  1   1999110  INDICATED ELEMENT LONGER THAN MAXIMUM ALL+
  32      3 BIG  1   1999111  MONTH GREATER THAN 12 OR LESS THAN 1 IN D+
  65      3 BIG  3   1999110  INDICATED ELEMENT LONGER THAN MAXIMUM ALL+
  32      3 BIG  3   1999111  MONTH GREATER THAN 12 OR LESS THAN 1 IN D+
  65     10 DTM  2   1999110  INDICATED ELEMENT LONGER THAN MAXIMUM ALL+
  32     10 DTM  2   1999111  MONTH GREATER THAN 12 OR LESS THAN 1 IN D+
                                          More...

F1=Help  F12=Cancel  F19=Left  F20=Right  F24=More Keys
    
```

Figure 6.25 EDI Monitor Inquiry panel (EDIX311-CTL01)

 **NOTE**

If the EDI Monitor reports are not available, the message, “The corresponding report is no longer on file,” displays. If this option is selected on an entry that is not for an inbound or outbound process, the message, “This option is only valid for PRCTRIN and PRCTRNOU processes,” displays.



### View the Communications History from the Message Center

The Work with Communications History Log panel (EDIX406) can be accessed from the Work with Message Center panel (EDIX600) to assist in problem determination when a communication session fails. This option is only available for communication jobs.

To work with the Communications History log, type '12' in the Option field next to the communications job you want to access, and press **Enter**.

```

EDIX600                      Work with Message Center                      EDI  04/30/11
FMT01                        pgmlib: G3X6PGM      dtalib: G3X6DTA          12:00:00
                                                All Jobs

Position to Date _____ Time _____
Type option (and Information), press Enter.
 12=Comm History 13=Comm Queue 14=EDI Monitor 30=Print MsgCtr

Opt Process                      Generation                      Job
  Name                          Cd Message                      Date      Time   Job Name  Number
-- PRCTRNOU                     16 Map Info/Edt Halt 04/30/2011 11:43:39 PRCTRNOU 082191
-- INBOUND850                   04 Map Info/Edt Comp 04/30/2011 15:08:34 PRCTRNI  081363
-- PRCTRNOU                     00 Completed Normal 04/30/2011 15:07:09 PRCTRNOU 081362
-- PRCTRNOU                     12 Map Comp/Edt Susp 04/30/2011 14:58:07 PRCTRNOU 081357
-- PRCTRNI                      12 Map None/Edt Susp 04/30/2011 15:13:17 PRCTRNI  078244
-- PRCTRNOU                     16 Map Susp/Edt Halt 04/30/2011 15:12:39 PRCTRNOU 078243
 12 STRCOMSSN                   16 Check Job Status 04/30/2011 11:15:27 EVAL      078175
-- PRCTRNOU                     12 Map Susp/Edt Info 04/30/2011 13:21:14 PRCTRNOU 073662
-- PRGAUD                       00 Completed Normal 04/30/2011  9:56:42 PRGAUD   073610
-- PRCTRNOU                     12 Map Comp/Edt Susp 04/30/2011  9:53:07 PRCTRNOU 073606
                                                More...

Parameters or command
===> _____
F1=Help  F6=More/Less  F12=Cancel  F15=Sort  F23=More Options  F24=More Keys
    
```

Figure 6.26 Work with Message Center panel (EDIX600-FMT01) – Comm History Log

The Work with Communications History Log panel (EDIX406) displays.

```

EDIX406          Work with Communications History Log          EDI 04/30/11
FMT01           pgmlib: G3X6PGM      dtalib: G3X6DTA          12:00:00

Position to Comm Stamp . . . . .      8      Seq ____      EVAL

Type option (and Information), press Enter.
  6=Print Session 11=Queue Inq 34=PRTCOMHST Cmd

Opt  Comm  Sess  Comm          Start      Start      End      Elapsed  F  T  S
     Prof ID Name Stamp      Seq      Date      Time      Time      Time      N  T  T
___  EVAL   RA    8          1 04/30/2011  11:15:34  11:15:34  00:00:00  B  N
___  EVAL   RA    8          8 04/30/2011  11:16:38  11:16:38  00:01:04  E  N
___  EVAL   RA    7          1 04/30/2011  11:10:35  11:10:35  00:00:00  B  N
___  EVAL   RA    7          8 04/30/2011  11:11:50  11:11:50  00:01:16  E  N

                                                                 Bottom

Parameters or command
===> _____
F1=Help  F2=More/Less  F6=Msg On/Off  F9=Retrieve  F12=Cancel  F24=More Keys
    
```

Figure 6.27 Work with Communications History Log (EDIX406-FMT01)

Press F2 (More/Less) to view all the steps logged for the Comm job to help identify any problems.

### Access the Communications Queue from the Message Center

The Work with Communications panel (EDIX400) can be accessed from the Work with Message Center panel (EDIX600), enabling you to access the Communications queues. This option is only available for Communications jobs.

To view the Communications queues, place the cursor next to the Communications job you wish to view. Type '13' in the Option field and press **Enter**.

```

EDIX600                      Work with Message Center                      EDI  04/30/11
FMT01                        pgmlib: G3X6PGM      dtalib: G3X6DTA          12:00:00
                               All Jobs

Position to Date _____ Time _____
Type option (and Information), press Enter.
 12=Comm History  13=Comm Queue  14=EDI Monitor  30=Print MsgCtr

Opt Process                               Generation                               Job
Name                                       Date      Time   Job Name   Number
___ PRCTR NOUT  16 Map Info/Edt Halt  04/30/2011  11:43:39 PRCTR NOUT  082191
___ INBOUND850  04 Map Info/Edt Comp  04/30/2011  15:08:34 PRCTR NIN  081363
___ PRCTR NOUT  00 Completed Normal  04/30/2011  15:07:09 PRCTR NOUT  081362
___ PRCTR NOUT  12 Map Comp/Edt Susp  04/30/2011  14:58:07 PRCTR NOUT  081357
___ PRCTR NIN  12 Map None/Edt Susp  04/30/2011  15:13:17 PRCTR NIN  078244
___ PRCTR NOUT  16 Map Susp/Edt Halt  04/30/2011  15:12:39 PRCTR NOUT  078243
13 STRCOMSSN   16 Check Job Status  04/30/2011  11:15:27 EVAL      078175
___ PRCTR NOUT  12 Map Susp/Edt Info  04/30/2011  13:21:14 PRCTR NOUT  073662
___ PRGAUD     00 Completed Normal  04/30/2011   9:56:42 PRGAUD     073610
___ PRCTR NOUT  12 Map Comp/Edt Susp  04/30/2011   9:53:07 PRCTR NOUT  073606
                                         More...

Parameters or command
===> _____
F1=Help  F6=More/Less  F12=Cancel  F15=Sort  F23=More Options  F24=More Keys
    
```

Figure 6.28 Work with Message Center panel (EDIX600-FMT01) – Comm Queue

The Work with Communications panel (EDIX400) is positioned to the profile that corresponds to the entry selected. Use options '15' and '16' to access the outbound or inbound queue for the profile.

```

EDIX400                Work with Communications                EDI 04/30/11
FMT01                  pgmlib: G3X6PGM      dtalib: G3X6DTA      12:00:00

Position to Profile ID . . . . . EVAL

Type option (and Information), press Enter.
  12=Session Ctrl  13=Jobs  14=History Log  15=Outb Queue  16=Inb Queue

Opt  Profile ID  Company
16  EVAL
___  EVAL        IBM RELEASE3
___  FORD        FORD SOLMIS NETWORK
___  FTPSAMP     Sample FTP Profile
___  GEIS        GENERAL ELECTRIC INFO SYSTEMS
___  GEISASX    GEIS EDI*EXPRESS MARK III Async
___  GM         GENERAL MOTORS
___  IDXGATE    Gentran IFS Gateway Comm Profile
___  INSIRLXA   XAS INTO INS IRELAND (EIRTRADE)
___  INSNET     INTERNATIONAL NETWORK SERVICES BSC

More...

Parameters or command
===> _____
F1=Help  F3=Exit  F12=Cancel  F15=Sort  F23=More Options  F24=More Keys
    
```

Figure 6.29 Work with Communications panel (EDIX400-FMT01)

# Print the Message Center Entries Report

The Sterling Gentran:Server system provides you with the ability to print a report containing information about jobs logged in the Message Center. Information is printed from the Message Center files (MSGHDR and MSGDTL). You can use selection criteria to limit the information printed.

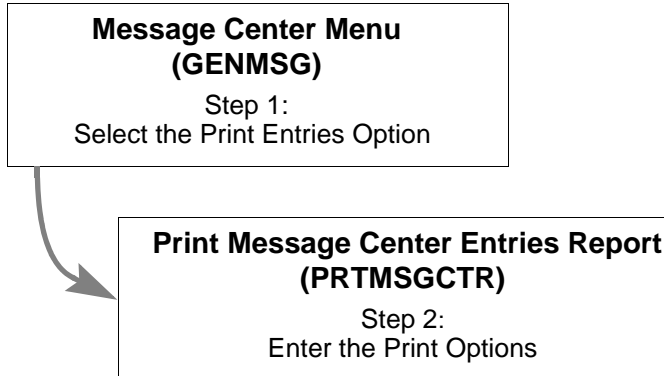


Figure 6.30 Steps for Printing the Message Center Entries Report

## Select the Print Entries Option

The Print option can be accessed from the Message Center menu (GENMSG), or the Work with Message Center panel (EDIX600) using option '30.'

From the GENMSG menu, select option '4' (Print Message Center Entries Report).

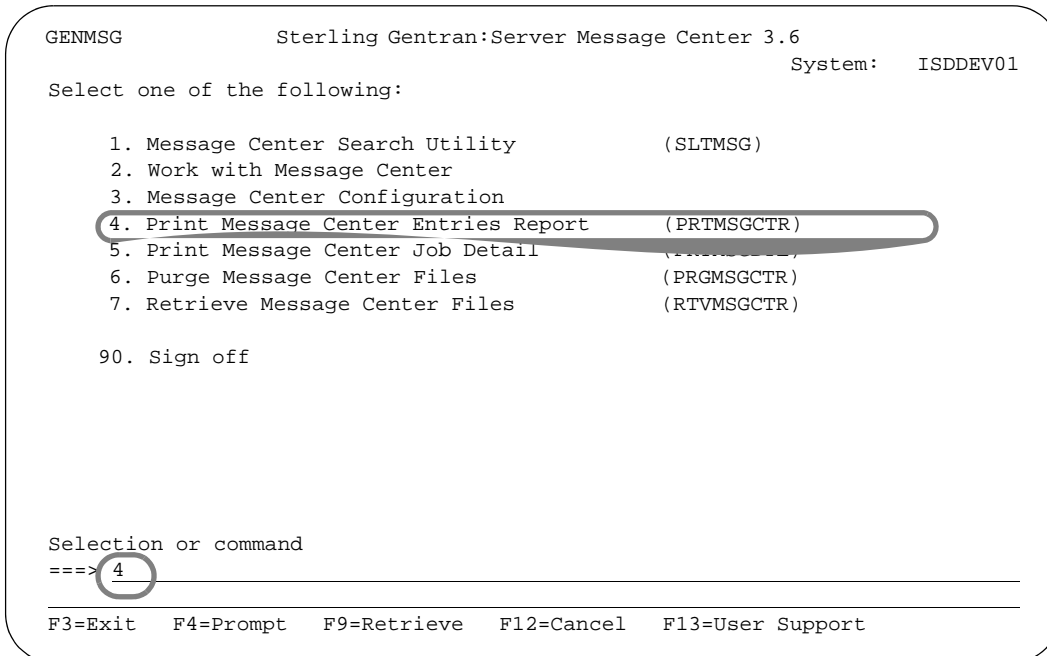


Figure 6.31 Accessing the Print Message Center Entries (PRTMSGCTR) panel

## Enter the Print Options

Sterling Gentran:Server provides several selection options which allow you to selectively print all or some of the entries in the Message file. The system builds the selection criteria based on the combined values entered in the fields on the Print Message Center Entries Report (PRTMSGCTR) panel.

The selection criteria available are:

- Age Selection Type
- Command Name to Print
- Process Name to Print
- Beginning Severity to Print
- Print Detail

You can combine the print selection criteria with an “age” parameter. The “age” parameter reduces the selection of message records that are printed. You may select to search for records using:

- Current Date
- Date Range
- Number of Hours from the current hour
- Days Old Range

 **NOTE**

SEE the Message Center Entries Report (EBDI616) in the “Reports” section of this chapter for more information about the report.

To run the Print Message Center Entries (PRTMSGCTR) command, specify the selection criteria and press **Enter**.

```

Print Message Center Entries (PRTMSGCTR)

Type choices, press Enter.

Age Selection Type . . . . . *ALL          *DATE, *DAYS, *HOURS, *ALL
Command to Print . . . . . *ALL          *ALL, Name
Process Name to Print . . . . . *ALL
Beginning Severity to Print . . *ALL          *ALL, 4, 8, 12, 16
Print Detail? . . . . . *NO             *YES, *NO

Bottom
F3=Exit   F4=Prompt   F5=Refresh   F10=Additional parameters   F12=Cancel
F13=How to use this display   F24=More keys
    
```

Figure 6.32 Print Message Center Entries (PRTMSGCTR) Command

## Parameter Definitions

### **Age Selection Type**

A 6-position alphabetic field used to define an “age” record selection criteria for which you want to print Message Center records. After selecting one of the following valid values, the system displays a prompt line with an 8-position entry field enabling you to further define your selection. Valid values for this field are:

- \*DATE** Enables you to specify Message Center records for a specific date, date range, or for the current date. Only records within the specified date range are printed.
- \*DAYS** You can specify the number of days before the current date or any given day. Only records within the specified number of days are printed. Values are 0-999. Enter a “from” number and a “to” number. For example, if you entered ‘0’ to ‘3,’ records from 0-3 days old would be printed.
- \*HOURS** You can specify the number of hours from the current hour to be included. Records between the current hour and the number of hours you specified are printed. Values are 0-24. For example, if you only want to include data for jobs that ran in the last 2 hours, specify 2. Message Center entries from 0 to 2 hours old are printed.
- \*ALL** All records are included.

If you enter a value of ‘\*DATE’ or ‘\*DAYS’ in the Age Selection Type field, and press **Enter**, the system displays the following prompt lines:

From #, \*CURRENT, or Date...\_\_\_\_\_

To #, \*CURRENT, or Date...\_\_\_\_\_

If you enter a value of ‘\*HOURS’ in the Age Selection Type field and press **Enter**, the system displays the following prompt line:

Hours to Include...\_\_\_\_\_

### **Process Name to Print**

This is a 15-position alphanumeric field used to enter a specific process name for which you want to print Message Center records. You can also print Message Center records for all process names by keying \*ALL.

### **Command to Print**

This is a 10-position alphanumeric field used to enter specific command names for which you want to print Message Center records. You can also print Message Center records for all command names by keying \*ALL.

**Beginning Severity to Print**

A 4-position alphanumeric field used to select a return code record selection criteria beginning with the severity entered.

Valid values are:

- \*ALL    Print all Message Center records, regardless of the return code.
- 0        Print Message Center records with return codes of 04 and above.
- 08      Print Message Center records with return codes of 08 and above.
- 12      Print Message Center records with return codes of 12 and above.
- 16      Print Message Center records with return code of 16.

**Print Detail**

This is a 4-position alphabetic field used to determine whether the message detail records should be printed with each message header record selected. The default is \*NO.

**Run Interactively**

This field is accessed by pressing **F10** to display additional parameters. It allows you to perform the process interactively. If you elect to run the command in an interactive mode, you can monitor system messages that occur during processing. However, if you choose this option, your terminal is locked until the process is complete.

**Schedule Job**

This field is accessed by pressing **F10** to display additional parameters. It allows you to schedule the job to be run at a later time using the Sterling Gentran job scheduler.



### Print Job Details for Message Center Entries

All jobs logged in the Message Center can be printed with full detail. Multiple jobs can be printed at the same time.

From the Work with Message Center panel, type '6' in the Option field next to all the selected jobs, and press **Enter**, as illustrated in this figure.

```

EDIX600                                Work with Message Center                EDI  04/30/11
FMT01                                pgmlib: G3X6PGM          dtalib: G3X6DTA          12:00:00
                                         All Jobs

Position to Date                        Time
Type option (and Information), press Enter.
  4=Delete  5=Spooled Files  6=Print  7=Work Job  11=Job Detail

Opt Process                               Generation                               Job
Name                                       Date      Time   Job Name   Number
6 PRCTRNOU  16 Job Aborted  04/30/2011  14:02:54 PRCTRNOU  162679
6 PRCTRNI  12 Map Err./Edt Susp 04/30/2011  14:27:25 PRCTRNI  162597
6 PRCTRNI  12 Map None/Edt Susp 04/30/2011  16:02:21 PRCTRNI  162497
  ADD      00 Completed Normal 04/30/2011  11:09:16 QUEINBCL 101787
  PRCTRNI  12 Map Err./Edt Susp 04/30/2011  14:22:32 PRCTRNI  097895
  PRCTRNI  12 Map Err./Edt Susp 04/30/2011  14:21:42 PRCTRNI  097894
  PRCTRNI  12 Map Err./Edt Susp 04/30/2011  14:20:03 PRCTRNI  097893
  PRCTRNI  08 Map Err./Edt Info 04/30/2011  11:31:16 PRCTRNI  097872
  PRCTRNI  04 Map Comp/Edt Info 04/30/2011  11:26:12 PRCTRNI  097871
  PRCTRNI  04 Map Comp/Edt Info 04/30/2011  11:11:17 QPADEV0006 097825
                                         More...

Parameters or command
====>
F1=Help  F6=More/Less  F12=Cancel  F15=Sort  F23=More Options  F24=More Keys
    
```

Figure 6.33 Work with Message Center panel (EDIX600-FMT01)

The system automatically submits a background job to print the details for each job specified.

You can also print the Job Details from the Message Center Job Inquiry panel (EDIX601) by pressing **F21** (Prt Detail) while a specific job displays.

 **NOTE**

SEE the Message Center Job Detail Report (EBDI615) in the “Reports” section of this chapter for more information.

### Print the Job Detail Report from the Command

Job detail reports can also be printed by using the Print Message Center Detail (PRTMSGDTL) command. This is useful when you have a specific job for which you would like to print detail, and you know the unique Message Center internal sequence number (the PRTMSGCTR report, EBDI616, prints this).

This number can be found using the “Unfold” option on the Work with Message Center panel (EDIX600), on the Message Center Job Inquiry panel (EDIX601-FMT01), or on the Message Center Entries Report (EBDI616).

From the Message Center menu (GENMSG), select option ‘5’ (Print Message Center Job Detail) and press **Enter**.

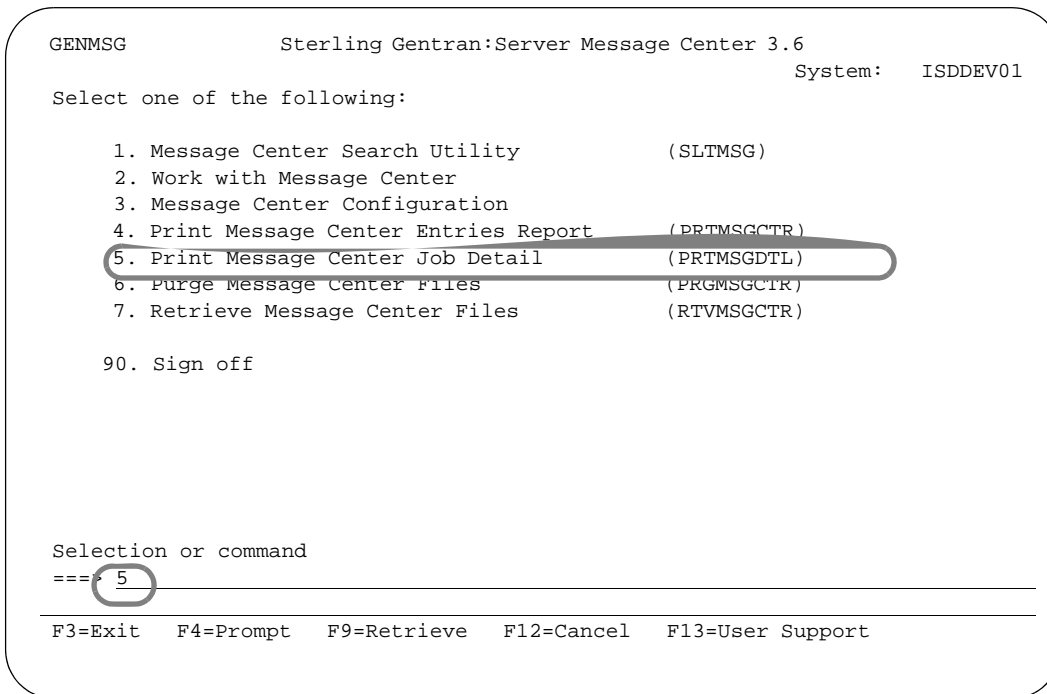


Figure 6.34 Accessing the Print Message Center Job Detail (PRTMSGDTL) panel

The Print Message Center Detail command displays.

```

Print Message Center Detail (PRTMSGDTL)

Type choices, press Enter.

Message Sequence Number . . . . 23657      Number
Run Interactively? . . . . . *NO          *YES, *NO

F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
Bottom
    
```

Figure 6.35 Print Message Center Detail (GENMSG) panel

Enter the Message Sequence number for the job you want printed and specify whether the job should be run interactively or not. If not, a background job is submitted to print the report.

 **NOTE**

SEE the Message Center Job Detail Report (EBDI615) in the “Reports” section in this chapter for more information.

# Purge the Message Center (PRGMSGCTR)

Each time one of the commands that is set up to be tracked is executed, a record is written to the MSGHDR file. Records are also written to the MSGDTL file, depending on the command executed and whether any errors occurred during the execution of the command. The records remain there until you purge them. Sterling Gentran:Server provides a feature for purging the Message Center of old occurrence records. This feature allows you to purge groups of records by using the selection criteria.

To purge the Message Center, select option '6' (Purge Message Center Files) from the GENMSG menu and press **Enter**. The PRGMSGCTR command can also be invoked from the Work with Message Center panel (EDIX600) using option '40' (Purge MsgCtr).

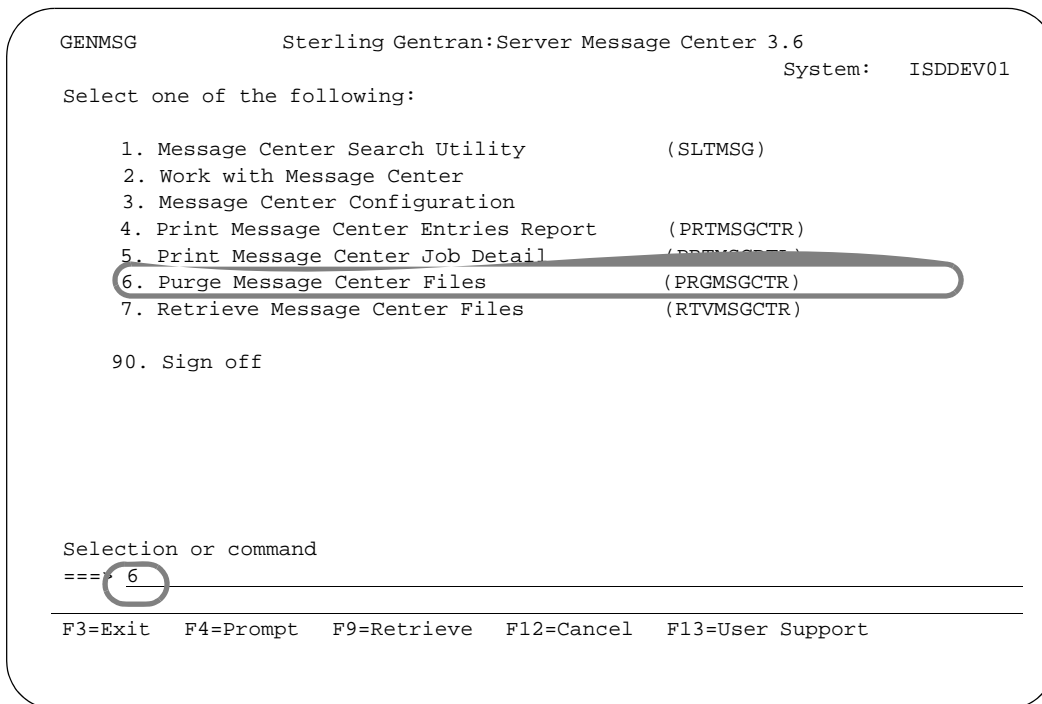


Figure 6.36 Access the Purge Message Center Files (PRGMSGCTR) panel

Enter your selection criteria on the PRGMSGCTR panel and press **Enter** to run. Press **F1** (Help) for detailed information about any of the parameters.

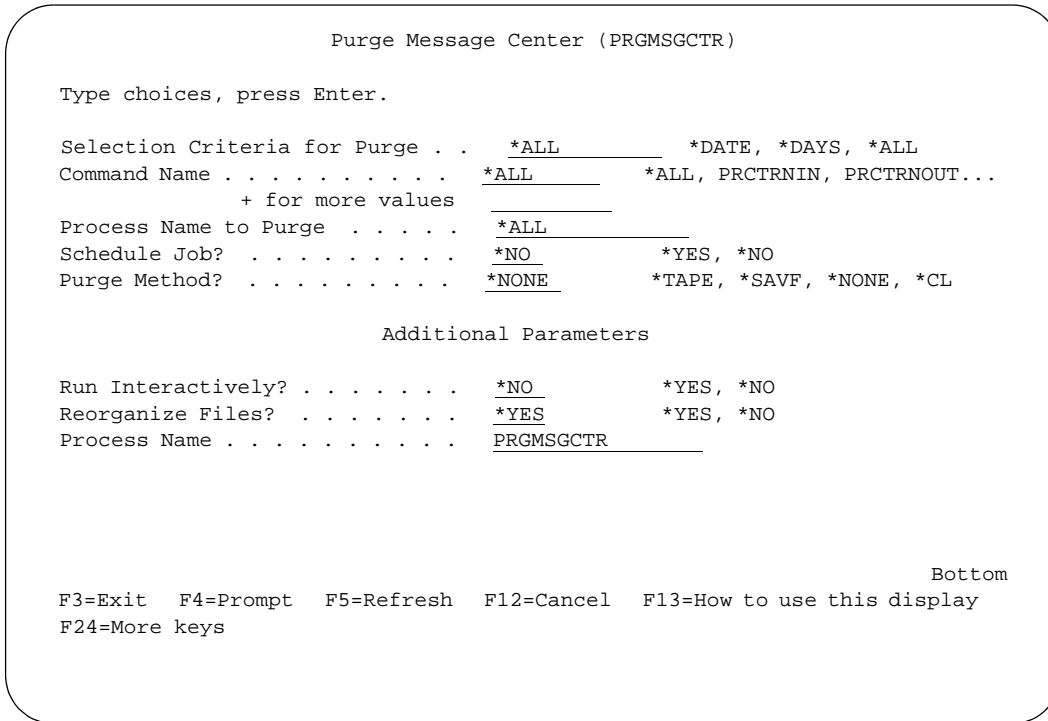


Figure 6.37 Purge Message Center (PRGMSGCTR) panel

You can execute the Purge Message Center command in one of three modes:

- Press **Enter** to immediately submit the job to batch to run (this is the default).
- Press **F10** (Additional Parameters) and type ‘\*YES’ in the Run Interactively field to run the job interactively (your terminal will be locked until the job completes).
- Press **F10** (Additional Parameters) and type ‘\*YES’ in the Job Scheduler field to run the job at a later time.

Parameter Definitions

**Selection Criteria for Purge**

A 10-position alphanumeric field used to define a purge date. You can enter a date range (\*DATE). The system will display 2 additional prompt lines, enabling you to enter a From and To date. Enter \*ALL to purge all messages, including the current date.

**Command Name**

This allows you to purge records from the Message Center with a specific command name. The list of valid command names can be viewed by using F4=Prompt. The command names identify the command under which the job was logged into the Message Center.

**Process Name to Purge**

This field allows you to purge records from the Message Center file with a specific Process Name. For any Sterling Gentran command that has been modified to be tracked in the Message Center when executed, the user can override the default Process Name (which defaults to the command name) and give that run of the command a unique Process Name to further define the run.

**Schedule Job?**

This alphanumeric field is used to designate whether you want to run this option by scheduling it as a job. \*NO is the default for this field.

**Purge Method?**

An alphanumeric field used to indicate whether the data should be saved to tape or to a save file. If you want the data to be saved to tape, specify '\*TAPE' or '\*CL'. Specify '\*CL' when using this command within a CL. If you want to save the data to a save file, specify '\*SAVE.' If you just want the data purged without saving it, specify '\*NONE.'

**Additional Parameters****Run Interactively?**

This parameter allows you to perform the process interactively. If you select to run the command in an interactive mode (\*YES), you can monitor system messages that occur during processing. However, you are locked out of the system from the terminal the job was submitted on until the process is complete.

**Reorganize Files?**

An alphanumeric field used to indicate whether the physical file(s) should be reorganized using the RGZPFM command. Valid values are:

\*YES Reorganize files immediately after the purge has completed

\*NO Reorganize files at a later time.

**Process Name**

This area is used to label the command for the Message Center. The default for this prompt is the command name, but can be changed to any 15-byte field to help further identify this process. The process name displays on the first panel of the Work with Message Center screen (EDIX600) and always tracks under this name.

## Retrieve the Message Center (RTVMSGCTR)

The Retrieve Message Center Files (RTVMSGCTR) command allows you to restore Message Center records that have been previously purged to tape or save file using the PRGMSGCTR command.

To retrieve Message Center files, select Option '7' (Retrieve Message Center Files) from the GENMSG menu and press **Enter**. The RTVMSGCTR command can also be invoked from the Work with Message Center panel (EDIX600) using option '41' (RTVMSGCTR).

```
GENMSG                Sterling Gentran:Server Message Center 3.6
                                                                System:   ISDDEV01

Select one of the following:

    1. Message Center Search Utility          (SLTMSG)
    2. Work with Message Center
    3. Message Center Configuration
    4. Print Message Center Entries Report    (PRTMSGCTR)
    5. Print Message Center Job Detail       (PRTMSGDTL)
    6. Purge Message Center Files           (PRGMSGCTR)
    7. Retrieve Message Center Files         (RTVMSGCTR)
    90. Sign off

Selection or command
====> 7

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F13=User Support
```

Figure 6.38 Accessing the Retrieve Message Center Files (RTVMSGCTR) command

Enter your selection criteria on the RTVMSGCTR command and press **Enter** to run. Press **F1** (Help) for detailed information about any of the parameters.

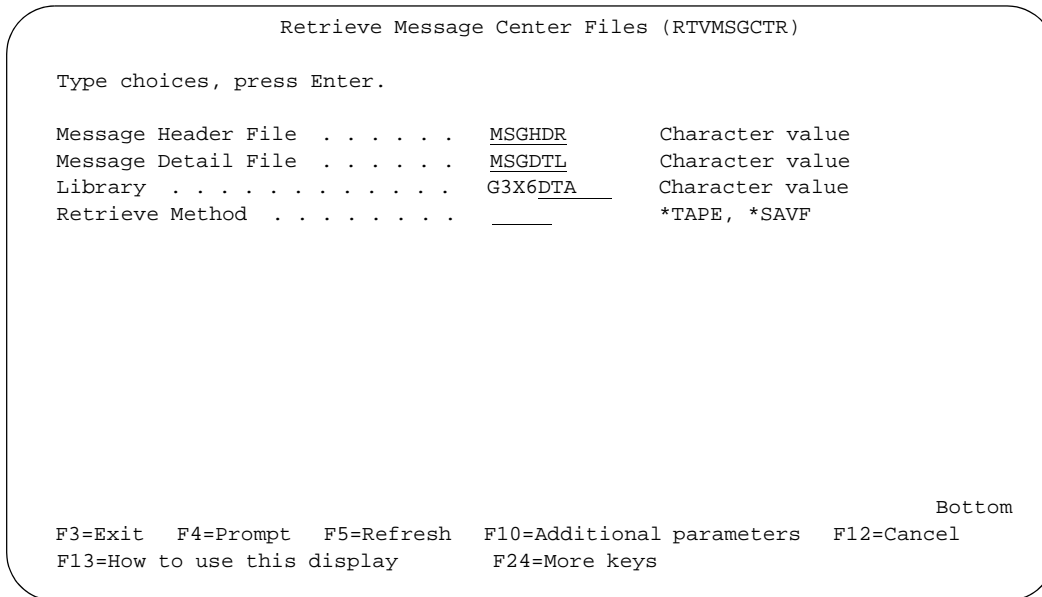


Figure 6.39 Retrieve MSG Files from Tape (RTVMSGCTR) panel

You can execute the Retrieve Message Center command in one of three modes:

- Press **Enter** to immediately submit the job to batch to run (this is the default).
- Press **F10** (Additional Parameters) and type ‘\*YES’ in the Run Interactively field to run the job interactively (your terminal will be locked until the job completes).
- Press **F10** (Additional Parameters) and type ‘\*YES’ in the Schedule Job field to schedule the job to run at a later time.

Parameter Definitions

**Message Header File**

A file that contains the message header records. This file is used in conjunction with the Message Center.

**Message Detail File**

A file that contains the message detail records. This file is used in conjunction with the message header file to make up the Message Center.

**Library**

A 10-position alphanumeric field used to indicate the library name on your system where the message header and message detail files are found.

**Retrieve Method**

An alphanumeric field used to indicate whether the data should be retrieved from tape or save file. If you want the data to be retrieved from tape, specify ‘\*TAPE.’ To retrieve the data from save file, specify ‘\*SAVF.’



# Reports

## EBDI615 — Message Center Job Detail Report

### Contents of the Report

The Message Center Job Detail Report contains information about a particular processing job and its associated detail records.

### How to Identify the Report

The identifier 'EBDI615' is printed in the upper left corner of the report. The report title, "Message Center Job Detail Report," is printed in the center at the top of the report. The identifier 'EBDI615' is also printed in the User Data field associated with the spooled report in the Output Queue.

### How to Generate the Report

This is a user-generated report. It is submitted in one of four ways:

- From the GENMSG menu, by selecting option '5'
- From the Work with Message Center panel (EDIX600-FMT01), by selecting option '6' (Print)
- From the Message Center Job Inquiry panel (EDIX601-FMT02), by pressing **F21** (Prt Detail)
- From the Command Line, by prompting the 'PRTMSGDTL' command.

### Special Considerations

When prompting the command, you need to enter a message sequence number to print a particular job. This sequence number can be found using the 'Unfold' option on the Work with Message Center panel (EDIX600), on the Message Center Job Inquiry panel (EDIX601-FMT01), or on the Message Center Entries Report (EBDI616).

Like all other Sterling Gentran:Server reports, the Message Center Job Detail report automatically goes to the iSeries Output Queue defined for the user running the job (SEE the "Environment Control" chapter in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide* for the procedure to set up a user's Output Queue.)

```

EBDI615      RUN DATE 04/30/11      MESSAGE CENTER JOB DETAIL REPORT      RUN TIME 12:00:00  PAGE 1
PROCESS NAME . . . . . PRCTRNOUT      COMPLETION CODE . . . . . 00      USER . . . . . HDB
CREATED DATE . . . . . 01-25-00      MESSAGE DESCRIPTION. Completed Med      JOB NAME . . . . . PRCTRNOUT
CREATED TIME . . . . . 15:07:09      MESSAGE SEQ # . . . . . 10      JOB NUMBER . . . . . 081362
                                          COMMAND . . . . . PRCTRNOUT

DETAIL INFORMATION
-----
FROM PROGRAM NAME. . . . . EBDI042      USER RETURN CODE . . . . . 00      Sterling Gentran RETURN CODE .
ERROR: 000 POFILE COMPLETED WITH NO ERRORS
INTERCHANGE PARTNER.
GROUP PARTNER. . . . .
DOC INFO . . . . .
SEGMENT ID . . . . .
APP NAME . . . . . POFILE      ELEMENT ID . . . . .
COMM PROFILE ID. . . . . BATCH SEQ. . . . .
                                          MAP NAME . . . . .
                                          MEMBER NAME. . . . . M05766001
                                          RECORD NUMBER. . . . .

QUAL:      ERCHG CONTROL # . . . . . S/R . . . . .
QUAL:      GRCOCONTROL # . . . . . FUNC GRP . . . . .
          TRSACONTROL # . . . . . TRANS ID . . . . .
          VERN . . . . .
          ADDITIONAL INFO. . . . .
          M05766001
          RECORD NUMBER. . . . .
    
```

Figure 6.40 EBDI615 — Message Center Job Detail Report

Field Definitions

Field	Definition
Process Name	Name that was given to the job at the time the command was initiated. Initially, this is the command name, but can be overridden on the command for each run.
Completion Code	The completion code for the job. The highest return code received from individual steps is used for the overall job completion code.
User	The user that executed the job.
Created Date	The date that the job started and was initially logged into the Message Center.
Message Description	A description of the job's completion code.
Job Name	The iSeries job name.
Created Time	The time that the job was started and logged into the Message Center.
Message Seq #	A unique key to the Message Center when the job was initially logged.
Job Number	The iSeries job number.
Comm Profile ID	Communication profile ID that was used. This field only prints for communications jobs.
Comm Log Stamp	Communication Log Stamp that was used. This field only prints for communications jobs.
Command	Command name that was processed.
<b>Detail Information Line</b>	
From Program Name	The program name that the process was executing at the time the entry was written.
User Return Code	The return code based on the user assignment for the error of the individual program that executed.
Sterling Gentran Return Code	The original return code that was shipped with the product for this particular error message number.
Error #	Error message number and its description.
<b>Job-Specific Information</b>	
Interchange Partner	Interchange partner ID and qualifier for the EDI data processed.
Interchange Control#	EDI control number for the interchange processed.

Field	Definition
S/R	Code that identifies whether the data processed was sent outbound or received inbound.
Group Partner	Group partner ID and qualifier for the EDI data processed.
Group Control #	EDI control number for the group processed.
Func Grp	The functional group identifier, as known in the standards for the EDI data processed.
Trans ID	This field identifies the transaction or message identifier, as known in the standards for the EDI data processed.
Doc Info	Key information from within the document that further identifies the specific document, such as an invoice number.
Version	EDI standards version for the data being processed.
Segment ID	The EDI segment identifier.
Element ID	The EDI element sequence number.
Additional Info	Additional information that was available at the time the error occurred. This is typically the value for the item in error.
App Name	Name of the application that was being processed at the time of error.
Map Name	Name of the map that was being processed at the time of error.
Member Name	Unique member name that was used during processing.
Comm Profile ID	Communication profile, if known, for the data being processed.
Batch Seq	Batch Sequence number, if known, for the data being processed.
Record Number	The input record number at the time the error occurred.

## EBDI616 — Message Center Entries Report

### Contents of the Report

The Message Center Entries report prints information about Sterling Gentran jobs processed that were logged in the Message Center files (MSGHDR and MSGDTL).

### How to Identify the Report

The identifier 'EBDI616' is printed in the upper left corner of the report. The report title, "Message Center Job Entries Report" is printed in the center at the top of the report. The identifier, 'EBDI616,' is also printed in the User Data field associated with the spooled report in the Output Queue.

### How to Generate the Report

This is a user-generated report. It is submitted in one of three ways:

- From the GENMSG menu, by selecting option '4'
- From the Work with Message Center panel (EDIX600-FMT01), by selecting option '30' (PRTMSGCTR)
- From the Command Line, by prompting the 'PRTMSGCTR' command.

In all cases, you can use selection criteria to limit the information on the report by selecting any of the following combinations:

- Age Selection Type
- Command to Print
- Process Name to Print
- Beginning Severity to Print
- Print Detail.

### Special Considerations

Like all other Sterling Gentran:Server reports, the Message Center Entries Report automatically goes to the iSeries Output Queue defined for the user running the job. (SEE the "Environment Control" chapter in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide* for instructions to set up a user's Output Queue.)

EBDI616	RUN DATE 04/30/11	MESSAGE CENTER ENTRIES REPORT	RUN TIME 12:00:00	PAGE 1							
PROCESS NAME	RTN	CODE	DESCRIPTION	DATE	FROM	TO	USER	JOB NAME	JOB NUMBER	COMMUNICATION LOG STAMP	MSG CTR SEQ #
PRCTRNOUT	12	Map	Susp/Edt Info	04/30/2011			09:44:01	IH	PRCTRNOUT	073604	1
PRCTRNIN	08	Map	Err./Edt Info	04/30/2011			09:47:33	IH	PRCTRNIN	073605	2
PRCTRNOUT	12	Map	Comp/Edt Susp	04/30/2011			09:53:07	IH	PRCTRNOUT	073606	3
PRGAUD	00	Completed	Normal	04/30/2011			09:56:42	IH	PRGAUD	073610	4
PRCTRNOUT	12	Map	Susp/Edt Info	04/30/2011			13:21:14	JMK	PRCTRNOUT	073662	5
STRCOMSSN	16	Check	Job Status	04/30/2011			11:15:27	DSH	EVAL	078175	8
PRCTRNOUT	16	Map	Susp/Edt Halt	04/30/2011			15:12:39	DSH	PRCTRNOUT	078243	7
PRCTRNIN	12	Map	None/Edt Susp	04/30/2011			15:13:17	DSH	PRCTRNIN	078244	8

Figure 6.41 EBDI616 — Message Center Entries Report (Detail = \*NO)

Field Definitions

Field	Definition
Selection Criteria	These are all the possible selections that can be made for the printed report and the values chosen for this report.
Process Name	Name that was given to the job at the time the command was initiated. Initially, this is the command name, but can be overridden on the command for each run.
RTN Code	The final return code of the job. The highest return code received from individual steps will be used for the overall job return code.
Message Description	A description of the return code for the job.
Created Date	The date that the job started and was initially logged into the Message Center.
Created Time	The time that the job was started and logged into the Message Center.
User	The user that executed the job.
Job Name	The iSeries job name.
Job Number	The iSeries job number.
Communication Profile	Communication profile ID that was being used. This field only prints for communications jobs.
Communication Log Stamp	Communication Log Stamp that was used. This field only prints for communications jobs.
Message Seq #	A unique key to the Message Center assigned when the job was initially logged.
Command	Command Name that started the job. This field is only printed if it is different than the process name.
<b>Detail Section</b> <b>(Shown when Parm Detail = *YES)</b>	
From Program	The program name that the process was executing at the time the detail entry was written.
Error	Error message number and its description.
User Return Code	The completion code of the individual program that executed.
Sterling Gentran Return Code	The original completion code that was shipped with the product for this particular error message number.

---

Field	Definition
Application	The application definition that was being processed when the error occurred.
Map	The map that was being processed when the error occurred.
Comm Profile	The Comm Profile ID where the data that was being processed resides.
Batch Sequence	The Batch Sequence number for the data on the comm queue that was being processed when the error occurred.



## In this Chapter

The “Audit” chapter explains the processes for tracking, reviewing, modifying and, in general, managing the document information in the Sterling Gentran:Server Audit file. This chapter covers the following topics:

- What is Auditing? ..... 7-1
- What does the Audit Subsystem Do? ..... 7-2
- Take a Closer Look at Auditing ..... 7-2
- Panel Quick Reference ..... 7-4
- Using the Audit Panels ..... 7-7
- Reports ..... 7-93
- Common Questions ..... 7-114

## What is Auditing?

Auditing is the process of monitoring the flow of EDI documents, both inbound and outbound, through your EDI system. Efficiently managing an EDI system requires that you regularly “audit” to ensure that transmissions, both sent outbound and received inbound, are acknowledged.

Acknowledgments are like registered mail where the receiver signs for the delivery, indicating the status of the package that was received (i.e., was it damaged or received normally). In EDI, this is very similar. The acknowledgment is sent back to the sender to indicate the partner received the transmission and the status of that transmission. An important operational task in a secure EDI system is the reconciling of these acknowledgments.

---

# What does the Audit Subsystem Do?

The Audit subsystem gives you these capabilities:

- Search for audit records based on selection criteria, then view or print the results
- Display the status of interchange, group and transaction records in your Audit file using specified sort and “Position To” criteria.
- Display the actual EDI data in a formatted display at the segment and element levels.
- Manually acknowledge EDI documents or delete specified entries.
- Edit and requeue audit data for re-submission
- Selectively purge/restore entries in the Audit file.
- Selectively print Audit file entries.
- Extract selected audit records into a file.

## Take a Closer Look at Auditing

The importance of auditing the results of your EDI processing on a regular basis cannot be overstated. Auditing ensures a trouble-free EDI operating environment and builds shared confidence between yourself and your trading partner regarding the timeliness and accuracy of your exchanges.

Auditing is done by examining and optionally changing the statuses of entries in the system Audit file. Depending on global parameters defined by the System Administrator or EDI Coordinator, the Audit file can contain status records at any or all of the following levels: interchange, group and/or transaction. For each EDI interchange, group, and transaction you send to a trading partner, Sterling Gentran:Server can automatically write a status record to the Audit file. The reverse is also true. For each EDI interchange, group, and transaction your trading partner sends you, Sterling Gentran:Server can also automatically write a status record to the Audit file.



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**NOTE**

SEE Chapter 3, “Partner,” in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide* for a more detailed explanation of interchange, group and transaction levels. SEE Chapter 2, “Global Parameters” in this guide for a more detailed explanation of the procedure for defining Audit file parameters.

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Sterling Gentran:Server has several panels which you can use to review the statuses of the records in the Audit file. From these panels you can verify that your EDI transactions have been acknowledged by your trading partner and that the transactions which you have received have been accepted with or without errors. These panels also provide access to the EDI data records in the inbound and outbound queues so you can see the contents of the EDI transactions that you are

exchanging with your trading partners. This can be particularly useful if you need to “debug” your EDI application or confirm an EDI value that was sent.

There are two methods for logging Audit file data: by Partner ID, or by both User ID and Partner ID. How the Relationship Mode Auditing global parameter is set when the EDI data is processed controls which method is used. Data, by default, is logged under just the Partner ID. However, there may be situations when you want to see data logged using both the Partner ID and the User ID to reflect the relationship of the sender and the receiver.

Developing a maintenance plan for the Audit file is of prime importance. Even if you are a ‘casual’ EDI user, the Audit file can quickly fill up with entries. This can make it difficult for you to find new entries or problem entries when you are ready to reconcile them. More importantly, by regularly maintaining the Audit file, you can improve processing throughput. Sterling Gentran:Server has a Purge Audit File (PRGAUD) command which can be used to keep the Audit file at a manageable size by selectively purging certain types of entries. The Purge Audit File (PRGAUD) command, which is normally run by the System Administrator or EDI Coordinator, selectively purges the Audit file of records which match the selection criteria and may be used to purge the Audit file to tape or a save file.

Sterling Gentran:Server provides the capability to manually delete individual Audit file records or groups of records. You can also manually acknowledge any interchange, group, or transaction record. This is done primarily when an acknowledgment is not received and is manually verified. Manually acknowledging entries is mainly used for reconciliation purposes.

You can mark records as “acknowledged” at any level (that is, interchange, group, or transaction), and the system completes the task of marking the records from that level down. For example, if you mark an interchange record as manually acknowledged, all of its associated group and transaction records are also marked as acknowledged. Deleting records works the same way: once a record is deleted, all the associated records are also deleted.

Purging the Audit file on a routine basis results in more efficient throughput in processing. As records are being logged in the Audit file during inbound and outbound processing, the system looks for duplicates. If there is already a record in the Audit file for the partner with the same control number for that level, a 209 error is generated (duplicate Audit record). This is potentially a problem because the same data might have been sent twice or accidentally processed twice. By routinely purging the Audit file of records no longer needed for acknowledgment reconciliation, the time it takes to check for duplicate records is greatly reduced.

In summary, careful management and maintenance of the Audit file can significantly contribute to the overall success of your EDI endeavor. The establishment of a mutually agreed upon auditing plan between you and your trading partners should be a top priority for your EDI environment.

## Panel Quick Reference

The following table gives the purpose and access methods for the panels in the Audit Subsystem.

Panel Name	Purpose	Access Methods
GENAUD Sterling Gentran:Server Audit Menu	Select an option to work with records in the Audit file	<ul style="list-style-type: none"> <li>○ Select option '5' on the GENMAIN menu</li> <li>○ Type 'GO GENAUD' on the command line</li> </ul>
SLTAUD Select Audit Records	Search for audit records using selection criteria	<ul style="list-style-type: none"> <li>○ Select option '1' on the GENAUD menu</li> <li>○ Type 'SLTAUD' on the command line</li> </ul>
EDIX251-FMT01 Work with Audit Interchange Status	Select an option to process the interchange records in the Audit file	<ul style="list-style-type: none"> <li>○ Select option '2' on the GENAUD menu</li> <li>○ Type 'EXCPGM EDIX251' on the command line</li> </ul>
EDIX252-FMT01 Work with Audit Group Status	Select an option to process the group records in the Audit file	<ul style="list-style-type: none"> <li>○ Select option '3' on the GENAUD menu</li> <li>○ Select option '12' (Groups) on panel EDIX251</li> <li>○ Type 'EXCPGM EDIX252' on the command line</li> </ul>
EDIX253-FMT01 Work with Audit Transaction Status	Select an option to process the transaction records in the Audit file	<ul style="list-style-type: none"> <li>○ Select option '4' on the GENAUD menu</li> <li>○ Select option '12' (Transactions) on panel EDIX252</li> <li>○ Type 'EXCPGM EDIX253' on the command line</li> </ul>
PRTAUD Print Audit File	Print report of Audit file information	<ul style="list-style-type: none"> <li>○ Select option '5' on the GENAUD menu</li> <li>○ Select option '30' on panel EDIX251, EDIX252, or EDIX253</li> <li>○ Type 'PRTAUD' on the command line</li> </ul>
PRTNETSTS Print Network Status Report	Print information from the Network Reconciliation Status file	<ul style="list-style-type: none"> <li>○ Select option '6' on the GENAUD menu</li> <li>○ Select option '32' on panel EDIX251</li> <li>○ Type 'PRTNETSTS' on the command line</li> </ul>
PRTOVRACK Print Overdue Acknowledgment Report	Print report of overdue acknowledgments	<ul style="list-style-type: none"> <li>○ Select option '7' on the GENAUD menu</li> <li>○ Type 'PRTOVRACK' on the command line</li> </ul>

<b>Panel Name</b>	<b>Purpose</b>	<b>Access Methods</b>
PRGAUD Purge Audit File	Perform routine housekeeping purges on Audit file and Network Status file	<ul style="list-style-type: none"> <li>○ Select option '10' on the GENAUD menu</li> <li>○ Select option '40' on panel EDIX251 or EDIX252</li> <li>○ Type 'PRGAUD' on the command line</li> </ul>
AUDITPURGE Purge Audit by Partner	Purge the Audit file and Network Status file on partner-by-partner basis	<ul style="list-style-type: none"> <li>○ Select option '11' on the GENAUD menu</li> <li>○ Select option '41' on panel EDIX251 or EDIX252</li> <li>○ Type 'AUDITPURGE' on the command line</li> </ul>
PRGNET Purge Network Status	Purge the Network Status file (alternative to using PRGAUD command)	<ul style="list-style-type: none"> <li>○ Select option '12' on the GENAUD menu</li> <li>○ Select option '42' on panel EDIX251</li> <li>○ Type 'PRGNET' on the command line</li> </ul>
RTVNET Retrieve Network Status File	Retrieve previously purged Network Status data from tape or save file	<ul style="list-style-type: none"> <li>○ Select option '16' on the GENAUD menu</li> <li>○ Select option '44' on panel EDIX251</li> <li>○ Type 'RTVNET' on the command line</li> </ul>
RTVAUD Retrieve Audit File	Retrieve previously purged Audit and Network Status data from tape or save file	<ul style="list-style-type: none"> <li>○ Select option '15' on the GENAUD menu</li> <li>○ Select option '43' on panel EDIX251 or EDIX252</li> <li>○ Type 'RTVAUD' on the command line</li> </ul>
REQUEUE Requeue EDI data from Audit	Requeue EDI data for transmission (if outbound) or for processing (if inbound).	<ul style="list-style-type: none"> <li>○ Select option '31' on panel EDIX251, EDIX252, EDIX253, or EDIX259</li> <li>○ Press <b>F22</b> (Requeue) on panel EDIX451, EDIX452, or EDIX453</li> </ul>
EDIX259-FMT01 Work with Selected Audit Records	View search results from Select Audit Records function	<ul style="list-style-type: none"> <li>○ Type '*' in the Output field on SLTAUD command</li> </ul>
EDIX451 EDI Interchange Inquiry	View the EDI data contained within a specific interchange	<ul style="list-style-type: none"> <li>○ Select option '5' (View) on panel EDIX251</li> </ul>
EDIX452 EDI Group Inquiry	View the EDI data contained within a specific group	<ul style="list-style-type: none"> <li>○ Select option '5' (View) on panel EDIX252</li> </ul>

Panel Name	Purpose	Access Methods
EDIX453 EDI Transaction Inquiry	View the EDI data contained within a specific transaction	○ Select option '5' (View) on panel EDIX253
EDIX454 Segment Inquiry	View the EDI data for a specific segment	○ Press <b>Enter</b> with the cursor on the specified segment on panel EDIX451, EDIX452, or EDIX453
EDIX455 Data Element Definition	View data element information	○ Select option '1' (Select) on panel EDIX454 for the specified element
EDIX456 Data Element Code Definition	View data element code definition	○ Select option '2' (View Codes) on EDIX454 for elements with Data Element Type equal to 'ID'
PRTEDIDTA Print EDI Data	Print EDI data within the displayed Interchange, Group, or Transaction at the segment level	○ Select option '6' on panel EDIX251, EDIX252, EDIX253, or EDIX259 ○ Press <b>F21</b> (Prt Dta) on panel EDIX451, EDIX452, or EDIX453 ○ Type 'PRTEDIDTA' on the command line
SLTREQ Select Requeue Records	Search for audit record(s) to be requeued	○ Select option 20 on the GENAUD menu ○ Type 'SLTREQ' on the command line

# Using the Audit Panels

## Access the Audit Subsystem

To access the Audit subsystem, select option '8' (Audit Menu) on the Sterling Gentran:Server menu (GENMAIN).

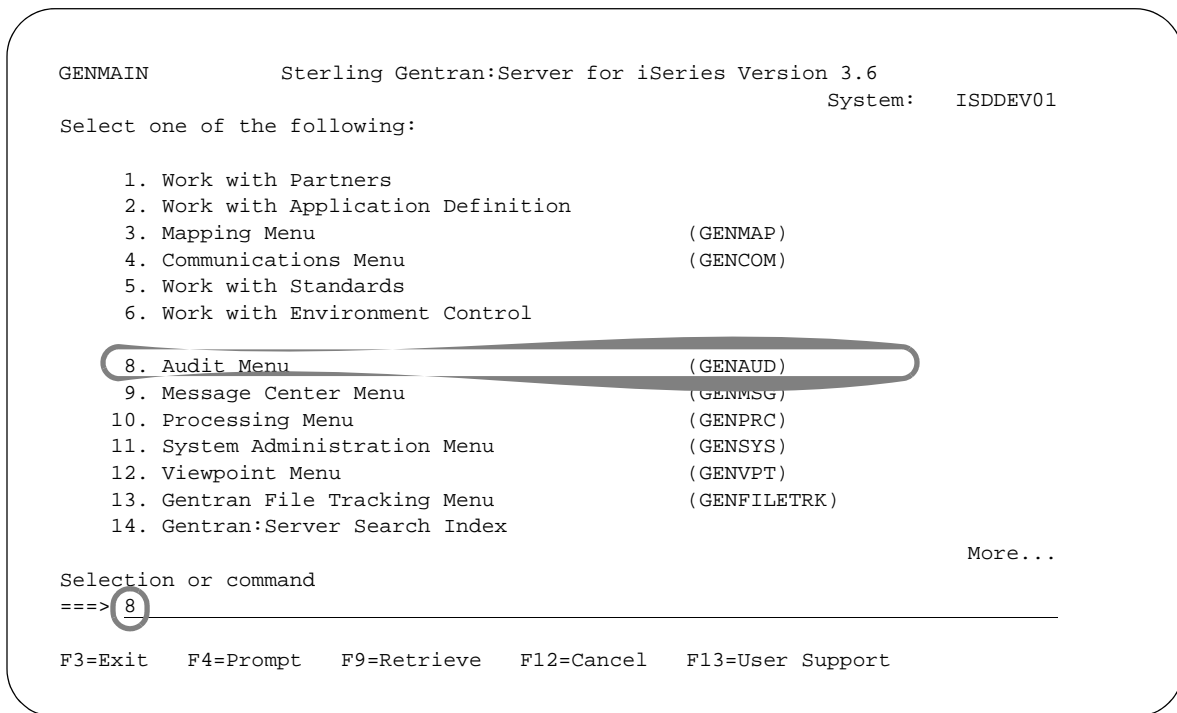


Figure 7.1 Select option '8' on the GENMAIN menu to access the Audit menu.



### NOTE

Another way to access the audit menu is to type 'GO GENAUD' on the command line and press **Enter**.

The Audit Menu (GENAUD) is shown, as displayed below.

```

GENAUD                      Sterling Gentran:Server Audit 3.6
                                System:   ISDDEV01

Select one of the following:

    1. Audit Search Utility          (SLTAUD)
    2. Work with Audit Interchange Status
    3. Work with Audit Group Status
    4. Work with Audit Transaction Status
    5. Print Audit Report            (PRTAUD)
    6. Print Network Status Report   (PRTNETSTS)
    7. Print Overdue Acknowledgments (PRTOVRACK)

    10. Purge Audit File             (PRGAUD)
    11. Purge Audit using Partner File Options (AUDITPURGE)
    12. Purge Network Status File    (PRGNET)

    15. Retrieve Audit File          (RTVAUD)
    16. Retrieve Network Status File (RTVNET)

                                                More...

Selection or command
====> _____

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F13=User Support

```

Figure 7.2 Audit Menu (GENAUD), first panel

```

GENAUD                      Sterling Gentran:Server Audit 3.6
                                System:   ISDDEV01

Select one of the following:

    20. Audit Search Requeue Utility  (SLTREQ)

    90. Sign off

                                                Bottom

Selection or command
====> _____

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F13=User Support

```

Figure 7.3 Audit Menu (GENAUD), second panel



The Sterling Gentran:Server Audit menu (GENAUD) is the starting point for all tasks associated with searching, tracking, reviewing, modifying and managing the Audit file. From this panel, you can go to the Audit Search Utility, or directly to interchange, group, or transaction level status panels. You can also perform general activities such as purging or printing the audit report. From the status panels, you can perform individual audit functions such as manual acknowledging, viewing EDI data, requeuing a document, or printing a document.

### Relationship Mode Auditing

You have the option of using a relationship mode when logging data to the Audit file. This option is controlled by the setting of the Relationship Mode Auditing global parameter. The following figure shows a sample of how the identifiers look when relationship mode is used.

```

EDIX251          Work with Audit Interchange Status          EDI    04/30/11
FMT01           pgmlib: G3X6PGM      dtalib: G3X6DTA          12:00:00

Position to Partner MYCOMPANY          Qual____ Created _____

Type option (and Information), press Enter.
  4=Delete  5=View  6=Print EDI  12=Groups  13=Acknowledge  30=Print Audit
                S                               Status      Created
Opt Interchange Partner          Qual R Control #      A/N/C      Date      Time
-----
MYCOMPANY      BG-PARTNER          S 00006          / /      04-30-11 16:02
MYCOMPANY      BG-PARTNER          S 00005          / /      04-30-11 15:57
MYCOMPANY      COFFEE DIST          R 0000000000005 / /PI     04-30-11 07:59
MYCOMPANY      TPCOMPANY           S 000000028      / /      04-30-11 16:02
MYCOMPANY      TPCOMPANY           S 000000027      / /      04-30-11 15:57
STERLING SFW   VENDOR-1          S 000000034      / /      04-30-11 08:00
SWEET TEA          S 000000001      / /Q     04-30-11 14:28
SWEET TEA          S 000000002      / /Q     04-30-11 14:28
SWEET TEA          R 000000001      / /PI    04-30-11 14:27
                                                More...

Parameters or command
====> _____
F1=Help  F3=Exit  F12=Cancel  F15=Sort  F23=More Options  F24=More Keys
    
```

Figure 7.4 Relationship Mode Auditing Example

As illustrated in the example above, two fields on the Work with Audit Interchange Status panel (EDIX251-FMT01) are changed when the Relationship Mode Auditing parameter is turned on, or set to 'Y'. Turning the parameter on triggers the system configuration file (SYSCFG) to change the panel layout. You can now enter both a user and partner ID in the Position to fields. The first 15 characters of the user ID and partner ID are shown for each record that was logged to the Audit file when relationship mode was turned on.

SEE the "Global Parameters" chapter for more information about using the Relationship Mode Auditing parameter.

## Search the Audit File

The Audit Search Utility enables you to search the audit file for records using selection criteria to narrow your search. You can also base your selection on specific communications information provided that it hasn't been purged from your system. If no communications information is entered, the search is based solely on the audit search criteria entered. Once the search has been completed, the communications information is accessible provided it has not been purged from your system.

To start an audit search, go to the Select Audit Records panel by selecting option '1' from the Sterling Gentran:Server Audit menu (GENAUD), as shown in the following figure.

```

GENAUD                      Sterling Gentran:Server Audit 3.6
                               System:   ISDDEV01
Select one of the following:

  1. Audit Search Utility          (SLTAUD)
  2. Work with Audit Interchange Status
  3. Work with Audit Group Status
  4. Work with Audit Transaction Status
  5. Print Audit Report            (PRTAUD)
  6. Print Network Status Report   (PRTNETSTS)
  7. Print Overdue Acknowledgments (PRTOVRACK)

 10. Purge Audit File              (PRGAUD)
 11. Purge Audit using Partner File Options (AUDITPURGE)
 12. Purge Network Status File     (PRGNET)

 15. Retrieve Audit File           (RTVAUD)
 16. Retrieve Network Status File   (RTVNET)
                                     More...

Selection or command
=== 1
-----
F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F13=User Support

```

Figure 7.5 Select the Audit Search Utility from the Audit Menu

The Select Audit Records panel (SLTAUD) displays, as shown in the following figure.

```

Select Audit Records (SLTAUD)

Type choices, press Enter.

Direction . . . . . > *IN          *IN, *OUT
Audit Level . . . . . *TRAN       *TRAN, *GROUP, *INT
Partner ID beginning with . . . *ALL
Doc Info (eg PO#) containing . . *ALL
Transaction ID beginning with . *ALL       *ALL, value
Group ID beginning with . . . . *ALL       *ALL, value
Acknowledgment status . . . . . *ALL       *ALL, *UNACK, *ACK, *ERROR...
      + for more values
Older than or equal to . . . . . *ALL       *ALL, age in days
From Date. . . . . *BEGIN      *BEGIN, *CURRENT, Date
To Date. . . . . *END         *END, *CURRENT, Date
Output . . . . . *              *, *OUTFILE, *PRINT

Additional Parameters

Run Interactively? . . . . . *YES          *YES, *NO
                                                    More...

F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
    
```

Figure 7.6 Select Audit Records panel (SLTAUD) Part 1 (after pressing F10 to show Additional Parameters)

Press **Page Down** to go to the second page of the panel, which is shown in the following figure.

```

Select Audit Records (SLTAUD)

Type choices, press Enter.

Comm Profile ID beginning with *ALL       *ALL, value
Comm batch status . . . . . *ALL       *ALL, Q, H, IP, QE, SA, SN...
Comm Queue records containing . *ALL
Schedule Job? . . . . . *NO          *NO, *YES

                                                    Bottom

F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
    
```

Figure 7.7 Select Audit Records panel (SLTAUD) Part 2

You can use any combination of the search criteria to narrow your search. For this example, enter the search criteria in this table.

Search Field	Search Value	Purpose
Direction	*IN	Limits the search to just inbound records
Partner ID Beginning With	TPCOMPANY	Limits the search to records with Partner IDs that begin with 'TPCOMPANY'
Acknowledgment Status field	*ACK	Limits the search to just records with a status of 'Acknowledged'
Older than or equal to	30	Limits the search to records 30 or more days old

After the search criteria are entered, press **Enter** to begin the selection process. Note that the Audit Level field is at the default, \*TRAN, so transaction-level data will be searched. The Output field is at the default '\*', so the report displays onscreen (on the Work with Selected Audit Records panel (EDIX259-FMT01), which is described in the next section).

## Field Descriptions

### **Direction**

Enter the document direction: \*IN for inbound, or \*OUT for outbound.

### **Audit Level**

Search at interchange, group, or transaction level. The default is transaction level.



### **NOTE**

You must specify \*TRAN as the audit level to search and select data based on the Audit Indicator (Doc Info) field.

### **Partner ID beginning with**

Enter a full or partial partner ID up to 30 characters.

### **Doc Info (eg PO#) containing**

Enter up to 25 characters to search for in the Audit Indicator field. For example, if you have defined the Audit Indicator to be the purchase order number, you could enter a specific purchase order number to search for in this field. The Audit Indicator is defined in the standards. (SEE Chapter 7, "Standards," in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide* for more information.)

### **Transaction ID beginning with**

Enter up to six characters of the desired transaction ID. This can only be specified if the audit level is \*TRAN.

**Group ID beginning with**

Enter up to six characters of the desired group ID. This can only be specified if the audit level is \*GROUP.

**Acknowledgment Status**

Enter up to six separate acknowledgment statuses, or leave the default, \*ALL, to search on all statuses. Available statuses are:

- \*ALL Select Audit records regardless of the acknowledgment status (both unacknowledged and acknowledged records would be included).
- \*UNACK Select Audit records that have not yet been acknowledged (status would be blank). Keep in mind that at the interchange level, many partners do not specifically acknowledge the interchange and the status is usually only filled in at the group and transaction levels).
- \*ERROR Select Audit records that have been acknowledged but were accepted with errors (status code of 'E').
- \*REJ Select Audit records that have been acknowledged but were rejected (status code = 'R'). Special arrangements should be made when documents are rejected to get the data corrected and resent.
- \*PART Select Audit records that have been acknowledged but were partially accepted (status code = 'P'). The partial acceptance status should only occur at the group level to indicate that some transactions were accepted, but not all.
- \*ACK Select all Audit records that have an acknowledgment status, regardless of the specific status code (status code <> ' '). This would include manually acknowledged as well as partner acknowledged records.
- \*USER Select Audit records that have been manually acknowledged by the user (status code = 'U'). These are records that the user used option '13' (Acknowledge) for within the Sterling Gentran:Server Audit subsystem to manually mark them as acknowledged. Typically this occurs when the Partner provides a verbal acknowledgment.
- \*ACCPT Select Audit records that have been acknowledged by your partner with an 'accept with no errors' status (status code = 'A').

**Older than or equal to**

Enter the minimum age of the records to be found in days. For example, entering '30' will return records of 30 days old or more.

**From Date**

Enter the oldest date to include in the search, using the date format specified in the System Configuration file (SYSCFG). Use the SETGENFMT command on the GENSYSCFG menu to determine the current date format setting. You must enter '\*BEGIN' in this field if you entered a number (for age in days) in the 'Older than or equal to' field (AGEDAYS parameter).

**To Date**

Enter the most recent date to include in the search, using the date format specified in the System Configuration file (SYSCFG). Use the SETGENFMT command on the GENSYSCFG menu to determine the current date format setting. You must enter '\*END' if you entered a number (age in days) in the 'Older than or equal to' field.

**Output**

Select the output method: Type '\*' for display on-screen, '\*OUTFILE' to write to a file, or '\*PRINT' to send the output to a printer. The default is to the screen. To use a different method, enter the desired parameter in the Output field on the SLTAUD panel. The following table shows the result of using each output option.

Output Field Entry	Output sent to	Result	Output generated if no matching records found?
*	Screen	Work with Selected Audit Records panel displays with the results.	Yes. Message "No records found greater than or equal to search request" displayed onscreen.
*OUTFILE	Output File	Additional fields displayed on SLTAUD panel for library and file name selection. Output file generated to specified library and file name.	No.
*PRINT	Printer	Results are sent to print file.	Yes. Selection criteria and "Total Record Count = 0" printed.

**Print Envelope Info?**

The field is available when Output = '\*PRINT.' Specify \*YES to print envelope information on the report. The default is \*NO.

**Additional Parameters****Run Interactively?**

This parameter enables you to perform the process interactively (immediately). To work with the results of the selected records online, specify \*YES; otherwise, the results will be printed.

**Comm Profile ID beginning with**

Search for profile IDs that begin with the character string (1-8 characters) entered here. The data is stored on the communications queue under a unique profile ID.

**Comm batch status**

Enter a specific batch status to search on, or leave at the default, \*ALL, to allow all statuses. Valid statuses are listed for inbound and outbound.

**Inbound status codes:**

RN	Received Normal – record was successfully received from the designated Profile ID.
RA	Received Abnormal – record was not successfully received from the designated Profile ID.
PI	Processed Inbound – record has been received and processed.
CP	Currently in Progress – batch is currently being processed by the inbound editor.
IP	In Process – batch is currently being processed by a communications session.
H	On Hold – record was changed to a temporary “on hold” status.

**Outbound status codes**

Q	Queued – batch is queued to be sent to the Profile ID specified at the time that Profile ID initiates a communication session with you.
H	On Hold – record was changed to a temporary “on hold” status, preventing it from being queued for transmission during a communication session.
IP	In Progress – communication session is in progress; batch is in the process of being sent to the designated Profile ID and the process is not yet complete.
QE	Queued with Errors – record is queued with errors, and will not be sent to the Profile ID specified, unless the status is changed to “Q”.
SA	Sent Abnormal – batch was not successfully sent to the designated Profile ID. This batch will be sent again automatically.
SN	Sent Normal – batch was successfully sent to the designated Profile ID.

**Comm queue records containing**

To search the EDI data in the communications queues for a matching string of data, specify as much of the string as you want in this parameter (EDIDATA). Each communications queue record containing the EDI data will be searched for a possible match (any characters beginning with the string specified will be selected).

**NOTE**

---

If the string of characters begins on one communications queue record and wraps to a second communications queue record, it will not be included in the selected records. At this time, only one record at a time can be searched.

---

**Schedule Job?**

This field is used to designate whether you want to schedule the command to run as a batch job at a later time. The default value is \*NO. If the value is \*YES, the system displays the Schedule Job panel (SCHJOB), which contains the job run parameters.

### Review Search Results

Once you have selected the output method and the query is run, the results are either shown onscreen, or sent to a file. The following figure shows the search results for the query done in the previous section. The output has been sent to the screen, so the Work with Selected Audit Records panel (EDIX259-FMT01) displays.

```

EDIX259          Work with Selected Audit Records          04/30/11
FMT01           pgmlib: G3X6PGM      dtalib: G3X6DTA      12:00:00
                Direction: INBOUND   Audit Level: TRANSACTION

Type option (and Information), press Enter.
  6=Print EDI  11=Partner  12=EDI Data  13=Comm Queue  14=Audit  31=Requeue

Opt Partner ID          Date      Tran      Doc Info          Ack Profile Sts
___ COFFEE DIST          04-30-11  ORDERS  25170801          EVAL      PI
___ COFFEE DIST          04-30-11  ORDERS  25170801          A  CN3BSC  PI
___ C13579                04-30-11   850    01120001          E  CN3BSC  PI
___ C13579                04-30-11   850    01120030          E  CN3BSC  PI
___ MYCOMPANY COFFEE 04-30-11  ORDERS  25170801          CN3BSC  PI
___ SWEET TEA             04-30-11   850    01120001          A  CN3BSC  PI
___ SWEET TEA             04-30-11   850    01120030          E  CN3BSC  PI
___ SWEET TEA             04-30-11   850    01120001          E  CN3BSC  PI
___ VENDOR-1             04-30-11   810    INV01              E  CN3BSC  PI

                                                    Bottom

Parameters or command
===>
F3=Exit  F6=Fold/Unfold  F9=Retrieve  F12=Cancel  F21=Print Results
    
```

Figure 7.8 Work with Selected Audit Records panel (EDIX259-FMT01) – example search results

Any records that meet the selection criteria entered on the Select Audit Records panel (SLTAUD) are shown.

You can work with the selected records by branching to other options.

Option	Function
6	Prompts the PRTEIDTA command to print the EDI data for the selected record.
11	Goes to the Work with Partners panel for the selected partner.
12	Displays the EDI data for the selected record from the communications queue.
13	Goes to the appropriate communications queue (in/out) for the selected record.
14	Goes to the Audit Status panel at the specified level for the selected record.
31	Prompts the Requeue command for the selected record.



You can also use the following function keys to print and expand the data onscreen.

Key	Function
<b>F6</b> (Fold/ Unfold)	“Unfolds” each record so that the first 78 characters of the EDI data for each record are displayed. This is useful if you are searching on a string of data, and is only displayed when specific communications search criteria are entered.
<b>F21</b> (Print Results)	Prints a list of the selected Audit records currently being displayed onscreen.



**NOTE**

You can only branch to the communications subsystems if the data has not been purged from your system. If a communications profile displays on the subfile record, the information is still available.

The search results, shown in Figure 7.8, are shown as they are displayed after pressing **F6** (Fold/Unfold) in the following figure.

```

EDIX259                      Work with Selected Audit Records                      04/30/11
FMT01                        pgmlib: G3X6PGM      dtalib: G3X6DTA                12:00:00
                               Direction: INBOUND      Audit Level: TRANSACTION

Type option (and Information), press Enter.
  6=Print EDI  11=Partner  12=EDI Data  13=Comm Queue  14=Audit  31=Requeue
                               Tran
                               Comm
Opt Partner ID                Date      ID      Doc Info                Ack Profile Sts
___ SWEET TEA                  04-30-11  850    01120001                A  CN3BSC  PI
___ SWEET TEA                  04-30-11  850    01120030                E  CN3BSC  PI
___ SWEET TEA                  04-30-11  850    01120001                E  CN3BSC  PI
___ VENDOR-1                   04-30-11  810    INV01                    E  CN3BSC  PI

Parameters or command
====>
F3=Exit  F6=Fold/Unfold  F9=Retrieve  F12=Cancel  F21=Print Results
    
```

Figure 7.9 Work with Selected Audit Records panel after pressing F6 (Fold/Unfold)

Once you are finished reviewing the panel, press **F3** (Exit) or **F12** (Cancel) to return to the Select Audit Records command (SLTAUD). When you are finished using the Search utility, press **F3** (Exit) or **F12** (Cancel) to return to the Audit menu (GENAUD).

## View Statuses for Interchange, Group, and Transaction Records

Sterling Gentran:Server provides several options for viewing the statuses of the EDI transmissions which you have exchanged with your trading partner(s). A separate panel is used for viewing Audit file records at each of the three levels: interchange, group, and transaction. Each inquiry panel has sort and “Position To” capabilities which allow you to quickly locate and display individual Audit file records or groups of records.

In this section, you will learn how to select sort criteria for Audit file records at the interchange, group, and transaction levels. You will also learn how to review the contents of the status records at each level.

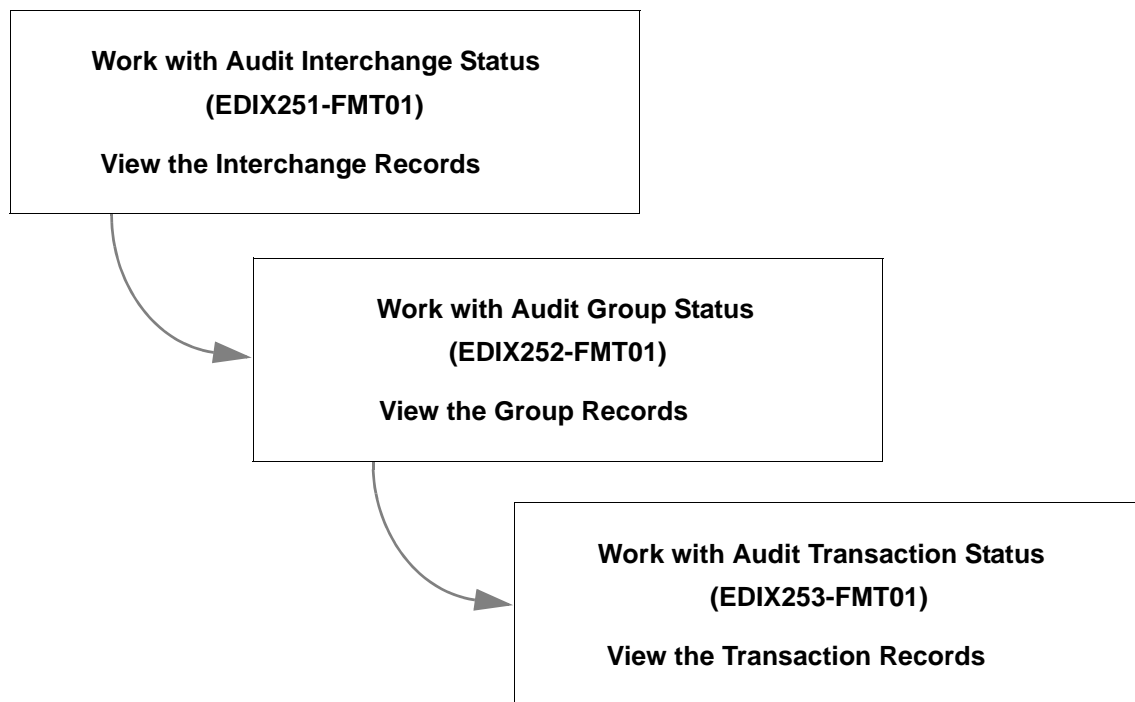


Figure 7.10 View statuses for Interchange, Group, and Transaction records

## Working with Audit Records at the Interchange Level

To work directly with records at the Interchange level, select option '2' (Work with Audit Interchange Status) from the Sterling Gentran:Server Audit menu, as shown in the following figure.

```
GENAUD                      Sterling Gentran:Server Audit 3.6
                               System:   ISDDEV01

Select one of the following:

  1. Audit Search Utility              (SLTAUD)
  2. Work with Audit Interchange Status
  3. Work with Audit Group Status
  4. Work with Audit Transaction Status
  5. Print Audit Report                (PRTAUD)
  6. Print Network Status Report       (PRTNETSTS)
  7. Print Overdue Acknowledgments     (PRTOVRACK)

 10. Purge Audit File                  (PRGAUD)
 11. Purge Audit using Partner File Options (AUDITPURGE)
 12. Purge Network Status File         (PRGNET)

 15. Retrieve Audit File                (RTVAUD)
 16. Retrieve Network Status File       (RTVNET)

More...

Selection or command
=== 2

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F13=User Support
```

Figure 7.11 Audit Menu (GENAUD)

The Work with Audit Interchange Status panel (EDIX251-FMT01) displays, as shown in the following figure.

```

EDIX251          Work with Audit Interchange Status          EDI  04/30/11
FMT01           pgmlib: G3X6PGM      dtalib: G3X6DTA        12:00:00

Position to Partner_____ Qual_____ Created_____

Type option (and Information), press Enter.
 4=Delete 5=View 6=Print EDI 12=Groups 13=Acknowledge 30=Print Audit

Opt Interchange Partner      Qual R Control #      Status      Created
                               A/N/C      Date      Time
-----
___ TPCOMPANY                S 000000061          / /Q 04-30-11 11:03
___ TPCOMPANY                S 000000060          / /Q 04-30-11 11:00
___ TPCOMPANY                S 000000059          / /Q 04-30-11 10:28
___ TPCOMPANY                S 000000058          / /Q 04-30-11 10:25
___ TPCOMPANY                S 000000057          / /Q 04-30-11 10:14
___ TPCOMPANY                S 000000056          / /Q 04-30-11 10:12
___ TPCOMPANY                S 000000055          / /Q 04-30-11 10:10
___ TPCOMPANY                S 000000054          / /Q 04-30-11 10:07
___ TPCOMPANY                S 000000053          / /Q 04-30-11 09:58
                               More...

Parameters or command
===> _____
F1=Help  F3=Exit  F12=Cancel  F15=Sort  F23=More Options  F24=More Keys
  
```

Type option (and Information), press Enter.  
31=Requeue 32=Print Network 40=Purge Audit 41=Purge by Partner

Type option (and Information), press Enter.  
42=Purge Network 43=Retrieve Audit 44=Retrieve Network

Figure 7.12 Work with Audit Interchange Status panel (EDIX251-FMT01)

You can perform the following tasks from the Work with Audit Interchange Status panel (EDIX251-FMT01):

- Viewing statuses for interchange, group and transaction records
- Displaying EDI data, segment and data element definitions
- Modifying the status of the Audit file records
- Selectively purging the Audit file
- Printing Audit file reports
- Requeuing selected transactions for reprocessing or retransmission with the option of editing the data

## View the Interchange Records

The Work with Audit Interchange Status panel (EDIX251-FMT01) is used as the starting point for all auditing functions at the interchange level. This panel displays all the interchange level records in the Audit file. The interchange level, as you remember, is the “topmost” level in the EDI transaction. Each interchange envelope contains at least one group entry; each group contains at least one transaction entry. The Audit inquiry process begins at the interchange level and works “downward” through the group records and transaction records.



---

### NOTE

Although it is recommended, it is not a requirement to log each level in the Audit file. (SEE Chapter 2, “Global Parameters” for additional information.)

---

Depending on your EDI environment and the frequency with which you perform auditing tasks, you may find that there are a large number of interchange level records to browse through before you can find the specific record(s) which you are looking for. You may also not know all the details of the records you are looking for and may need the help of a sorting process to find records meeting certain criteria.

The default sort order for the Audit file at the interchange level is set initially as ‘Partner, Qualifier, Created Date.’ You can override the default sort order through an option on the System Configuration menu, Set Audit Interchange Sort Option. (SEE Chapter 5 “System Considerations,” in this guide for more information about working with system configuration options.)

To access the data in a different order, the following sort options are available at the interchange level:

- Part (Interchange Partner), Qual (Qualifier), Created (Creation Date/Time)
- Part (Interchange Partner), Qual (Qualifier), S/R (Send/Receive Code)
- S/R (Send/Receive Code), Part (Interchange Partner), Qual (Qualifier)
- Control (Control #), Part (Interchange Partner)
- Created (Creation Date/Time)
- Part (Interchange Partner), Qual (Qualifier), Created (Creation Date)

On the following pages, figures are used to demonstrate the sort feature.

The following figure illustrates the sort window.

```

EDIX251          Work with Audit Interchange Status          EDI  04/30/11
FMT01           pgmlib: G3X6PGM      dtalib: G3X6DTA         12:00:00

Position to Partner _____ Qual _____ Created _____

Type option (and Information), press Enter.
 4=Delete 5=View 6=Print EDI 12=Groups 13=Acknowledge 30=Print Audit
                S                               Status   Created
Opt Interchange Partner      Qual R Control #      A/N/C   Date   Time
-----
                S 00000000000011 / /Q 04-30-11 10:08
                R 00000000000005 A/ /PI 04-30-11 16:37
                S 00000000000010 / /Q 04-30-11 14:12
                S 00000000000009 / /Q 04-30-11 11:54
                S 00000000000005 / / 04-30-11 08:08
                ZZ S 00000000000004 / / 04-30-11 08:00
                R 00000000000005 / /PI 04-30-11 11:05
                S 00000000000014 / /Q 04-30-11 12:14
                R 00000000000006 / /PI 04-30-11 15:24
                                                More...


Position/Sort By
1=Select
__ Part Qual S/R
__ S/R Part Qual
__ 1 Control Part
__ Created
__ Part Qual Created


F3=Exit F12=Cancel
F15=Sort F23=More Options F24=More Keys
  
```

Figure 7.13 Interchange Status Sort Options

To select a sort option for the interchange records in the Audit file:

- Press **F15** (Sort).
- Type '1' in the Option field next to the sort option which you want to use and press **Enter**. Select the "Control" sort option, which is illustrated in the next figure.

 **NOTE** \_\_\_\_\_  
On the sort window, the cursor is initially positioned next to the current sort criteria.

 **NOTE** \_\_\_\_\_  
You can change the default sort option for this panel. (SEE the topic "System Configuration File" in Chapter 5, "System Considerations" for more information.)

```

EDIX251          Work with Audit Interchange Status      EDI  04/30/11
FMT01           pgmlib: G3X6PGM      dtalib: G3X6DTA      12:00:00

Position to Control # 000000002      Partner TPC

Type option (and Information), press Enter.
  4=Delete  5=View  6=Print EDI  12=Groups  13=Acknowledge  30=Print Audit
              S              Status      Created
Opt Interchange Partner      Qual R Control #      A/N/C      Date      Time
-----
TPCOMPANY                    R 000000002      / /PI 04-30-11 15:24
VENDOR-1                     R 000000005      / /PI 04-30-11 08:49
VENDOR-2                     S 000000021      / /  04-30-11 09:53
VENDOR-3                     S 000000021      / /  04-30-11 09:53
VENDOR-4                     S 000000021      / /  04-30-11 09:53
VENDOR-2                     S 000000022      / /  04-30-11 14:58
VENDOR-3                     S 000000022      / /  04-30-11 14:58
VENDOR-4                     S 000000022      / /  04-30-11 14:58
VENDOR-2                     S 000000023      / /Q  04-30-11 15:07
More...

Parameters or command
===>
F1=Help  F3=Exit  F12=Cancel  F15=Sort  F23=More Options  F24=More Keys
    
```

Figure 7.14 Interchange Status Sorted by Control #

The panel display returns with the interchange records sorted by the selected option, with the appropriate keys highlighted.

This section demonstrates how to use the “Position To” field in conjunction with the various sort options. When a sort option is selected, the display is positioned at the first Audit file record in the sort order. Depending on the number of interchange records in the Audit file, this may not always be a convenient starting point for your inquiry. To optimally position the display, you can make use of the “Position To” field.

Depending on the current sort order of the Audit file, the “Position To” fields will vary as shown in the following table.

Sort Option	“Position To” Option
Part, Qual, S/R	Position to Interchange Partner, Qual, S/R
S/R, Part, Qual	Position to S/R, Interchange Partner, Qual
Control, Part	Position to Control #, Interchange Partner
Created	Position to Created Date/Time
Part, Qual, Created	Position to Interchange Partner, Qual, Created Date

The “Position To” field is located at the top of the panel as shown in the next figure. Press **F15** (Sort) and select the “Created” sort option, then resort the data by the “S/R” option. The next two figures illustrate the data sorted by Created Date/Time and by the Send/Receive flag.

```

EDIX251          Work with Audit Interchange Status          EDI  04/30/11
FMT01           pgmlib: G3X6PGM      dtalib: G3X6DTA        12:00:00

Position to Created Date/Time 04/30/11__ 05:00

Type option (and Information), press Enter.
  4=Delete 5=View 6=Print EDI 12=Groups 13=Acknowledge 30=Print Audit

      S              Status      Created
Opt Interchange Partner      Qual R Control #      A/N/C      Date      Time
---
C13579                      S 000000080      / /Q 04-30-11 04:28
SWEET TEA                    S 000000001      / /Q 04-30-11 04:28
SWEET TEA                    S 000000002      / /Q 04-30-11 10:28
SWEET TEA                    R 000000001      / /PI 04-30-11 04:27
TPCOMPANY                    S 000000066      / /Q 04-30-11 04:22
TPCOMPANY                    S 000000065      / /Q 04-30-11 04:21
TPCOMPANY                    S 000000064      / /Q 04-30-11 04:20
COFFEE DIST                  R 000000000000006 / /PI 04-30-11 01:26
TPCOMPANY                    S 000000063      / /Q 04-30-11 01:06
More...

Parameters or command
====>
F1=Help  F3=Exit  F12=Cancel  F15=Sort  F23=More Options  F24=More Keys

```

Figure 7.15 Interchange Status Sorted by Created Date/Time

```

EDIX251          Work with Audit Interchange Status          EDI  04/30/11
FMT01           pgmlib: G3X6PGM      dtalib: G3X6DTA        12:00:00

Position to S/R Interchange Partner      Qual

Type option (and Information), press Enter.
  4=Delete 5=View 6=Print EDI 12=Groups 13=Acknowledge 30=Print Audit

      S              Status      Created
Opt Interchange Partner      Qual R Control #      A/N/C      Date      Time
---
COFFEE DIST                  R 000000000000005 A/ /PI 04-30-11 06:37
COFFEE DIST                  R 000000000000006 / /PI 04-30-11 01:26
COFFEE DIST XXX              R 000000000000006 / /PI 04-30-11 05:24
COFFEE DIST XXX              R 000000000000005 / /PI 04-30-11 01:05
C13579                      R 000000001      / /PI 04-30-11 01:51
MYCOMPANY      COFFEE DIST    R 000000000000005 / /PI 04-30-11 07:59
SWEET TEA                    R 000000001      / /PI 04-30-11 04:27
TPCOMPANY                    R 000000002      / /PI 04-30-11 05:24
VENDOR-1                     R 000000005      / /PI 04-30-11 08:49
More...

Parameters or command
====>
F1=Help  F3=Exit  F12=Cancel  F15=Sort  F23=More Options  F24=More Keys

```

Figure 7.16 Interchange Status Sorted by Send/Receive Flag



### View the Group Records

After reviewing the statuses of the interchange records in the Audit file, you may want to review the statuses of the group records. Sterling Gentran:Server provides the capability to either view the group records associated with one particular interchange record or view all the group records in the Audit file.

**To select the group records associated with a particular interchange record in the Audit file:**

On the Work with Audit Interchange Status panel (EDIX251-FMT01), type '12' in the Option field next to the interchange record desired and press **Enter**. The Work with Audit Group Status panel (EDIX252-FMT01) displays, as shown below, with the group records logged for the selected interchange.

```

EDIX251          Work with Audit Interchange Status          EDI  04/30/11
FMT01           pgmlib: G3X6PGM      dtalib: G3X6DTA         12:00:00

Position to S/R R Interchange Partner TPC_____ Qual_____

Type option (and Information), press Enter.
  4=Delete 5=View 6=Print EDI 12=Groups 13=Acknowledge 30=Print Audit
                               S              Status      Created
Opt Interchange Partner      Qual R Control #      A/N/C      Date      Time
-----
12. TPCOMPANY                R 000000002    / /PI 04-30-11 05:24
   VENDOR-1                  R 000000005    / /PI 04-30-11 08:49
-----

EDIX252          Work with Audit Group Status              EDI  04/30/11
FMT01           pgmlib: G3X6PGM      dtalib: G3X6DTA         12:00:00

Position to Control #. _____ For TPCOMPANY              R

Type option (and Information), press Enter.
  4=Delete 5=View 6=Print EDI 12=Transactions 13=Acknowledge 14=View Ack
                               Func      Status      Transactions      Created
Par Opt Control #      Grp      A/N/C      Sent/Rec Accepted      Date
===
F1= 000000002      PO      R/ /PI          2          0      04-30-11

                                           Bottom

Parameters or command
===> _____
F1=Help F3=Exit F12=Cancel F15=Sort F23=More Options F24=More Keys
    
```

Figure 7.17 View the group records for a specific interchange

**To view all the group records in the Audit file:**

On the Work with Audit Interchange Status panel (EDIX251-FMT01), type '12' in the Option field on the key entry line and press **Enter**, or select option '3' on the GENAUD menu. The Work with Audit Group Status panel (EDIX252-FMT01) displays, as shown below, with all group records sorted by the Group Partner and the Send/Receive flag.

```

EDIX251          Work with Audit Interchange Status          EDI  04/30/11
FMT01           pgmlib: G3X6PGM      dtalib: G3X6DTA        12:00:00

Position to S/R _ Interchange Partner _____ Qual _____

Type option (and Information), press Enter.
  4=Delete  5=View  6=Print EDI  12=Groups  13=Acknowledge  30=Print Audit
                S                               Status   Created
Opt Interchange Partner      Qual R Control #      A/N/C   Date   Time
12 _____
TPCOMPANY                    R 000000002      / /PI 04-30-11 05:24
VENDOR-1                      R 000000005      / /PI 04-30-11 08:49

EDIX252          Work with Audit Group Status              EDI  04/30/11
FMT01           pgmlib: G3X6PGM      dtalib: G3X6DTA        12:00:00

Position to Group Partner _____ Qual _____ S/R

Type option (and Information), press Enter.
  4=Delete  5=View  6=Print EDI  12=Transactions  13=Acknowledge  14=View Ack
                S                               Func    Status   Created
Par _____
Opt Group Partner      Qual R Control #      Grp    A/N/C   Date
F1= _____
BG-PARTNER             S 000000007      IG     / /    04-30-11
BG-PARTNER             S 000000008      IG     / /SN 04-30-11
BG-PARTNER             S 000000009      IG     / /SN 04-30-11
BG-PARTNER             S 000000011      IG     / /Q   04-30-11
BG-PARTNER             S 000000012      IG     / /Q   04-30-11
COFFEE DIST           R 000000000000005  / /    04-30-11
COFFEE DIST           R 000000000000006  / /    04-30-11
COFFEE DIST           S 000000000000001  / /    04-30-11
COFFEE DIST           S 000000000000009  / /    04-30-11
More...

Parameters or command
===> _____
F1=Help  F3=Exit  F12=Cancel  F15=Sort  F23=More Options  F24=More Keys

```

Figure 7.18 View all group records

As with the interchange level records in the Audit file, Sterling Gentran:Server provides several sort options for the group level entries. These sort options are slightly different than those available for the interchange records.

The default sort order for the Audit file at the group level is set initially to 'Group Partner, Qualifier, Send/Receive Flag.' You can override the default sort order through an option on the System Configuration menu, Set Audit Group Sort Option. (SEE the "System Considerations" chapter in this guide for more information about working with system configuration options.)

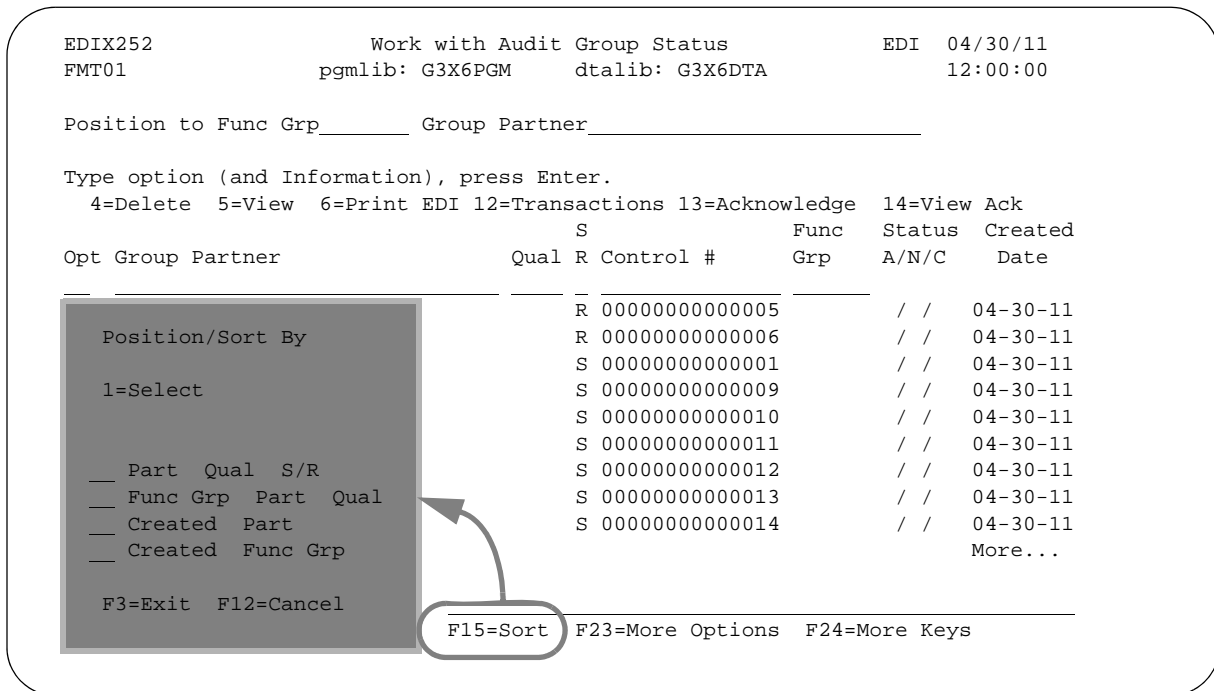
You can access the data in a different order by using other sort options available at the group level:

- Part (Group Partner); Qual (Qualifier); S/R (Send/Receive Code)
- Func Grp (Functional Group); Part (Group Partner); Qual (Qualifier)
- Created (Creation Date); Part (Group Partner)
- Created (Creation Date); Func Grp (Functional Group)

 **NOTE**

These sort options are only valid when all the group records are displayed.

The following figure shows the selection of the Group Status sort window.



```

EDIX252                Work with Audit Group Status                EDI  04/30/11
FMT01                  pgmlib: G3X6PGM      dtalib: G3X6DTA        12:00:00

Position to Func Grp_____ Group Partner_____

Type option (and Information), press Enter.
  4=Delete  5=View  6=Print EDI 12=Transactions 13=Acknowledge 14=View Ack

Opt Group Partner          Qual R Control #      Func  Status  Created
                               Grp   A/N/C   Date
-----
R 0000000000000005      / /  04-30-11
R 0000000000000006      / /  04-30-11
S 0000000000000001      / /  04-30-11
S 0000000000000009      / /  04-30-11
S 0000000000000010      / /  04-30-11
S 0000000000000011      / /  04-30-11
S 0000000000000012      / /  04-30-11
S 0000000000000013      / /  04-30-11
S 0000000000000014      / /  04-30-11
More...

Position/Sort By
1=Select
___ Part Qual S/R
___ Func Grp Part Qual
___ Created Part
___ Created Func Grp

F3=Exit  F12=Cancel
F15=Sort  F23=More Options  F24=More Keys
    
```

Figure 7.19 Group Status Sort Options

To select a Sort option for the group records in the Audit file:

- Press **F15** (Sort).
- Type '1' in the Option field next to the desired sort option and press **Enter**.

The panel display returns with the group records sorted by the selected option.

 **NOTE**

You can change the default sort option for this panel. (SEE the topic “System Configuration File” in Chapter 5, “System Considerations” for more information.)

## View the Transaction Records

After reviewing the statuses of the group records in the Audit file, you may want to review the statuses of the transaction records. As with the group records, Sterling Gentran:Server provides the capability to either view the transaction records associated with one particular group record in the Audit file or view *all* the transaction records in the Audit file.

**To select the transaction records associated with a particular group record in the Audit file:**

On the Work with Audit Group Status panel (EDIX252-FMT01), type '12' in the Option field next to the selected group record and press **Enter**.

```

EDIX252          Work with Audit Group Status          EDI  04/30/11
FMT01          pgmlib: G3X6PGM      dtalib: G3X6DTA      12:00:00

Position to Group Partner _____ Qual ____ S/R __

Type option (and Information), press Enter.
  4=Delete  5=View  6=Print EDI 12=Transactions 13=Acknowledge 14=View Ack

Opt Group Partner          Qual R Control #          Func Status Created
-----
MYCOMPANY  TPCOMPANY      S 000000022      IN  / /  04-30-11
MYCOMPANY  TPCOMPANY      S 000000023      IN  / /  04-30-11
STERLING SEW  VENDOR-1      S 000000026      FA  / /  04-30-11
12 SWEET TEA          R 000000001      PO  E/ /PI 04-30-11
-----

EDIX253          Work with Audit Transaction Status          EDI  04/30/11
FMT01          pgmlib: G3X6PGM      dtalib: G3X6DTA      12:00:00

Position to Control #. _____ For SWEET TEA          R

Pa Type option (and Information), press Enter.
==  4=Delete  5=View  6=Print EDI 13=Acknowledge 14=View Ack 30=Print Audit
Fl Status Created

Opt Control #          Tran ID Doc Info          Count A/N/C          Date
-----
000001          850    01120001          157 E/ /PI  04-30-11
0001          850    01120001          157 A/ /PI  04-30-11
0002          850    01120030          127 E/ /PI  04-30-11

Parameters or commands
====>
F1=Help  F3=Exit  F6=Fold/Unfold  F12=Cancel  F15=Sort  F24=More Keys
  
```

Viewing the Transaction records for a specific group also shows the Doc Info field.

Figure 7.20 View transaction records for a specific group

The Doc Info field contains the actual data from the transaction that identifies the document reference number. In this case, the purchase order number is shown. Press **F1** (Help) on this field for additional information.

**To view all the transaction records in the Audit file:**

On the Work with Audit Group Status panel (EDIX252-FMT01), type '12' in the Option field on the key entry line and press **Enter** or select option '4' on the GENAUD menu.

```

EDIX252          Work with Audit Group Status          EDI  04/30/11
FMT01           pgmlib: G3X6PGM      dtalib: G3X6DTA      12:00:00

Position to Group Partner _____ Qual____ S/R _

Type option (and Information), press Enter.
  4=Delete 5=View 6=Print EDI 12=Transactions 13=Acknowledge 14=View Ack
                               S              Func  Status Created
Opt Group Partner            Qual R Control #    Grp  A/N/C   Date
12
--- MYCOMPANY      TPCOMPANY          S 000000022    IN   / /   04-30-11
--- MYCOMPANY      TPCOMPANY          S 000000023    IN   / /   04-30-11
--- STERLING SFW   VENDOR-1          S 000000026    FA   / /   04-30-11
--- SWEET TEA      R 000000001        PO   E/ /PI 04-30-11
---
--- EDIX253          Work with Audit Transaction Status          EDI  04/30/11
FMT01           pgmlib: G3X6PGM      dtalib: G3X6DTA      12:00:00

Position to Group Partner _____ Qual____ S/R _

Type option (and Information), press Enter.
  4=Delete 5=View 6=Print EDI 13=Acknowledge 14=View Ack 30=Print Audit
                               S Tran          Tran  Status Created
Opt Group Partner            Qual R Control #    ID   A/N/C   Date
---
--- BG-PARTNER      S 000000007          880   / /   04-30-11
--- BG-PARTNER      S 000000008          880   / /SN 04-30-11
--- BG-PARTNER      S 000000009          880   / /SN 04-30-11
--- BG-PARTNER      S 000000011          880   / /Q  04-30-11
--- BG-PARTNER      S 000000012          880   / /Q  04-30-11
--- COFFEE DIST     R 000000000000005  ORDERS A/ /PI 04-30-11
--- COFFEE DIST     R 000000000000006  ORDERS / /PI 04-30-11
--- COFFEE DIST     S 000000000000001  CONTRL / /Q  04-30-11
More...

Parameters or command
===>
F1=Help F3=Exit F6=Fold/Unfold F12=Cancel F15=Sort F24=More Keys
    
```

Figure 7.21 View all transaction records

There are no more levels for which to review statuses. To return to the Work with Audit Interchange panel (EDIX251-FMT01), press either **F12** (Cancel) or **F3** (Exit) twice, and then continue with the instructions in the next section.

## View EDI Data, Segment and Data Element Definitions

There are times, especially when you are debugging an EDI application, when you may want to examine the actual contents of the EDI transactions which you are exchanging with your trading partners. Sterling Gentran:Server provides several options for examining the contents of these transactions at the interchange, group, and transaction level.

In this section you will learn how to view the contents of the interchange level data records, view individual segment information and view data element definitions.

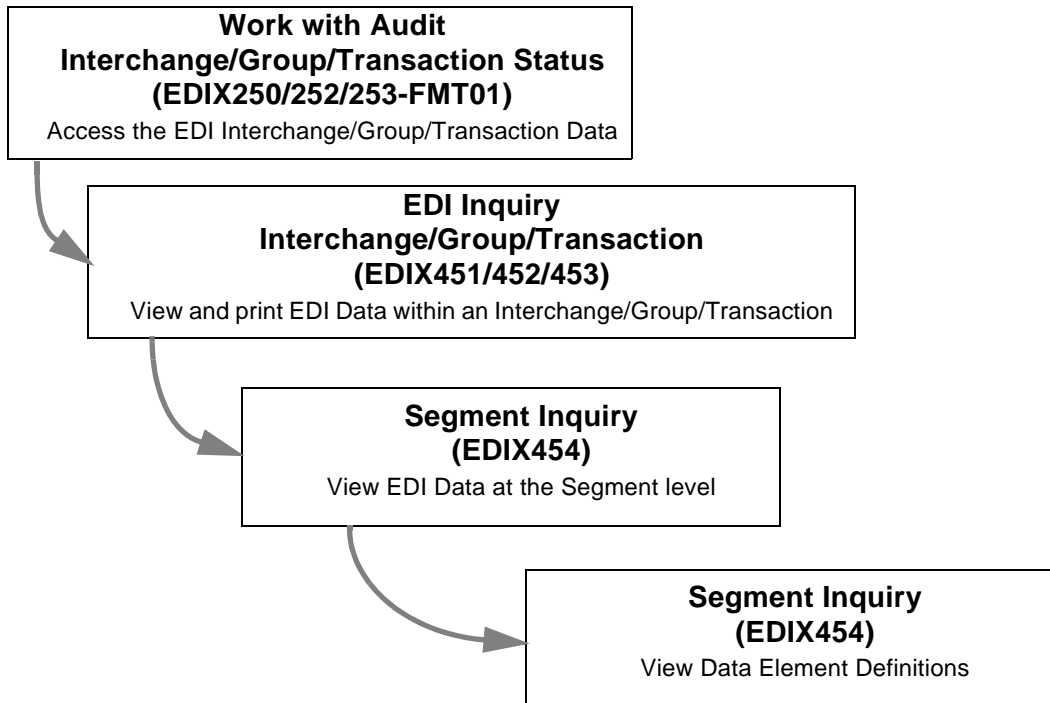


Figure 7.22 Panels for viewing EDI data, segment and data element definitions



### NOTE

The procedures for examining the data contents of your EDI transmissions are similar for interchange, group, and transaction level audit records. Only procedures for examining the interchange level records are described here.



### RECOMMENDATION

You can only view the data contents of EDI transactions which are currently in the inbound and outbound queues. Once you delete entries from the queues, this data is not available for review through the Audit panels. Implement an EDI Auditing Plan that coordinates the management of the inbound and outbound queues with your Auditing procedures.

### Access the EDI Data

The procedure for accessing EDI data is the same for each of the Work with Audit Status panels: Work with Audit Interchange Status (EDIX251-FMT01), Work with Audit Group Status (EDIX252-FMT01), and Work with Audit Transaction Status (EDIX253-FMT01).

To select the data records associated with a particular interchange, group, or transaction:

On any of the three panels listed above, type '5' in the Option field next to the selected entry and press **Enter**. The following figure illustrates selecting an interchange from the Work with Audit Interchange Status panel (EDIX251-FMT01)

```

EDIX251          Work with Audit Interchange Status          EDI  04/30/11
FMT01           pgmlib: G3X6PGM      dtalib: G3X6DTA        12:00:00

Position to Partner _____ Qual ____ Created _____

Type option (and Information), press Enter.
  4=Delete  5=View  6=Print EDI  12=Groups  13=Acknowledge  30=Print Audit
                S                               Status      Created
Opt Interchange Partner      Qual R Control #      A/N/C      Date      Time
-----
___ TPCOMPANY                S 000000052      / /Q  04-30-11 09:54
___ TPCOMPANY                S 000000051      / /Q  04-30-11 13:41
 5 TPCOMPANY                S 000000050      / /Q  04-30-11 12:04
___ TPCOMPANY                S 000000049      / /   04-30-11 12:00
___ TPCOMPANY                S 000000047      / /Q  04-30-11 15:25
___ TPCOMPANY                S 000000048      / /Q  04-30-11 15:25
___ TPCOMPANY                R 000000002      / /PI 04-30-11 15:24
___ TPCOMPANY                S 000000029      / /   04-30-11 16:31
___ VENDOR-1                 S 000000044      / /Q  04-30-11 14:17
                                     More...

Parameters or command
===> _____
F1=Help  F3=Exit  F12=Cancel  F15=Sort  F23=More Options  F24=More Keys
    
```

Figure 7.23 Select an interchange for which to display EDI data

## View and Print EDI Data within an Interchange/Group/Transaction

The EDI Interchange Inquiry panel (EDIX451), Group Inquiry panel (EDIX452), and Transaction Inquiry panel (EDIX453) allow you to view the actual EDI data as it displays on the inbound and outbound queues.

The Interchange Inquiry panel (EDIX451) is shown below with the data for the selected interchange. The top portion of the panel provides general interchange information about the interchange and is an extension of the Audit information. The bottom portion displays up to 10 lines of EDI data in a formatted display by segment. When a segment is longer than 80 bytes, the data wraps to the next line.



### NOTE

Although the EDI data displays in an unwrapped format, it is still wrapped in the actual file on the queues.

```

EDIX451                      EDI Interchange Inquiry                      EDI          04/30/11
                                                                12:00:00

Interchange ID. . . . . TPCOMPANY
Interchange Name. . . . Trading Partner Example Company      S/R.   S
Interchange Cntl# . . . . 000000050      Batch/Prof Seq# . . . . 200 /   161
Number of Groups. . . . 000001          Ack Date/Time . . . .
Qual. . . . .                Overdue Ack Date/Time
Acknowledge Stat. . . .          Char. Count . . . . . 00000000765
Batch ID. . . . .

ISA*00*                *00*                *01*MYDUNS          *ZZ*TPCOMPANY      *000323*
1204*U*00400*000000050*0*T*?>
GS*IN*MYDUNS*TPDUNS*20000323*1204*40*X*004010?
ST*810*000000063?
BIG*19980801*INV444*19990728*PO444***CA?
NTE*GEN*THIS IS AN INVOICE MESSAGE: THANK YOU FOR PAYING?
NTE*GEN*..... SO PROMPTLY ...?
N1*RE?
N1*RE?
PID*F****LEGAL ENVELOPES?

More...
Enter=Segment  F1=Help  F11=More Inq  F12=Cancel  F21=Prt Dta  F22=Requeue
  
```

Figure 7.24 EDI Interchange Inquiry panel (EDIX451)

To examine the contents of a segment on EDIX451, EDIX452, or EDIX453, position the cursor anywhere on the segment you want to view and press **Enter**. In Figure 7.24, the cursor is positioned on the BIG segment.

To print the EDI data, press **F21** (Prt Dta). The system displays the Print EDI Data (PRTEDIDTA) command panel. Press **F1** (Help) for additional help.



### NOTE

A 'BIN' segment occurs when the binary data stream in BIN02/BDS03 element will not be displayed or printed. Instead, the element displays or prints with '\*\*\*\*\*BINARY DATA HERE\*\*\*\*\*'.

The segment information that displays on EDIX451, EDIX452, and EDIX453 is compressed and may be difficult to read at times. Sterling Gentrans:Server provides the capability to view the data elements which comprise a segment in a formatted view.



## View EDI Data at the Segment Level

The Segment Inquiry panel (EDIX454), as shown in the following figure, displays the selected segment in a formatted view. The data elements and their EDI standard definitions are displayed in sequential order with the actual EDI data contained in the element (only the first 31 bytes are shown).

```

EDIX454                      Segment Inquiry                      EDI      04/30/11
                                                                12:00:00

Segment ID. . . . BIG      Transaction Code: 810
Version ID. . . . 004010

Type option, press Enter.
1=Select 2=View Codes
A  Seq  Ele  Description                      Element Data
-  01  00  DATE                          20060228
-  02  00  INVOICE NUMBER                  TNV123
1  03  00  DATE                          20060225
-  04  00  PURCHASE ORDER NUMBER          PO123
-  07  00  TRANSACTION TYPE CODE          CA

F1=Help  F12=Cancel

Bottom

```

Figure 7.25 Segment Inquiry panel (EDIX454)

To view additional information about a data element, type '1' in the Option field next to the selected element, and press **Enter**.

### NOTE

Only the elements in the selected segment which contain EDI data are shown on this panel. There may be additional elements defined for the segment that were omitted from transmission.

## View Data Element Definitions

After you view the EDI segments and the data elements, you may want more information about the data definitions for individual data elements. The Data Element Definition panel (EDIX455), as shown below, provides expanded information about individual data elements including element type, minimum and maximum length, and description. This information is retrieved from the EDI Standards file.

EDIX455	Data Element Definition	EDI	04/30/11 12:00:00
Version ID. . . . .	004010		
Data Element ID . . . . .	373		
Description . . . . .	INVOICE DATE		
Element Type. . . . .	DT		
Minimum Length. . . . .	08		
Maximum Length. . . . .	008		
Cobol Name. . . . .	DATE		
Composite Code Definition . . . .			
F1=Help F12=Cancel			

Figure 7.26 Data Element Definition panel (EDIX455)

### NOTE

The procedures for viewing the contents of EDI data for a group or transaction are the same as those for the interchange. The data associated with group and transaction level Audit file records is accessed from the EDI Group Inquiry panel (EDIX452) and EDI Transaction Inquiry panel (EDIX453) respectively, by following the same procedures as described here.

## Viewing Data Element Code Definitions

After you view the EDI segments and the data elements, you may want to view element code definitions for a version ID. To view information about a data element code, type '2' in the Option field next to the selected element (as shown below) and press **Enter**.

```

EDIX454                      Segment Inquiry                      EDI      04/30/11
                                                12:00:00

Segment ID. . . . BIG   Transaction Code:  810
Version ID. . . . 004010

Type option, press Enter.
  1=Select  2=View Codes
A  Seq  Ele  Description                      Element Data
-   01  00  DATE                          20060228
-   02  00  INVOICE NUMBER                INV123
-   03  00  DATE                          20060225
-   04  00  PURCHASE ORDER NUMBER        PO123
2  07  00  TRANSACTION TYPE CODE          CA

F1=Help  F12=Cancel

Bottom

```

Figure 7.27 Segment Inquiry panel (EDIX454)



### NOTE

The Data Element Type must be "ID" to use this option.

The Data Element Code Definition panel (EDIX456), as shown below, enables you to view the definition for the description code values for the individual data elements. The Data Element Type must be "ID" to access this panel.

```

EDIX456          Data Element Code Definition          EDI      04/30/11
CTL01                                12:00:00

Version ID . . . . . 004010
Data Element ID. . . . . 0640

Minimum Length . . . . . 2
Maximum Length . . . . . 2
Element Data . . . . . CA

Position to Code . . . . . _____

Composite/
Code      Description
-- AA --- DUE TO ANALYSIS
-- AB --- ADVANCE SHIPMENT AND BILLING NOTICE
-- AC --- REQUISITION CANCELLATION
-- AD --- NOTICE OF AVAILABILITY
-- AE --- DUE TO RECONCILIATION (FULL)
-- AF --- REQUISITION FOLLOW-UP
-- AG --- DUE TO RECONCILIATION (PARTIAL)

More...
F1=Help  F4=Prompt  F5=Refresh  F12=Cancel

```

Figure 7.28 Segment Inquiry panel (EDIX454)

This is the last level at which you can view EDI data. Press **F12** (Cancel) repeatedly until you return to the Work with Audit Interchange panel (EDIX251-FMT01).

## Modify the Status of Audit File Records

In this section, you will learn how to manually acknowledge and delete records.

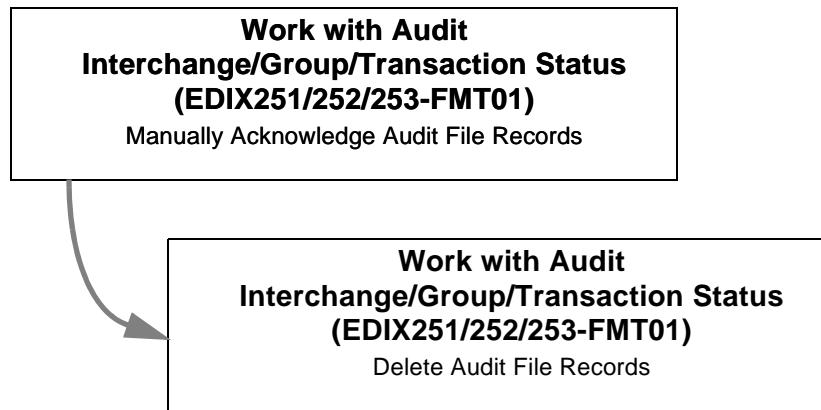


Figure 7.29 Steps for Modifying the Status of Audit File Records

The information in the Audit file can be significantly more useful to you and the System Administrator if together you implement a plan to “clean” the Audit file on a regular basis. Records remain in the Audit file until they are removed by one of the Purge commands (which may be used to purge the records to tape or a save file, or they can be manually deleted). Both of these steps are generally performed by the System Administrator or EDI Coordinator.

Occasionally, acknowledgments are not sent from your partners or may not get reconciled with the original transaction. When this occurs, it is typically the role of the sender to call and confirm that the documents have been successfully received. If this is true, then the transmission or record can be manually acknowledged rather than requiring that the partner resend the acknowledgment.

The delete function is typically used to immediately remove data from the Audit file in an ad-hoc manner. This might occur if you were performing testing tasks and wanted to quickly remove the data you added for the test. In another scenario, you might need to reprocess data due to suspension yet you don’t want to get a duplicate error for data already in the Audit file.

To prepare for the purge, and any subsequent running of Audit file reports, you should examine the contents of the Audit file and then, as needed, either delete records or manually acknowledge them. When the purge occurs, data is purged based on the parameters selected on the Purge Audit File (PRGAUD) command. Record deletion, in contrast, occurs at the time when the deletion options are entered. Deleting records from the Audit file does not require that the Purge Audit File (PRGAUD) command be run. It is recommended, however, that you reorganize the file immediately afterward in order to reclaim file space.

Both the manual acknowledgment and the record deletion processes follow a hierarchical structure for marking records. When an Audit file record on the interchange level is deleted, for example, all the group records and transaction records associated with it are also deleted. (This saves you the time and effort of individually deleting each of these records.) As a second example, if a group record is manually acknowledged, all the transaction records associated with it are also marked as manually acknowledged. The interchange level record however, which is “above” it, is not acknowledged. You must repeat the process to manually acknowledge the associated interchange level record.

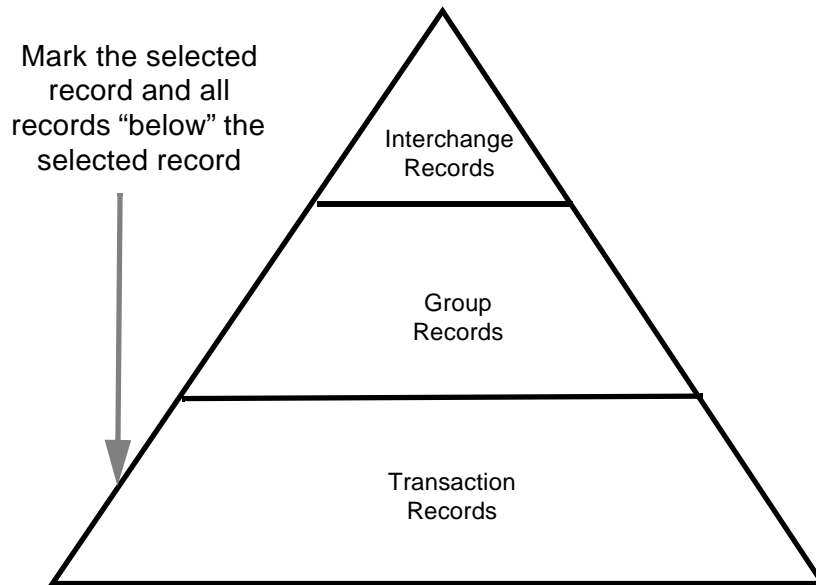


Figure 7.30 The hierarchy for manually acknowledging and deleting the records in the Audit file

 **NOTE**

Keep in mind that when you manually mark a record as “acknowledged,” you are NOT transmitting an acknowledgment. You are merely changing the status of the record on the Audit file.

## Manually Acknowledge Audit File Records

Before beginning to use the manual acknowledgment feature of the Sterling Gentran:Server system, you should have a clear understanding of the procedures which your EDI Coordinator has put in place regarding the review of the Audit file.

For instance, your EDI Coordinator may want you to review the Audit file on a daily basis. There may be instructions that you must follow concerning manual acknowledgments and/or deletions. For example, you may be instructed to first verify with a trading partner (via telephone or fax) who has not acknowledged a transmission you have sent, before you manually mark the record's status as acknowledged. These confirmations may be based on a specified acknowledgment schedule that you and your trading partner have previously agreed to (for example, acknowledgments sent within 12 hours.)



### CAUTION

The system logs all EDI documents to and from your trading partners in the Audit file if the Audit feature in the global parameters is activated. This file will grow on a daily basis and can become quite large if not regularly maintained.

There are five types of acknowledgment status codes that you may see in the Audit file:

Acknowledgment Code	Description
A	Trading partner acknowledged (accepted with no errors)
E	Trading partner acknowledged (accepted with errors)
R	Trading partner rejected
P	Group partially acknowledged
U	User acknowledged (manually marked as acknowledged)

Figure 7.31 Audit file acknowledgment codes

The acknowledgment procedure is the same for each of the Work with Audit Status panels: Work with Audit Interchange Status (EDIX251-FMT01), Work with Audit Group Status (EDIX252-FMT01), and Work with Audit Transaction Status (EDIX253-FMT01).

To manually acknowledge an entry on any of the three panels listed above, type '13' in the Option field next to the entry to be manually acknowledged and press **Enter**.

The following figure illustrates the result of manually acknowledging a group level record. Note that an acknowledgment code of 'U' is now shown in the record.

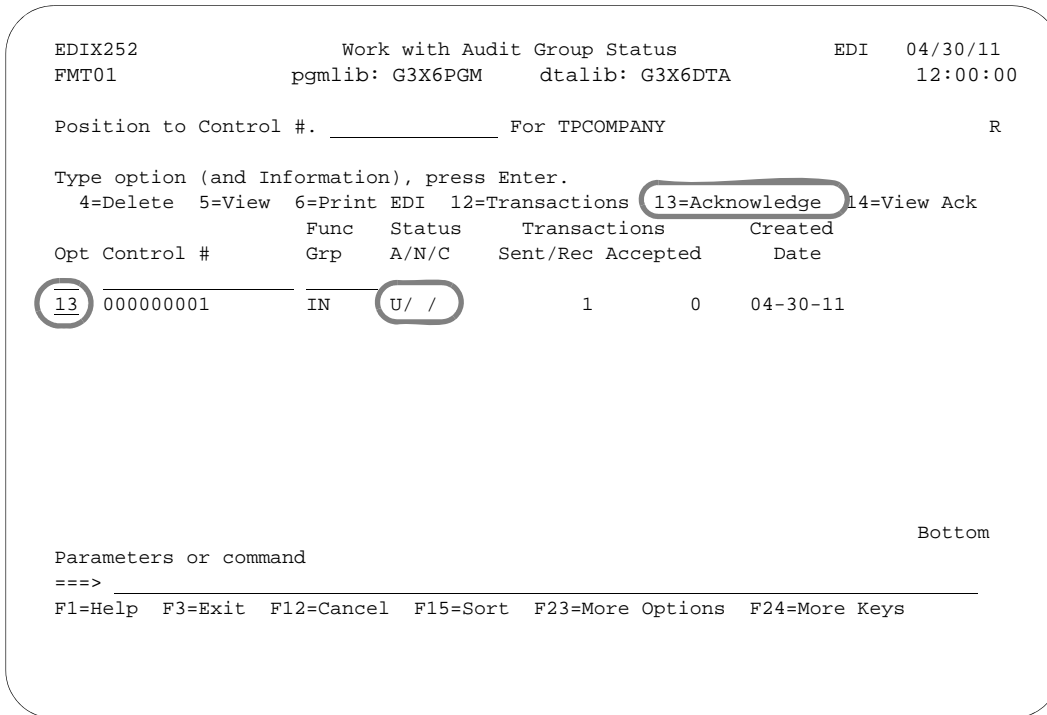


Figure 7.32 Manually acknowledge a group level record in the Audit file

To verify the transaction records associated with the group are also acknowledged:

On the Work with Audit Group Status panel (EDIX252), type '12' in the Option field next to the group record which has just been manually acknowledged, and press **Enter**. The transaction records associated with the group record are displayed.



The following figure shows the transaction level record in the Audit file which was automatically acknowledged when the group level record was manually acknowledged.

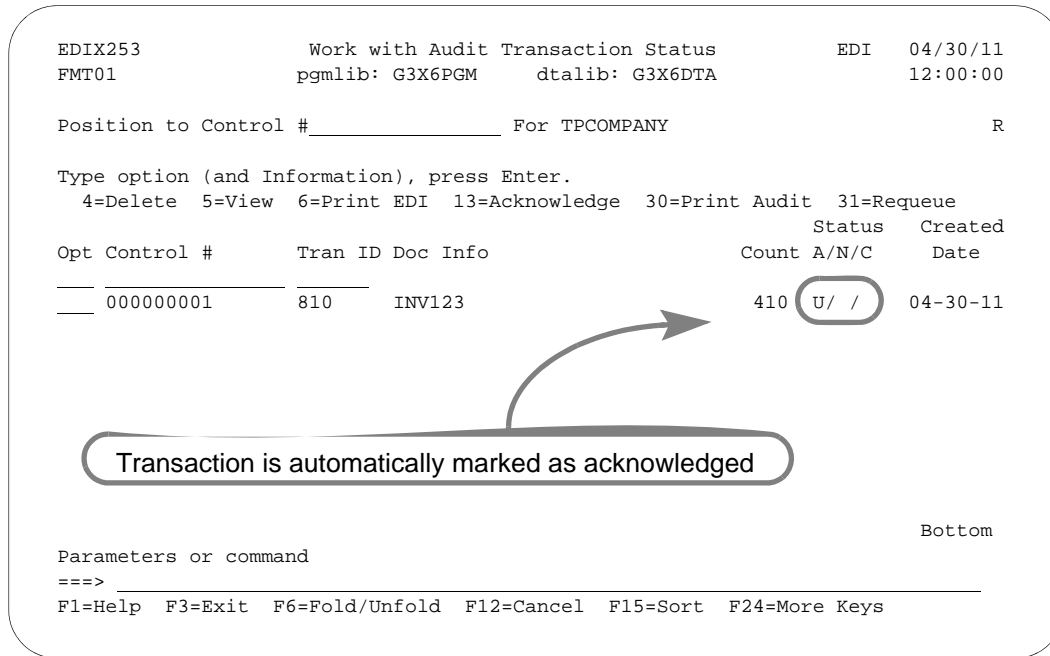


Figure 7.33 Manually acknowledging a group level record in the Audit file automatically acknowledges its associated transaction records

**NOTE** The procedures for manually acknowledging your EDI transmissions are the same for interchange, group, and transaction level Audit records. Only the procedures for modifying the group level records have been described here.

### Delete Records From the Audit file

You may delete any record in the Audit file at any time if you have the proper authority. Prior to deleting records however, it is important that you have a clear understanding of your organization’s procedures for managing the Audit file. Deletions cannot be reversed. Care should be taken whenever the delete option is used.

The same hierarchical “rules” which applied to manually acknowledging audit file records, also apply to the deletion process. That is, if you delete a group level record in the Audit file, all of its associated transaction level records are also deleted. The interchange level, which is at a “higher” level is not deleted.

**NOTE** This step begins from any of the Work with Audit Status panels: EDIX251-FMT01, EDIX252-FMT01, or EDIX253-FMT01. The deletion procedure is the same for all panels.

To delete an entry from any Audit Inquiry panel:

- Type '4' in the Option field next to the entry that you want to delete and press **Enter**.
- A second panel displays, showing the entry or entries to be deleted. Press **Enter** to confirm the deletion for all selected entries.

When interchange records are deleted, the corresponding network status record, if any, is deleted.

The following figure shows the deletion of an outbound interchange. Here, we want to delete the entry so reprocessing does not result in an error due to a duplicate entry in the Audit file.

```

EDIX251          Work with Audit Interchange Status          EDI  04/30/11
FMT01           pgmlib: G3X6PGM      dtalib: G3X6DTA          12:00:00

Position to Partner _____ Qual _____ Created _____

Type option (and Information), press Enter.
4=Delete 5=View 6=Print EDI 12=Groups 13=Acknowledge 30=Print Audit
                                     S              Status   Created
Opt Interchange Partner           Qual R Control #      A/N/C   Date   Time
-----
___ C13579                        S 000000064      //Q    04-30-11 16:56
___ C13579                        S 000000062      //Q    04-30-11 15:08
4  C13579                        S 000000062      //SN   04-30-11 09:48
___ INSPARTNER                    S 00000000000087 //Q    04-30-11 16:01
___ MYCOMPANY      BG-PARTNER      S 00006          //    04-30-11 16:02
___ MYCOMPANY      BG-PARTNER      S 00005          //    04-30-11 15:57
___ MYCOMPANY      COFFEE DIST    R 00000000000005 //PI   04-30-11 07:59
___ MYCOMPANY      TPCOMPANY      S 000000028      //    04-30-11 16:02
___ MYCOMPANY      TPCOMPANY      S 000000027      //    04-30-11 15:57
                                     More...

Parameters or command
====> _____
F1=Help F3=Exit F12=Cancel F15=Sort F23=More Options F24=More Keys
    
```

Figure 7.34 Delete the interchange level records in the Audit file

 **NOTE**

Deleting records from the Audit file has no effect on the actual EDI records in the inbound and outbound queues. Audit file records are only logged entries of data that has been processed.

## View the Corresponding Acknowledgement

The Sterling Gentran:Server system provides you with the ability to view the corresponding acknowledgement without leaving the original document, provided there is one. You can view the acknowledgement by selecting option 14 from the Work with Group and Transaction panels.

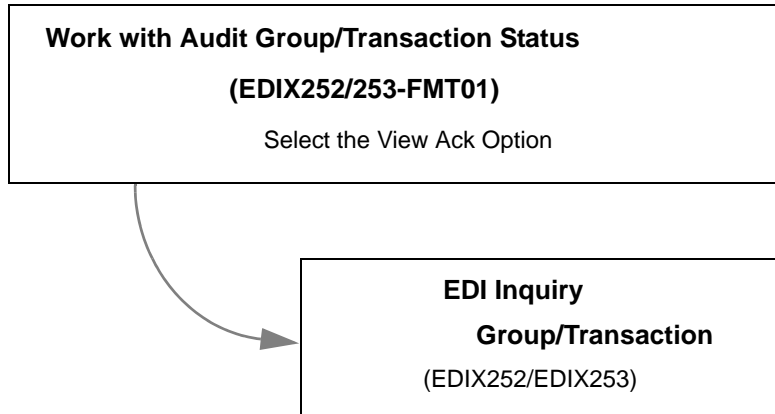


Figure 7.35 Steps for Viewing a Corresponding Acknowledgement



### NOTE

The procedures for examining the acknowledgment data are similar for the group and transaction level audit records. Only procedures for examining the group level records are described.

### Viewing the Corresponding Acknowledgment EDI Data

The procedure for accessing the view for acknowledgment EDI data is the same for each of the Work with Audit Transaction Status (EDIX253-FMT01).

To select the acknowledgment data records associated with a document, type '14' in the Option field next to the selected entry and press **Enter**. The following figure illustrates selecting a Group record from the Work with Audit Group Status panel (EDIX251-FMT01).

```

EDIX252                Work with Audit Group Status                EDI  04/30/11
FMT01                  pgmlib: G3X6PGM          dtalib: G3X6DTA          12:00:00

Position to Control #. _____ For TPCOMPANY                      R

Type option (and Information), press Enter.
  4=Delete  5=View  6=Print EDI  12=Transactions  13=Acknowledge  14=View Ack

Opt Control #      Func  Status  Transactions  Created
                  Grp   A/N/C   Sent/Rec     Accepted    Date
14 100000367      IN     A/ /Q         1          0    04-30-11

Parameters or command
====> _____
F1=Help  F3=Exit  F12=Cancel  F15=Sort  F23=More Options  F24=More Keys

Bottom

```



## Print the Audit File Report

The Sterling Gentran:Server system provides you with the ability to print a report containing the Audit file information. You can select the information to be printed by using the print options.

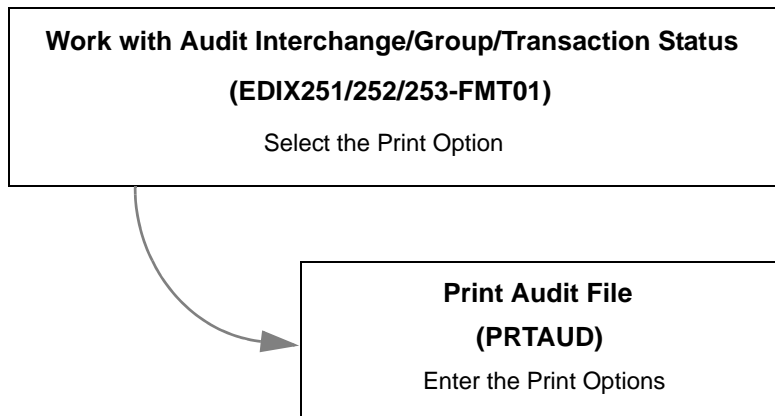


Figure 7.36 Steps for Printing the Audit File Report

The selection criteria available are:

- Standard or Network Report
- Summary or Detail Report
- Select Documents to Print
- Reported Status
- Acknowledgment Status
- Network Status
- Partner ID
- Partner Qual

You can combine the print selection criteria with an “age” parameter. The “age” parameter will reduce the selection of Audit records that are printed. You may select to search for records using:

- Current Date
- Date Range
- Number of hours before current hour
- Days old range

 **NOTE**

The Print Audit File command can be used in conjunction with the Audit File Purge command. When you print a record using the print command, a flag is set for that record in the Audit file. The flag signals the system that the record has been printed. This flag can then be used as a selection criterion to delete the record using the Audit File Purge command.

 **NOTE**

“EBDI008 – Audit File Report” on page 7-93 for a detailed description of the contents of the Audit File Report (EBDI008).

## Select the Print Option

The Print option can be accessed from the GENAUD menu, the Work with Audit Interchange Status panel (EDIX251), the Work with Audit Group Status panel (EDIX252), or the Work with Audit Transaction Status panel (EDIX253). The report includes the same information regardless of which panel it is initiated from.

- On the GENAUD menu, type option '5' on the command line and press **Enter**.
- On the Work with panels, type '30' in the Option field on the key entry line or beside any entry displayed on the panel, and press **Enter**. If specified beside a partner, it will be preloaded into the PRTAUD command.

The following figure illustrates the selection of the Print Audit File (PRTAUD) command from the GENAUD menu.

```
GENAUD                      Sterling Gentran:Server Audit 3.6
                               System:  ISDDEV01

Select one of the following:

  1. Audit Search Utility              (SLTAUD)
  2. Work with Audit Interchange Status
  3. Work with Audit Group Status
  4. Work with Audit Transaction Status
  5. Print Audit Report                 (PRTAUD)
  6. Print Network Status Report       (PRTNETSTS)
  7. Print Overdue Acknowledgments     (PRTOVRACK)

 10. Purge Audit File                  (PRGAUD)
 11. Purge Audit using Partner File Options (AUDITPURGE)
 12. Purge Network Status File         (PRGNET)

 15. Retrieve Audit File               (RTVAUD)
 16. Retrieve Network Status File      (RTVNET)

More...

Selection or command
====> 5

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F13=User Support
```

Figure 7.37 Select the Report option from the GENAUD Menu

### Enter the Print Options

Sterling Gentran:Server provides several selection options which allow you to selectively print all or some of the entries in the Audit file. The system builds the selection criteria based on the combined values entered in the fields on the Print Audit File (PRTAUD) panel.

```

Print Audit File (PRTAUD)

Type choices, press Enter.

Standard or Network Report . . . . *STD          *STD, *NET
Select Documents to Print . . . . *ALL          *ALL, *SENT, *RECD
Type of Report . . . . . *ALL          *ALL, *SUM, *DTL
Reported Status . . . . . *ALL          *ALL, *NOTRPT
Acknowledgement Status . . . . . *ALL          *ALL, *ACK, *UNACK, *REJ
Age Selection Type . . . . . *ALL          *DATE, *DAYS, *HOURS, *ALL
Partner Id (*ALL, generic*) . . . *ALL
-----
Partner Qual . . . . . *ALL          *ALL, generic*, qualifier
Division . . . . . *ALL          *ALL, Character value
Network Status . . . . . *ALL          *ALL, E, P, R, S

Additional Parameters

Run Interactively? . . . . . *NO          *YES, *NO
Schedule Job ? . . . . . *NO          *YES, *NO

Bottom
F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display
F24=More keys
    
```

Figure 7.38 Print Audit File (PRTAUD) Command

To run the Print Audit File (PRTAUD) command, specify the selection criteria and press **Enter**.

### Parameter Definitions for the Print Audit File (PRTAUD) Command

#### **Standard or Network Report**

This is a 4-position alphabetic field used to define the type of report. The Network Report is for the INS-Tradanet Network only. Valid values for this field are:

- \*STD      Print the Standard report
- \*NET      Print the Network report for the INS-Tradanet Network



**Select Documents to Print**

A 5-position alphabetic field used to define the type of document for which you want to print audit records. If you select to print audit records for all document types, use the default value “\*ALL” in this field. Valid values for this field are:

- \*ALL      Print audit records for sent and received documents
- \*SENT     Print audit records for documents sent by you
- \*RECD     Print audit records for documents received from your partners

**Type of Report**

A 4-position alphabetic field used to designate the type of report to be printed. This parameter is only valid when the \*STD report option is selected. The default is \*ALL. Valid values for this field are:

- \*ALL      Prints the detail and summary information
- \*DTL      Prints the detail type of report
- \*SUM      Prints the summary type of report

**Reported Status**

A 7-position alphabetic field used to define the reported status of documents for which you want to print audit records.

**NOTE**

---

This parameter can be useful for tracking the total of all documents processed. For example, if you ran the Audit Report on a daily basis with the \*NOTRPT value, then you could identify the total number of interchanges, groups, and transactions that were sent/received that day.

---

Valid values for this field are:

- \*ALL              Print both reported and non-reported audit records
- \*NOTRPT         Print only those audit records that have not yet been reported

**Acknowledgment Status**

A 6-position field used to select the acknowledgment status of documents for which you want to print audit records.

Valid values for this field are:

- \*ALL              Print Audit records regardless of the acknowledgment status
- \*ACK             Print Audit records with an acknowledged status only
- \*UNACK         Print Audit records with an unacknowledged status only
- \*REJ             Print Audit records that have been acknowledged but were rejected (status code='R').

**Age Selection Type**

A 6-position alphabetic field used to define an “age” record selection criteria (used in conjunction with any other document or acknowledgment status criteria) for which you want to print Audit records. After selecting one of the following valid values, the system displays a prompt line with an 8-position entry field enabling you to further define your selection. Valid values for this field are:

- \*DATE            Enables you to specify audit records for a specific date, date range, or for the current date. Only records within the specified date range are printed.
- \*DAYS            You can specify the number of days before the current date. Only records within the specified number of days old are printed. Values are 0 – 999. For example, if you entered from ‘0’ to ‘3,’ records from 0-3 days old would be printed.
- \*HOURS           You can specify the number of hours before the current hour. Records older than the given number of hours are printed. Values are 0 – 24.
- \*ALL             All records are included.

If you enter a value of “\*DATE” or “\*DAYS” in the Age Selection Type field, and press **Enter**, the system displays the following prompt lines:

```
From #, *CURRENT, or Date . . . _____
To #, *CURRENT, or Date . . . . . _____
```

If you enter a value of “\*HOURS” in the Age Selection Type field and press **ENTER**, the system displays the following prompt line:

```
Number of Hours . . . . . _____
```

**Partner ID**

This is a 30-position alphanumeric field which is used to enter a specific Partner ID as print criteria. You can use generic partner selection by entering a partial Partner ID followed by an asterisk (\*). This prints Audit records for any partners whose ID begins with the partial Partner ID specified.

The default is \*ALL, unless the Print option is used beside a specific entry. If \*ALL is specified, all partners are included in the report.



**NOTE**

Generic Partner selection cannot be used with the ID or Qualifier parameters if there are Partner IDs on the Partner file that contain an asterisk (\*).

**Partner Qual**

This is a 4-position alphanumeric field which is used to enter a specific Partner Qualifier as print criteria. You can use generic partner selection by entering a partial Partner Qualifier followed by an asterisk (\*). This prints Audit records for any partners whose Qualifier begins with the partial Partner Qualifier specified.

The default is \*ALL, unless the Print option is used beside a specific partner. If \*ALL is specified, all Partner Qualifiers are included in the report.

**Network Status**

A 4-position field used to enter a specific network status for print criteria. The network status is associated with interchanges for specific networks, provided the network reports are being received in data format. The default is \*ALL. Valid values for the field are:

*ALL	All network statuses (including blanks)
E	Errors encountered during network processing
P	Partner has picked up the interchange
R	Network has received the interchange
S	Network has processed the interchange

**Division**

A 3-position field used to define the division for which you want to print Audit records. Specify \*ALL to print audit records for all divisions.

**Schedule Job**

This is a 4-position alphabetic field used to designate whether you want to run the Audit file report by scheduling it as a print job. The default value for this field is “\*NO.” If you specify “\*YES,” the system displays the Schedule Job (SCHJOB) command to further define the job run requirements.

**Run Interactively**

This field is accessed by displaying additional parameters using **F10** (Additional Parameters). It allows you to perform the process interactively (immediately). If you select to run the command in an interactive mode, you can monitor system messages that occur during processing. However, if you choose this option, your terminal is locked until the process is complete.

**NOTE**

---

If Run Interactively? is \*NO and Schedule Job? is \*NO, the job is submitted to batch to run immediately.

---

## Print the Overdue Acknowledgment Report

The Sterling Gentran:Server system enables you to print a report containing outbound documents that have not been acknowledged within a specified time frame. You can select the information to be printed by using the print options.

The selection criteria available are:

- Summary or Detail Report
- Reported Status
- Current or Projected Overdue items
- Partner ID
- Partner Qual

(SEE the section "EBDI258 – Overdue Acknowledgment Report" for a detailed description of the contents of the Overdue Acknowledgment Report [EBDI258]). Select the Print Option

Access the Print option from the GENAUD menu or by typing the PRTOVRACK command from any command line.

- On the GENAUD menu, type '7' on the command line and press **Enter**.
- On a command line, type 'PRTOVRACK' and press **F4** to fill in the report parameters.

The following figure illustrates the selection of the Print Overdue Acknowledgments (PRTOVRACK) command from the GENAUD menu.

```

GENAUD                               Sterling Gentran:Server Audit 3.6
                                     System:   ISDDEV01
Select one of the following:

  1. Audit Search Utility              (SLTAUD)
  2. Work with Audit Interchange Status
  3. Work with Audit Group Status
  4. Work with Audit Transaction Status
  5. Print Audit Report                (PRTAUD)
  6. Print Network Status Report       (PRTNETSTS)
  7. Print Overdue Acknowledgments     (PRTOVRACK)
 10. Purge Audit File                  (PRGAUD)
 11. Purge Audit using Partner File Options (AUDITPURGE)
 12. Purge Network Status File         (PRGNET)

 15. Retrieve Audit File               (RTVAUD)
 16. Retrieve Network Status File      (RTVNET)

                                     More...

Selection or command
====> 7
F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F13=User

```

Figure 7.39 Select the Report option from the GENAUD Menu

### Enter the Print Options

Sterling Gentran:Server provides several selection options which enable you to selectively print all or some of the overdue entries in the Audit file. The system builds the selection criteria based on the combined values entered in the fields on the Print Overdue Acknowledgments (PRTOVRACK) panel.

```

Print Overdue Acknowledgments (PRTOVRACK)

Type choices, press Enter.

Type of Report . . . . . _____ *SUM, *DTL
Reported Status . . . . . *ALL *ALL, *NOTRPT
Overdue Selection Type . . . . . *CURRENT *CURRENT, *PROJECTED
Partner Id (*ALL, generic*) . . . *ALL
Partner Qual . . . . . *ALL *ALL, generic*, qualifier
Division . . . . . *ALL *ALL, Character value
Output . . . . . *PRINT *OUTFILE, *PRINT

Bottom
F3=Exit F4=Prompt F5=Refresh F10=Additional parameters F12=Cancel
F13=How to use this display F24=More keys
    
```

Figure 7.40 Print Overdue Acknowledgments (PRTOVRACK) Command

To run the Print Overdue Acknowledgments (PRTOVRACK) command, specify the selection criteria and press **Enter**.

### Parameter Definitions for the Print Overdue Acknowledgments (PRTOVRACK) Command

#### Type of Report

A 4-position alphabetic field used to designate the type of report to be printed. Valid values for this field are:

- \*DTL Prints the detail type of report. This prints the interchange, group and transaction information for every overdue item selected.
- \*SUM Prints the summary type of report. This prints only the interchange information for the overdue items selected.

#### Reported Status

A 7-position alphabetic field used to define the reported status of overdue documents. Valid values for this field are:

- \*ALL Print both reported and non-reported overdue records.
- \*NOTRPT Print only those overdue records that have not yet been reported.

**Overdue Selection Type**

A 10-position field used to determine the cut-off date time for reporting the overdue documents. Valid values for this field are:

- \*CURRENT      Print documents that are overdue based upon the current date and time.
- \*PROJECTED    Print documents that will be overdue based upon a projected date and time. When you select this value, the hours and minutes fields will be prompted. The hours and minutes you enter will be added to the current date and time, giving a projected date/time to select overdue documents. For example, if the current date and time is 09/05/2004 11:45:00 and you enter 24 hours and 30 minutes, the date/time to select overdue documents will be 09/06/2004 12:15:00.

**Partner ID**

A 30-position alphanumeric field used to enter a specific Partner ID as print criteria. You can use generic partner selection by entering a partial Partner ID followed by an asterisk (\*). This prints overdue documents for any partners whose ID begins with the partial Partner ID specified. The default value is \*ALL, which will print all overdue documents.

**NOTE**

Generic Partner selection cannot be used with the ID or Qualifier parameters if there are Partner IDs on the Partner file that contain an asterisk (\*).

**Partner Qual**

A 4-position alphanumeric field used to enter a specific Partner Qualifier as print criteria. You can use generic partner selection by entering a partial Partner Qualifier followed by an asterisk (\*). This prints Audit records for any partners whose Qualifier begins with the partial Partner Qualifier specified. The default value is \*ALL.

**Division**

A 3-position field used to define the division for which you want to print Audit records. Specify \*ALL to print overdue documents for all divisions.

**Schedule Job**

A 4-position alphabetic field to designate whether you want to run the overdue acknowledgment report by scheduling it as a print job. The default value for this field is "\*NO." If you specify "\*YES," the system displays the Schedule Job (SCHJOB) command to further define the job run requirements.

**Run Interactively?**

Display this field pressing **F10** (Additional Parameters). This field allows you to perform the process interactively (immediately). If you select to run the command in an interactive mode, you can monitor system messages that occur during processing. However, if you choose this option, your terminal is locked until the process is complete.

**NOTE**

If the Run Interactively? value is \*NO and Schedule Job? is \*NO, the system submits the job to batch to run immediately.

## Requesting EDI Data from the Audit File

Sterling Gentran:Server provides you with the ability to requeue data from the Audit file.

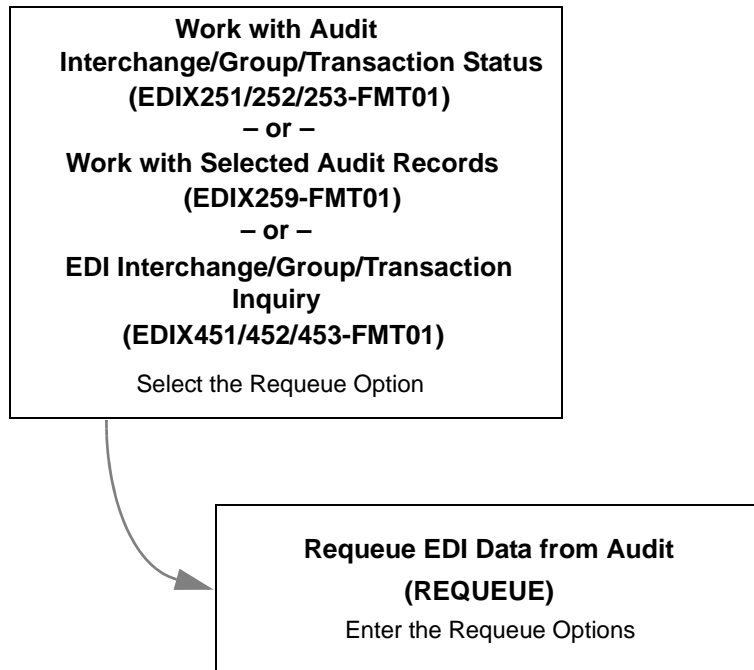


Figure 7.41 Steps for Requeuing EDI Data

The Requeue option can be selected from:

- Work with Audit Interchange Status panel (EDIX251-FMT01)
- Work with Audit Group Status panel (EDIX252-FMT01)
- Work with Audit Transaction Status panel (EDIX253-FMT01)
- Work with Selected Audit Records panel (EDIX259-FMT01)
- EDI Interchange Inquiry panel (EDIX451)
- EDI Group Inquiry panel (EDIX452)
- EDI Transaction Inquiry panel (EDIX453).

The Requeue option enables you to:

- Prepare selected EDI data at the interchange, group, or transaction level for resending or reprocessing
- Edit the EDI data
- Re-envelope the data by overriding the partner values in the partner file, and pulling the enveloping information from a different partner's file
- Audit data being requeued to the outbound queue. When data is flagged for auditing, the data is also compliance checked against the standards and compressed for transmission.

### Using the Requeue Function

To use the Requeue option, type '31' in the Option field beside any entry displayed on the panel, and press **Enter**. The level (interchange, group, or transaction) that you are on when requesting the data is important, because it dictates how much data is duplicated for the requeue function.

The following figure illustrates the selection of the Requeue EDI Data from Audit (REQUEUE) command from the Work with Audit Transaction Status panel (EDIX253-FMT01).

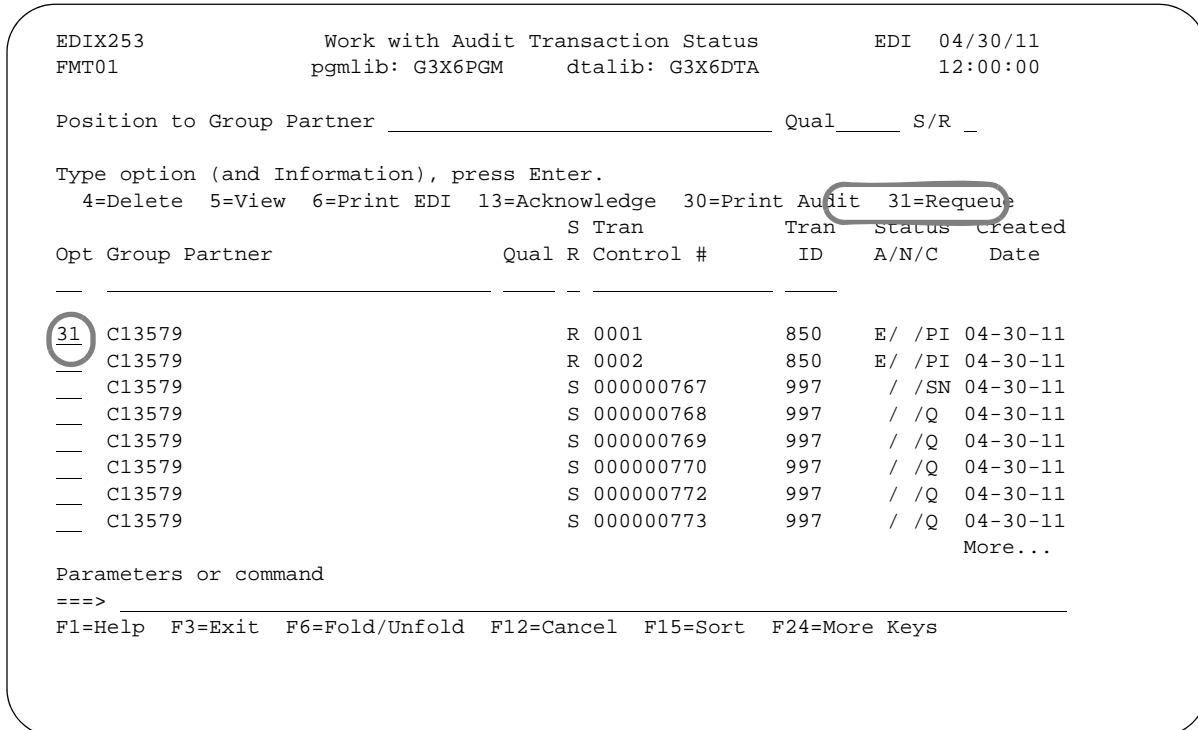


Figure 7.42 Select the Requeue option from the Work with Audit Transaction Status panel (EDIX253-FMT01)

Type '31' next to the selected partner ID and press **Enter**. The Requeue EDI Data from Audit command panel (REQUEUE) displays, as shown in the following figure.



### Enter the Requeue Options

On the Requeue EDI Data from Audit command, you can choose whether to override partner information, edit the data, and whether to send the data to the Sterling Gentran:Server communications queue or to an output file.

```

Re-queue EDI Data from Audit (REQUEUE)

Type choices, press Enter.

Re-envelope the Data ? . . . . . > *NO          *YES, *NO
Envelope Trading Partner . . . . . > 'C13579'
Envelope Trading Partner Qual . . . > ' '
Edit EDI Data ? . . . . . > *NO          *YES, *NO
Replace Hex Characters ? . . . . . > *NO          *YES, *NO
EDI Output . . . . . > *OUTFILE       *COMMQ, *OUTFILE
Comm Profile Id for New Data . . . > CN3BSC     To Comm Profile Id
Comm Batch ID for New Data . . . . > SEMPOAPPL

To Direction . . . . . > *I          *I-Inbound, *O-Outbound
Audit Requeued Data? . . . . . > *YES       *YES, *NO
File to receive output . . . . . >
Library . . . . . > *LIBL         Name, *LIBL, *CURLIB
Output Member Options:
  Member to receive output . . . . > *FILE      Name, *FILE
  Replace or add records . . . . . > *REPLACE   *REPLACE *ADD
  Create File? . . . . . > *YES         *NO, *YES

F3=Exit  F4=Pr
F13=How to use

Re-queue EDI Data from Audit (REQUEUE)

Type choices, press Enter.

Run Interactively ? . . . . . > *NO          *YES, *NO

Additional Parameters

Collect VAT Data? . . . . . > *NO          *YES, *NO

Bottom
F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
    
```

Figure 7.43 Requeue EDI Data from Audit (REQUEUE) Command

To run the Requeue EDI Data from Audit (REQUEUE) command, specify the selection criteria and press **Enter**. The field descriptions follow.

---

## Field Descriptions

### Re-envelope the Data ?

Leave the default, \*NO, to keep the original envelope data.



---

#### NOTE

If \*NO is selected, the counts in the trailer segments will still be adjusted to reflect the correct totals.

---

Enter '\*YES' to re-envelope the data using envelope information for the partner ID entered in the Envelope Trading Partner field on this command. (One reason to use this option is to have different control numbers generated.) The data will be re-enveloped as follows:

- From the Audit Interchange: interchange envelopes only
- From the Audit Group: interchange and group envelopes only
- From the Audit Transaction: interchange, group, and transaction envelopes.



---

#### NOTE

If \*YES is selected, the generated ISA15 element in an ISA interchange envelope will default to 'P.' To override the default, use the 'Edit EDI Data' parameter.

---

### Envelope Trading Partner

This field is ignored unless \*YES is entered in the Re-envelope Data field. If you want to change which partner's envelope information is used, enter a Partner ID here. The original Partner ID for this data (from the audit record) will be overridden, and the envelope information will be pulled from the new partner's file instead. The default shown is the Partner ID from the audit record.

### Envelope Trading Partner Qual

This prompt is ignored unless \*YES is entered in the Re-envelope Data field. If you want to change which partner's envelope information is used, enter a Partner qualifier here. The original Partner qualifier for this data (from the audit record) will be overridden, and the envelope information will be pulled from the new partner's file instead. The default shown is the Partner qualifier from the audit record.

### Edit EDI Data ?

This prompt enables you to edit the data before loading it again to the designated queue for transmission. If you specify \*NO, the data will be extracted and loaded as is (except for the trailer envelopes, which are modified to match the selected data to be compliant). Specify '\*YES' if you want to edit the extracted EDI output data. When you have completed editing the data, you are asked for confirmation to continue or exit the requeue process.



---

#### NOTE

If the data is edited, the job runs automatically in interactive mode, regardless of the Run Interactively parameter setting.

---

**CAUTION**

When \*YES is specified, the system will *temporarily* replace unprintable characters in the data with printable characters for viewing purposes. The system will automatically replace the original characters at the end of the edit session.

If any of the replacement characters are found in the data, or more than five replacement characters are needed, the edit session cannot be invoked. *It is crucial that none of the separators and terminators are changed during the edit session.* If they are, unpredictable results can be expected.

---

**Replace Hex Characters?**

Specify '\*YES' and this field enables you to modify up to five characters by entering their hexadecimal values. This is useful if you want to replace one segment terminator in the data with a different one.

**Find Hex Characters**

This field is ignored unless you specify '\*YES' for the Replace Hex Character? field. You can specify the replacement of up to five hexadecimals.

**Replace Hex Characters**

Enter up to five hexadecimal replacement characters.

**EDI Output**

Specify '\*COMMQ' if the data should be loaded back onto the Sterling Gentran:Server communications queue. (This process invokes the 'ADD' command automatically).

Specify '\*OUTFILE' to write the data to a database file instead of the communications queue.

**Comm Profile ID for New Data**

This field is ignored unless you specify '\*COMMQ' for the EDI Output parameter. Specify the Comm Profile ID where the data should be loaded for the requeue.

**Comm Batch ID for New Data**

This is a 44-position alphanumeric field used to specify a Batch ID to be used when adding any data to the queues. The default value is "\*DEFAULT", which will create a system generated Batch ID that serves as an audit trail for the queued data. The generated Batch ID contains a string of values that begin with "REQUEUE" and contains the requeue date, time, and user and original batch sequence number. When this field contains a value other than "\*DEFAULT", the requeued batch of data will contain that Batch ID.

**NOTE**

If the original batch of data being requeued contained a Batch ID (that was not a REQUEUE audit string Batch ID that begins with "requeue;") then that Batch ID will be preloaded into this field instead of the default value of "\*DEFAULT".

---

**To Direction**

This field is ignored unless you specify '\*COMMQ' for the EDI Output parameter. The default is the communications queue for the source data being requested. Specify '\*I' for the results to be placed on the inbound communications queue. Specify '\*O' for the results to be placed on the outbound communications queue.

**Audit Requested Data?**

Specify '\*YES' if you want to have the requested data logged in the audit file when data is being requested to the outbound queue. The default value is \*YES.

If \*YES, requested data is passed to the outbound editor where the data is compliance checked, compressed, and logged in the audit file (depending on the global parameter settings and on the envelope control numbers being unique).

**NOTE**

This field is only valid for an outbound request process (TOINOUT=\*O and ADDQUEUE=\*COMMQ).

**NOTE**

If you specified \*OUTFILE in the EDI Output field, the following fields are displayed by pressing **Enter** or **PageDown**.

**File to receive output**

This prompt is ignored unless \*OUTFILE is specified for the EDI Output parameter. It identifies the file name that is to receive the EDI data.

**NOTE**

If the file does not currently exist, specify '\*YES' for the Create File? parameter.

**Library**

This prompt is ignored unless \*OUTFILE is specified for the EDI Output parameter. This is the library where the output file resides (see the File to Receive Output parameter above). The default value is \*LIBL, which tells the job to search for the first occurrence of the file in the library list. Specify \*CURLIB to look for the file in the library denoted as the Current Library.

**Output Member Options**

Specify the member name that is to receive the EDI data. This is a required parameter when \*OUTFILE is selected for output type.

**NOTE**

If the member for the file specified does not exist, select '\*YES' for the Create File? parameter.

**Create File?**

A 4-position alphanumeric field allowing the user to specify whether the file must be created. If the file already exists, leave the default, \*NO. If the file or member does not exist, specify '\*YES'.

**Run Interactively ?**

This parameter allows you to perform the process interactively (immediately). If you select to run the command in an interactive mode (\*YES), you can monitor system messages that occur during processing. However, you are locked out of the system from the terminal the job was submitted on until the process is complete.

**NOTE**

---

If you specified \*YES for the Edit EDI Data parameter, the job runs interactively, regardless of the parameter setting.

---

**Additional Parameters (Press F10)****Collect VAT Data?**

This parameter is only valid when Audit Requeued Data is \*YES and the data is being requeued to the outbound queue.

Select '\*NO' if Value Added Tax (VAT) reporting is not required. Select '\*YES' if you want to collect the VAT data to generate a VAT report when processing EDIFACT-TAXCON or INVOIC messages, or if you are using TRADACOMS, from Invoice or Credit Notes messages. The default value is \*NO.

## Identify Requested Data

When data is requested, the system marks the EDI data on the communications queues with a special batch ID so it can be differentiated from processed data, as well as to provide an audit trail. The batch ID includes the following pieces of information, which are separated by semi-colons.

- The word “REQUEUE”
- Batch sequence number of the original EDI data
- Direction (I for inbound, O for outbound) of the original EDI data
- ALTERED – if you edited the data during the request
- User ID that performed the request
- Date stamp for when the request occurred (shown in YYMMDD format)
- Time stamp for when the request occurred

This is the only tracking information provided for requested data. An example of the special batch ID is shown in the following figure.

```

EDIX408                      Inbound Queue Inquiry          EDI          04/30/11
                                                12:00:00

Comm Profile Id . . . CN3BSC                      Line Number . . . . 000001
Profile Seq . . . . 000074                        Status. . . . . H
Date Received . . . . 07-11-99                    Batch Seq Number. . 0000200
Time Received . . . . 13:32
Batch-Id. . . . . REQUEUE;008690;I,EDI;970711;133252

ISA* * * * * * *12345678 * *EDI 12345 *990711*
2* *00400*000000345*0*P*>@GS*IN*MYID * *20040829*1332
000000013* *004010 @ST*810*000000404@BIG*970606*00112251@DTM*001**01020
TM*001**050607@DTM*001**080900@DTM*001**101100@DTM*001**121314@DTM*001**01020
TM*001**050600@DTM*001**070809@DTM*001**101112@DTM*001**111306@DTM*001**11130
TM*001**111306@TDS*0@SE*0000000016*000000404@GE*000001*000000013@IEA*00001*00
0345@

F1=Help F2=Hex F5=Refresh F12=Cancel F17=Record+1
F19=Left F20=Right F21=Prt Dta
Bottom of data records
Bottom

```

Figure 7.44 Example of requested data

## Requeue Multiple Documents

The Select Requeue command is a combination of the STLAUD command and the REQUEUE command. On the first half of the SLTREQ command, the system prompts you to enter the selection criteria for searching the Audit file. It works the same way the SLTAUD command works. The requeue information is on the second half of the command. Here you can choose to edit the data and specify whether to place the extracted EDI data on a specific communications queue or on a work file.

After you have entered both the search criteria and the requeue information, press **Enter** to begin the process. The results of that Audit search display on a Work with panel where you can view, print, and select (one, several, or all) documents to be re-queued.

### Using the Audit Search Requeue Utility

To begin the requeue and audit search utility, select option 20 from the GENAUD menu, as shown in the following figure, and press **Enter**.



#### NOTE

You can also access this panel by typing 'STLREQ' on the command line and pressing **Enter**.

```

GENAUD                               Gentran:Server Audit 3.6                               System:  ISDDEV01
Select one of the following:
  20. Audit Search Requeue Utility      (SLTREQ)
  90. Sign off

Selection or command                    Bottom
===> 20
F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F13=User Support

```

Figure 7.45 Select Audit Search Requeue Utility

The system displays the Select Requeue Records (SLTREQ) panel. .

```

Select Requeue Records (SLTREQ)

Type choices, press Enter.

Direction . . . . . > *IN          *IN, *OUT
Audit Level . . . . . *TRAN        *TRAN, *GROUP, *INT
Partner ID beginning with . . . *ALL
Doc Info (eg PO#) containing . . *ALL
Transaction ID beginning with . *ALL          *ALL, value
Group ID beginning with . . . . *ALL          *ALL, value
Acknowledgment status . . . . . *ALL          *ALL, *UNACK, *ACK, *ERROR...
      + for more values
Older than or equal to . . . . . *ALL          *ALL, age in days
From Date . . . . . *BEGIN        *BEGIN, *CURRENT, Date
To Date . . . . . *END            *END, *CURRENT, Date

Bottom
F3=Exit  F4=Prompt  F5=Refresh  F10=Additional parameters  F12=Cancel
F13=How to use this display  F24=More keys
    
```

Figure 7.46 Select Requeue Records (SLTREQ) panel, Part 1

For this example, type **\*IN** for Direction to search in the inbound records. Press **Enter** and two additional fields display, as illustrated in the following figure.

```

Select Requeue Records (SLTREQ)

Type choices, press Enter.

Direction . . . . . > *IN          *IN, *OUT
Audit Level . . . . . *TRAN        *TRAN, *GROUP, *INT
Partner ID beginning with . . . *ALL
Doc Info (eg PO#) containing . . *ALL
Transaction ID beginning with . *ALL          *ALL, value
Group ID beginning with . . . . *ALL          *ALL, value
Acknowledgment status . . . . . *ALL          *ALL, *UNACK, *ACK, *ERROR...
      + for more values
Older than or equal to . . . . . *ALL          *ALL, age in days
From Date . . . . . *BEGIN        *BEGIN, *CURRENT, Date
To Date . . . . . *END            *END, *CURRENT, Date
Edit EDI Data ? . . . . . *NO          *YES, *NO
EDI Output . . . . . *COMMQ       *COMMQ, *OUTFILE

Bottom
F3=Exit  F4=Prompt  F5=Refresh  F10=Additional parameters  F12=Cancel
F13=How to use this display  F24=More keys
    
```

Figure 7.47 Select Requeue Records (SLTREQ) panel, Part 2



Press **Enter** again to accept the default values of those two fields. Type 'CN3BSC' in the Comm Profile Id for New Data field. You may enter any communication profile ID you wish the data to be loaded for the requeue.

```

Select Requeue Records (SLTREQ)

Type choices, press Enter.

Direction . . . . . > *IN          *IN, *OUT
Audit Level . . . . . *TRAN        *TRAN, *GROUP, *INT
Partner ID beginning with . . . *ALL
Doc Info (eg PO#) containing . . *ALL
Transaction ID beginning with . . *ALL          *ALL, value
Group ID beginning with . . . . *ALL          *ALL, value
Acknowledgment status . . . . . *ALL          *ALL, *UNACK, *ACK, *ERROR...
      + for more values
Older than or equal to . . . . . *ALL          *ALL, age in days
From Date . . . . . *BEGIN        *BEGIN, *CURRENT, Date
To Date . . . . . *END           *END, *CURRENT, Date
Edit EDI Data ? . . . . . *NO          *YES, *NO
EDI Output . . . . . *COMMQ       *COMMQ, *OUTFILE
Comm Profile Id for New Data . . > CN3BSC      To Comm Profile Id
Comm Batch ID for New Data . . . *DEFAULT

More...

F3=Exit   F4=Prompt   F5=Refresh   F10=Additional parameters   F12=Cancel
F13=How to use this display   F24=More keys
    
```

Figure 7.48 Select Requeue Records (SLTREQ) panel, Part 3

Press **Page Down** to display the second page of the panel, illustrated in the following figure.

```

Select Requeue Records (SLTREQ)

Type choices, press Enter.

To Direction . . . . . > *I          *I-Inbound, *O-Outbound
Audit Requeued Data? . . . . . *YES      *YES, *NO

Bottom

F3=Exit   F4=Prompt   F5=Refresh   F10=Additional parameters   F12=Cancel
F13=How to use this display   F24=More keys
    
```

Figure 7.49 Select Requeue Records (SLTREQ) panel, Part 3, second page

Type '**I**' for the results to be placed on the inbound communication queue.

---

## Field Descriptions

**Direction**

Enter the document direction. Specify \*IN for inbound, or \*OUT for outbound.

**Audit Level**

Enables you to search at the interchange (\*INT), group (\*GROUP), or transaction (\*TRAN) level. \*TRAN is the default value.

**NOTE**

---

You must specify the value '\*TRAN' as the audit level to search and select data based on the Audit Indicator (Doc Info) field.

---

**Partner ID beginning with**

Enter a full or partial partner ID up to 30 characters.

**Doc Info (eg PO#) containing**

Enter up to 25 characters to search for in the Audit Indicator field. For example, if you have defined the Audit Indicator to be the purchase order number, you could enter a specific purchase order number to search for in this field. The Audit Indicator is defined in the standards. (SEE the "Standards" chapter in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide* for more information.)

**Transaction ID beginning with**

Enter up to six characters of the desired transaction ID. You can only use this field if the audit level is \*TRAN.

**Group ID beginning with**

Enter up to six characters of the desired group ID. You can only use this field if the audit level is \*GROUP.

**Acknowledgment Status**

Enter up to six separate acknowledgment statuses, or leave the default value (\*ALL), to search on all statuses.

**NOTE**

---

To enter additional statuses, type '+' in the field and press **Enter**. The field displays additional fields for you to enter one to five more statuses. When you have entered the status(es), press **Enter** to return to the main panel.

---

Valid status values are:

- \*ALL Select audit records regardless of the acknowledgment status (both unacknowledged and acknowledged records would be included).
- \*UNACK Select audit records that have not yet been acknowledged (Status would be blank). Remember, at the interchange level, many partners do not specifically

acknowledge the interchange, and the status is usually only filled in at the group and transaction levels.

- \*ERROR Select audit records that have been acknowledged but were accepted with errors (status code of 'E').
- \*REJ Select audit records that have been acknowledged but were rejected (status code = 'R'). Special arrangements should be made when documents are rejected to get the data corrected and resent.
- \*PART Select audit records that have been acknowledged but were partially accepted (status code = 'P'). The partial acceptance status should only occur at the group level to indicate that some transactions were accepted, but not all.
- \*ACK Select all audit records that have an acknowledgment status, regardless of the specific status code (status code <> ' '). This would include manually acknowledged as well as partner acknowledged records.
- \*USER Select audit records that have been manually acknowledged by the user (status code = 'U'). These are records that the user used option '13' (Acknowledge) for within the Sterling Gentran:Server Audit subsystem to manually mark them as acknowledged. Typically, this occurs when the Partner provides a verbal acknowledgment.
- \*ACCPT Select audit records that have been acknowledged by your partner with an 'accept with no errors' status (status code = 'A').

**Older than or equal to**

Enter the minimum age of the records to be found in days. For example, a value of '30' will return records of 30 days old or more.

**From Date**

Enter the oldest date to include in the search, using the date format specified in the System Configuration file (SYSCFG). Use the SETGENFMT command on the GENSYSCFG menu to determine the current date format setting.

**NOTE**

You must enter '\*BEGIN' in this field if you entered a number (for age in days) in the 'Older than or equal to' field (AGEDAYS parameter).

---

**To Date**

Enter the most recent date to include in the search, using the date format specified in the System Configuration file (SYSCFG). Use the SETGENFMT command on the GENSYSCFG menu to determine the current date format setting.

**NOTE**

You must enter '\*END' if you entered a number (age in days) in the 'Older than or equal to' field.

---

**Re-envelope the Data ?**

This parameter is used only when a specific Partner ID is entered for the 'Partner ID beginning with' parameter.

Leave the default value, \*NO, to keep the original envelope data.

**NOTE**

If you select \*NO, the system will still adjust the counts in the trailer segments to reflect the correct totals.

Enter '\*YES' to re-envelope the data using envelope information for the partner ID entered in the Envelope Trading Partner field on this command. (One reason to use this option is to have different control numbers generated.) The data will be re-enveloped as follows:

- From the Audit Interchange: interchange envelope only
- From the Audit Group: interchange and group envelopes only
- From the Audit Transaction: interchange, group, and transaction envelopes.

**Envelope Trading Partner**

The system ignores this field unless \*YES is entered in the Re-envelope Data field. If you want to change which partner's envelope information is used, enter a Partner ID here. The system will override the original Partner ID for this data (from the audit record), and pull the envelope information from the new partner's file instead. The default displayed is the Partner ID from the audit record.

**Envelope Trading Partner Qual**

This field is ignored unless \*YES is entered in the Re-envelope Data field. If you want to change which partner's envelope information is used, enter a Partner qualifier here. The system will override the original Partner qualifier for this data (from the audit record), and pull the envelope information from the new partner's file instead. The default shown is the Partner qualifier from the audit record.

**Edit EDI Data ?**

This prompt enables you to edit the data before loading it again to the designated queue for transmission. If you use the default, \*NO, the system extracts and loads the data as-is (except for the trailer envelopes, which the system modifies to match the selected data for compliance). Specify '\*YES' if you want to edit the extracted EDI output data. When you have completed editing the data, the system asks for confirmation to continue or exit the requeue process.

**NOTE**

If the data is edited, the job runs automatically in interactive mode, regardless of the Run Interactively parameter setting.

**CAUTION**

When \*YES is specified, the system temporarily replaces unprintable characters in the data with printable characters for viewing purposes. The system automatically replaces the original characters at the end of the edit session. If any of the replacement characters are found in the data, or more than five replacement characters are needed, the edit session cannot be invoked. It is crucial that none of the separators and terminators are changed during the edit session. If they are, unpredictable results can be expected.

---

**EDI Output**

Specify '\*COMMQ' if the data should be loaded back onto the Sterling Gentran:Server communications queue. (This process invokes the 'ADD' command automatically).

Specify '\*OUTFILE' to write the data to a database file instead of the communications queue and the job runs in interactive mode regardless of the Run Interactive parameter setting.

**Comm Profile ID for New Data**

The system ignores this field unless you specify '\*COMM' for the EDI Output parameter. Specify the Comm Profile ID where the data should be loaded for the requeue.

**Comm Batch ID for New Data**

This is a 44-position alphanumeric field used to specify a Batch ID to be used when adding any data to the queues. The default value is \*DEFAULT, which creates a system-generated Batch ID that serves as an audit trail for the requeued data. The generated Batch ID contains a string of values that begin with 'REQUEUE' and contains the requeue data, time, and user and original batch sequence number. When this field contains a value other than \*DEFAULT, the requeued batch of data will contain that Batch ID.

**To Direction**

The system ignores this field unless you specify '\*COMMQ' for the EDI Output parameter. The default is the communications queue for the source data being requeued. Specify '\*I' for the results to be placed on the inbound communications queue. Specify '\*O' for the results to be placed on the outbound communications queue.

**Audit Requeued Data?**

Specify '\*YES' if you want to have the requeued data logged in the Audit file when data is being requeued to the outbound queue. The default value is \*YES.

If \*YES, the system passes requeued data to the outbound editor, where the data is compliance checked, compressed, and logged in the Audit file (depending on the global parameter settings and on the envelope control numbers being unique).

**NOTE**

This field is only valid for an outbound requeue process (TOINOUT=\*O and ADDQUEUE=\*COMMQ).

---

---

## Field Display for \*OUTFILE

If you specified \*OUTFILE in the EDI Output field, the following fields display when you press **Enter** or **Page Down**.

### **File to receive output**

The system ignores this prompt unless \*OUTFILE is specified for the EDI Output parameter. It identifies the file name that is to receive the EDI data.



---

### **NOTE**

If the file does not currently exist, specify '\*YES' for the Create File? parameter.

---

### **Library**

The system ignores this prompt unless \*OUTFILE is specified for the EDI Output parameter. This is the library where the output file resides (see the File to Receive Output parameter above). The default value is \*LIBL, which tells the job to search for the first occurrence of the file in the library list. Specify \*CURLIB to look for the file in the library denoted as the Current Library.

### **Output Member Options**

Specify the member name that is to receive the EDI data. This is a required parameter when \*OUTFILE is selected for output type.



---

### **NOTE**

If the member for the file specified does not exist, select '\*YES' for the Create File? parameter.

---

### **Create File?**

A 4-position alphanumeric field allowing the user to specify whether the file must be created. If the file already exists, leave the default, \*NO. If the file or member does not exist, specify '\*YES'.

## Additional Parameters (Press F10)

### **Run Interactively ?**

This parameter allows you to perform the process interactively (immediately). If you select to run the command in an interactive mode (\*YES), you can monitor system messages that occur during processing. However, you are locked out of the system from the terminal the job was submitted on until the process is complete.



---

### **NOTE**

If you specified \*YES for the Edit EDI Data parameter or \*OUTFILE for the EDI Output, the job runs interactively, regardless of the parameter setting.

---

**Collect VAT Data?**

This parameter is only valid when Audit Requeued Data is \*YES and the data is being requeued to the outbound queue.

Select '\*NO' if Value Added Tax (VAT) reporting is not required. Select '\*YES' if you want to collect the VAT data to generate a VAT report when processing EDIFACT-TAXCON or INVOIC messages, or if you are using TRADACOMS, from Invoice or Credit Notes messages. The default value is \*NO.

**Review Search Results**

Once you run the query, the results display onscreen. The following figure shows the search results for the query done in the previous section. The Work with Selected Requeue Records panel (EDIX250-FMT01) displays.

```

EDIX250          Work with Selected Requeue Records          04/30/11
FMT01           pgmlib: G3X6PGM      dtalib: G3X6DTA        12:00:00
                Direction: INBOUND   Audit Level: TRANSACTION

Type option (and Information), press Enter.  Press F21 to select all.
  1=Select  5=View  6=Print EDI

Opt Partner ID          Date      Tran      Doc Info          Ack Profile Sts
      C13579             04-30-11   850    01120001          CN3BSC  H
      C13579             04-30-11   850    01120030          CN3BSC  H
      TPCOMPANY         04-30-11   850    01120001          E  CN3BSC  H
      TPCOMPANY         04-30-11   850    01120002          E  CN3BSC  H
      VENDOR-1          04-30-11   810    INV01             E  CN3BSC  PI

Parameters or command
===>
F3=Exit  F6=Fold/Unfold  F9=Retrieve  F12=Cancel  F21=Select all

Bottom
    
```

Figure 7.50 Work with Selected Requeue Records panel (EDIX250-FMT01) Example Search Results

The panel displays any records that meet the selection criteria entered on the Select Requeue Records panel (SLTREQ).

You can work with the selected records by branching to other options.

Option	Function
1	Selects document(s) to be requeued. You can select one, several, or all documents. To select all of them, you may also press <b>F21</b> .

Option	Function
5	Displays the EDI data for the selected record from the communications queue.
6	Prompts the PRTEIDTA command to print the EDI data for the selected record.

You can also use the following function keys to select documents and display more information.

Key	Function
F6 (Fold/Unfold)	“Unfolds” to view the subfile with an additional row of information .
F21 (Select All)	Selects all the documents for requeue from the search results. This is equivalent to typing ‘1’ next to all the options on the display and pressing <b>Enter</b> .

The search results in the figure above are illustrated in the figure below, as they display after pressing **F6** (Fold/Unfold).

```

EDIX250          Work with Selected Requeue Records          04/30/11
FMT01           pgmlib: G3X6PGM      dtalib: G3X6DTA        12:00:00
                Direction: INBOUND   Audit Level: TRANSACTION

Type option (and Information), press Enter.  Press F21 to select all.
  1=Select  5=View  6=Print EDI

Opt Partner ID          Date      Tran      Doc Info          Ack Profile Sts
                                ID
C13579                 04-30-11   850    01120001          CN3BSC   H
  Int Ctl# 000000001    Grp Ctl# 000000001    Trans Ctl# 0001
C13579                 04-30-11   850    01120030          CN3BSC   H
  Int Ctl# 000000001    Grp Ctl# 000000001    Trans Ctl# 0002
TPCOMPANY             04-30-11   850    01120001          E CN3BSC   H
  Int Ctl# 000000001    Grp Ctl# 000000001    Trans Ctl# 000000001
TPCOMPANY             04-30-11   850    01120002          E CN3BSC   H
  Int Ctl# 000000001    Grp Ctl# 000000001    Trans Ctl# 000000002
VENDOR-1              04-30-11   810    INV01             E CN3BSC   PI
  Int Ctl# 000000005    Grp Ctl# 000000007    Trans Ctl# 000070001
                                                Bottom

Parameters or command
===>
F3=Exit  F6=Fold/Unfold  F9=Retrieve  F12=Cancel  F21=Select all
    
```

Figure 7.51 Work with Selected Requeue Records panel after pressing F6 (Fold/Unfold)

 **NOTE**

When the Audit Level is \*GROUP, you will see only the interchange and group control numbers. When the Audit Level is \*INT, you will see the interchange control number only.



## Print the Network Reconciliation Status Report

Sterling Gentran:Server provides you with the ability to print a report with the network status information for outbound documents. You can select the information to be printed by setting the parameters using the command PRTNETSTS.

### Select Criteria

The selection criteria available includes:

- Network Reconciliation Status
- Reported Status
- Division.

You can combine the print selection criteria with an “age” parameter. An “age” parameter reduces the selection of reconciliation records that are printed. You may elect to search for records using:

- Current Date
- Date Range
- Number of hours before current hour
- Days old range



---

**NOTE**

See the EBDI008B – Print Network Reconciliation Status section for a detailed description of the Network Reconciliation Status Report (EBDI008B).

---

## Select the Print Network Reconciliation Status Report

The Print Network Status option can be accessed from the GENAUD menu or from the Work with Audit Interchange Status panel (EDIX251).

On the GENAUD menu, type option '6' on the command line and press **Enter**.

```
GENAUD                      Sterling Gentran:Server Audit 3.6
                               System:   ISDDEV01
Select one of the following:

  1. Audit Search Utility              (SLTAUD)
  2. Work with Audit Interchange Status
  3. Work with Audit Group Status
  4. Work with Audit Transaction Status
  5. Print Audit Report                 (PRTAUD)
  6. Print Network Status Report        (PRTNETSTS)
  7. Print Overdue Acknowledgments     (PRTOVRACK)

 10. Purge Audit File                  (PRGAUD)
 11. Purge Audit using Partner File Options (AUDITPURGE)
 12. Purge Network Status File         (PRGNET)

 15. Retrieve Audit File                (RTVAUD)
 16. Retrieve Network Status File       (RTVNET)

                                         More...
Selection or command
===: 6
-----
F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F13=User Support
```

Figure 7.52 Select Print Network Status

### Enter the Print Options

Sterling Gentran:Server provides several selection options which allow you to print all or some of the entries in the Network Reconciliation Status File (TRKFNF). The system builds the selection criteria based on the combined values entered in the fields on the Print Network Status (PRTNETSTS) panel.

```

                                Print Network Status (PRTNETSTS)

Type choices, press Enter.

Network Reconciliation Status .  *NONE          *NONE, *E, *P, *R, *S, *NPU
Age Selection Type . . . . .    *ALL           *DATE, *DAYS, *HOURS, *ALL
Reported Status . . . . .      *ALL           *ALL, *NOTRPT
Division . . . . .             *ALL           *ALL, Character value
Schedule Job ? . . . . .       *NO            *YES, *NO

                                                                    Bottom
F3=Exit  F4=Prompt  F5=Refresh  F10=Additional parameters  F12=Cancel
F13=How to use this display  F24=More keys
    
```

Figure 7.53 Print Network Status (PRTNETSTS) Command

To run the Print Network Reconciliation Status Report (PRTNETSTS) command, specify the selection criteria and press **Enter**.

### Parameter Definitions for the Print Network Status (PRTNETSTS) command

#### **Network Reconciliation Status**

This is a 5-position alphabetic field used to determine what type of status records are to display on the report. Valid values are:

- \*NONE     Print all records without any status
- \*E        Print all records that have received an error
- \*P        Print all records that have been picked up
- \*R        Print all records that have been received
- \*S        Print all records where the network has processed the interchange.
- \*NPU      Print all items that have not been picked up. Prints all statuses except 'P.'

**Age Selection Type**

A 6-position alphabetic field used to define an “age” record selection criteria for which you want to print the network reconciliation status. After selecting a valid value, the system displays a prompt line with an 8-position entry field enabling you to further define your selection. Valid values for this field are:

- \*DATE Specify network reconciliation records for a specific date, date range, or the current date. Only records within the specified date range are printed.
- \*DAYS Specify the number of days before the current date. Only records within the specified range are printed. Valid values are 0 – 999. For example, if you enter from ‘0’ to ‘3,’ records from 0 – 3 days old are printed.
- \*HOURS Specify the number of hours before the current hour. Records older than the specified number of hours are printed. Valid values are 0 – 24. The \*HOURS value is useful when you want to ignore the most recent activity for which a status would not yet be posted.
- \*ALL Includes all records.

If you enter a value of \*DATE or \*DAYS in the Age Selection Type field, and press **Enter**, the system displays the following prompt lines:

```
From #, *CURRENT, or Date . . . . _____ Number, *CURRENT
To #, *CURRENT, or Date . . . . _____ Number, *CURRENT
```

If you enter the value \*HOURS in the Age Selection Type field and press **Enter**, the system displays the following prompt line:

```
Number of Hours . . . . . _____ Character value
```

**Reported Status**

A 7-position field used to define the reported status of documents for which you want to print Network Reconciliation records. You may print records for both reported and not reported records (\*ALL). You may also print only those records that have not been previously printed (\*NOTRPT).

**Division**

A 3-position field used to define the division for which you want to print Network Reconciliation records. Specify \*ALL to print data for all divisions.

**Schedule Job**

This is a 4-position alphabetic field used to designate whether to run the Network Reconciliation Report by scheduling it as a print job. The default value for this field is \*NO. If you specify \*YES, the system displays the Schedule Job (SCHJOB) command to further define the job run requirements.

**Run Interactively**

This field is accessed by displaying additional parameters using **F10** (Additional Parameters). It allows you to perform the process interactively. If you select to run the command in an interactive mode, you can monitor system messages that occur during processing. However, if you select this option, your terminal is locked until the process is completed.

**NOTE**

---

If Run Interactively is \*NO and Schedule Job is \*NO, the job is submitted to batch to run immediately.

---

## Selectively Purge the Audit File

If any of the Audit global parameters are set to 'Y,' the Audit file contains a logged entry of all EDI documents that have passed through the system. This means that the Audit file can grow quickly. It is very important to keep the Audit file at an efficient size for DASD considerations and processing efficiency. The Purge Audit File (PRGAUD) command should be used to perform routine housekeeping to keep the Audit file at a manageable level. The delete option previously described (4=Delete) should only be used for ad-hoc purges of specific data.

Sterling Gentran:Server provides several options for selectively purging the Audit file. You can selectively purge the Audit file of all entries that have been reported on or acknowledged either by your partner or manually by you. You may also select to purge all records for a specific date or that are older than a certain number of days. You can enter specific Interchange Partner IDs/Qualifiers as purge criteria or use generic partner selection by entering a partial Interchange Partner/ID Qualifier followed by an asterisk (\*). You can select to purge all records for a specific transaction ID or for all transaction IDs. You can also designate whether to purge corresponding network records for audit interchange records deleted. You can purge data for a specific partner that has a specific network status (generic\* selection is also available). These entries can be purged to tape or a save file.

In this section, you will learn how to select purge options and how to submit the Purge Audit File (PRGAUD) command for processing.

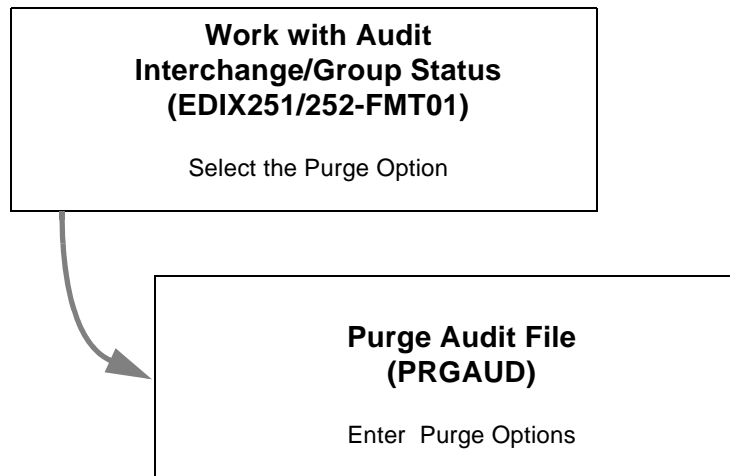


Figure 7.54 Selectively Purge the Audit File

### NOTE

The Purge Audit by Partner (AUDITPURGE) command is an alternative method for purging Audit data. It is accessible from the GENAUD menu using option '11' or from the Work with Audit Interchange or Group panels using option '41' (Purge by Partner). This command uses purge parameters provided on the Partner Control panel (EDIX012-FMT01) to selectively purge the Audit records on a partner-by-partner basis.

## Select the Purge Option

The Purge Audit File command can be accessed from the GENAUD menu, the Work with Audit Interchange Status panel (EDIX251-FMT01), or from the Work with Audit Group Status panel (EDIX252-FMT01).

To run the Purge Audit File (PRGAUD) command, choose one of these access methods:

- Type option '10' on the GENAUD menu command line and press **Enter**.
- On the Work with Audit Interchange Status panel (EDIX251-FMT01), type '40' in the Option field on the key entry line, or beside any entry displayed, and press **Enter**.
- On the Work with Audit Group Status panel (EDIX252-FMT01), type '40' in the Option field on the key entry line, or beside any entry displayed, and press **Enter**.

The following figure shows the selection of the Purge Audit File (PRGAUD) command from the GENAUD menu.

The screenshot displays the GENAUD menu interface. At the top, it shows 'Sterling Gentran:Server Audit 3.6' and 'System: ISDDEV01'. Below this, it prompts the user to 'Select one of the following:'. A list of menu options is shown, with '10. Purge Audit File (PRGAUD)' highlighted by a rounded rectangle. Below the list, there is a field for 'Selection or command' with '10' entered and circled. At the bottom, there are function key instructions: F3=Exit, F4=Prompt, F9=Retrieve, F12=Cancel, and F13=User Support.

```
GENAUD                               Sterling Gentran:Server Audit 3.6
                                     System:  ISDDEV01

Select one of the following:

    1. Audit Search Utility              (SLTAUD)
    2. Work with Audit Interchange Status
    3. Work with Audit Group Status
    4. Work with Audit Transaction Status
    5. Print Audit Report                (PRTAUD)
    6. Print Network Status Report       (PRTNETSTS)
    7. Print Overdue Acknowledgments     (PRTOVRACK)

    10. Purge Audit File                  (PRGAUD)
    11. Purge Audit using Partner File Options (AUDITPURGE)
    12. Purge Network Status File        (PRGNET)

    15. Retrieve Audit File              (RTVAUD)
    16. Retrieve Network Status File     (RTVNET)

More...

Selection or command
===: 10

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F13=User Support
```

Figure 7.55 Select the Purge Audit File (PRGAUD) command from Sterling Gentran:Server Audit Menu (GENAUD)

### Enter Purge Options

This step involves selecting purge options and submitting the PRGAUD command to run either interactively, submitting it to batch, or scheduling it to run at a later time using the Job Scheduler.

To use the Purge Audit File (PRGAUD) command:

Select purge criteria (refer to the parameter definitions that follow) and press **Enter**.

Figure 7.56 shows Purge Audit File Command panel (PRGAUD) with sample values \*ACK for Selection Criteria to Purge, and '14' in the Days to Retain on File parameter. F10 has been pressed to display additional parameters.

```

Purge Audit File (PRGAUD)

Type choices, press Enter.

Selection Criteria for Purge . . *ACK          *REPORTED, *ACK, *DATE ...
Int. Partner Id (*ALL, generic) *ALL
Int. Partner Qual. . . . . . *ALL          *ALL, generic*, qualifier
Transaction ID . . . . . . *ALL          *ALL, Transaction Id
      + for more values
Purge Network Status . . . . . *YES          *YES, *NO
Division . . . . . . . . . . *ALL          *ALL, Character value
Purge Method? . . . . . . . *NONE         *TAPE, *SAVF, *NONE, *CL
Days to Retain on File . . . . > 14          Character value

Additional Parameters

Run Interactively? . . . . . *NO          *YES, *NO
Reorganize Files? . . . . . *YES         *YES, *NO
Schedule Job? . . . . . . . *NO          *YES, *NO
Process Name . . . . . . . . PRGAUD

Bottom
F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
    
```

Figure 7.56 Purge Audit File (PRGAUD) command

For interchanges purged, any corresponding network status records are also purged.

 **NOTE**

Audit and Network status data purged to tape or save file using the PRGAUD command can be retrieved using the Retrieve Audit file (RTVAUD) command. The data is added back to the Audit file (AUDREC) and the Network Status file (TRKFNF).



---

## Parameter Definitions for the Purge Audit File (PRGAUD) command

### Selection Criteria for Purge

This is a 9-position alphabetic field which is used to define the purge selection criteria. You may select to purge all previously printed (“reported”) records, all records with an “acknowledged” status, all records for a specified date, or all jobs older than a specified number of days. If you choose to purge all records within the date range, you can enter the value ‘\*DATE’ in this field. After selecting the date purge criteria press **Enter**. The system will display a prompt line with a 10-position entry field enabling you to further define your selection. Valid values for this field are:

- |           |   |
|-----------|---|
| *REPORTED | Purge all records that have previously been printed on an Audit Report. If this value is used, the Days to Retain on File field will be shown to allow you to select the number of days older than for the Audit file purge. This lets you purge if reported <u>and</u> the entry has a create date older than x days.  |
| *ACK      | Purge all Audit records having a status of “Acknowledged.” If this value is used, the Days to Retain on File field will be presented to allow you to enter the number of days older than for the Audit file purge.  |
| *DATE     | Purge all Audit records within the date range. <u>Only</u> the entries whose create date falls in between the From Date and the To Date will be purged (entries with create dates equal to the From and To date will be purged). The chosen date must be entered in the format defined in the System Configuration file. (SEE the “System Considerations” chapter for more information about the System Configuration file and date formats.) If this value is used, the system displays the following prompt line:<br><br><b>From Date</b> _____<br><b>To Date</b> _____ |
| *DAYS     | Purge all Audit records older than a certain number of days. If this value is used, the Days to Retain on File field will be shown to allow you to select the number of days you want Audit data to be retained on file.  |
| *ALL      | Purge all Audit records.  |

### Int. Partner ID

This is a 30-position alphanumeric field used to enter specific Interchange Partner IDs as purge criteria. You can use generic partner selection by entering a partial Interchange

Partner ID followed by an asterisk (\*). This will purge Audit records for any Partners whose ID begins with the partial Interchange Partner ID specified.

The default value is \*ALL, unless the purge option is used beside a specific entry. If \*ALL is specified, all partners are included in the criteria for the purge.

**NOTE**

Generic partner selection cannot be used with ID or Qualifier parameters if there are Interchange Partner IDs on the Partner file that currently contain an asterisk (\*).

**Int. Partner Qual**

This is a 4-position alphanumeric field used to enter specific Interchange Partner Qualifiers as purge criteria. You can use generic partner selection by entering a partial Interchange Partner Qualifier followed by an asterisk (\*). This will purge Audit records for any Partners whose Qualifier begins with the partial Interchange Partner ID specified.

The default value is \*ALL, unless the purge option is used beside a specific entry. If \*ALL is specified, all Interchange Partner Qualifiers are included in the criteria for the purge.

**NOTE**

Generic Partner selection cannot be used with ID or Qualifier parameters if there are Interchange Partner IDs on the Partner file that currently contain an asterisk (\*).

**Transaction ID**

This is a 6-position alphanumeric field used to enter specific Transaction IDs as purge criteria. The default value is \*ALL. If you specify \*ALL, all transaction IDs are included in the criteria for the purge. You can enter up to 10 total Transaction IDs.

**Purge Network Status**

This is a 4-position alphanumeric field used to indicate whether the corresponding network records from the TRKFNF file should be purged when audit interchange records are deleted. The default value is \*YES. If you specify \*NO, you can independently purge the network status records using the PRGNET (Purge Network Status) command.

**Division**

This is a 3-position alphanumeric field used to designate a specific division to delete Audit file records. The default value is \*ALL. Specify '\*ALL' to purge data for any division if it matches the other purge criteria. If left blank, only data for a blank division is purged.

**Purge Method**

This is an alphanumeric field which is used to indicate whether the purged records should be saved. Valid values include:

\*TAPE      Use if you want the data saved to tape.

- \*CL Use if you want the data saved to tape, and the PRGAUD command is being called from a CL. This differs from \*TAPE by bypassing the tape edits until runtime.
- \*SAVF Use if you want the data saved to a save file.
- \*NONE Use if the data is *not* to be saved to tape.

If you specify \*TAPE or \*CL, you will be shown additional parameters to qualify the tape operations such as: Device name, initialization of the tape with a volume identifier and tape density, and the end of tape option. However, when using \*CL, tape checks will not occur until the program is run.

If you specify \*SAVF, the system prompts you to enter the name of the save file and the library where the save file is located.



---

**NOTE**

This option saves only the purged records to tape or a save file. It does not save the entire contents of the Audit and Network Status file.

---

### Days to Retain on File

This is a 3-position alphanumeric field used to designate the number of days older than to be used as selection criteria for the purge. Enter a number from 0 to 999 to use as a basis to purge if the record's create date is older than that number. If '1' is specified, only the current day's records are kept. Specify '0' to purge if equal to the current date or older. No data is purged if the field is left blank (blanks are not treated as zero).

This parameter is shown when the Selection Criteria for the purge (CRIT) parameter is \*REPORTED, \*ACK, or \*DAYS. When \*REPORTED or \*ACK is selected, the audit record must have been printed on a report or acknowledged and also be older than the number of days specified in order to be purged.

### Run Interactively

This field is accessed by displaying additional parameters using **F10** (Additional Parameters). It allows you to perform the process interactively (immediately). If you select to run the command in an interactive mode, you can monitor system messages that occur during processing. However, if you choose this option, your terminal is locked until the process is complete.



---

**NOTE**

If Run Interactively is \*NO and Schedule Job is \*NO, the job is submitted to batch to run immediately.

---

### Reorganize Files?

Specify \*YES to have the AUDREC file reorganized using the IBM command, RGZPFM, after the records are deleted in order to reclaim storage. If the Network Status parameter is \*YES and the Reorganize Files parameter is \*YES, the TRKFNF file is also reorganized.

**Schedule Job**

This field is used to designate whether you want to schedule the command to run as a batch job at a later time. The default value is “\*NO”. If the value is “\*YES”, the system displays the Schedule Job panel (SCHJOB), which contains the job run parameters.

**Process Name**

This parameter allows you to uniquely identify the command or job flow in the Message Center. The default is the command name. It can be modified to any 15-byte alphanumeric value to further identify this process in the Message Center. The process name displays on the Work with Message Center panel and always tracks under this name.

## Purge the Network Status File

The Purge Network File (PRGNET) command is used to purge data from the Network Status file (TRKFNF), when the data has not been purged via the Purge Audit command.

If the default value, \*YES, is used on the Network Status (NETSTS) parameter when you run the PRGAUD command, the network records are purged automatically when a corresponding audit interchange record is purged. In this case, you may only need to run the PRGNET command one time to purge any unmatched records.

If \*NO is specified on the NETSTS parameter when you run the PRGAUD command, run the PRGNET command on a routine basis to purge unmatched records.

If you do not receive network reports in data format for these networks, there is no need to run the PRGNET command.

- COMMERCE:Network
- Advantis
- GEIS
- INS TRADANET
- Telekom

To access the PRGNET command, select option '12' from the GENAUD menu or option '42' from the Work with Audit Interchange panel (EDIX251).

### Enter Purge Options

This step involves selecting purge options and submitting the PRGNET command to run interactively, submitting it to batch, or scheduling it to run at a later time using the Job Scheduler.

To use the Purge Network Status File (PRGNET) command, select purge criteria (refer to the parameter definitions that follow) and press **Enter**.

This figure illustrates the Purge Network Status File Command panel (PRGNET) with additional parameters displayed.

```

Purge Network Status File (PRGNET)

Type choices, press Enter.

Selection Criteria for Purge . . . *ALL          Date, *DAYS, *ALL
Network Status . . . . . *UNMATCHED      *UNMATCHED, *ALL, *RECONCILED
Purge Method? . . . . . *NONE          *TAPE, *SAVF, *NONE, *CL

                          Additional Parameters

Run Interactively? . . . . . *NO          *YES, *NO
Reorganize Files? . . . . . *YES         *YES, *NO
Schedule Job? . . . . . *NO           *YES, *NO
Process Name . . . . . PRGNET

                                                                    Bottom
F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display
F24=More keys

```

Figure 7.57 Purge Network Status File command panel (PRGNET)



#### NOTE

Any Network Status data purged to tape or save file using the PRGNET command can be retrieved using the Retrieve Network file (RTVNET) command. The data is added back to the Network Status file (TRKFNF) on the retrieve.

## Parameter Definitions for the Purge Network Status File (PRGNET) Command

### Selection Criteria for Purge

This is a 10-position alphanumeric field used to define a purge date. You can enter a date range (\*DATE). The system will display two additional prompt lines, enabling you to enter a From and To date. Enter '\*ALL' to purge before and including the current date. When \*DAYS is specified and the Enter key is pressed, the system displays this prompt line:

```
DAYS TO RETAIN ON FILE... 0
```

This allows you specify the number of days to keep on the file. If '1' is specified, only the current date is kept. If '0' is specified, all data is considered for the purge, including the current date.

**Network Status**

This is a 11-position alphabetic field used to define the network status for which network records are to be deleted. The default is \*UNMATCHED.

The valid values for this field are:

- \*UNMATCHED Purge those records that do not have a corresponding audit interchange record on the AUDREC file.
- \*ALL Purge all records.
- \*RECONCILED Purge those records which have been reconciled to the audit (a corresponding audit interchange record exists on the AUDREC file).

**NOTE**

---

Corresponding records are matched between the Audit file (AUDREC) and the Network Status file (TRKFNF) using the audit interchange partner and the network receiver partner as well as the interchange control number.

---

**Purge Method**

This is an alphanumeric field used to indicate whether the purged records should be saved. Valid values are:

- \*TAPE Use when you want the data saved to tape.
- \*CL Use when you want the data saved to tape and the PRGNET command is being called from a CL. This differs from \*TAPE by bypassing the tape edits until runtime.
- \*SAVF Use when you want the data to be saved to a save file.
- \*NONE Use when the data is not to be saved.

If you specify \*TAPE or \*CL, additional parameters display to qualify the tape operations such as: Device name, initialization of the tape with a volume identifier and tape density, and the end of tape option. However, when using \*CL, tape checks do not occur until the program runs.

If you specify \*SAVF, the system prompts you to enter the name of the save file and the library where the save file is located.

**Run Interactively**

This field is accessed by displaying additional parameters using F10 (Additional Parameters). It allows you to perform the process interactively. If you select to run the command in an interactive mode, you can monitor system messages that occur during processing. However, if you choose this option, your terminal is locked until the processing is complete.

**NOTE**

---

If Run Interactively is \*NO and Schedule Job is \*NO, the job is submitted to batch to run immediately.

---

**Reorganize Files?**

This is a 4-position alphanumeric field used to designate whether the Network Status file is to be reorganized (RGZPFM) after the file has been purged. Reorganizing the file can reclaim storage from the deleted records. The default is \*YES.

**Schedule Job?**

This field is used to designate whether you want to schedule the command to run as a batch job at a later time. The default value is \*NO. If the value is \*YES, the system displays the Schedule Job (SCHJOB) command panel, which contains the job run parameters.

**Process Name**

This is a 15-position alphanumeric field used to designate the name to use when logging job-processing information into the Message Center. The default is the command name (PRGNET), but you can customize the name which is useful when the command is run with varying criteria.



## Retrieve the Audit File

The Retrieve Audit File (RTVAUD) command is used to retrieve and load data that has been previously purged to tape or save file using the PRGAUD or AUDITPURGE command. Data for both the Audit file (AUDREC) and the Network Status file (TRKFNF) are restored if any exists. If the Network Status records were not selected to be purged with the audit data, no data is restored to the TRKFNF file.

To access the RTVAUD command:

- Select option '15' on the GENAUD menu
- Select option '43' on the Work with Audit Interchange (EDIX251) panel
- Select option '42' on the Work with Audit Group (EDIX252) panel.

The command displays as shown in the following figure.

```

Retrieve Audit Files from Tape (RTVAUD)

Type choices, press Enter.

Audit File . . . . . AUDREC      Character value
Network Status File . . . . . TRKFNF    Character value
Library . . . . . G3X6DTA      Character value
Retrieve Method . . . . . _____    *TAPE, *SAVF

Additional Parameters

Run Interactively? . . . . . *NO      *YES, *NO

F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
Bottom

```

Figure 7.58 Retrieve the Audit File (RTVAUD) Command

Press **F1** (Help) on any parameter for additional information. Press **Enter** to submit.

## Retrieve the Network Status File

The Retrieve Network Status File (RTVNET) command is used to retrieve and load data that has been previously purged to tape or save file using the PRGNET command. Data for the Network Status file (TRKFNF) is restored.

To access the Retrieve Network File command (RTVNET):

- Select option '16' on the GENAUD menu
- Select option '44' on the Work with Audit Interchange Status panel (EDIX251)

The command panel displays as shown in the following figure.

```

Retrieve Network from Tape (RTVNET)

Type choices, press Enter.

Network File . . . . . TRKFNF      Character value
Library . . . . . G3X6DTA      Character value
Retrieve Method . . . . .             *TAPE, *SAVF

                Additional Parameters

Run Interactively? . . . . . *NO      *YES, *NO

                                                    Bottom
F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display
F24=More keys

```

Figure 7.59 Retrieve the Network File (RTVNET) Command

Press **F1** (Help) on any parameter for additional information. Press **Enter** to submit or **F12** (Cancel) to cancel the command.

## Purge Audit by Partner

The Purge Audit by Partner (AUDITPURGE) command is used to purge data from the audit and network status files using selection criteria from this command with the purge parameters defined for each partner in the partner file.



### CAUTION

This command is used as an alternative to the PRGAUD command and should only be run once you have confirmed the purge criteria specified for each partner in the partner file is valid.

To access the AUDITPURGE command:

- Select option '11' on the GENAUD menu
- Select option '41' on the Work with Audit Interchange (EDIX251) panel or the Work with Audit Group (EDIX252) panel.

The command displays as shown in the following figure.

```

                                Purge Audit by Partner (AUDITPURGE)

Type choices, press Enter.

Purge Network Status . . . . . *YES          *YES, *NO
Purge Method? . . . . . *NONE          *TAPE, *SAVF, *NONE, *CL

                                Additional Parameters

Run Interactively ? . . . . . *NO          *YES, *NO
Reorganize Files? . . . . . *YES          *YES, *NO
Schedule Job? . . . . . *NO          *YES, *NO
Process Name . . . . . AUDITPURGE

                                                                Bottom
F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display
F24=More keys
  
```

Figure 7.60 Purge Audit by Partner (AUDITPURGE) Command

---

## Parameter Definitions for the Purge Audit by Partner (AUDITPURGE) Command

### Purge Network Status

A 4-position alphanumeric field used to indicate whether corresponding Network Status records should be purged. When \*YES is selected, the interchange records are purged from the AUDREC file and the corresponding network status record is purged from the TRKFNF file, if any exist. The default value is \*YES.

### Purge Method

This is an alphanumeric field used to designate whether the purged records should be saved. Valid values are:

\*TAPE      Saves data to tape

\*CL         Saves data to tape and the AUDITPURGE command is being called from a CL program. This parameter bypasses the tape edits until runtime.

\*NONE      Data is not to be saved. This is the default value.

If \*TAPE or \*CL are specified, additional parameters are displayed to qualify the tape operations including Device Name, initialization of the tape with the volume identifier and tape density, and the end of tape option. Tape checks do not occur until the program is run when \*CL is specified.

If you specify \*SAVF, the system prompts you to enter the name of the save file and the library where the file is located.



---

#### NOTE

This option saves only the purged records to either tape or a save file. It does not save all the contents of the Audit file and Network Status file.

---

### Run Interactively?

This field is accessed by displaying additional parameters using **F10** (Additional Parameters). It allows you to perform the process interactively. When you select the command in an interactive mode, you can monitor system messages that occur during processing. When you choose this option, your terminal is locked until the process is complete.



---

#### NOTE

If Run Interactively is \*NO and Schedule Job is \*NO, the job is submitted to batch to run immediately.

---

### Reorganize Files?

This is a 4-position alphanumeric field used to designate whether the Audit (AUDREC) and Network Status (TRKFNF) files should be reorganized (RGZPFM) after the files have been purged. If the Purge Network Status parameter is \*NO, the TRKFNF file is not reorganized. Reorganizing the files can reclaim storage from the deleted records. The default is \*YES.

# Reports

## EBDI008 – Audit File Report

### Contents of the Report

The Audit File Report prints audit information that was previously logged in the Audit file as a result of activating the Audit global parameters during the inbound and/or outbound processing jobs (PRCTRININ/PRCTRNOOUT). This information includes:

- Interchange Level Status Information
- Group Level Status Information
- Transaction Level Status Information

### How to Identify the Report

The name of the Sterling Gentran:Server program that generates this report (EBDI008) displays in the upper left corner of the report. You may select both detail and summary. If both are selected, the detail section prints first. In the detail section, the report title “Sterling Gentran Audit Detail Report” is centered at the top of the report. “Sterling Gentran Audit Summary Report” is printed for the summary section. The identifier “EBDI008” also displays in the User Data field associated with the spooled report in the Output Queue.

### How to Generate the Report

This is a *user-generated* report. It is submitted in one of five ways:

- From the GENAUD menu by selecting option ‘5’ (Print Audit Report).
- From the Work with Audit Interchange Status panel (EDIX251-FMT01) by selecting option ‘30.’
- From the Work with Audit Group Status panel (EDIX252-FMT01) by selecting option ‘30.’
- From the Work with Audit Transaction Status panel (EDIX253-FMT01) by selecting option ‘30’
- From the command line by prompting the ‘PRTAUD’ command.

In all cases, you can use selection criteria to limit the information on the report by selecting any of the following combinations:

- Standard or Network Report
- Detail, Summary or both
- Select Documents to Print (Sent/Received)
- Reported Status
- Acknowledgment Status
- Age Selection Type
- Partner ID and Qualifier
- Division
- Network Status

### Special Considerations

Like all other Sterling Gentran:Server reports, the Audit File Report automatically goes to your default iSeries Output Queue as defined in the Environment Control subsystem.

### Field Definitions

Since the Audit File Report is virtually a “snapshot” of the on-line Audit file, you can refer to the on-line Audit file for field information. (SEE the topic “Field Definitions” in the online documentation for more detailed information of the fields listed on the report.)

EBDI008	RUN DATE 04/30/11	STERLING GENTRAN AUDIT DETAIL REPORT	ALL RECEIVED ACTIVITY	RECEIVED INBOUND	QUAL: *ALL	DIVISION: *ALL	CHAR. COUNT	DOC INFO/	PAGE 1					
EBDI008	RUN DATE 04/20/00	STERLING GENTRAN AUDIT DETAIL REPORT	ALL RECEIVED ACTIVITY	RECEIVED INBOUND	QUAL: *ALL	DIVISION: *ALL	CHAR. COUNT	DOC INFO/	PAGE 3					
EBDI008	RUN DATE 04/20/00	STERLING GENTRAN AUDIT SUMMARY REPORT	ALL RECEIVED ACTIVITY	RECEIVED INBOUND	QUAL: *ALL	DIVISION: *ALL	CHAR. COUNT	DOC INFO/	PAGE 4					
NETWORK STATUS: *ALL	PARTNER ID: C135*	ENVELOPE	REFERENCE ID	DATE	TIME	STS	DATE	TIME	SND/RCV	ACPTD	SETS	COUNT	AUDIT	INDICATOR
INTERNATIONAL PARTS & SERVICE	00000001	04-30-11	11:51									480		
INTERNATIONAL PARTS & SERVICE	00000001	04-30-11	11:51								2	358		01120001
TRAN ID: 850	0001	04-30-11	11:51									157		01120030
TRAN ID: 850	0002	04-30-11	11:51									127		01120030
TRANSACTIONS:														
INTERCHG TOTALS:														
GROUPS:	1													
TRANSACTIONS:	2													
PARTNER TOTALS:														
INTERCHANGES:	1													
GROUPS:	1													
TRANSACTIONS:	2													
FINAL INTERCHANGE TOTALS:	1													
FINAL GROUP TOTALS:	1													
FINAL TRANSACTION TOTALS:	2													
ENVELOPE	REFERENCE ID	QUAL	ENVELOPE	DATE	TIME	ACK	NET	COMM	DATE	TIME	TRANS	COUNT		
00000001			00000001	03/23/11	11:51						1	480		
00000001			00000001	03/23/11	11:51							358		
0001			0001	03/23/11	11:51							157		
0002			0002	03/23/11	11:51							127		
*** END OF REPORT ***														
IBM														

Figure 7.61 EBDI008 – Audit File Report

## EBDI258 – Print Overdue Acknowledgment Report

### Contents of the Report

The Overdue Acknowledgment Report prints audit information for documents that have not been acknowledged within the given time frame. The overdue acknowledge date and time is forecasted based upon the date/time the outbound transaction is generated and the number of hours and minutes that are specified on the partner transaction record.

### How to Identify the Report

The name of the Sterling Gentran:Server program that generates this report (EBDI258) displays in the upper left corner of the report. You may select a detail report or a summary report. When you select detail, the system prints interchange, group, and transaction information for any document that is overdue. When you select summary, the system prints only the interchange information for the overdue documents. The identifier “EBDI258” also displays in the User Data field associated with the spooled report in the Output Queue.

### How to Generate the Report

This is a user-generated report. You can submit it in one of two ways:

- From the GENAUD menu, select option '7' (Print Overdue Acknowledgments).
- From the command line, type 'PRTOVRACK'.

In all cases, you can use selection criteria to limit the information on the report by selecting any of the following combinations:

- Detail or Summary
- Reported Status
- Current or Projected Overdue documents
- Partner ID and Qualifier
- Division

### Special Considerations

Like all other Sterling Gentran:Server reports, the Overdue Acknowledgment Report automatically goes to your default iSeries Output Queue as defined in the Environment Control subsystem.

### Field Definitions

Since the Overdue Acknowledgment Report is virtually a “snapshot” of the on-line Audit file, you can refer to the on-line Audit file for field information. (SEE the topic “Field Definitions” in the online documentation for more detailed information of the fields listed on the report.)

EBDI258	RUN DATE 04/30/2011	Sterling Gentran OVERDUE ACKNOWLEDGMENT REPORT				RUN TIME 12:00:00	PAGE 1	
PARTNER ID	QUAL	ENVELOPE REFERENCE ID	DATE	CREATED TIME	STATUS NET COMM	DATE	REPORT STATUS: *ALL	CHAR. COUNT
			---	---	---	---	OVERDUE	
MAZ PARTNER		00000507	2003/08/13	12:58	SN	2003/08/13	14:58	263
MAZ PARTNER		000005091	2003/08/28	11:08	Q	2003/08/01	14:55	265
MAZ PARTNER		00000089	2003/08/27	11:12	Q	2003/08/01	14:55	137
MAZ PARTNER		00000088	2003/08/27	11:09	Q	2003/08/01	14:55	137
MAZ PARTNER		00000087	2003/08/27	11:07	Q	2003/08/01	14:55	137
MAZ PARTNER		000005090	2003/08/26	12:27	R	2003/08/01	12:27	1610
MAZ PARTNER		000005089	2003/08/26	12:21	Q	2003/08/01	12:21	899
MAZ PARTNER		000005088	2003/08/21	17:48	Q	2003/08/01	17:48	899
MAZ PARTNER		000005086	2003/08/21	17:39	Q	2003/08/01	17:39	899
MAZ PARTNER		000005083	2003/08/21	16:40	Q	2003/08/01	16:40	899
MAZ PARTNER		000005082	2003/08/19	15:13	Q	2003/08/01	03:43	899
MAZ PARTNER		000005081	2003/08/08	17:25	SN	2003/08/01	05:55	896
MAZ PARTNER		000005080	2003/08/08	17:24	H	2003/08/01	14:55	896
MAZ PARTNER		000005079	2003/08/08	17:10	H	2003/08/01	05:40	896
MAZ PARTNER		000005078	2003/08/08	17:02	H	2003/08/01	05:32	896
MAZ PARTNER		000005075	2003/08/08	16:21	H	2003/08/01	16:51	896
MAZ PARTNER		00000068	2003/08/08	15:04	H	2003/08/01	18:34	896
MAZ PARTNER		00000062	2003/07/23	11:00	SN	2003/08/01	14:55	297
MAZ PARTNER		00000061	2003/07/01	10:59	SN	2003/08/01	14:55	319
MAZ PARTNER		00000060	2003/07/01	10:57	SN	2003/08/01	14:55	319
MAZ PARTNER		00000059	2003/04/30	17:22	SN	2003/08/01	14:55	297
MAZ PARTNER		00000058	2003/04/30	16:44	SN	2003/08/01	14:55	297
MAZ PARTNER		00000057	2003/04/30	16:26	SN	2003/08/01	14:55	318
MAZ PARTNER		00000056	2003/04/30	16:16	SN	2003/08/01	14:55	318
MAZ PARTNER		00000055	2003/04/30	16:12	SN	2003/08/01	14:55	318
MAZ PARTNER		00000054	2003/04/30	16:11	SN	2003/08/01	14:55	318
MAZ PARTNER		00000053	2003/04/30	16:10	SN	2003/08/01	14:55	321
MAZ PARTNER		00000052	2003/04/30	16:09	SN	2003/08/01	14:55	321
MAZ PARTNER		00000051	2003/04/30	14:55	SN	2003/08/01	14:55	308
MAZ PARTNER		00000049	2003/04/30	14:51	SN	2003/08/01	14:55	308
MAZ PARTNER		00000048	2003/04/30	14:50	SN	2003/08/01	14:55	311
MAZ PARTNER		00000047	2003/04/30	14:43	SN	2003/08/01	14:55	311
MAZ PARTNER		00000045	2003/04/30	14:42	SN	2003/08/01	14:55	311
MAZ PARTNER		00000044	2003/04/30	14:41	SN	2003/08/01	14:55	311
MAZ PARTNER		00000037	2003/04/29	15:56	SN	2003/08/01	14:55	8137
MAZ PARTNER		00000036	2003/04/29	15:55	SN	2003/08/01	14:55	8137
MAZ PARTNER		00000035	2003/04/29	15:54	SN	2003/08/01	14:55	8137
MAZ PARTNER		00000033	2003/04/29	10:28	H	2003/08/01	14:55	564
MAZ PARTNER		00000032	2003/04/29	09:56	SN	2003/08/01	14:55	564
MAZ PARTNER		00000031	2003/04/29	09:51	SN	2003/08/01	14:55	564
MAZ PARTNER		00000030	2003/04/29	09:48	SN	2003/08/01	14:55	564
MAZ PARTNER		00000028	2003/01/13	15:18	SN	2003/08/01	14:55	564
MAZ PARTNER		00000027	2003/01/13	15:14	SN	2003/08/01	14:55	9727
MAZ PARTNER		00000023	2003/01/07	14:49	SN	2003/08/01	14:55	1776
MAZ PARTNER		00000022	2003/01/07	14:47	SN	2003/08/01	14:55	1776
MAZ PARTNER		00000016	2002/11/15	17:15	SN	2003/08/01	14:55	137
MAZ PARTNER		00000073	2002/11/15	17:15	H	2003/08/01	14:55	137
MAZ PARTNER		00000072	2002/10/22	15:54	SN	2003/08/01	14:55	215
MAZ PARTNER		00000083	2002/10/22	14:57	SN	2003/08/01	14:55	3244
MAZ PARTNER		00000081	2002/10/22	14:35	SN	2003/08/01	14:55	3244

Figure 7.62 EBDI258 – Print Overdue Acknowledgement Report – Summary



EBDI258	RUN DATE	04/30/2011	Sterling Gentran OVERDUE ACKNOWLEDGMENT REPORT	RUN TIME	12:00:00	PAGE	1
PARTNER ID: *ALL ENVELOPE REFERENCE ID QUAL: *ALL DIVISION: *ALL REPORT STATUS: *ALL --OVERDUE INFO-- STATUS CHAR. DOC INFO/ COUNT AUDIT INDICATOR INTERCHANGE CONTROL # 00000507							
INTERCHG PARTNER:	KROGER						
GROUP PARTNER:	MKPARTNER						
GROUP- ID:	PO	2011/08/13 12:58	2011/08/13 14:58	SN	79	141	
TRAN ID:	850	2011/08/13 12:58	2011/08/13 14:58	SN	79	111	
TRANSACTIONS: 1							
PARTNER TOTALS:							
INTERCHANGES:							
GROUPS:	1						
TRANSACTIONS:	1						
INTERCHG PARTNER:	MZ PARTNER						INTERCHANGE CONTROL # 000005091
GROUP PARTNER:	MZ PARTNER						
GROUP- ID:	FA	2011/08/28 11:08	2011/08/13 14:58	SN	143	111	
TRAN ID:	997	2011/08/28 11:08	2011/08/01 14:55	Q	79		
TRANSACTIONS: 1							
INTERCHG PARTNER:							
GROUP PARTNER:	MZ PARTNER						INTERCHANGE CONTROL # 000000089
GROUP- ID:	FA	2011/08/27 11:12	2011/08/01 14:55	Q	137		
TRAN ID:	997	2011/08/27 11:12	2011/08/01 14:55	Q	79		
TRANSACTIONS: 1							
INTERCHG PARTNER:							
GROUP PARTNER:	MZ PARTNER						INTERCHANGE CONTROL # 000000088
GROUP- ID:	FA	2011/08/27 11:09	2011/08/01 14:55	Q	137		
TRAN ID:	997	2011/08/27 11:09	2011/08/01 14:55	Q	79		
TRANSACTIONS: 1							
INTERCHG PARTNER:							
GROUP PARTNER:	MZ PARTNER						INTERCHANGE CONTROL # 000000087
GROUP- ID:	FA	2011/08/27 11:07	2011/08/01 14:55	Q	137		
TRAN ID:	997	2011/08/27 11:07	2011/08/01 14:55	Q	79		
TRANSACTIONS: 1							
INTERCHG PARTNER:							
GROUP PARTNER:	MZ PARTNER						INTERCHANGE CONTROL # 000005090
GROUP- ID:	PO	2011/08/26 12:37	2011/08/01 14:55	Q	1488		
TRAN ID:	850	2011/08/26 12:37	2011/08/01 14:55	Q	1488		
TRANSACTIONS: 1							
PARTNER ID: *ALL							
ENVELOPE REFERENCE ID							
QUAL: *ALL DIVISION: *ALL REPORT STATUS: *ALL							
--OVERDUE INFO-- STATUS CHAR. DOC INFO/ COUNT AUDIT INDICATOR							
TRAN ID:	810	2011/08/26 12:43	2011/08/01 12:43	R	711	0282	
	810	2011/08/26 12:40	2011/08/01 12:40	R	711	0281	
	810	2011/08/26 12:37	2011/08/01 12:37	R	711	0279	
	810	2011/08/26 12:37	2011/08/01 12:37	R	711	0040	
	810	2011/08/26 12:34	2011/08/01 12:34	R	711	0278	
	810	2011/08/26 12:34	2011/08/01 12:34	R	711	0039	

Figure 7.63 EBDI258 – Print Overdue Acknowledgement Report – Detail

# EBDI078 – Sterling Gentran EDI Data Print Report

## Contents of the Report

This report contains control information and data contained in the audit files.

## How to Identify the Report

The name of the Sterling Gentran:Server program that generates this report (EBDI078) displays in the upper left-hand corner of the actual report. The report title: “Sterling Gentran EDI PRINT REPORT” is centered at the top of the page.

## How to Generate the Report

This report is generated when you press **F21** (Prt Dta) while on the EDI Interchange Inquiry panel (EDIX451), the EDI Group Inquiry panel (EDIX452), or the EDI Transaction Inquiry panel (EDIX453). This report may also be generated by selecting option ‘6’ while on the Work With Audit Interchange Status panel (EDIX251), Work With Audit Group Status panel (EDIX252), Work With Audit Transaction Status panel (EDIX253), or Work with Selected Audit Records panel (EDIX259). The Print EDI Data (PRTEDIDTA) command is shown with the selection criteria pre-loaded for the batch of data chosen, when you select one of the options mentioned above. The end sequence numbers can be altered if the entire batch is not required to print.

This function can also place the EDI data into an output file specified by the user if desired. To place the EDI data into an output file, change the ‘OUTPUT’ option to \*OUTFILE and enter the related file information. This will direct the output to the file instead of the printer.

## Special Considerations

The EDI data is printed in an unwrapped format, with each segment starting a new line. If non-EDI data is printed (no valid interchange found for the start record sequence specified), the data is not unwrapped and is printed “as is.”

When printing the ‘BIN’ segment, binary data itself will not be printed. It will be replaced with ‘\*\*\*\*\*BINARY DATA HERE\*\*\*\*\*’.

## Fields on the EDI Print Report (EBDI078)

The fields on the report are defined as follows:

Field Names	Description
Comm Profile	Displays the Comm Profile for the batch of data that is printing.
Batch Number	Displays the batch number range that is printing on the report.
Seq. Number	Displays the record Sequence number range that is printing on the report.
Batch Sequence	Displays the batch number of data that follows.

```

EBDI078                                     Sterling Gentran EDI PRINT REPORT
COMM PROFILE: CN3BSC                         BATCH NUMBER 2 THRU 2          PAGE 1
              INBOUND 2                      *991012*150          1 THRU 999999
              BATCH SEQUENCE:                *01*123456789
ISA*00*                                       *01*987654321
I*U*00400*000000001*0*T*#?
GS*PO*987654321*123456789*19991012*1500*000000001*X*004010?
ST*850*0001?
BEG*00*NE*01120001**19991012?
NI*SF*XX**100?
PO1**10*EA*5.12**PI*PART-123?
PO1**30*CA*10.0**PI*PART-456?
PO1**5*CA*8.25**PI*PART-789?
CTT*3?
SE*8*0001?
ST*850*0002?
BEG*00*NE*01120030**19991017?
NI*SF**3*200?
NI*SF**3*200?
PO1**20*BX*9.5**PI*PART-123?
PO1**500*CA*22.79**PI*PART-4?
CTT*2?
SE*7*0002?
GE*2*000000001?
IEA*1*000000001?

```

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Figure 7.64 Sterling Gentran EDI Data Print Report (EBDI078)

---

# EBDI259A – Selected Audit Records Report

## Contents of the Report

The Selected Audit Records Report contains information about the Audit and communications records that matched the specific selection criteria used to search the Audit file. This information includes:

- Partner ID and Qualifier
- Envelope Reference ID and Transaction ID
- Audit Indicator (Document ID, such as purchase order number)
- Communications queue information to locate the data in the mailbox.

## How to Identify the Report

The program name, EBDI259A, displays in the upper left corner of the report. The report title, “Selected Audit Records Report” is centered at the top of the report. The identifier “EBDI259A” also displays in the User Data field associated with the spooled report in the iSeries output queue.

## How to Generate the Report

This is a user-generated report. It can be generated by selecting option ‘1’ (Audit Search Utility) on the Work with Audit menu (GENAUD) and specifying ‘\*PRINT’ for the Output parameter. It can also be generated by pressing **F21** (Print Results) on the Work with Selected Audit Records panel (EDIX259-FMT01).

## Special Considerations

If no Audit and Communications records were found that matched the selection criteria you specified, the total record count will be ‘0’; however the selection criteria is printed to help you when re-selecting data.

### NOTE

---

The corresponding EDI data for the Audit tracking level must still reside in the communications queue for a match to be found. Selection occurs by first joining the Audit file with the communications queues and then searching for matching records. You must be logging data in the Audit file during processing for this search to be successful.

---

```
EBDI259A      RUN DATE: 04/30/11      SELECTED AUDIT RECORDS REPORT      Page: 1
                                         REPORT SELECTION      RUN TIME: 12:00:00

SELECTION CRITERIA
-----
Direction . . . . .: *IN
Audit Level . . . . .: *TRAN
Partner ID Beginning with . . . . .: *ALL
Doc Info (eg PO#) Containing . . . . .: *ALL
Transaction ID Beginning with . . . . .: *ALL
Group ID Beginning With . . . . .: *ALL
Acknowledgment Status . . . . .: *ALL
Older Than or Equal to . . . . .: *ALL
From Date . . . . .: *BEGIN
To Date . . . . .: *END
Print Envelope Info? . . . . .: *No
Comm Batch Status . . . . .: *ALL
Comm Queue Records Containing . . . . .: *ALL
```

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Figure 7.65 Selected Audit Records Report (EBDI259A) Report Selection Criteria

Page: 2

RUN TIME: 12:00:00

SELECTED AUDIT RECORDS REPORT  
DETAIL SECTION

Audit Level: TRANSACTION

Direction: OUTBOUND

Partner ID	Qual	Create Date	Audit ID	Tran ID	Ack Sts	Envelope Reference ID	Profile ID	Seq	Doc	Info
COFFEE DIST		04-30-11	ORDERS	810	A	00000000000137	CN3BSC	146		25227801
COFFEE DIST		04-30-11	ORDERS	810	A	00000000000137	CN3BSC	152		1234567890123
COFFEE DIST		04-30-11	ORDERS	810	E	00109	TPBSC	88		00112251
TPCOMPANY	ZZ	04-30-11	810			000000317	TPBSC	89		00112251
TPCOMPANY		04-30-11	810		U	00109	TPBSC	87		00112251
TPCOMPANY		04-30-11	810				TPBSC	87		00112251
TPCOMPANY		04-30-11	810				TPBSC	81		00112251
TPCOMPANY	ZZ	04-30-11	810			000000345	TPBSC	80		00112251
TPCOMPANY		04-30-11	810			000000345	TPBSC	80		00112251
TPCOMPANY		04-30-11	810				TPBSC	81		00112251
TPCOMPANY		04-30-11	810				TPBSC	78		00112251

TOTAL AUDIT RECORDS SELECTED: 12

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Figure 7.66 Selected Audit Records Report (EBDI259A) Detail Section

## Field Descriptions

Field Name	Description
Report Section	
Selection Criteria	These are all the possible selection that can be made for the search and the values chosen for this report.
Detail Section	
Direction	Identifies the direction chosen for this search. Either inbound for data received from your partners, or outbound for data sent to your partners.
Audit Level	The level from the Audit that was selected for the search: transaction, group, or interchange.
Partner ID/Qual	The Partner ID and qualifier for the EDI data that was logged in the Audit file during translation processing. If relationship mode auditing is active, the Partner ID will be a relationship ID of the User ID and Partner ID.
Audit Create Date	The date shown in the user's date format as defined in the Environment Control file that the data was processed and logged in the Audit file.
Tran ID/Group ID	The Transaction or Message ID for the data selected. If the Audit level is interchange, the field is blank.
Ack Sts	The Acknowledgment Status code for the Audit level selected.
Envelope Reference ID	The EDI envelope control number or reference number for the Audit level selected. For example, if the Audit level is Transaction, this is the transaction envelope's control number (such as ST02).
Communications Profile	The Profile ID under which the data is stored in the inbound or outbound communications queue.
Communications Status	The status code for the batch of data residing in the inbound or outbound communications queue. It can reflect whether the data has been transmitted or processed yet.
Document Information	This refers to the Audit Indicator field which identifies one piece of information in the document, such as the purchase order or invoice number.

Figure 7.67 Fields on the Selected Audit Records Report (EBDI259A)

---

# EBDI008B – Network Reconciliation Status Report

## Contents of the Report

The Network Reconciliation Status Report is designed to report the status of items that were sent to the network or items that have been sent, but not yet reported from the network. These items will either have a status of received, picked up, processed, error, or no status. The report includes these items:

- Partner ID, Qualifier, and Partner Name
- Interchange Control Reference Number
- Created Date and Time of the interchange
- Character count in the interchange
- Date and Time of the status
- Error count and description

## How to Identify the Report

The name of the Sterling Gentran:Server program that generates the report (EBDI008B) displays in the upper left corner of the report. The report title, Network Reconciliation Status Report, is centered at the top of the report. The identifier, EBDI008B, also displays in the User Data field associated with the spooled report in the Output Queue.

## How to Generate the Report

There are three ways to generate the report.

1. Select option '6', Print Network Status (PRTNETSTS) on the GENAUD menu.
2. Select option '32' (Print Network) on the Work with Audit Interchange panel (EDIX251).
3. Type PRTNETSTS on the command line and press **F4** (Prompt).

In all cases, you can use selection criteria to limit the information on the report by selecting any of the following combinations:

- Network Status
- Age Selection Type
- Reported Status
- Division



## Special Considerations

Like all other Sterling Gentran:Server reports, the Network Reconciliation Status Report automatically goes to your default iSeries Output Queue as defined in the Environment Control subsystem.

## Fields on the PRTNETSTS Report (EBDI008B)

The table below lists and describes the fields on the report.

Field	Description
Partner ID and Qual	Displays the partner ID and qualifier in the interchange envelope of the particular document.
Name	Displays the name of the partner.
Reference No.	This is the interchange control number in the interchange envelope of the particular document.
Created Date and Time	Lists the date and time that the document was created.
Char Count	Displays the number of characters in the document.
Network Status Date and Time	Lists the date and time the status has occurred.
Error Cnt	Provides the number of errors that have occurred.
Total Number of Interchanges	Lists the total number of items printed on the report.

```

EBDI008B          NETWORK RECONCILIATION STATUS REPORT          PAGE 1
RUN DATE: 04/30/11 NETWORK STS: *NONE REPORT SIS: *ALL *      DIVISION *ALL
RUN TIME: 12:00:00 REPORTING PERIOD: 04-30-11 THRU 04/30/11
                                     CHAR COUNT DATE TIME ERROR CNT ERROR DESCRIPTION
REFERENCE NO. CREATED TIME TIME
PARTNER: COFFEE DIST          QUAL:
NAME: COFFEE DIST (INB ORDER-OUT INVOI
0000000000014 04-30-11 15:00 229
PARTNER: IHTEST1          QUAL:
NAME: IHTEST1
0000000000197 04-30-11 11:23 197
0000000000198 04-30-11 11:37 197
0000000000199 04-30-11 14:25 197
PARTNER: IHUNA          QUAL:
NAME: NAME NOT ON PARTNER FILE
0000000000024 04-30-11 11:35 643
0000000000025 04-30-11 11:38 643
0000000000026 04-30-11 11:41 643
0000000000027 04-30-11 11:44 119
0000000000028 04-30-11 12:13 119
PARTNER: MKKPARTNER          QUAL: 01
NAME: MKKPARTNER
000000010 04-30-11 11:01 1.091
TOTAL NUMBER OF INTERCHANGES: 000000010
    
```

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Figure 7.68 Network Reconciliation Status Report (EBDI008B)

## EBDI800 – Network Reconciliation Report (Commerce:Network)

### Contents of the Report

The Network Reconciliation Report is designed to show the status of items that were sent to the network. These items will either have a status of received, picked up, or processed. There are two sections to this report. The first section will list the detail of each item and the associated status. The following items will appear in this section:

- Receiver ID and Qualifier
- Sender ID and Qualifier
- Interchange Reference Number
- Status – Received, Processed, or Picked-up
- Network Error
- Date and Time

The second section will give a list of totals, which includes records read from the network, total items reconciled, total items not reconciled, total items processed, and total items updated.

### How to Identify the Report

The name of the Sterling Gentran:Server program that generates the report (EBDI800) displays at the upper left corner of the report. The report title, “Network Reconciliation Summary”, is centered at the top of the report. The identifier, EBDI800, also displays in the User Data field associated with the spooled report in the Output Queue.

### How to Generate the Report

This program is automatically generated when a network report has been requested and received during a communication session. In order for this to occur, the communication script has to be altered to receive the network report and placed in either the COMNETFIL file or the COMNETFILA file, depending on the network version.

---

## EBDI805 – Network Reconciliation Report (GEIS Network)

### Contents of the Report

The Network Reconciliation Report is designed to show the status of items that were sent to the network. These items will either have a status of received, picked up, or processed. There are two sections to this report. The first section will list the detail of each item and the associated status. The following items will appear in this section:

- Receiver ID and Qualifier
- Sender ID and Qualifier
- Interchange Reference Number
- Status—Received, Processed, or Picked-up
- Date and Time

The second section will give a list of totals, which includes records read from the network, total items reconciled, total items not reconciled, total items processed, and total items updated.

### How to Identify the Report

The name of the Sterling Gentran:Server program that generates the report (EBDI805) displays at the upper left corner of the report. The report title, “Network Reconciliation Summary”, is centered at the top of the report. The identifier, “EBDI805,” also displays in the User Data field associated with the spooled report in the Output Queue.

### How to Generate the Report

This program is automatically generated when a network report has been requested and received during a communication session. In order for this to occur, the communication script has to be altered to receive the network report and placed in file GEISNETFIL.

## EBDI810 – Network Reconciliation Report (IBM Network)

### Contents of the Report

The Network Reconciliation Report is designed to show the status of items that were sent to the network. These items will either have a status of received, picked up, or processed. There are two sections to this report. The first section will list the detail of each item and the associated status. The following items will appear in this section:

- Receiver ID and Qualifier
- Sender ID and Qualifier
- Interchange Reference Number
- Status—Received, Processed, or Picked-up
- Date and Time

The second section will give a list of totals, which includes records read from the network, total items reconciled, total items not reconciled, total items processed, and total items updated.

### How to Identify the Report

The name of the Sterling Gentran:Server program that generates the report (EBDI810) displays at the upper left corner of the report. The report title, “Network Reconciliation Summary”, is centered at the top of the report. The identifier, “EBDI810,” also displays in the User Data field associated with the spooled report in the Output Queue.

### How to Generate the Report

This program is automatically generated when a network report has been requested and received during a communication session. In order for this to occur, the communication script has to be altered to receive the network report and placed in file IBMNETFIL.

### Fields on the Network Reconciliation Reports (EBDI800, EBDI805, and EBDI810)

Field	Description
Receiver ID and Qual	This field lists the receiver ID and qualifier that is in the interchange envelope of the particular document.
Sender ID and Qual	This field lists the sender ID and qualifier that is in the interchange envelope of the particular document.
Reference #	This is the interchange control number that is in the interchange envelope of the particular document.
Status	<p>This field lists the status of the document.</p> <p>Received: The network has received the document.</p> <p>Processed: The network has acknowledged the document and it is ready to be picked up by the receiver.</p> <p>Picked-up: The customer has received the document.</p> <p>Obsolete: The document has been processed again with no change in status.</p>
Network Error	This only appears on the EBDI800 report and will list any problem that occurred at the network.
Date and Time	This field lists the date and time the status has occurred.
Records read from network	This field lists the total number of input records read from the network report.
Total items reconciled	This field lists the total number of items that had a change in status.
Total items not reconciled	This field lists the total number of items where the status change was obsolete.
Total items processed	This field lists the total number of records updated in the network reconciliation file (TRKFNF).
Total items updated	This field lists the total number of items that have never been updated before in the network reconciliation file (TRKFNF).

RECEIVER ID	QUAL	SENDER ID	QUAL	REFERENCE #	STATUS	ERROR	DATE	TIME
456889999		COFFEE DIST		00000746	RECEIVED		04/30/11	12:00:00
8894547638		COFFEE DIST		00000350	RECEIVED		04/30/11	12:00:00
AB0510933		COFFEE DIST		00000193	RECEIVED		04/30/11	12:00:00
RS41541677		COFFEE DIST		00001751	RECEIVED		04/30/11	12:00:00
8845501400		COFFEE DIST		00000027	RECEIVED		04/30/11	12:00:00
AB5561310		COFFEE DIST		00000380	RECEIVED		04/30/11	12:00:00
7145564673		COFFEE DIST		00000378	RECEIVED		04/30/11	12:00:00
TS0505842		COFFEE DIST		00001945	RECEIVED		04/30/11	12:00:00
108440745		COFFEE DIST		00001359	RECEIVED		04/30/11	12:00:00
GF4523528		COFFEE DIST		00000055	RECEIVED		04/30/11	12:00:00
512483353		COFFEE DIST		00003565	RECEIVED		04/30/11	12:00:00

PROCESSING SUMMARY	
RECORDS READ FROM NETWORK FILE	: 40
TOTAL ITEMS RECONCILED	: 11
TOTAL ITEMS NOT RECONCILED	: 0
TOTAL ITEMS PROCESSED	: 0
TOTAL ITEMS UPDATED	: 11

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Figure 7.69 Network Reconciliation Report (EBDI800)

---

# RPLCHARD – Sterling Gentran Find and Replace Characters Report

## Contents of the Report

This report displays based on the command the report generated, including:

- Locations of the input and output data
- Record number for which the data record containing the character modified and modified to
- Hexadecimal values entered for the find and replace

## How to Identify the Report

The identifier 'RPLCHARS' is printed in the upper, left corner of the report. The report title, "Sterling Gentran Find and Replace Characters Report," is printed in the center at the top of the report. The identifier, RPLCHARDS, is also printed in the User Data field associated with the spooled report in the Output Queue.

## How to Generate the Report

This is a user-generated report. You can generate report by prompting the RPLCHARS on the command line or on the REQUEUE command by specify '\*YES' on the HEXREPL (replace HEX Characters?) field.



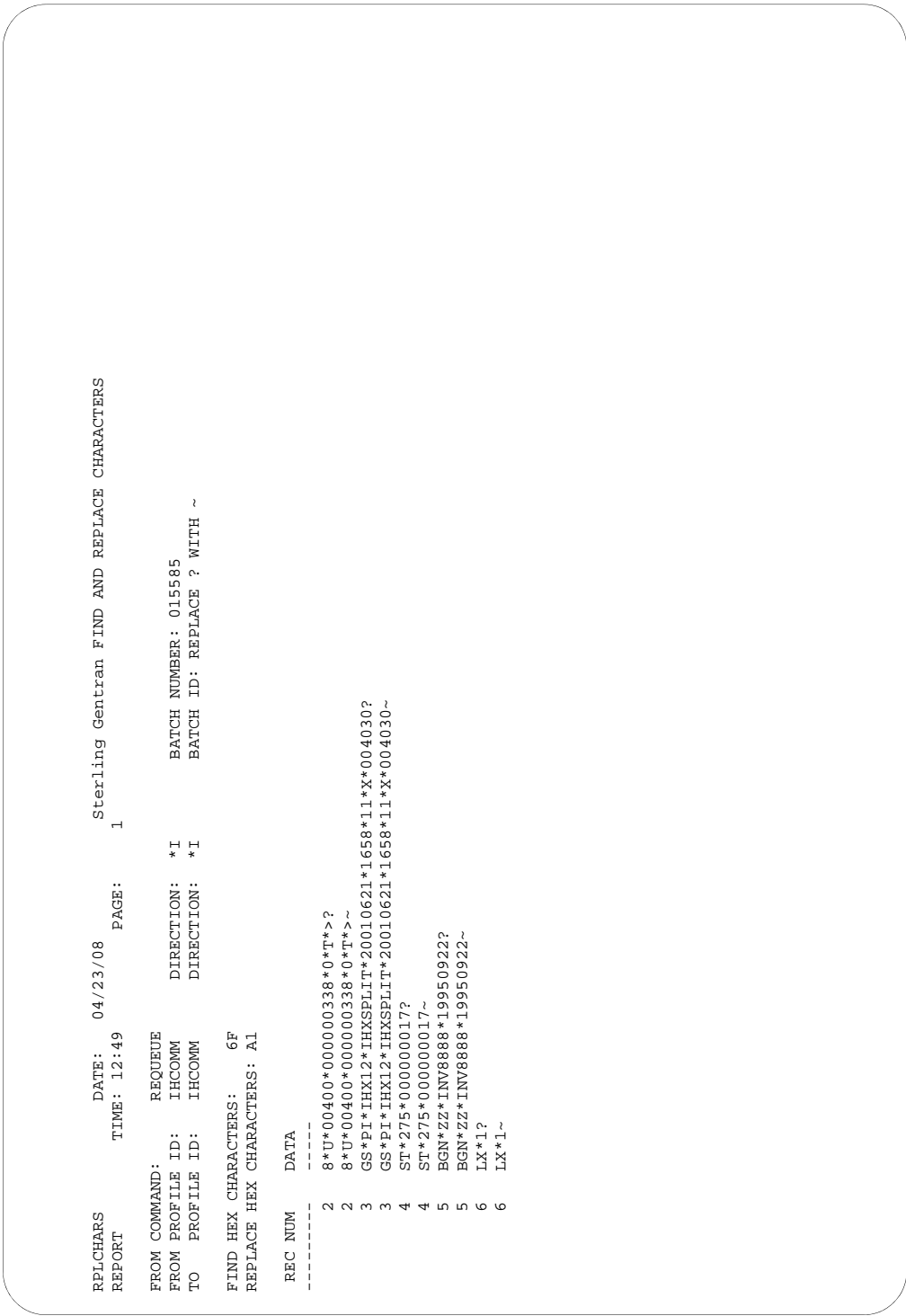


Figure 7.70 Find and Replace Characters Report (generated from QUEUEUE)

---

## Common Questions

### **If my partner never acknowledges my documents, how can I prevent that partner's data from displaying on the Audit Report?**

The Partner file has three fields that affect the Audit Print Processing. The fields are “Print TA1/AC1 on Audit Report” on the Partner CONTROL record, “Print AK1/B5 on Audit Report” on the Partner GROUP record, and “Print AK2/A2 on Audit Report” on the Partner TRANSACTION record. The valid values are ‘Y’ for yes, ‘N’ for no, and blank which defaults to yes.

The Sterling Gentran:Server system uses these fields during the Audit Print process with a user request of PRINT ALL NOT ACKNOWLEDGED, PRINT SENT NOT ACKNOWLEDGED, and PRINT RECEIVED NOT ACKNOWLEDGED. The Audit Print process will look at the Partner file when selecting records for printing and based on these flags, print the record when the fields are coded ‘Y’ or blank, and NOT print the record when the fields are coded ‘N.’

Consider this example: One of your partners uses the BG interchange, but there is no BG interchange acknowledgment. Therefore, your partner's interchanges show up on your Unacknowledged Report. You don't want this data on the report, so you code this partner's control record “Print TA1/AC1 on Audit Report” to an ‘N’.

## In this Chapter

The “Job Scheduler” chapter explains the processes for creating and maintaining entries in the Job Scheduler Master and Occurrence files.

This chapter covers the following topics:

- What is the Job Scheduler? . . . . . 8-1
- What does the Job Scheduler Function Do? . . . . . 8-2
- Take a Closer Look at the Job Scheduler . . . . . 8-2
- Start the Subsystem Used by the Job Scheduler . . . . . 8-3
- Panel Quick Reference . . . . . 8-3
- Job Scheduler Panels. . . . . 8-5
- Common Questions. . . . . 8-33

## What is the Job Scheduler?

The Sterling Gentran:Server Job Scheduler function gives you the ability to define run-time parameters for any job you wish to run on a routine basis. By establishing a schedule, you can automate your processing instead of manually initiating each job every time you wish to run it. You may use the Job Scheduler to run Sterling Gentran:Server jobs such as processing, communication sessions, reports, and purges. You may also schedule any non-Sterling Gentran:Server jobs (your own applications) you need to run on a routine basis.

---

## What does the Job Scheduler Function Do?

Using the Sterling Gentran:Server Job Scheduler feature, you can perform the following functions:

- Set parameters to schedule Sterling Gentran:Server jobs and non-Sterling Gentran:Server jobs to automatically run
- Maintain the Job Schedule parameters
- Change the status of a job schedule to temporarily de-activate it from running
- View and maintain current job schedule occurrence records
- Change the status of a job schedule occurrence record on the Job Scheduler to place it “on-hold” or delete it
- Purge or Retrieve Job Schedule records

## Take a Closer Look at the Job Scheduler

The Sterling Gentran:Server Job Scheduler function makes the automation of your system processing a manageable task. The Job Scheduler function enables you to schedule jobs to run automatically at a specified date and time without your intervention after the initial setup. Each time you set up a new set of scheduling parameters, you add an entry to the Job Scheduler Master file. This entry in the Job Scheduler Master file is like a “system reminder notice”; it reminds the system to automatically run a job on the date and time that you have specified and to continue to run it at regular intervals. You are now relieved of the duty of scheduling the job each time you want it to run.

The Job Scheduler helps you automate daily processing tasks by providing access to a common Job Scheduler function which can be accessed from any Sterling Gentran:Server command where a job can be run (PRCTRININ, PRCTRNOOUT, STRCOMSSN and Audit Print commands). This includes commands which support activities such as running reports and purges, setting up processing and communications jobs as well as any number of other user and administrative functions.

---

 **NOTE**

Use of the Job Scheduler feature is not required. Jobs can still be executed interactively or submitted to batch. Using the Job Scheduler function, however, can greatly increase your processing efficiency by automating routine procedures.

---

## Start the Subsystem Used by the Job Scheduler

When you are ready to begin using the Job Scheduler, you must start the subsystem Gentran360 in the data library. To start the subsystem, type the command:

```
STRSBS SBS(DGENTRAN360)
```

Once you have your scheduler set up to run jobs on a regular basis, you will want to have this subsystem active whenever your iSeries is up. Your iSeries Security Officer (QSECOFR) can automate this process by including the start of the subsystem in your iSeries Start Up Job (QSTRUP in QSYS or the program specified in the system value QSTRUPJOB).

## Panel Quick Reference

The following table gives the purpose and access methods for the panels in the Job Scheduler function in the System Administration subsystem.

Panel Name	Purpose	Access Methods
GENSYS Menu Sterling Gentran:Server System Administration	Menu for System Administration functions	<ul style="list-style-type: none"> <li>○ Select option '11' from GENMAIN</li> <li>○ Enter 'GO GENSYS' on the command line</li> </ul>
EDIX412-FMT01 Work with Job Scheduler	Add, change, copy, delete and view job schedule master records	<ul style="list-style-type: none"> <li>○ Select option '2' on the GENSYS menu</li> <li>○ Enter 'EXCPGM EDIX412' on the command line</li> </ul>
EDIX411-FMT01 Job Schedule Master	Define the job schedule master record	<ul style="list-style-type: none"> <li>○ Select an option (1-5) on the Work with Job Scheduler panel (EDIX412-FMT01)</li> <li>○ Enter 'EXCPGM EDIX411' on the command line</li> </ul>
EDIX409-FMT01 Work with Scheduled Entries	Add, change, copy, delete and view job schedule occurrence records	<ul style="list-style-type: none"> <li>○ Select option '11' on the Work with Job Scheduler panel (EDIX412-FMT01)</li> <li>○ Enter 'EXCPGM EDIX409' on the command line</li> </ul>
EDIX413-FMT01 Job Schedule	Define the job schedule occurrence record	<ul style="list-style-type: none"> <li>○ Select an option (1-5) on the Work with Scheduled Entries panel (EDIX409-FMT01)</li> <li>○ Enter 'EXCPGM EDIX413' on the command line</li> </ul>

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Panel Name	Purpose	Access Methods
PRGSCH Purge Job Schedule	Purge records from the Job Scheduler	<ul style="list-style-type: none"><li>○ Select option '40' on the Work with Job Scheduler panel (EDIX412-FMT01)</li><li>○ Prompt 'PRGSCH' on the command line</li></ul>
RTVSCH Retrieve Job Schedule	Retrieve Job Schedule records from tape or save file	<ul style="list-style-type: none"><li>○ Select option '41' on the Work with Job Scheduler panel (EDIX412-FMT01)</li><li>○ Prompt 'RTVSCH' on the command line</li></ul>
SCHJOB Schedule Job	Add records to the Job Scheduler Master File	<ul style="list-style-type: none"><li>○ Respond with '*YES' to the 'Schedule Job?' parameter on any Sterling Gentran:Server command</li><li>○ Prompt 'SCHJOB' on the command line</li></ul>

---

## Job Scheduler Panels

Job Scheduler functions are accessed from two general locations in the Sterling Gentran:Server Job Scheduler system. The panels used to create records on the Job Scheduler Master File are accessed from the individual commands located in each subsystem, such as the outbound processing (PRCTRNOU) command. The panels associated with maintaining the entries in the Job Scheduler Master File and with maintaining the job schedule occurrence records are accessed through the System Administration subsystem. Both access methods are described in this chapter.

The following tasks are included in the Job Scheduler. These tasks are documented in the next sections:

- Create a new entry in the Job Scheduler
- Manage entries in the Job Scheduler
- Manage Job Occurrence records
- Purge the Job Schedule (PRGSCH)
- Retrieve the Job Schedule (RTVSCH)

### Create a New Entry in the Job Scheduler

After identifying a particular task to be scheduled and run on a routine basis you must define the schedule parameters that designate exactly when and how the Job Scheduler is to run the job. By entering this information, you add a master “schedule” record to the Job Scheduler Master file. *You only need to set up a schedule one time.* The system will then run the job automatically, using your parameters, as frequently as you specify. This master schedule allows you to set up several parameters including a meaningful job name, job description, run start and stop dates, run frequency, the unit of frequency (hours, days, quarters), a run time, a message queue, and any additional programs that you want executed after the normal or abnormal completion of the job.

A common method for adding master schedule records is from the Schedule Job (SCHJOB) panel.

The Sterling Gentran:Server Job Scheduler provides access to this panel from any other command in the system where a job can be scheduled to run. For instance, if you prompt the Purge Audit (PRGAUD) command and specify ‘\*YES’ to the Schedule Job option, the Schedule Job (SCHJOB) panel displays.

In the following example, you will add records to the Job Scheduler Master file from the Processing and Communications subsystems. The first job will automatically run outbound processing at 12:00 noon everyday. The second job will automatically initiate a communications session at 2:00 P.M. everyday.

**Schedule the Process Transactions Outbound (PRCTRNOU) command**

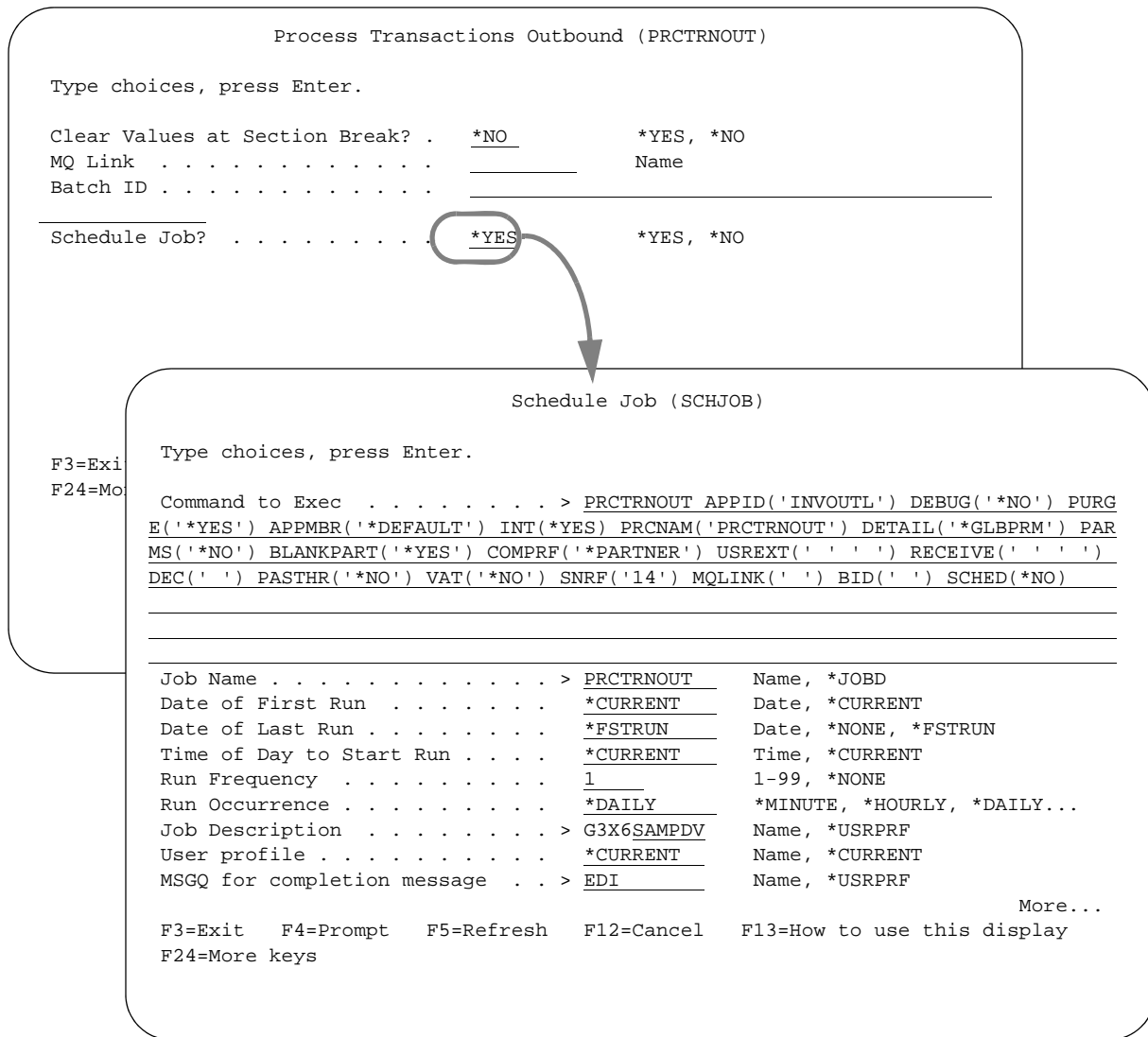


Figure 8.1 Schedule the PRCTRNOU command via the Schedule Job (SCHJOB) panel – Part 1

To schedule the outbound processing command, select option '1' (Process Outbound Files) on the Sterling Gentran:Server Processing (GENPRC) menu and press **Enter**. Specify the desired parameters with '\*YES' in the Schedule Job? parameter and press **Enter**. This automatically displays the Schedule Job (SCHJOB) panel.

The parameters entered on the submitted command are pre-loaded into the data fields on the SCHJOB panel. You may accept these default values or you may selectively override them. Press **Page Down** to specify additional Job Schedule parameters. Press **Enter** to add the job Schedule Master record.



The following figure illustrates the additional parameters shown when you **Page Down** on the SCHJOB panel.

Schedule Job (SCHJOB)

Type choices, press Enter.

Exec Upon Normal Completion . . \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Exec Upon Abnormal Completion . SNMSG MSG ('OUTBOUND PROCESSING FAILED') TO  
MSGQ(\*SYSOPR)  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Description . . . . . INVOICE PROCESSING  
 \_\_\_\_\_

Bottom

F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display  
 F24=More keys

Figure 8.2 The Schedule Job (SCHJOB) panel – Part 2

### Field Descriptions for the SCHJOB command

#### **Command to Exec**

The value in this field is the exact command string which will be executed by the Sterling Gentran:Server Job Scheduler. This string is built by the system from the data entered on the command panel which executed the ‘Schedule Job?’ request. In this example, the field shows you the command string that the system created from data you previously entered on the PRCTRNOU panel.

#### **Job Name**

The value in this field is pre-loaded from the previous panel. In this case, the Job Name field displays the value ‘PRCTRNOU,’ which is the name of the command being scheduled.

#### **Date of First Run**

This field defines the first date from which the job can be automatically scheduled to run. The date is in the format specified in the System Configuration file (SYSCFG). To find out what that format is, use the SETGENFMT command on the GENSYSCFG menu. The default value is ‘\*CURRENT’ which accepts the current system date.

**Date of Last Run**

This field defines the date after which the job will no longer be scheduled to run. The date is in the format specified in the System Configuration file. To find out what that format is, use the SETGENFMT command on the GENSYSCFG menu.

\*NONE No end date is specified. Enter this value if you want the scheduled job to run indefinitely according to the schedule you establish. The job will run perpetually until deactivated (Status = I). The system loads '9999999' into this field when the Job Schedule Master record is added. When viewing the job master for a perpetual job, the end date will display as '\*PERPETUAL.'

\*FSTRUN The end date is equal to the value entered into the Date of First Run field.

**Time of Day to Start Run**

This field defines the time of day that the job will run the first time it is executed. The time is in HHMMSS format using a military 24-hour clock (i.e., 2:00 p.m. is entered as 140000). The default value is '\*CURRENT' for the current time.

**NOTE**

This value is valid for the first scheduled run only. After the first scheduled run of the job, the next scheduled run time for the job will depend on the values entered in the Run Frequency field and the Run Occurrence field.

**Run Frequency**

This is the number of times that the job is to be run, relative to the Run Occurrence field. Valid values are 01 – 99. For example, if this field displays a value of "02", and the Run Occurrence field displays a value of "HOURLY", the job is run "every two hours".

**Run Occurrence**

This is the job run unit, relative to the Run Frequency field. For example, if this field displays a value of "QUARTERLY," and the Run Frequency field displays a value of "02," the run occurrence is "every two quarters" or twice each year. Valid values are shown in this table.

If this value is used...	the job will run...
*MINUTE	every 'n' minutes
*HOURLY	every 'n' hours
*DAILY	every 'n' days
*WEEKLY	every 'n' weeks
*MONTHLY	every 'n' months
*QUARTERLY	every 'n' quarters
*YEARLY	every 'n' years

If this value is used...	the job will run...
Note: Run Frequency should be '1' when using the values below.	
*WEEKDAY	each weekday: Mon, Tues, Wed, Thurs, Fri
*WEEKEND	each weekend: Sat, Sun
*MWF	every Mon, Wed, Fri
*TR	each Tues, Thurs

**Job Description**

This field is used to designate the job description under which the job runs. The system defaults the job description from your Sterling Gentran:Server user profile in the Environment Control subsystem.

**User Profile**

This field is used to designate the iSeries user profile under which the job will run. The default value, “\*CURRENT”, is the user who is currently maintaining or adding the job schedule record.

**MSGQ for Completion Message**

This field is used to define a secondary message queue for any messages that are generated from this job run. The system operator will always receive messages from job runs; however you may also designate another user, work station, or device to also receive messages. The system defaults the message queue from your Sterling Gentran:Server user profile in the Environment Control subsystem.

**Exec Upon Normal Completion**

This field can be used to enter a command that will be executed after a successful job run (normal completion). For example, you may enter a command to send a message to a user if the job ends normally. In addition to the Sterling Gentran:Server Job Scheduler executable programs, any iSeries command or user defined commands may be entered.

**Exec Upon Abnormal Completion**

This field can be used to enter a command that will be executed after an unsuccessful job run (abnormal completion). For example, you may enter a command to send a message to a user if the job abnormally ends, or, to initiate a second job if the original job abends. In addition to the Sterling Gentran:Server Job Scheduler executable programs, any iSeries command or user defined commands may also be entered.

**Description**

This field is used to provide additional information to describe the job being scheduled. The description can be used as an identification tool to help you differentiate between identical job name entries.



**RECOMMENDATION**

It is extremely helpful to specify the description to further explain the job that is being scheduled. This description displays with the job name on the Work with Job Scheduler panel (EDIX412-FMT01).

At this point, you have scheduled the first of two jobs in our scenario. The figure on the next page illustrates the process for scheduling the communications command.

**Schedule the Start Communications Session (STRCOMSSN) command**

Start Communications Session (STRCOMSSN)

Type choices, press Enter.

Communications Profile ID . . . . .	> CN3BSC	Comm Profile Id
Session Type . . . . .	SO	Name
Delete Previous Jobs? . . . . .	*YES	*YES, *NO
Schedule Job? . . . . .	*YES	*YES, *NO
Run Continually? . . . . .	*NO	*YES, *NO

Schedule Job (SCHJOB)

Type choices, press Enter.

Command to Exec . . . . . > STRCOMSSN PROFIL('CN3BSC') SSN(SO) DELETE('\*YES') SCHED(\*NO) CONT('\*NO') TRACE('\*NO') INT(\*YES) DOCONNECT('\*YES') RESETQ('\*NO') RERUNCT('00') COMPRS('\*NO') PROCNAME('STRCOMSSN') SESSLOG('\*NO')

Job Name . . . . .	> <u>CN3BSC</u>	Name, *JOB
Date of First Run . . . . .	<u>*CURRENT</u>	Date, *CURRENT
Date of Last Run . . . . .	<u>*FSTRUN</u>	Date, *NONE, *FSTRUN
Time of Day to Start Run . . . . .	<u>*CURRENT</u>	Time, *CURRENT
Run Frequency . . . . .	<u>1</u>	1-99, *NONE
Run Occurrence . . . . .	<u>*DAILY</u>	*MINUTE, *HOURLY, *DAILY...
Job Description . . . . .	> <u>G3X6SAMPDV</u>	Name, *USRPRF
User profile . . . . .	<u>*CURRENT</u>	Name, *CURRENT
MSGQ for completion message . . . . .	> <u>EDI</u>	Name, *USRPRF

More...

F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display  
F24=More keys

Figure 8.3 Schedule the STRCOMSSN command using the Schedule Job (SCHJOB) panel

To schedule the Start Communications Session command from the Work with Communications panel (EDIX400-FMT01), type '30' (Start Session) in the Option field next to the desired communication Profile ID and press **Enter**. Specify the desired parameters and type '\*YES' in the Schedule Job? parameter and press **Enter**. This automatically displays the Schedule Job (SCHJOB) panel.

The parameters entered on the submitted command are pre-loaded into the data fields on the SCHJOB panel. You may accept these default values or you may selectively override them. Press **Page Down** to specify additional Job Schedule parameters. Press **Enter** to add the job Schedule Master record.

At this point, you have scheduled the second of two jobs in our scenario.

## Manage Entries in the Job Scheduler

The Job Schedule Master file records which can be created from multiple panels in the Sterling Gentran:Server system can all be viewed and maintained together from a set of panels located within the System Administration subsystem. This allows you to view in a single place all the Job Schedule Master records which you have created, both those related to Sterling Gentran:Server tasks and those related to other iSeries tasks.

Sterling Gentran:Server provides a maintenance panel, Work with Job Scheduler (EDIX412-FMT01), which you can use to manage existing records in the Job Scheduler.

The following example illustrates how to view and interpret the entries in the Job Schedule Master file and continues the STRCOMSSN scenario from the previous section.

## Access the Job Scheduler Function

All maintenance tasks for the Job Scheduler are accessed from the Work with Job Scheduler panel (EDIX412-FMT01).

```

GENMAIN          Sterling Gentran:Server for iSeries Version 3.6
                                     System:   ISDDEV01

Select one of the following:

  1. Work with Partners
  2. Work with Application Definition
  3. Mapping Menu                      (GENMAP)
  4. Communications Menu              (GENCOM)
  5. Work with Standards
  6. Work with Environment Control

  8. Audit Menu                      (GENAUD)
  9. Message Center Menu             (GENMSG)
 10. Processing Menu                 (GENPRC)
 11. System Administration Menu      (GENSYS)
 12. Work with Job Scheduler         (GENVPT)
 13.
 14.

Selecti
====> 11
F3=Exit

GENSYS          Sterling Gentran:Server System Administration 3.6
                                     System:   ISDDEV01

Select one of the following:

  1. Global Parameters
  2. Work with Job Scheduler
  3. Work with EDI Monitor
  4. Work with Network Command Interface
  5. Work with Batch Error Message File
  6. Set TELEKOM Network Processing Parameters (SETTELEKOM)
  7. Display Current Point Release         (PTR)

 10. System Configuration Menu           (GENSYSCFG)

 90. Sign off

Selection or command
====> 2

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F13=User Support

```

Figure 8.4 Access the Work with Job Scheduler function from the System Administration subsystem

To access the Work with Job Scheduler panel (EDIX412-FMT01):

1. Select '11' (System Administration Menu) from the Sterling Gentran:Server main menu (GENMAIN) and press **Enter**.
2. Select '2' (Work with Job Scheduler) from the Sterling Gentran:Server System Administration menu (GENSYS) and press **Enter**.

**Work with Job Scheduler**

The Work with Job Scheduler panel (EDIX412-FMT01) is shown in the next figure. This panel lists all the Job Scheduler Master records that you have previously created and added to the Job Scheduler Master file. These job schedules may be for Sterling Gentran:Server Job Scheduler jobs or for your own internal jobs that will automatically run on the date and time you have designated in the Scheduler.

```

EDIX412                Work with Job Scheduler                EDI 04/30/11
FMT01                  pgmlib: G3X6PGM      dtalib: G3X6DTA      12:00:00

Position to Job Name . . . . . _____ Seq _____

Type option (and Information), press Enter.
  1=Create  2=Revise  3=Copy  4=Delete  5=View  11=Sch. Entries

Opt Job Name      Seq  St   Start      Time      End      Freq  Occurrence
---  ---
___  CN3BSC        1   .   04/30/08   17:08:30   04/30/08   1  DAY
___  CN3BSC        2   .   04/30/08   17:10:14   *PERPETUAL  1  DAY
___  CN3BSC        3   .   04/30/08   15:30:00   *PERPETUAL  1  DAY
___  PRCTRNOU     1  I   04/30/08   11:54:01   *PERPETUAL  1  DAY
___  PRCTRNOU     2   .   04/30/08   10:15:00   04/30/08   1  DAY
___  PRGAUD        1  C   04/30/08   09:08:38   04/30/08   1  DAY

                                                                    Bottom

Parameters or command
===> _____
F1=Help  F3=Exit  F12=Cancel  F15=Sort  F23=More Options  F24=More Keys
    
```

Figure 8.5 The Work with Job Scheduler panel (EDIX412-FMT01)

In the previous section, we set up the master schedule to perpetually schedule job schedule occurrence records from outside the Job Scheduler itself.

From this panel, you can create, revise, copy, delete, and view a job schedule. Use option '11' (Sch. Entries) to access the job schedule occurrence records for a specific job name. Or, you can access all occurrence records by typing option '11' (Sch. Entries) on the key entry line. You can also access the Purge Schedule and Retrieve Schedule commands by using options 40 and 41 respectively.

Finding entries on the Work with Job Scheduler panel (EDIX412-FMT01), particularly when there are numerous entries, is further facilitated by using both the “Sort By” option and the “Position To” option. The default sort order, as shown in the previous figure, is alphabetical by Job Name and Sequence. The following “Sort By” options are available:

- Job Name (Job Name); Sequence Number
- Start (Start Date); Job Name; Sequence Number
- Status (Select Status); Start Date; Job Name; Sequence Number

The following figure illustrates the selection of the sort option and the results of sorting the Job Scheduler Master file by Start Date, Job Name and Sequence.

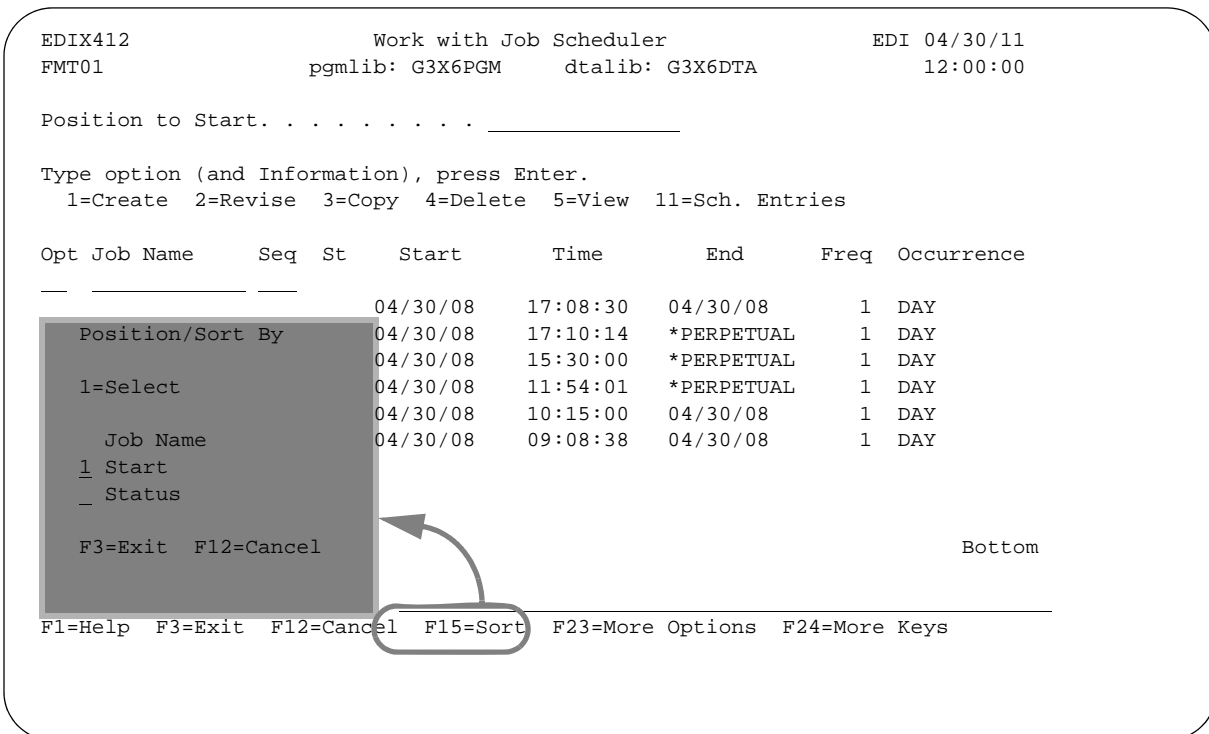


Figure 8.6 Select a sort order using the **F15** (Sort) from the Work with Job Scheduler panel (EDIX412-FMT01)

**NOTE** The default sort for the Work with Job Scheduler panel is set as an option on the System Configuration menu, Set Job Scheduler Sort Option. (SEE Chapter 12, “System Configuration File” in this guide for more information about working with system configuration options.)



### Access a Scheduled Job

Sterling Gentran:Server provides an additional panel, Job Schedule Master panel (EDIX411-FMT01), which allows you to see a detailed view of the command(s) to execute for a specific Job Schedule entry.

To continue with our example, we want to view the Job Schedule Master file record for the CN3BSC communications session (STRCOMSSN) which we created earlier. The following figure shows the Job Schedule Master panel (EDIX411-FMT01) with the CN3BSC record displayed:

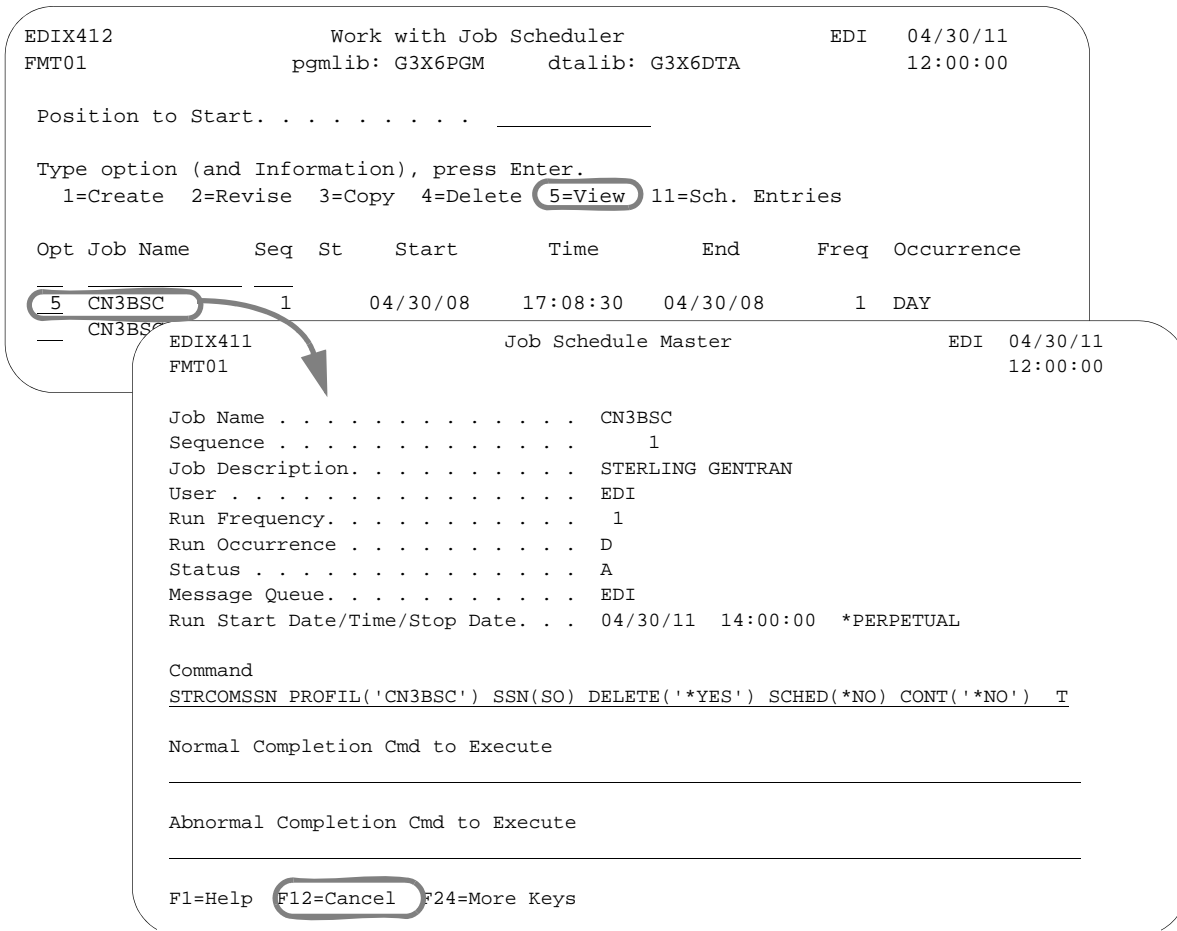


Figure 8.7 The Job Schedule Master panel (EDIX411-FMT01)

To access the Job Schedule Master panel (EDIX411-FMT01) from the Work with Job Scheduler panel (EDIX412-FMT01), type '5' in the Option field and press **Enter**. After viewing the Job Schedule Master panel, return to the Work with Job Scheduler panel by pressing **F12** (Cancel).

### Field Descriptions

The following fields are present on the Job Schedule Master panel (EDIX411-FMT01):

#### Job Name

This field specifies the Job Name you previously assigned to the job. The name **MUST** be a valid iSeries job name.

**Sequence**

This field displays the run sequence number for those jobs having the same job name, but varying start dates and times, as previously assigned by the system.

**Job Description**

This field is used to designate the job description under which the job runs. The system defaults the job description from your Sterling Gentran:Server user profile in the Environment Control subsystem.

**User**

This field is used to designate the system user profile under which the job will run.

**Run Frequency**

This field displays the number of times that the job is run, relative to the Run Occurrence field. Valid values are 01-99. For example, if this field displays a value of '02,' and the Unit field displays a value of 'H' (Hours), the run frequency is every two hours.

**Run Occurrence**

This field displays a code which is an equivalent to the Run Occurrence field. Valid values for this field are shown in this table.

If the value used is...	Description	then the job is run...
A	Each Weekday	Mon, Tues, Wed, Thurs, Fri
D	Days	every 'n' days
E	Each Weekend	Sat, Sun
F	Mon, Wed, Fri	every Mon, Wed, Fri
H	Hours	every 'n' hours
M	Months	every 'n' months
Q	Quarters	every 'n' quarters
T	Tues, Thurs	every Tue, Thurs
U	Minutes	every 'n' minutes
W	Weeks	every 'n' weeks
Y	Years	every 'n' years

**Status**

This field specifies the master job schedule "activity" status code. Valid values are:

- 'C' – The system has completed scheduling all job schedule occurrence records for the run date and time indicated by the user.
- 'A' – The system is active and in the process of scheduling job schedule occurrence records. For those jobs scheduled to run perpetually (no run end date), an "A" status will always display after scheduling has started.

**'I'** – Inactive is a user-entered value used to temporarily prevent the system from scheduling job schedule occurrence records on the Job Scheduler queue.

**BLANK** – The system has not initiated the process of scheduling job schedule occurrence records because the defined start date is greater than the scheduler's 'generate through' date, which is stored in the data area 'SCHEDULER.'

### Message Queue

This field designates the secondary message queue for any messages that are generated from this job run. The operator will always receive all messages from job runs; however, you may also designate another user, work station, or device to also receive messages. The system defaults the message queue from your Sterling Gentran:Server user profile in the Environment Control subsystem.

### Run Start Date/Time/Stop Date

The first two fields specify the specific Job Schedule start date and time (which will be the first time the job will be executed). The third field identifies the stop date of the scheduled job. Press **Tab** between each field.

You must enter the dates based on the format in your Sterling Gentran:Server user profile in the Environment Control subsystem. The time must be entered in HHMMSS format using a military 24-hour clock (i.e., 2:00 p.m. is entered as 140000). To schedule a perpetual job, specify '\*PERPETUAL' in the Stop Date field.



### NOTE

---

This value is valid for the first scheduled run only. After the first scheduled run of the job, the next scheduled run time for the job will depend on the values entered in the Run Frequency field and the Run Occurrence field.

---

### Command

The value in this field is the command string which will be executed by the Sterling Gentran:Server Job Scheduler. In this example, the field shows you the command string that the system created from data you previously entered on the STRCOMSSN command.

### Normal Completion Cmd to Execute

This field can be used to enter a command that will be executed after a successful job run (normal completion). For example, you may enter a command to send a message to a user if the job ends normally. In addition to the Sterling Gentran:Server Job Scheduler executable programs, any iSeries command or user defined commands may be entered.

### Abnormal Completion Cmd to Execute

This field can be used to enter a command that will be executed after an unsuccessful job run (abnormal completion). For example, you may enter a command to send a message to a user if the job abnormally ends, or, to initiate a second job if the original job abends. In addition to the Sterling Gentran:Server Job Scheduler executable programs, any iSeries command or user defined commands may also be entered.

### Copy a Job Schedule

You may copy any record in the Job Schedule master file. After you copy the record you may view it by following the steps illustrated in the last section.

For our example, we created a new Job Scheduler Master file record called ‘CN3BSCTST.’

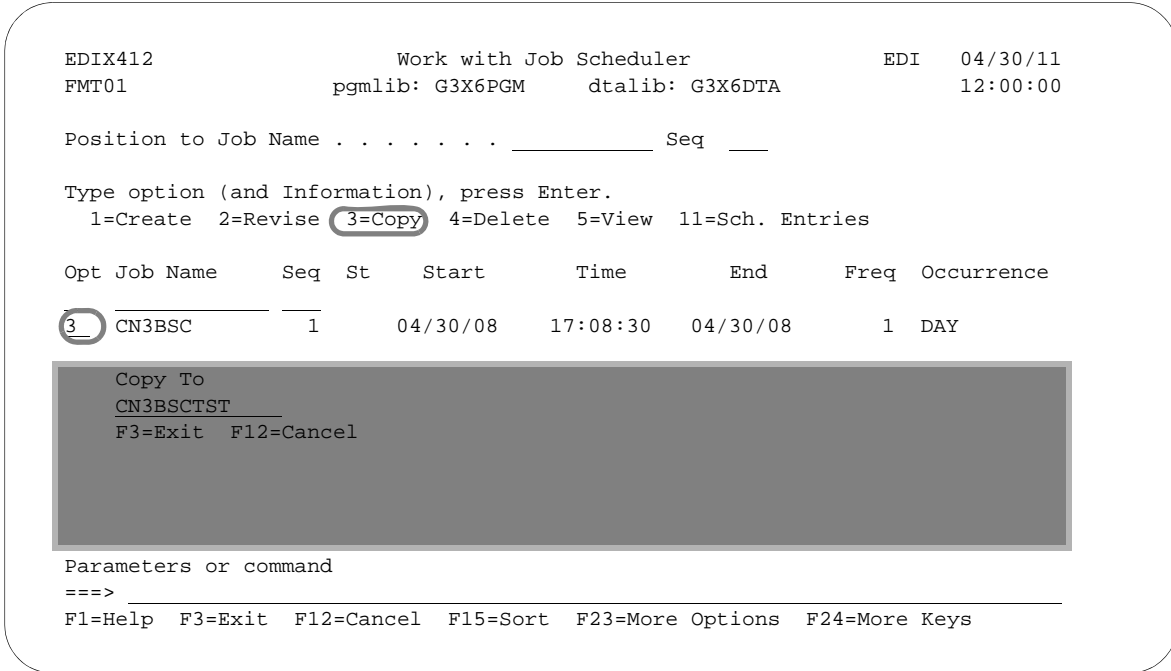


Figure 8.8 Copy a Job schedule Master file record

To copy a record in the Job Master file:

1. From the Work with Job Scheduler panel (EDIX412-FMT01), type ‘3’ (Copy) in the Option field next to the Job Scheduler record you want to copy and press **Enter**.
2. The Copy To will display as shown in the above figure. Type the job name of the new record and press **Enter**.

The Job Schedule Master panel (EDIX411-FMT01) displays as shown in the next figure. At this point you may modify any of the fields on the new record.

 **NOTE**

When the copy occurs, the Start Date and Start Time fields default to the *current* system date and time.

```

EDIX411                Job Schedule Master                EDI  04/30/11
FMT01                  12:00:00

Job Name . . . . . CN3BCTST
Sequence . . . . . 1
Job Description. . . . . STERLING GENTRAN
User . . . . . EDI
Run Frequency. . . . . 1
Run Occurrence . . . . . D
Status . . . . . -
Message Queue. . . . . EDI
Run Start Date/Time/Stop Date. . 04/30/11 12:00:00 04/30/11

Command
STRCOMSSN PROFIL('CN3BSC') SSN(SO) DELETE('*YES') SCHED(*NO) CONT('*NO') TR

Normal Completion Cmd to Execute
_____

Abnormal Completion Cmd to Execute
_____

F1=Help  F4=Prompt  F10=Update  F12=Cancel  F24=More Keys
    
```

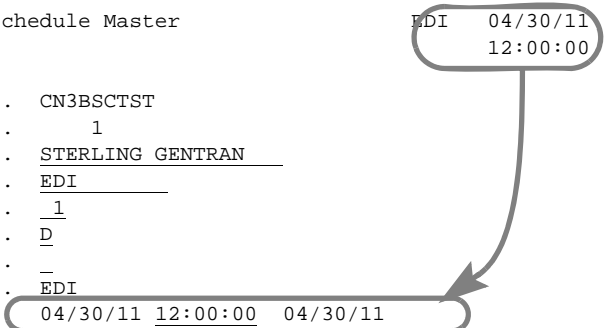


Figure 8.9 The Job Schedule Master panel (EDIX411-FMT01) after a record is copied  
 Press **F10** (Update) when you are finished making modifications. This will add the record to the Job Schedule Master file.

### Delete a Job Schedule

Entries remain in the Job Schedule Master file until they are deleted. From time to time it is a good idea to review the contents of the file and delete jobs which are no longer in use.

```

EDIX412                Work with Job Scheduler                EDI 04/30/11
FMT01                  pgmlib: G3X6PGM      dtalib: G3X6DTA      12:00:00

Position to Job Name . . . . . _____ Seq _____

Type option (and Information), press Enter.
  1=Create  2=Revise  3=Copy  4=Delete  5=View  11=Sch. Entries

Opt Job Name      Seq  St   Start      Time      End      Freq Occurrence
-----
 4 CN3BSC          1    04/30/08  17:08:30  04/30/08  1 DAY
  CN3BSC          2    04/30/08  17:10:14  *PERPETUAL 1 DAY

EDIX411                Job Schedule Master                EDI 04/30/11
FMT01                  12:00:00

Job Name . . . . . CN3BSCST
Sequence . . . . . 1
Job Description. . . . . STERLING GENTRAN
User . . . . . EDI
Run Frequency. . . . . 1
Run Occurrence . . . . . D
Status . . . . . A
Message Queue. . . . . EDI
Run Start Date/Time/Stop Date. . . 04/30/11 12:00:00 04/30/11

Command
STRCOMSSN PROFIL('CN3BSC') SSN(SO) DELETE('*YES') SCHED(*NO) CONT('*NO') TR

Normal Completion Cmd to Execute
_____

Abnormal Completion Cmd to Execute
_____

F1=Help  F4=Prompt  F11=Delete  F12=Cancel  F24=More Key
    
```

Figure 8.10 Delete a Job schedule Master file record

Type '4' (Delete) in the Option field next to the Job Scheduler Master record you want to delete and press **Enter**. The Job Schedule Master panel (EDIX411-FMT01) displays. Press **F11** (Delete).

---

## Manage Job Occurrence Records

Up until now, we have been working solely with the records in the Job Schedule Master file. The Job Scheduler uses these “master” records to automatically create “Job Occurrence Records” in the Job Scheduler. For example, in our scenario we set up parameters to schedule a STRCOMSSN job to run one time each day at 2:00 p.m., starting from the current date, 04-30-11, (for the purpose of defining a date for this example). As a result the Job Scheduler will create job occurrence records for every scheduled run time for the STRCOMSSN job – one record for every day at 2:00 p.m. (See “How do job occurrence records get generated?” on page 33. the “Common Questions” section in this chapter for more information.)

Sterling Gentran:Server Job Scheduler provides several features for working with the job occurrence records. These features allow you to work not only with the occurrence records automatically created by the Job Scheduler, but also lets you work with *any* occurrence record in the Job Scheduler.

Tasks which can be performed include:

- Access the Job Schedule Occurrence records
- Update Job Schedule Occurrence records
- Add Job Schedule Occurrence records
- Delete Job Schedule Occurrence records



---

**NOTE**

All additions, changes, and deletions of job schedule occurrence records on the Scheduler *do not* affect the job master records on the Job Scheduler Master file. For example, if you change the execution commands of a job record on the Work with Scheduled Jobs panel (EDIX409-FMT01), these parameter changes are for this occurrence only and are *not* updated to the master parameters of the job as they exist on the Job Scheduler Master file.

---

### Access the Job Schedule Occurrence Records

The job schedule occurrence records may be viewed from the Work with Job Scheduler panel (EDIX412-FMT01). Depending on how the option is selected, you may choose to view all the job schedule occurrence records or only those occurrence records associated with a single Job Schedule Master file record.

The Work with Scheduled Entries panel (EDIX409-FMT01) will display as shown in the following figure. The features pertaining to working with the Job Schedule occurrence records are accessed by using the options available on the Work with Job Scheduler panel (EDIX412-FMT01) as illustrated in the following figure.

EDIX412 Work with Job Scheduler EDI 04/30/11  
 FMT01 pgmlib: G3X6PGM dtalib: G3X6DTA 12:00:00

Position to Job Name . . . . . Seq \_\_\_\_\_

Type option (and Information), press Enter.  
 1=Create 2=Revise 3=Copy 4=Delete 5=View 11=Sch. Entries

Opt	Job Name	Seq	St	Start	Time	End	Freq	Occurrence
11	CN3BSC	1		04/30/08	17:08:30	04/30/08	1	DAY
	CN3BSC	2		04/30/08	17:10:14	*PERPETUAL	1	DAY

EDIX409 Work with Scheduled Entries EDI 04/30/11  
 FMT01 pgmlib: G3X6PGM dtalib: G3X6DTA 12:00:00

Position to Date . . . . . Time \_\_\_\_\_ For PRGAUD 001

Type option (and Information), press Enter.  
 1=Create 2=Revise 3=Copy 4=Delete 5=View

Opt	Date	Time	St	Job Desc	Msg	User	Job Numb	Day of Week
—	04-30-11	23:00:00	NX	GENTRAN	QSYSOPR	QSECOFR	225999	TUESDAY
—	04-30-11	09:00:00	NX	GENTRAN	QSYSOPR	QSECOFR	226178	WEDNESDAY
—	04-30-11	23:00:00	H	GENTRAN	QSYSOPR	QSECOFR	0	WEDNESDAY
—	04-30-11	23:00:00		GENTRAN	QSYSOPR	QSECOFR	0	THURSDAY
—	04-30-11	23:00:00		GENTRAN	QSYSOPR	QSECOFR	0	FRIDAY

Parameters or command  
 ==> \_\_\_\_\_

F1=Help F3=Exit F12=Cancel F15=Sort F24=More Keys

Bottom

Figure 8.11 The Work with Scheduled Entries panel (EDIX409-FMT01)



To view all Job Schedule Occurrence records for a particular job, type '11' on the Work with Job Scheduler panel (EDIX412-FMT01) next to the Job Scheduler Master record you want to view and press **Enter**. The Work with Scheduled Entries panel (EDIX409-FMT01) displays with the occurrences of the selected job.

You can use the Job Status field to determine the exact processing status of each job. The status code value will indicate that the job has completed running or was just submitted for execution. If it completed normally or abnormally, the completion instructions used by the system in either event would be displayed, whether it was manually placed on "hold" to temporarily prevent it from running, or manually added to the Job Scheduler queue (and does not exist on the Master File).

If you chose to see job occurrences for all jobs (by typing '11' on the key entry line on EDIX412-FMT01), you can access the Date/Time alternate sort option by pressing **F15** (Sort). You can use this option to see the next job to be run, regardless of job name; or use it to view all job occurrences for a particular day.

Keep in mind that the Work with Scheduled Entries panel (EDIX409-FMT01) allows you to take an interactive "snapshot" of the job schedule occurrence records as they exist on the Job Scheduler. As jobs are initiated, the Scheduler assigns them a Job Number. The Job Status field will remain blank until after the job has been executed.

## Field Descriptions

### **Date**

This field defines the job run start date. You must enter the date based on the format in your Sterling Gentran:Server user profile in the Environment Control subsystem.

### **Time**

This field defines the job run start time. Format is HHMMSS in 24-hour military time.

### **St (Job Status)**

This field displays the current processing status of the job. You may change the status of an unprocessed job (blank status) to temporarily suspend it by entering a value of "H" in this field. Processing status code values are:

- |      |   |
|------|---|
| "NN" | The job has been executed and the first command ended normally and a normal completion command existed which is also executed normally.       |
| "NA" | The job has been executed and the first command ended normally and a normal completion command existed which terminated abnormally.           |
| "NX" | The job has been executed and the first command ended normally and no normal completion or abnormal completion commands existed.              |
| "AA" | The job has been executed and the first command ended abnormally and an abnormal completion existed command which also terminated abnormally. |
| "AN" | The job has been executed and the first command ended abnormally and an abnormal completion command existed which terminated normally.        |

“AX”	The job has been executed and the first command ended abnormally and no normal completion or abnormal completion commands existed.
“S”	The job is in the process of being submitted.
“SB”	The job has been submitted for processing and is currently running or the job was abruptly terminated while executing with no recovery possible.
“H”	A user can place the job on hold which temporarily suspends processing. This will also prevent completed jobs from being purged.
“ER”	An error has occurred. Either the user profile, message queue, or job description was not previously defined to the system.
“ES”	Error on Submit Job. The Scheduler encountered an error on the submit job command for this job. The job could not be submitted.
BLANK	The job has not started.

**Job Desc**

This field defines the job description under which the job will run. You may change this job description if you choose to add more libraries to the library list, or you may change the subsystem in which the jobs are run by changing the job queue. This field defaults to the job description defined by the Sterling Gentran:Server user profile in the Environment Control subsystem.

**Msg (Queue)**

This field defines the secondary message queue to which any messages generated by this occurrence of the job run will be (have been) sent.

**User**

This field defines the iSeries user profile of the person who created the job processing record, either by creating a job schedule, or by manually placing the specified job on the scheduling queue.

**Job Numb**

This field displays the job number assigned by the system when it began processing the job.

**Day of Week**

Shows the day of the week the job is scheduled to run. This field is only displayed if this panel was accessed for a specific job (that is, not from the key entry line), as shown in Figure 8.11.

## Update a Job Occurrence Record

You may update a job schedule occurrence record on the Job Scheduler using the Work with Scheduled Entries panel (EDIX409-FMT01). For example, you may need to change an execution command parameters for a particular job or you may need to change the status of an occurrence record to place it on hold.



---

**NOTE**

Changes you make to the job schedule occurrence records on the Job Scheduler do not update the master parameter information for the job on the Job Scheduler Master file.

---

By placing a job schedule occurrence record on hold, you may temporarily suspend its future processing. You may also use the hold status to prevent an initiated job schedule occurrence record (a job that has already been run) from being removed from the Job Scheduler queue during a purge.

The Job Schedule panel (EDIX413-FMT01) displays as shown in the next figure.

```

EDIX409          Work with Scheduled Entries          EDI 04/30/11
FMT01           pgmlib: G3X6PGM      dtalib: G3X6DTA      12:00:00

Position to Date . . . . . _____ Time _____ For PRGAUD      001

Type option (and Information), press Enter.
  1=Create  2=Revise  3=Copy  4=Delete  5=View

Opt   Date      Time   St Job Desc  Msg      User      Job Numb Day of Week
---   -
  2   04-30-11   23:00:00 NX GENTRAN  QSYSOPR  QSECOFR   225999 TUESDAY
  2   04-30-11   09:00:00 NX GENTRAN  QSYSOPR  QSECOFR   226178 WEDNESDAY
  
```

Pa  
==  
F1

```

EDIX413          Job Schedule          EDI 04/30/11
FMT01           12:00:00

Job Name . . . . . PRGAUD
Date . . . . . 04-30-11
Time . . . . . 23:00:00
Status . . . . . NX
Job Description. . . . . STERLING GENTRAN
Message Queue. . . . . QSYSOPR
User . . . . . QSECOFR
Job Number . . . . . 225999
Day of Week. . . . . TUESDAY

Command
PRGAUD CRIT(*ACK) DAYS(2)

Normal Completion Cmd to Execute
_____

Abnormal Completion Cmd to Execute
_____

F1=Help  F4=Prompt  F10=Update  F12=Cancel  F24=More Keys
  
```

Figure 8.12 The Job Schedule panel (EDIX413-FMT01)

Type '2' (Revise) next to the Occurrence record you want to update and press **Enter**.

Make any necessary changes (you cannot change the Date or Time) and press **F10** (Update).

 **NOTE**

Remember, when updating the record, you must remove the current status code (if a code exists) so that the system recognizes that the record still needs to be executed.

### Add a Job Occurrence Record

You may create or add by copying a job schedule occurrence record to the Job Scheduler using the Work with Scheduled Entries panel (EDIX409-FMT01). This situation may occur if you need to run a job that is not currently scheduled, or has a scheduled date/time that is different than the date/time you currently need to run the job. Adding jobs to the Job Scheduler is typically reserved for special one-time job runs where scheduled run routines are impossible to predict and cannot be established.

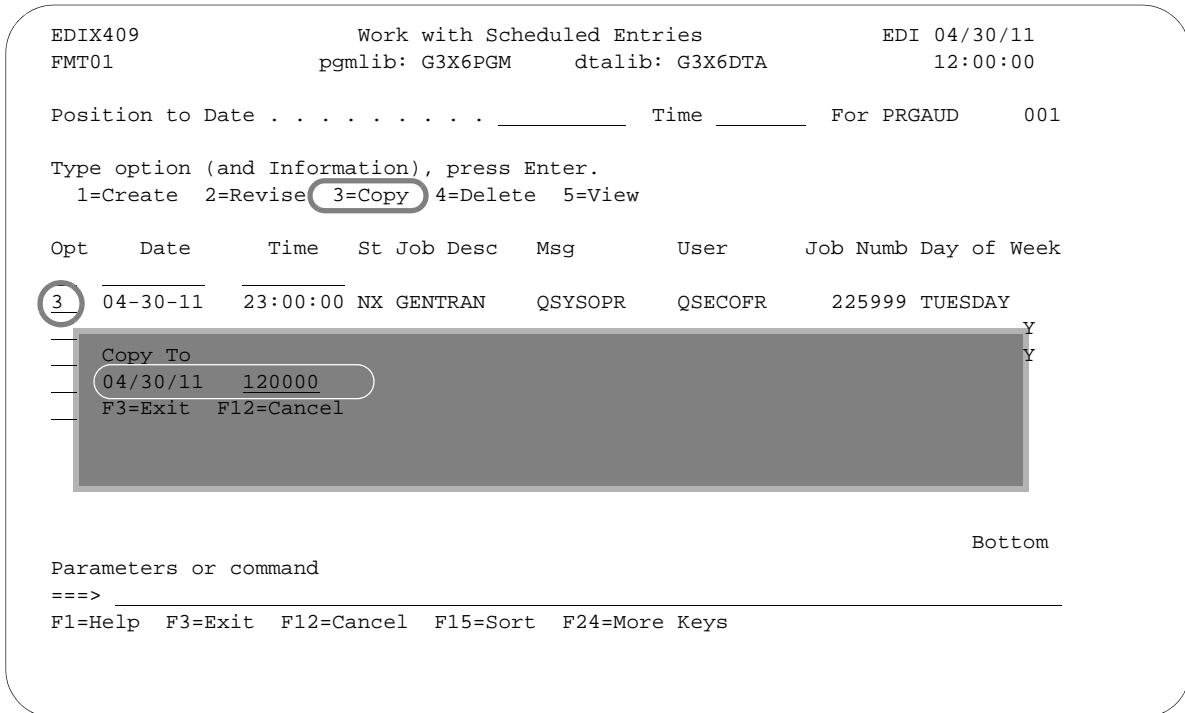


Figure 8.13 Adding an entry to the Job Schedule

**To add a job schedule occurrence record to the Job Scheduler:**

- Type '3' (Copy) next to any existing entry on the Work with Scheduled Entries panel (EDIX409-FMT01) and press **Enter**.
- On the Copy To, type the Date and Time for the new occurrence record you want to add and press **Enter**. The date can be entered with or without date separators but must be in the user's date format.

The Job Schedule panel (EDIX413-FMT01) will display as shown in the following figure.

```

EDIX413                               Job Schedule                               EDI 04/30/11
FMT01                                                                         12:00:00

Job Name . . . . . PRGAUD
Date . . . . . 04/30/11
Time . . . . . 12:00:00
Status . . . . . NX
Job Description. . . . . STERLING GENTRAN
Message Queue. . . . . QSYSOPR
User . . . . . QSECOFR
Job Number . . . . . 225999
Day of Week. . . . . MONDAY

Command
PRGAUD CRIT(*ACK)
-----
Normal Completion Cmd to Execute
-----
Abnormal Completion Cmd to Execute
-----

F1=Help  F4=Prompt  F10=Update  F12=Cancel  F24=More Keys
    
```

Figure 8.14 New Occurrence Record

Create the command to execute, and if necessary, the command to execute upon a normal or abnormal completion and press **F10** (Update).

### Delete a Job Occurrence Record

You may also delete a job schedule occurrence record that currently exists on the Job Scheduler using the Work with Scheduled Entries panel (EDIX409-FMT01). Remember, when you delete a job schedule occurrence record on the Job Scheduler, you are *not* deleting its master record on the Job Scheduler Master file.

The Job Schedule panel (EDIX413-FMT01) displays as shown in the following figure.

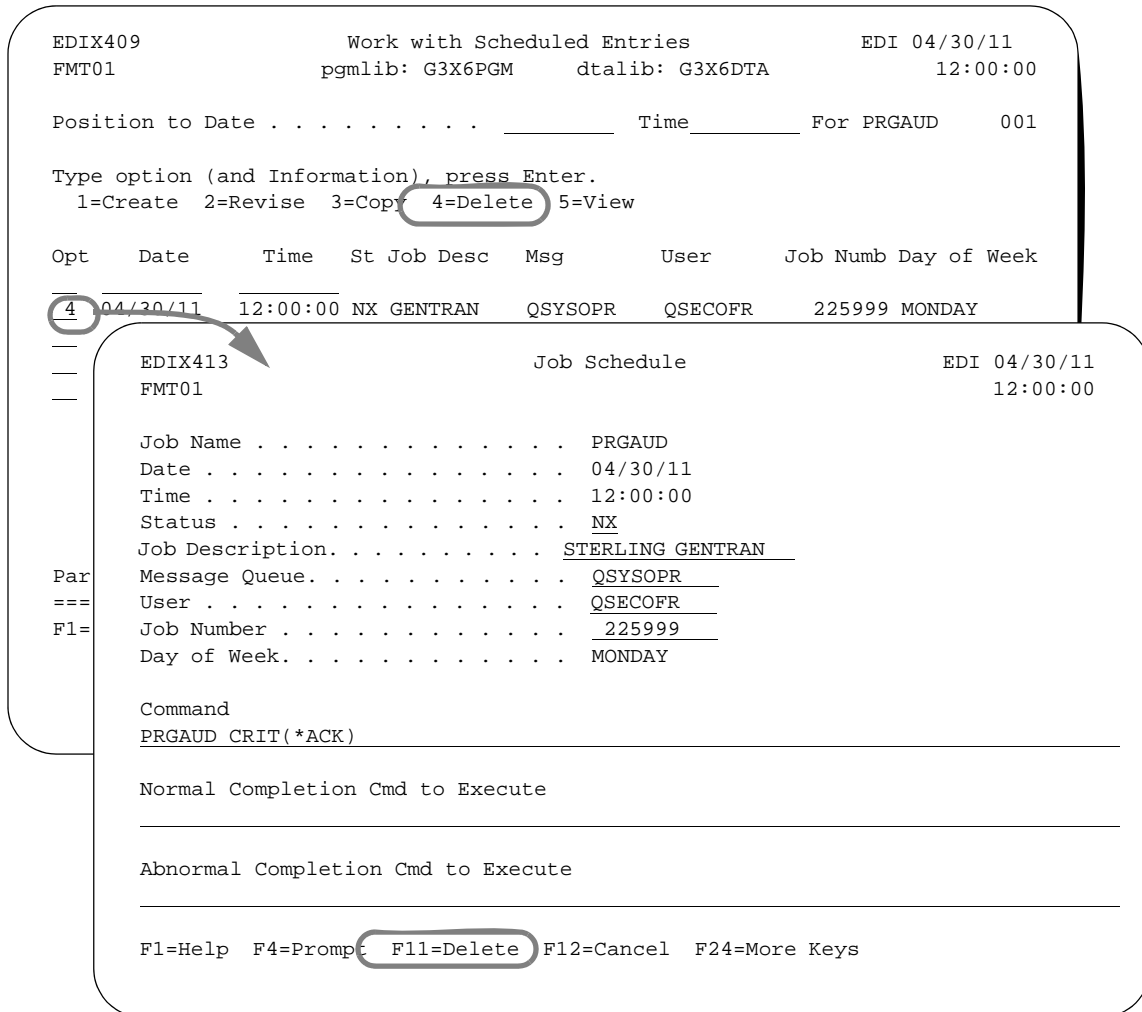


Figure 8.15 Delete an entry in the Job Scheduler

#### To delete a job schedule occurrence record from the Job Scheduler:

- Type '4' (Delete) next to the occurrence record you wish to delete and press **Enter**. The Job Schedule panel (EDIX413-FMT01) displays. Press **F11** (Delete).

## Purge the Job Schedule (PRGSCH)

Job schedule occurrence records are not deleted from the Job Scheduler queue after they are run. They remain there until you purge them. Sterling Gentran:Server provides a feature for purging the Job Scheduler of old occurrence records. This feature allows you to selectively purge groups of occurrence records with a start date prior to a date you specified.



### CAUTION

The Job Scheduler subsystem (GENTRAN360) must be ended prior to executing the PRGSCH command. Records cannot be purged while the schedule is still actively processing scheduled jobs.

The Purge Job Schedule (PRGSCH) command displays as shown in the next figure.

```

EDIX412                Work with Job Scheduler                EDI 04/30/11
FMT01                  pgmlib: G3X6PGM          dtalib: G3X6DTA          12:00:00

Position to Job Name . . . . . _____ Seq _____

Type option (and Information), press Enter.
 40=Purge Schedule  41=Retv. Schedule

Opt Job Name      Seq  St   Start      Time      End      Freq  Occurrence
40 _____
___ CN3BSC         1    04/30/08  17:08:30  04/30/08  1  DAY
___ CN3BSC         2    04/30/08  17:10:14  *PERPETUAL 1  DAY
___ CN3BSC         3    04/30/08  15:30:00  *PERPETUAL 1  DAY
___

Purge Job Schedule (PRGSCH)

Type choices, press Enter.

Selection Criteria for Purge . .  *ALL          *DATE, *DAYS, *ALL
Schedule Job ? . . . . .        *NO           *YES, *NO
Purge Method? . . . . .        *NONE         *TAPE, *SAVE, *NONE, *CL

Additional Parameters

Run Interactively? . . . . .    *NO           *YES, *NO
Reorganize Files? . . . . .    *YES          *YES, *NO
Process Name . . . . .         PRGSCH

Bottom

F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys

```

Figure 8.16 The Purge Job Schedule panel (PRGSCH)



To purge the Job Schedule, type '40' (Purge Schedule) on the key entry line or next to any job name on the Work with Job Scheduler panel (EDIX412-FMT01) and press **Enter**.

Type the desired parameters in each field on the PRGSCH command. Press **F1** (Help) for detailed information about the parameters.

You can execute the purge job one of three ways: Type '\*Yes' to use the Job Scheduler feature; press **Enter** to immediately submit the job to your queue to run; or press **F10** (Additional parameters) and type '\*YES' for Run Interactively to run the purge job on your screen.

**NOTE**

---

For more information about using the PRGSCH command, see the online help.

---

**Process Name**

This parameter allows you to uniquely identify the command or job flow in the Message Center. The default is the command name. It can be modified to any 15-byte alphanumeric value to further identify this process in the Message Center. The process name displays on the Work with Message Center panel and always tracks under this name.

## Retrieve the Job Schedule (RTVSCH)

The Retrieve Job Schedule (RTVSCH) command allows you to restore Job Schedule records from tape or save file that have been previously purged to tape or save file with the PRGSCH command.

```

EDIX412                Work with Job Scheduler                EDI      04/30/11
FMT01                  pgmlib: G3X6PGM      dtalib: G3X6DTA      12:00:00

Position to Start. . . . . _____

Type option (and Information), press Enter.
  40=Purge Schedule  41=Retv. Schedule

Opt Job Name      Seq  St   Start      Time      End      Freq  Occurrence
41  CN3BSC        1    04/30/08  17:08:30  04/30/08  1  DAY
   CN3BSC        2    04/30/08  17:10:14  *PERPETUAL 1  DAY

Retrieve Job Schedule (RTVSCH)

Type choices, press Enter.
Pa
==
F1 Schedule Job File . . . . . SCHJOB      Character value
Schedule Master File . . . . . SCHMST      Character value
Library . . . . . G3X6DTA      Character value
Retrieve Method . . . . . _____ *TAPE, *SAVF

Additional Parameters

Run Interactively? . . . . . *NO          *YES, *NO

Bottom
F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys

```

Figure 8.17 The Retrieve Job Schedule panel (RTVSCH)

To retrieve the Job Schedule, type '41' (Retv. Schedule) on the key entry line or next to any job name on the Work with Job Scheduler panel (EDIX412-FMT01) and press **Enter**.

Type the desired parameters in each field on the RTVSCH command.

You can execute the retrieve job one of three ways: Type '\*Yes' to use the Job Scheduler feature; press **Enter** to immediately submit the job to your queue to run; or press **F10** (Additional parameters) and type '\*YES' for Run Interactively to run the retrieve job on your screen.

### NOTE

For more information about using the RTVSCH command, see the online help.

# Common Questions

## How do job occurrence records get generated?

When you schedule a job, Sterling Gentran:Server creates job occurrence records through the Stop Date or the schedule-thru date in the SCHEDULER data area, whichever comes first. The data area is located in the Sterling Gentran:Server data library (G3X6DTA). When the iSeries system date is equal to the schedule-thru date in the SCHEDULER data area, Sterling Gentran:Server automatically generates a new schedule-thru date by adding to this date the number of days in the first three positions of the data area. Then for all active schedules, Sterling Gentran:Server creates job occurrence records through the new schedule thru date for all schedules with an active status, including those with a stop date of \*PERPETUAL. If the Stop Date is less than the new schedule-thru date, Sterling Gentran:Server only generates occurrence records through the Stop Date.



---

**NOTE**

The Sterling Gentran:Server subsystem GENTRAN360 must be active and the autostart job SCHEDULER must be running to generate new job occurrence records.

---

## My jobs are scheduled – why don't they run?

The following flow chart can be used as a quick reference for determining why jobs are not scheduling. Following the flow chart, there are four examples that will assist you in reading and resolving the most common problems found in the joblogs, and provide detailed instructions for verifying the setup of the GENTRAN360 subsystem. Throughout these examples it is assumed the Sterling Gentran data library is G3X6DTA. If your Sterling Gentran data library has a different name, substitute that name everywhere G3X6DTA is specified.

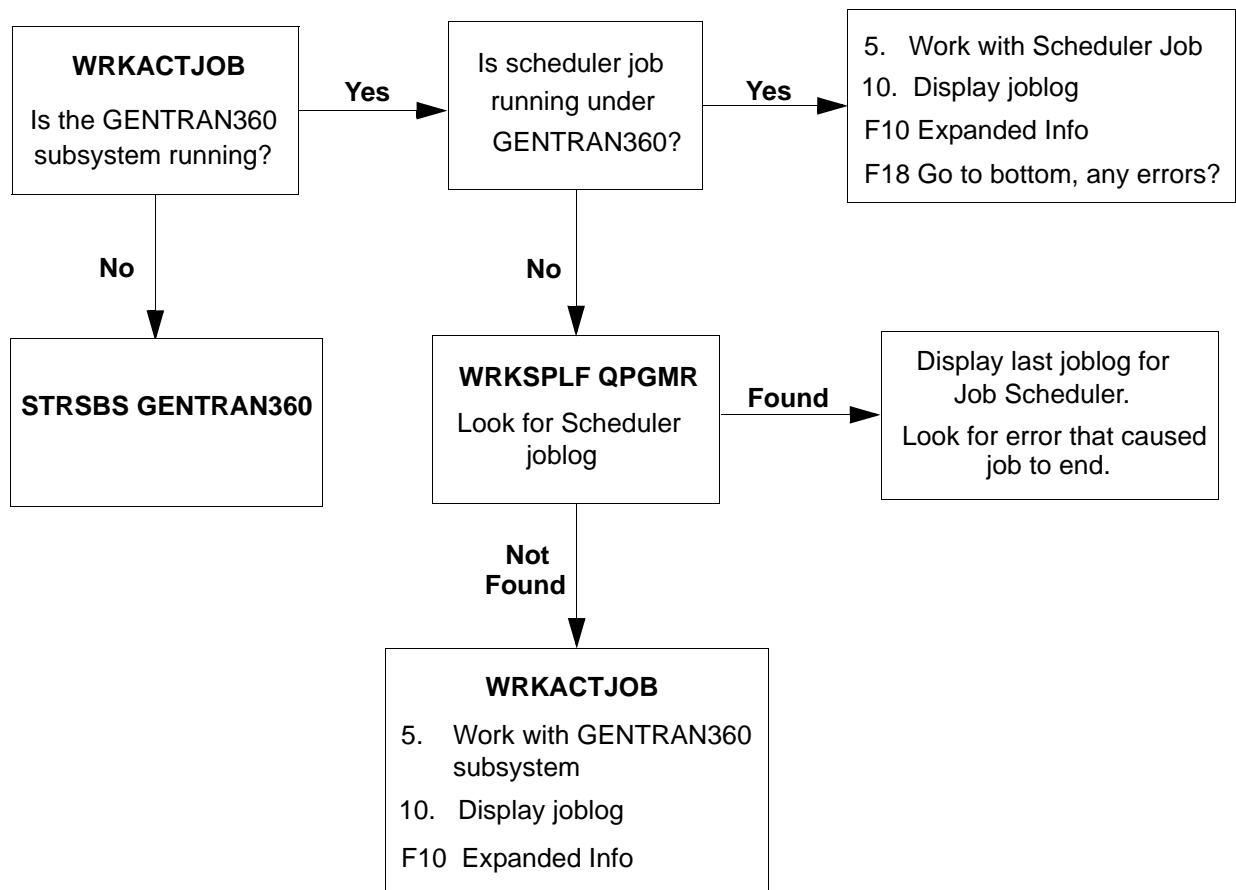


Figure 8.18 Finding out why scheduled jobs are not running

### Example 1: Why am I getting the error “QPGMR not authorized to object XXX” (where XXX is an iSeries user ID)?

The Scheduler job runs under the user profile ‘QPGMR.’ Therefore, when the Scheduler job tries to submit a job that was scheduled using another user profile, QPGMR has to have authority to that user profile. When you schedule a job from the Job Schedule Master panel, the default user ID is the user ID of the current user. The iSeries user profile of the current user, or whatever user ID is specified, must be set up with QPGMR having \*USE authority to that user profile. In order to resolve the above error, specify a user ID of QPGMR when scheduling jobs on the Job Schedule Master panel or change the object authority for the user ID specified to allow QPGMR authority. To change object authority, use the iSeries command:

```
EDTOBJAUT OBJ(*LIBL/<user id) OBJTYPE(*USRPRF).
```

**Example 2: Why do I get the error “WAKEUP data queue not found”?**

The WAKEUP data queue is used by the Scheduler job to wake it up when it is time to submit a scheduled job. If the WAKEUP data queue is not in the G3X6DTA library, create it. To do this, use the iSeries command CRTDTAQ as follows:

```
CRTDTAQ DTAQ(G3X6DTA/WAKEUP) MAXLEN(64512) SEQ(*FIFO)
```

**Example 3: Why do I get the error “Program ROUTERCL not found in current library list”?**

This error may show up in the Scheduler joblog, the GENTRAN360 subsystem joblog, or in the joblog of a job that was submitted by the Scheduler. Ensure that the G3X6DTA and G3X6PGM libraries are in the initial library list for all job descriptions that are being used. The Scheduler job uses the job description ‘SCHEDULER.’ Use the DSPJOB command for the job description, SCHEDULER. Make sure that G3X6DTA and G3X6PGM are in the library list. The job being scheduled uses the job description specified on the Work with Scheduled Entries panel (EDIX409-FMT01) and the Work with Job Scheduler panel (EDIX412-FMT01). The default is the job description in environment control, but the users may have specified their own job description. Use the DSPJOB command on the job description specified for the scheduled entry, and make sure G3X6DTA and G3X6PGM are in the initial library list. If the library list needs to be changed, you can do so by prompting the iSeries command CHGJOB and modifying the INLLIBL (Initial Library List).

**Example 4: Why can't I start an autostart job?**

This error or something similar may show up in the joblog for the GENTRAN360 subsystem. This is most likely a problem with library names within the subsystem. You will need to go through the GENTRAN360 subsystem description and verify library names in the autostart entry, job queue entries, and routing entries. If one is wrong, you will most likely have to change them all.



## In this Chapter

The “EDI Monitor” chapter explains the process for viewing and printing inbound and outbound batch processing reports that are captured in the EDI Monitor files.

This chapter covers the following topics:

- What is the EDI Monitor Function? . . . . . 9-1
- What Does the EDI Monitor Function Do? . . . . . 9-1
- Panel Quick Reference . . . . . 9-2
- Using the EDI Monitor . . . . . 9-2
- EDI Monitor Report Selection . . . . . 9-4

## What is the EDI Monitor Function?

The EDI Monitor is a tool that enables you to easily monitor batch processing by providing online panels to access any inbound and outbound editor and mapper reports that were logged. During processing, the system optionally captures the generated reports and writes them to the EDI Monitor file. These reports are also sent to the user’s iSeries default output queue at the time of processing. Retaining these reports in the EDI Monitor file permits users without command line access to view and print the processing reports.

## What Does the EDI Monitor Function Do?

Using the Sterling Gentran:Server EDI Monitor function, you have the ability to perform the following functions:

- View the list of reports currently in the EDI Monitor file
- Display and scroll through reports
- Print reports

## Panel Quick Reference

The following table gives the purpose and access methods for the panels in the EDI Monitor function in the System Administration subsystem.

Panel Name	Purpose	Access Methods
GENSYS menu Sterling Gentran:Server System Administration	Menu for System Administration functions	<ul style="list-style-type: none"> <li>○ Select option '11' on GENMAIN</li> <li>○ Enter 'GO GENSYS' on command line</li> </ul>
EDIX310-FMT01 Work with EDI Monitor	Work with the reports currently logged in the EDI Monitor file	<ul style="list-style-type: none"> <li>○ Select option '3' on the GENSYS menu</li> <li>○ Enter 'EXCPGM EDIX310' on the command line</li> </ul>
EDIX311-CTL01 EDI Monitor Inquiry	View individual report files in the EDI Monitor file	<ul style="list-style-type: none"> <li>○ Select option '5' on panel EDIX310-FMT01</li> <li>○ Enter 'EXCPGM EDIX311' on the command line</li> </ul>

## Using the EDI Monitor

### The EDI Monitor Report Global Parameter

Use of the EDI Monitor is controlled by the EDI Monitor Report global parameter. If the parameter is set to the default setting, 'Y' (Yes), reports will be written to the EDI Monitor and the spool file in the user's output queue. If you only want the reports written to the spool file in your output queue, or want to increase throughput, you can choose to turn the global parameter off and the reports will not appear in the EDI Monitor File (SEE the "Global Parameters" chapter in this manual for more information about working with global parameters.)



## Access the EDI Monitor Function

The EDI Monitor function is located within the System Administration subsystem. The following figure illustrates the process for accessing the Work with EDI Monitor function.

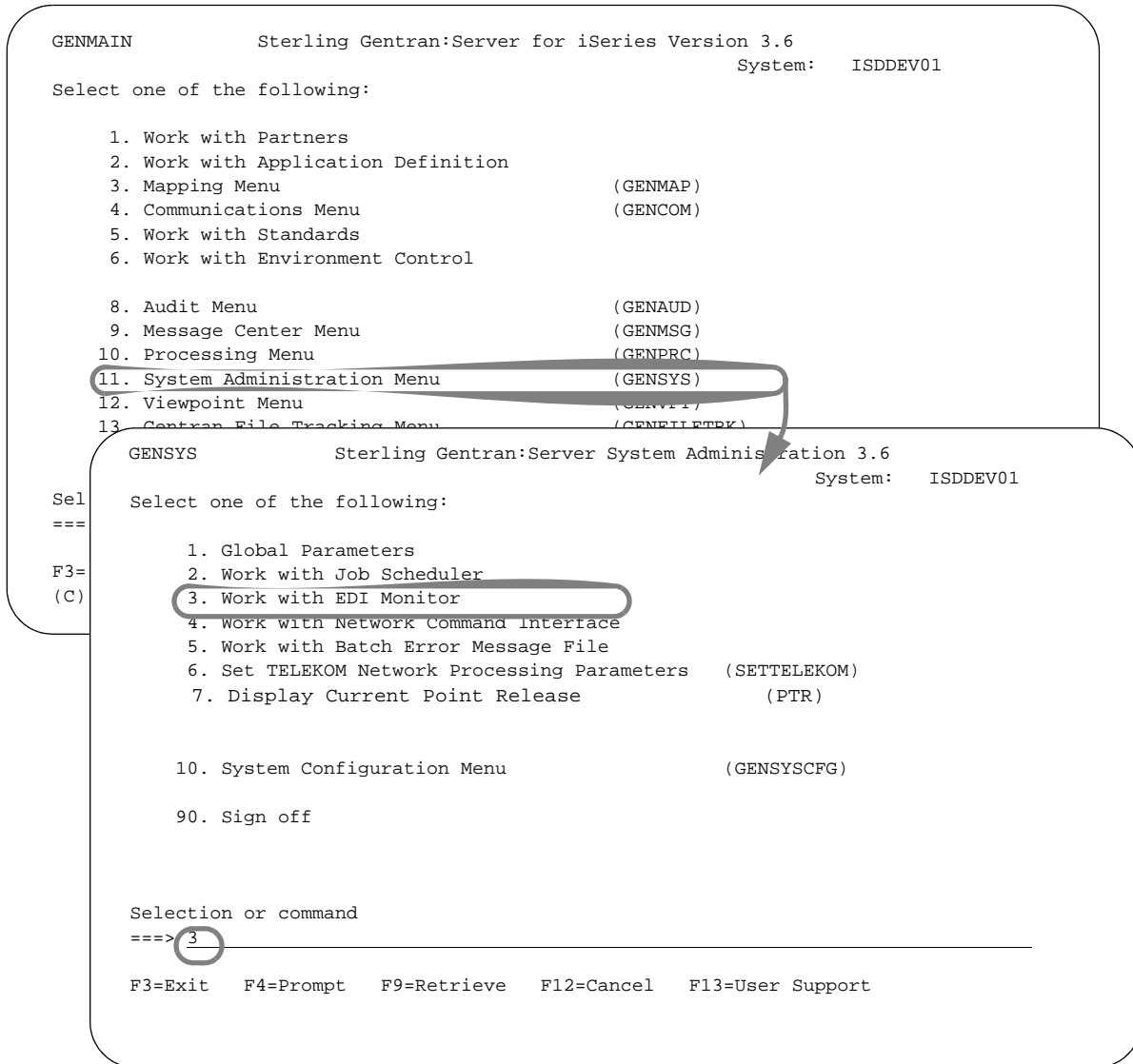


Figure 9.1 Access the EDI Monitor Function

To access the EDI Monitor function, select option '11' (System Administration Menu) on the Sterling Gentran:Server menu (GENMAIN) or type 'GO GENSYS' on the command line and press **Enter**. Select option '3' (Work with EDI Monitor) on the Sterling Gentran:Server System Administration menu (GENSYS).

## EDI Monitor Report Selection

The Work with EDI Monitor panel (EDIX310-FMT01), as shown below, displays a list of inbound and outbound batch processing reports that are currently logged in the EDI Monitor file. The reports are shown sorted by generation date in descending order (the most recent report displays first). Reports can be viewed and/or printed.

```

EDIX310                      Work with EDI Monitor                      EDI 04/30/11
FMT01                        pgmlib: G3X6PGM      dtalib: G3X6DTA          12:00:00

Position to Generation Date. . . . _____ Generation Time. . . . _____

Type option (and Information), press Enter.
5=View 6=Print

  Generation      Process      Job      Address
  Date          Time      Name      Status Number      Control  Detail
5  04-30-11     14:17:35 EBDI41    W   0170493     595     3807
  04-30-11     14:17:26 EBDI02    I   0170493     594     3789
  04-30-11     14:17:11 EBDI01    I   0170493     593     3743
  04-30-11     17:02:47 EBDI41    W   0170005     592     3728
  04-30-11     17:02:40 EBDI01    I   0170005     591     3708
  04-30-11     11:40:31 EBDI41    I   0162784     590     3695
  04-30-11     11:40:20 EBDI02    I   0162784     589     3673
  04-30-11     11:40:10 EBDI01    I   0162784     588     3624
  04-30-11     14:03:10 EBDI02    F   0162679     587     3605
                                          More...

Parameters or command
===> _____
F1=Help  F3=Exit  F12=Cancel  F15=Sort  F24=More Keys
    
```

Figure 9.2 The Work with EDI Monitor Panel (EDIX310-FMT01)

To view a report, type '5' (View) in the Option field and press **Enter**. The EDI Monitor Inquiry panel (EDIX311-CTL01) displays with the contents of the report selected.

Reports are available for review in the EDI Monitor for only a limited time. The time is directly related to the size of the reports and frequency of generating the reports. The EDI Monitor file is a wrap-around file. Once the file is full, the oldest reports are overlaid with new reports.

There are several types of inbound and outbound processing reports and network reports that are captured in the EDI Monitor file as defined in the following table. The process name identifies the type of report.

Process Name	Report ID	Report Name
EBDI001	EBDI01	Inbound Editor Report
EBDI002	EBDI02	Outbound Editor Report
EBDI041	EBDI41	Inbound Mapper Report
EBDI042	EBDI42	Outbound Mapper Report
EBDI004I	EBDI4I	Inbound Processing Options Report
EBDI004O	EBDI4O	Outbound Processing Options Report
EBDI800	EBD800	Network Reconciliation Summary—Sterling B2B Collaboration Network
TRK800	TRK800	Commerce Response Processor Summary Report (Sterling Gentran:Viewpoint tracking summary)
EBDI800A	EB800A	Network Reconciliation Summary—Sterling B2B Collaboration Network
TRK800A	TRK80A	Commerce Response Processor Summary Report (Sterling Gentran:Viewpoint tracking summary)
EBDI804	EBD804	Deutsche Telekom Network Acknowledgments
EBDI805	EBD805	Network Reconciliation Summary
TRK805	TRK805	GEIS Response Processor Summary Report (Sterling Gentran:Viewpoint tracking summary)
EBDI810	EBD810	Network Reconciliation Summary—IBM Network
TRK810	TRK810	IBM In Response Processor Summary Report (Sterling Gentran:Viewpoint tracking summary)
EBDI815	EBD815	Errors Encountered Processing Network Reports (Sterling Gentran:Viewpoint INS reports)

Process Name	Report ID	Report Name
EBDI816	EBD816	Errors Encountered Processing Network Reports (Sterling Gentran:Viewpoint INS reports)

 **NOTE**

The EDI Monitor function is reserved for reports generated by Sterling Gentran:Server during inbound and outbound processing and for network reports which have been requested and received during a communication session if the EDI Monitor Report global parameter is turned on. User generated reports, such as the mapping Reports, are not captured in the EDI Monitor, but can still be accessed on the iSeries output queue.

The report status identifies critical error messages issued during each job step. There are three status codes that could display on the Work with EDI Monitor panel (EDIX310-FMT01).

- F=Fatal                      Suspension or Rejection occurred. The reports should be examined. All reports that have a fatal error will be highlighted.
  
- W=Warning                   Mapper reports: Errors occurred and some data may have been suspended.  
  
    Editor reports: Errors occurred and some data was rejected. This requires error rejection to be activated.
  
- I=Informational              Mapper reports: No errors occurred during processing.  
  
    Editor reports: Some compliance errors may have occurred, but error rejection was not activated.  
  
    Processing Summary reports: These reports will always have this status because they simply list the processing options for a specific run.

## EDI Monitor Report Display

The EDI Monitor Inquiry panel (EDIX311-CTL01), as shown below, allows you to display the complete contents of a selected inbound or outbound batch processing report. You may page through the report or scroll the report to the right or left to display lines that are longer than 76 characters. All 132 characters of a report are available for display; however only 76 characters will display on the screen at one time. A plus symbol (+) indicator displays at the end of a line that contains additional data.

```

EDIX311          EDI Monitor Inquiry          EDI 04/30/11
CTL01                               12:00:00

Job Number . . . . . 0170493
Process Name . . . . . EBDI41

EBDI041    RUN 04-30-11    TIME 14:17:35    MAPPER INBOUND PROCESSING +
ERROR  **RECORD**        FIELD SEG ELE                                +
NUMBR   NBR ID           SEQ # ID  SEQ INFORMATION  ERROR MESSAGE          +
INTERMEDIATE FILE MEMBER NAME - M10353I001          +
 685 0000000           000000   000          UNABLE TO OPEN THE EDI INP+
PROCESSING ENDED WITH ERRORS - PROCESSING COUNTS BELOW          +
                                EDI RECORDS READ ----- 0          +
                                EDI RECORDS SUSPENDED ----- 0          +
                                APPLICATION RECORDS WRITTEN ---- 0          +
                                RETURN-CODE FOR MAPPING ----- 8          +
                                MESSAGE CENTER RETURN CODE ----- 8          +
                                                                Bottom

F1=Help  F12=Cancel  F19=Left  F20=Right  F24=More Keys
    
```

Figure 9.3 EDI Monitor Inquiry panel (EDIX311-CTL01)

The job number and process name shown at the top of the panel are the key fields identifying this report in the EDI Monitor file. Press **F19** (Left) and **F20** (Right) to move the display to the right and left to view the entire report. Press **F12** (Cancel) to exit.

## Print EDI Monitor Reports

All inbound and outbound batch processing reports can be printed from the EDI Monitor, as shown below. Multiple reports can be selected at one time to be printed.

```

EDIX310                      Work with EDI Monitor                      EDI 04/30/11
FMT01                        pgmlib: G3X6PGM      dtalib: G3X6DTA      12:00:00

Position to Generation Date. . . . _____ Generation Time. . . . _____

Type option (and Information), press Enter.
5=View 6=Print

      Generation      Process      Job      Address
  Opt   Date          Time   Name   Status Number  Control  Detail
  ---   ---          ---   ---   ---   ---     ---     ---
  6     04-30-11      14:17:35 EBDI41    W   0170493    595     3807
  6     04-30-11      14:17:26 EBDI02    I   0170493    594     3789
  _     04-30-11      14:17:11 EBDI01    I   0170493    593     3743
  _     04-30-11      17:02:47 EBDI41    W   0170005    592     3728
  _     04-30-11      17:02:40 EBDI01    I   0170005    591     3708
  _     04-30-11      11:40:31 EBDI41    I   0162784    590     3695
  _     04-30-11      11:40:20 EBDI02    I   0162784    589     3673
  _     04-30-11      11:40:10 EBDI01    I   0162784    588     3624
  _     04-30-11      14:03:10 EBDI02    F   0162679    587     3605
                                          More...

Parameters or command
====> _____
F1=Help F3=Exit F12=Cancel F15=Sort F24=More Keys

```

Figure 9.4 Print a Report from the Work with EDI Monitor Panel (EDIX310-FMT01)

To print reports, type '6' in the Option field next to all the selected reports and press **Enter**.

The system will copy the report file to a spool file in the user's default output queue, as defined in the user's Sterling Gentran:Server profile. Reports are not deleted from the EDI Monitor file when they are printed, allowing them to be printed again, if necessary.

**10 Network Command Interface****NOTE**

This chapter contains information pertaining only to the INS-Tradanet network. If you do not use this network, you may skip this chapter.

---

**In this Chapter**

This chapter explains the process for generating network “script” commands to communicate with the INS-Tradanet network in the Tradanet Standard Protocol (TSP). This chapter covers the following topics:

- What is the Network Command Interface? . . . . . 10-1
- What Does the Network Command Interface Function Do? . . . . . 10-2
- Take a Closer Look at the INS-Tradanet Network Interface . . . . . 10-2
- Panel Quick Reference . . . . . 10-4
- Network Command Interface Panels . . . . . 10-5
- Common Questions. . . . . 10-15

**What is the Network Command Interface?**

The Network Command Interface function is a tool to help you build “scripts” to be transmitted to the INS-Tradanet network. These scripts contain strings of instructions which you build in the Tradanet Standard Protocol. Using these “scripts” you can make requests of the INS-Tradanet network such as establishing new relationships with trading partners, retrieving reports, reviewing the contents of your mailbox and performing various other maintenance activities. Sterling Gentran:Server refers to these scripts as “Command Definitions.”

# What Does the Network Command Interface Function Do?

The Network Command Interface function provides these capabilities:

- Add new Command Definitions by creating a new definition or copying an existing one
- Define the individual INS-Tradanet Commands within each Command Definition
- Queue Network Command Definitions using the GENINSCMD

## Take a Closer Look at the INS-Tradanet Network Interface



---

**NOTE**

This section is intended as an overview only. Please refer to your INS-Tradanet documentation for complete instructions on Tradanet Standard Protocol commands and procedures.

---

The INS-Tradanet network provides a variety of value-added services to its subscribers. Among these services are the capabilities to request EDI activity reports and audit reports and to set up new relationships with other subscribers. With this network, each subscriber is responsible for performing routine housekeeping on their individual “mailboxes”. This requires that you send electronic maintenance transmissions in addition to your normal EDI data transmissions to the INS-Tradanet network instructing the network to perform various tasks for you. The Tradanet Standard Protocol (TSP) “language” is used to create these instructions.

Sterling Gentran:Server provides a series of panels where you can easily maintain a collection of communication scripts for the INS-Tradanet network containing these TSP instructions.

The INS-Tradanet network requires that all transmissions sent to it be in a particular format. Sterling Gentran:Server automatically converts your EDI transmissions destined for this network into this format when processing occurs. Based on the communication profile ID which you entered on the Partner file, the Editor identifies transmissions destined for the INS-Tradanet network and reformats the data automatically.



Sterling Gentran:Server does the same thing for your maintenance transmissions to the network. When the GENINSCMD (Generate INS Command Scripts) is run, the Outbound Editor builds a “script” from the values entered on the Network Command Interface panels. The “script” is then padded with the appropriate “fill” characters and placed in the outbound queue.



---

**NOTE**

Sterling Gentran:Server provides the capability to print the reports received from the INS-Tradanet network. (See “Audit” on page 1. the “Audit” chapter for information regarding the Print Audit File (PRTAUD) command options for printing the INS-Tradanet activity and audit reports.) Sterling Gentran:Server also provides the capability to acknowledge outbound documents based on INS reports.

---



---

**CAUTION**

The procedures described in this section pertain to setting up dialogues with the “store-and-collect” INS-Tradanet network services only for the maintenance transmissions. They do not pertain to the actual transmission of data to and from the INS-Tradanet network. EDI transmissions between you and your trading partner(s) over the network are performed using the standard Sterling Gentran:Server procedures as described elsewhere throughout the manuals (that is: Partner Setup, Application Definition, Mapping, Communications).

---

## Panel Quick Reference

The following table gives the purpose and access methods for the Network Command Interface panels in the System Administration subsystem.

Panel Name	Purpose	Access Methods
GENSYS menu Sterling Gentran:Server System Administration	Menu for System Administration functions	<ul style="list-style-type: none"> <li>○ Select option '11' on GENMAIN</li> <li>○ Enter 'GO GENSYS' on command line</li> </ul>
EDIX851-FMT01 Work with Network Command Interface	Create, revise, copy, delete, or view INS-Tradnet Command Definitions	<ul style="list-style-type: none"> <li>○ Select option '4' on the GENSYS menu</li> <li>○ Enter 'EXCPGM EDIX851' on the command line</li> </ul>
EDIX852-FMT01 Network Command Definition	Add or update an INS-Tradnet Command Definition record	<ul style="list-style-type: none"> <li>○ Select an option ('1' – '5') on the Work with Network Command Interface panel (EDIX851-FMT01)</li> <li>○ Enter 'EXCPGM EDIX852' on the command line</li> </ul>
EDIX853-CTL01 Network Command	Add, update or delete an INS-Tradnet command detail record	<ul style="list-style-type: none"> <li>○ Select option '11' on the Work with Network Command Interface panel (EDIX851-FMT01)</li> <li>○ Enter 'EXCPGM EDIX853' on the command line</li> </ul>
GENINSCMD Generate INS command script	Generate an INS Command Script for performing network maintenance	<ul style="list-style-type: none"> <li>○ Select option '30' on the Work with Network Command Interface panel (EDIX851-FMT01)</li> <li>○ Prompt 'GENINSCMD' on the command line</li> </ul>

# Network Command Interface Panels

**NOTE**

To access the IBM® Sterling Gentran:Server® for iSeries® Release 3.6 tutorials, you must add the tutorial library (G3X6SAMP) to your library list before the Sterling Gentran:Server data library (G3X6DTA).

---

## Access the Network Command Interface Function

The Network Command Interface function is located within the Sterling Gentran:Server System Administration subsystem. To access the Network Command Interface function:

- Select option '11' (Sterling Gentran:Server System Administration) on the Sterling Gentran:Server menu (GENMAIN).
- Then, select option '4' (Work with Network Command Interface) on the Sterling Gentran:Server System Administration menu (GENSYS).

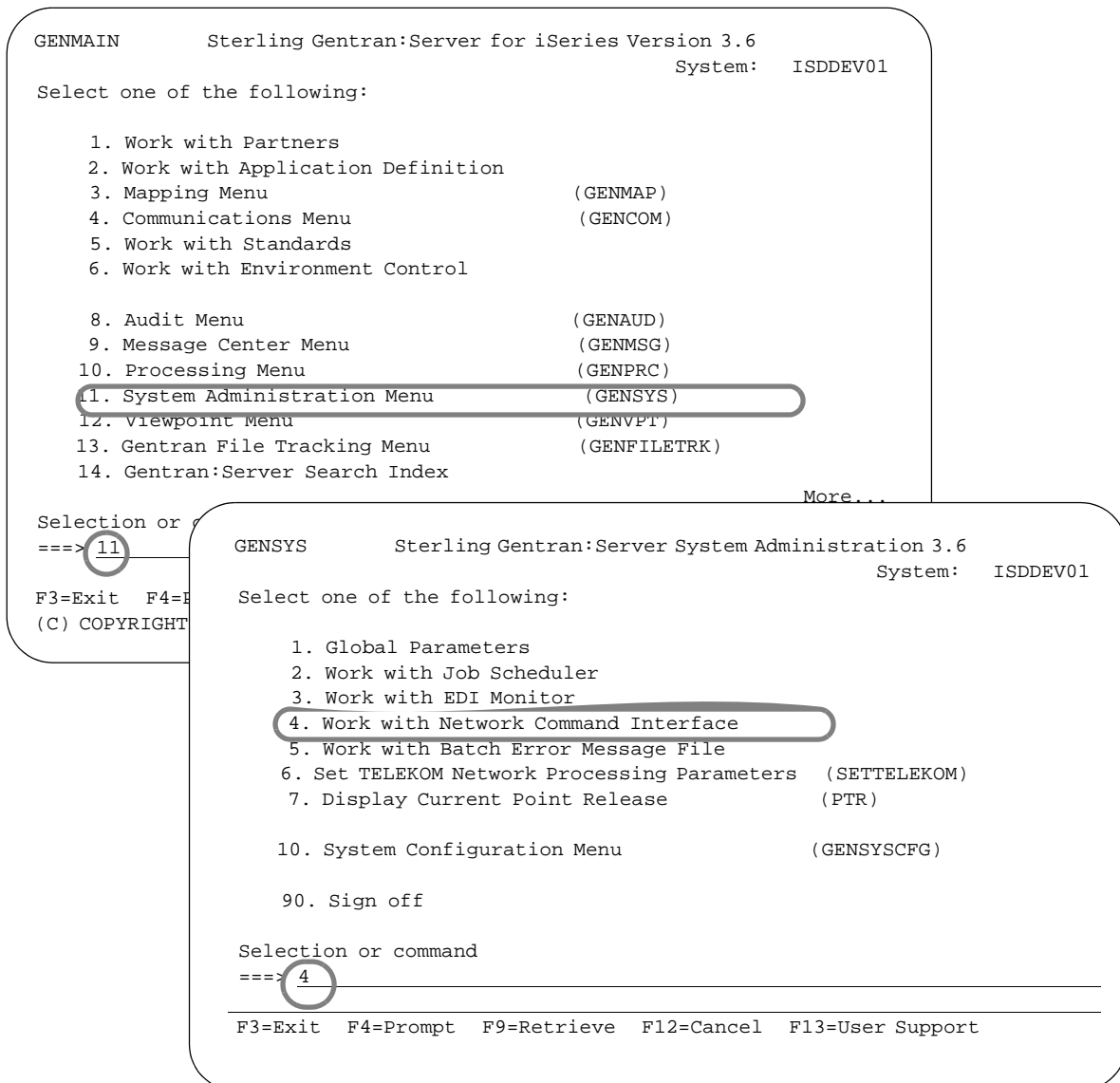


Figure 10.1 Access the Network Command Interface function

The following tasks are included in the Network Command Interface:

- Create a new Network Command Definition
- Define the TSP Commands within a Definition
- Generate an INS Command Script to be queued for transmission

## Work with Network Command Interface

After you select the Network Command Interface function on the GENSY menu, the Work with Network Command Interface panel (EDIX851-FMT01) displays, as shown below. This panel displays a list of all Network Command Definitions previously created that you have access to.

 **NOTE**

Access is determined by the Division Code associated with each Network Command Definition. You can maintain only those entries associated with the Division Codes which you have access to. If your user Division Code is '000,' you may work with all entries.

```

EDIX851          Work with Network Command Interface          EDI 04/30/11
FMT01           pgmlib: G3X6PGM      dtalib: G3X6DTA          12:00:00

Position to Command ID . . . . .

Type option (and Information), press Enter.
1=Create 2=Revise 3=Copy 4=Delete 5=View 11=Network CMD

Opt Command ID Description                               Last update
Date           Time           User
---
NEWP           NEW PASSWORD                             04-30-11    10:38:17  DSH
NEWREL         TRADING RELATIONSHIP SETUP                          04-30-11    10:57:15  DSH
NEWRELANYR    NEW RELATIONSHIP TO RECEIVE ANYONE                 04-30-11    10:36:17  DSH
NEWRELANYS    NEW RELATIONSHIP TO SEND TO ANYONE                 04-30-11    10:37:26  DSH
RECEIVEALL    RECEIVE ALL DATA                                  04-30-11    10:39:03  DSH
RECVORDTES    RECEIVE ALL ORDTES                                 04-30-11    10:39:56  DSH

Additional Options
Type option (and Information), press Enter.
30=Generate Network
Bottom

Parameters or command
===>
F1=Help  F3=Exit  F12=Cancel  F15=Sort  F23=More Options  F24=More Keys
    
```

Figure 10.2 Work with Network Command Interface panel (EDIX851-FMT01)

To create a new Command Definition, type Option '1' and the new command ID on the key entry line and press **Enter**. New definitions can also be created by copying from an existing one.

This list can be sorted by Command ID or Description. The default sort order is Command ID.

## Network Command Definition

The Network Command Definition panel (EDIX852-FMT01), as shown below, is used to create and maintain INS-Tradanet Command Definitions. Each Definition is associated with a group of command detail records, which are processed together as a script.

The Command Definition is created using a unique Command ID. This Command ID is used when the GENINSCMD (Generate INS Command Scripts) command is processed to identify the specific command detail records which contain the INS-Tradanet commands to be used and their sequence.

```

EDIX852                Network Command Definition                EDI   04/30/11
FMT01                  12:00:00

Command ID . . . . . NEWREL

Division Code. . . . . 000
Command Desc . . . . . TRADING RELATIONSHIP SETUP
Network ID . . . . . TRADANET
Network Id Qualifier . . . . .
Receive Option . . . . . NG
Update Allowed . . . . . Y
Last Update Date . . . . . 04-30-11
Last Update User . . . . . EDI

F1=Help  F4=Prompt  F10=Update  F12=Cancel  F13=Services  F24=More Keys
    
```

Figure 10.3 Network Command Definition panel (EDIX852-FMT01)

Specify a description for this definition, a Network ID (partner), and Receive option. Press **F10** (Update) to create/update this Command Definition. You will be returned automatically to the Work with Network Command Interface panel (EDIX851-FMT01).

### Network ID and Qualifier

These fields identify the Partner ID and Qualifier, if necessary, that are used to process network commands. We suggest you set up a partner with an ID of TRADANET so that it is easily recognized. The partner profile identified must have an interchange ID of 'STX' in the control information. In addition, the first three characters of the Comm Profile ID on the control information for the partner must begin with 'INS'.

**Receive Option**

This field is a 2-position alphanumeric field that identifies the INS-Tradinet Receive Option that is used for extracting files from your mailbox. Valid values are:

- GO: Only untransmitted files/messages are sent to you. Once you have requested the files/messages, and the transmission is interrupted, only those files not marked as sent by Tradanet will be sent again on subsequent requests.
- NG: If the transmission is interrupted, Tradanet does not mark the files in that session as extracted and continues to resend the files until the session successfully completes.

**RECOMMENDATION** 

---

INS-Tradinet recommends using the value “NG” in this field.

---

## Defining the Network Commands (TSP Commands)

After the Network Command Definition is created, you need to define the Tradanet Standard Protocol (TSP) commands and parameters associated with it. This is done by creating command detail records containing the TSP commands in the sequence in which they should be executed. Any parameters the command uses during processing should be defined as well.

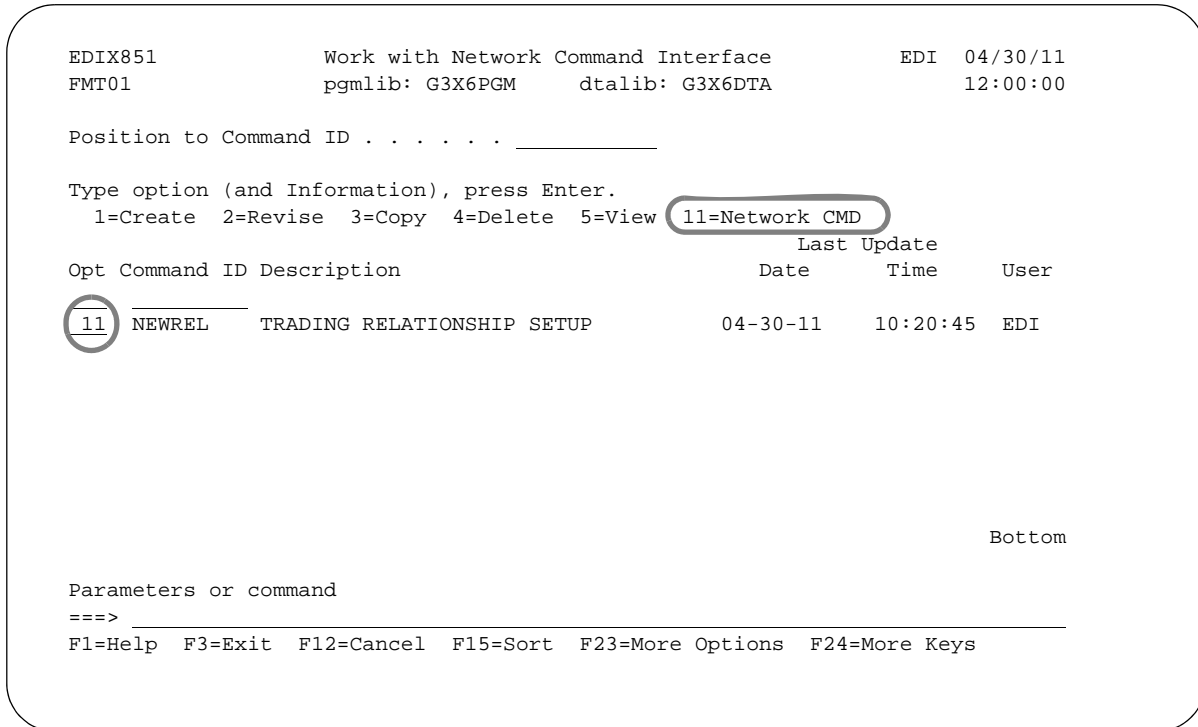


Figure 10.4 Work with Network Command Interface panel (EDIX851-FMT01)

To define the network commands, type ‘11’ in the Option field next to the Command Definition record for which you want to add or maintain command detail records and press **Enter**.



The Network Command panel (EDIX853-CTL01), as shown below, allows you to add, modify, or delete the TSP commands and parameters.

```

EDIX853                Network Command                EDI  04/30/11
CTL01                  12:00:00

Command ID . . . . . NEWREL
Network ID . . . . . TRADANET
Network Qualifier. . . . .
Command Description. . . . . TRADING RELATIONSHIP SETUP
Receive Option . . . . . NULL GO

Type option, press Enter.
  4=Delete

Opt  Sequence Network Cmd or Cmd Parameter
---  ---
  1  NEWREL
  2  6089
  3  *SEND
  4  *ESTABLISH
  5  INVOIC
---  ---
---  ---
More...
F1=Help  F4=Prompt  F5=Refresh  F10=Update  F12=Cancel  F24=More Keys
    
```

Figure 10.5 Network Command panel (EDIX853-CTL01)

 **NOTE**

SEE the Common Questions section at the end of this chapter for examples of TSP commands and parameters.

The TSP commands can be entered on this panel in any order. The Sequence field is used to indicate the order in which the INS-Tradnet network should process the commands. **Page Down** can be pressed to define additional TSP commands. Press **Enter** or **F10** (Update) to update the Command Definition with the detail command records.

In Figure 9.6, the TSP commands required to establish a new ‘SEND’ only relationship with a trading partner are shown. In this scenario, the trading partner’s user number (TUN) is ‘6089’ and the valid data type (ARPF) is ‘INVOIC.’

## Generate an INS Command Script

The Generate INS command script (GENINSCMD) command generates a network command “script” for the INS-Tradinet network. The system pads the values entered for the commands on the Network Command panel (EDIX853-CTL01) with the appropriate “fill” characters and places the resulting “script” on the outbound queue and transmits the script to the Tradinet network per the profile ID.

To access the Generate INS Command Script (GENINSCMD) panel:

- On the Work with Network Command Interface panel (EDIX851-FMT01), type ‘30’ in the Option field beside the Command ID for which you want to generate a script and press **Enter**.

```

EDIX851          Work with Network Command Interface      EDI   04/30/11
FMT01           pgmlib: G3X6PGM      dtalib: G3X6DTA      12:00:00

Position to Command ID . . . . . _____

Type option (and Information), press Enter.
 30=Generate Network

Opt Command ID Description                               Last Update
Date           Time           User
-----
(30) NEWREL     TRADING RELATIONSHIP SETUP              04-30-11    10:20:45    EDI

                                                                 Bottom

Parameters or command
====> _____
F1=Help  F3=Exit  F12=Cancel  F15=Sort  F23=More Options  F24=More Keys

```

Figure 10.6 Work with Network Command Interface panel (EDIX851-FMT01)

This command submits a batch job that initiates a special run of the outbound processing job stream to translate the script to EDI format, load it to the outbound queue, and transmits it to the INS-Tradanet network. The Generate INS Command Script (GENINSCMD) panel displays, as shown in the figure below.

```

Generate INS Command Script (GENINSCMD)

Type choices, press Enter.

INS Network Command Id . . . . . > 'NEWREL'      Command Id
SNRF Segment . . . . .           06             06, 14
Record Length . . . . .          512            080, 256, 512
Remove File Member . . . . .     *YES          *YES, *NO
Schedule Job ? . . . . .         *NO          *YES, *NO

Additional Parameters

Run Interactively ? . . . . .   *NO          *YES, *NO
Process Name . . . . .          GENINSCMD
Batch ID . . . . .              _____

_____

Bottom
F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display
F24=More keys

```

Figure 10.7 The Queue INS Network Commands (GENINSCMD) panel.

Sterling Gentran:Server allows for scripts to be transmitted in Version 1 or Version 2 format based on the value entered for the SNRF Segment parameter. The values entered on this panel are used to instruct Sterling Gentran:Server on how to set up the script format.

Specify the INS Network Command ID and press **Enter** to submit the job.

### Field Definitions for the Generate INS Command Script (GENINSCMD) panel:

#### **INS Network Command ID**

This is the Network Command ID, as defined in Work with Network Command Interface.

#### **SNRF Segment**

This field is used to define the length for the Sender Reference field which is part of the STX segment. (INS-Tradanet uses this field to check whether the file is a duplicate.) The value can be '6' or '14' depending on whether Version 1 or Version 2 format is being used. The default value for this parameter is '6' (Version 1).

#### **Record Length**

This field is used to define the length for each data record. Sterling Gentran:Server builds the scripts using this length record and pads the last record to fit this length. Valid values are '080,' '256' or '512' bytes. The default value is '512' bytes.

**Remove File Member**

This field is used to designate whether the system should delete the intermediate work files. Valid values are “\*YES” and “\*NO”. The default value is “\*YES”.

**Schedule Job**

This field is used to designate whether a Job Schedule should be set up for the processing run. If you enter “\*YES” then the Schedule Job (SCHJOB) panel will display where you can enter the parameters for the job schedule record.

**NOTE**

---

See “Job Scheduler” on page 1. the “Job Scheduler” chapter for more information about creating Job Schedules.

---

**Run Interactively**

This field is accessed by pressing **F10** (Additional Parameters). If you enter \*YES, the job is run interactively (immediately).

**NOTE**

---

If \*NO is entered for the Schedule Job and Run Interactively parameters, the job is submitted to batch to run immediately.

---

**Process Name**

This parameter allows you to uniquely identify the command or job flow in the Message Center. The default is the command name. It can be modified to any 15-byte alphanumeric value to further identify this process in the Message Center. The process name displays on the Work with Message Center panel and always tracks under this name.

## Common Questions

### What are the common Tradanet Network commands that can be set up?

This table provides examples of common mailbox functions that might be performed with the INS Tradanet Network. The user should have a Command ID for each function desired with a user-selected name (SEE the “Command Network Definition” section in this chapter for more information). Use option 11 (Network CMD) on the Work with Command Interface panel (EDIX851) to access the Network Command panel (EDIX853), where these entries can be added for each network function.

Purpose	Seq.	Network Cmd or Cmd Parameter
Daily maintenance (we suggest running daily)	10	LISTP
	20	LISTM
	30	GO
	40	DELF
	50	*BEFORECURRENT-03
To extract all files	10	GO ALL
To extract files with application reference of ORDTES	10	GO TYPE:ORDTES
For deleting ALL files (previously extracted)	10	DELF
	20	*ALL
For deleting files more than 3 days old	10	DELF
	20	*BEFORECURRENT-03
To generate and extract a mailbox list	10	LISTM
	20	GO TYPE:MBLIST
To generate and extract a postbox list	10	LISTP
	20	GO TYPE:PBLIST
To generate a new password (parameter 20 is the new password you want to create)	10	NEWP
	20	PASSWORD

**What are the common Tradanet Network commands that can be set up? Network Command Inter-**

---

<b>Purpose</b>	<b>Seq.</b>	<b>Network Cmd or Cmd Parameter</b>
To generate a new trading relationship (to receive any document from any trading partner)	10	NEWREL
	20	*ANYBODY
	30	*RECEIVE
	40	*ESTABLISH
	50	*ANY
To generate a new trading relationship (to send any document to any trading partner)	10	NEWREL
	20	*ANYBODY
	30	*SEND
	40	*ESTABLISH
	50	*ANY

# Batch Error Message File

## In this Chapter

This chapter explains how to view and maintain the Batch Error Message File for Sterling Gentran:Server.

This chapter contains the following topics:

- What is the Batch Error Message File? . . . . . 11-2
- Batch Error Message File Panels . . . . . 11-3

# What is the Batch Error Message File?

The Sterling Gentran:Server Batch Error Message file contains system error messages that are used in the inbound and outbound processing programs. The four primary fields included in this file and their functions are described in this table.

Field Name	Description	Function
ERRNUM	Error Number	System error number used to identify a specific problem encountered in the batch processing.
ERRMSG	Error Description	Description of the error. This field can be modified by the user.
SYSCDE	Sterling Gentran Severity Code	<p>This is the Sterling Gentran severity assigned to the error in the batch programs. This code determines how the program is to function when an error is encountered, with the following actions:</p> <ul style="list-style-type: none"> <li>■ 00 No action taken</li> <li>■ 04 Informational Message</li> <li>■ 08 A warning has occurred at a segment or element level</li> <li>■ 12 An error has occurred causing a portion of the data to be suspended</li> <li>■ 16 Job aborted.</li> </ul> <p><b>Note</b> This field cannot be changed.</p>
USRCDE	User Severity Code	<p>This is the severity code utilized by the Message Center. It is initially set to match the SYSCDE value, but can be modified by the user.</p> <p><b>Note</b> Only those codes with a system severity code of 8 or lower can be modified.</p>



## NOTE

SEE the “System Messages” chapter in this guide for detailed information on errors, probable causes, and recommended solutions.



# Batch Error Message File Panels

The Batch Error Message File panel enables you to view and modify the batch error message file. To access this program, select option '11' from the Sterling Gentran:Server menu and press **Enter**.

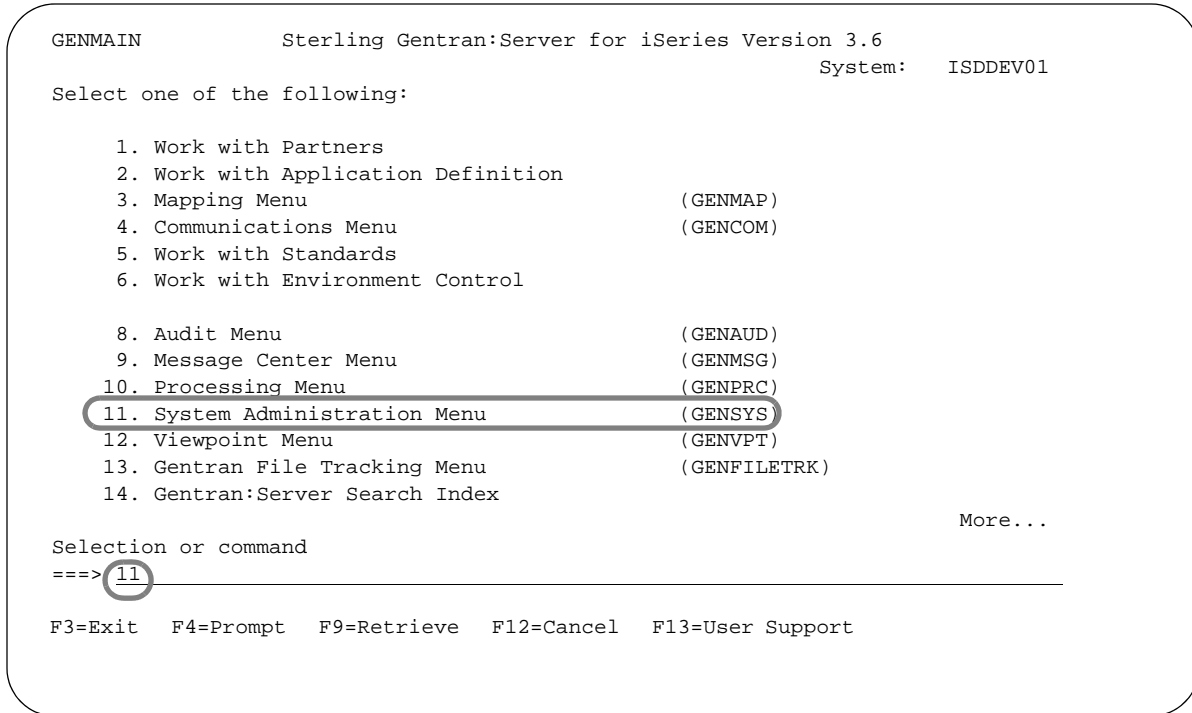


Figure 11.1 Sterling Gentran:Server (GENMAIN) panel

To access the Work with Batch Error Message File program, select option '5' from the System Administration menu as illustrated in the following figure:

```

GENSYS                Sterling Gentran:Server System Administration 3.6
                                System:   ISDDEV01

Select one of the following:

    1. Global Parameters
    2. Work with Job Scheduler
    3. Work with EDI Monitor
    4. Work with Network Command Interface
    5. Work with Batch Error Message File
    6. Set TELEKOM Network Processing Parameters (SETTELEKOM)
    7. Display Current Point Release (PTR)

    10. System Configuration Menu (GENSYSCFG)

    90. Sign off

Selection or command
====> 5
-----
F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F13=User Support
  
```

Figure 11.2 Accessing the Work with Batch Error Message File panel (EDIX620-FMT01)

The Work with Batch Error Message File panel (EDIX620) displays, listing all of the batch error messages in a subfile. All online tasks associated with the Batch Error Message file are available from the Work With Batch Error Message File panel.

```

EDIX620                Work with Batch Error Message File                EDI  04/30/11
FMT01                  pgmlib: G3X6PGM      dtalib: G3X6DTA                12:00:00

Position to Error Message Number

Type option (and Information), press Enter.
  2=Revise  5=View
Sterling Gentran User
Opt  Msg  Sev  Sev Message Description
---  ---  ---  ---
  1   16  16  VERSION CHANGED WHILE READING TRANSACTION RECORDS
  2   16  16  INDICATED INVALID KEY ENCOUNTERED WHILE REWRITING VERSION
  3   16  16  TRANSACTION RECORDS MISSING FOR THIS VERSION
  4   16  16  SEGMENT RECORDS MISSING FOR THIS VERSION
  5   16  16  ELEMENT ACTIVITY RECORDS MISSING FOR THIS VERSION - WARNI
  6   16  16  SEGMENT ELEMENT RECORDS MISSING FOR THIS VERSION
  7   16  16  ELEMENT DICTIONARY RECORDS MISSING FOR THIS VERSION
  8   16  16  LENGTHEN DICTIONARY TABLE - PROGRAM PROBLEM - CONTACT MAI
                                          More...

Parameters or command
====>
-----
F1=Help  F3=Exit  F6=More/Less  F12=Cancel  F15=Sort  F24=More Keys
  
```

Figure 11.3 Work with Batch Error Message File panel (EDIX620-FMT01)

## View More/Less of the Message Description

Press **F6** from the Work with Batch Error Message file panel to expand the subfile to display the remaining portion of the message description.

```

EDIX620          Work with Batch Error Message File          EDI 04/30/11
FMT01            pgmlib: G3X6PGM      dtalib: G3X6DTA        12:00:00

Position to Error Message Number _____

Type option (and Information), press Enter.
  2=Revise  5=View
          Sterling Gentran User
Opt  Msg  Sev  Sev Message Description
___  ___  ___  ___
___  1   16   16  VERSION CHANGED WHILE READING TRANSACTION RECORDS
___  2   16   16  INDICATED INVALID KEY ENCOUNTERED WHILE REWRITING VERSION
          RECORD
___  3   16   16  TRANSACTION RECORDS MISSING FOR THIS VERSION
___  4   16   16  SEGMENT RECORDS MISSING FOR THIS VERSION

More...

Parameters or command
====> _____
F1=Help  F3=Exit  F6=More/Less  F12=Cancel  F15=Sort  F24=More Keys

```

Figure 11.4 Work with Batch Error Message File panel (EDIX620-FMT01), illustrating more detail

## Sort

The default sort order for the Batch Error Message file is by Message number. You can override the default sort order using the Set Batch Error Message Sort option (SETERRSRT) on the System Configuration menu. (SEE Chapter 5, “System Considerations,” for more information about working with system configuration options.

To access the data in a different order, the following sort options are available by pressing F15 (Sort):

- Error Message Number
- Severity Error Message Number
- Description.

The following figure illustrates the sort feature:

```

EDIX620          Work with Batch Error Message File          EDI 04/30/11
FMT01           pgmlib: G3X6PGM          dtalib: G3X6DTA          12:00:00

Position to Error Message Number

Type option (and Information), press Enter.
  2=Revise  5=View
      Sterling Gentran User
Opt  Msg  Sev  Sev Message Description
-----
Position/Sort By
  1=Select
  ___ Message
  ___ Severity  Message
  1 Description
  F3=Exit  F12=Cancel

E READING TRANSACTION RECORDS
Y ENCOUNTERED WHILE REWRITING VERSION
MISSING FOR THIS VERSION
ING FOR THIS VERSION
ORDS MISSING FOR THIS VERSION - WARNI
RDS MISSING FOR THIS VERSION
ECORDS MISSING FOR THIS VERSION
TABLE - PROGRAM PROBLEM - CONTACT MAI
More...

el  F15=Sort  F24=More Keys

```

Figure 11.5 Work with Batch Error Message File panel (EDIX620-FMT01)

To change the sort option for the Batch Error Message file, press **F15** (Sort). Type '1' in the Option field next to the sort option that you want to use and press **Enter**. For this example, select the Description option.



**NOTE**

On the sort window, the cursor is initially positioned next to the current sort criteria.

This panel displays the data sorted by the Message Description field.

```

EDIX620          Work with Batch Error Message File          EDI 04/30/11
FMT01           pgmlib: G3X6PGM      dtalib: G3X6DTA          12:00:00

Position to Description _____

Type option (and Information), press Enter.
  2=Revise  5=View
      Sterling Gentran User
Opt  Msg  Sev  Sev Message Description
---  ---  ---  ---
___  239  00  00  ACKNOWLEDGE ERRORS VALUE MUST BE "Y" OR "N" OR "!" OR BLA
___  237  00  00  ACKNOWLEDGE INTERCHANGE VALUE MUST BE "Y" OR "N" OR "!" O
___  238  00  00  ACKNOWLEDGEMENT LEVEL MUST BE "G" OR "T" OR "!" OR BLANK.
___  294  00  00  ACTION CODE ON TRANSACTION MUST BE "A", "C", OR "D".
___  177  00  00  ACTION TYPE MUST BE ONE OF: SE CE SC CC AV CV ZS
___  139  04  04  AC1 SEGMENT CANNOT BE GENERATED AS REQUESTED - TABLES DO
___  187  00  00  ADD VALUE WITHOUT ACCUMULATOR FIRST DEFINED; ENTRY SKIPPE
___  132  04  04  AK1 SEGMENT CANNOT BE GENERATED AS REQUESTED - TABLES DO
                                                    More...

Parameters or command
====> _____
F1=Help  F3=Exit  F6=More/Less  F12=Cancel  F15=Sort  F24=More Keys

```

Figure 11.6 Work with Batch Error Message File panel (EDIX620-FMT01)



#### NOTE

When a sort option is selected, the display is positioned at the first Batch Error Message File record in the sort order. This may not always be the most convenient starting point for your inquiry. To optimally position the display, use the “Position To” field.

## Batch Error Message Work With Options

You can execute the following options from the Work with Batch Error Message File panel (EDIX620-FMT01):

- Revise a record
- View a record.

## Revise a Batch Error Message Record

You have the capability to revise the error description for any Batch Error Messages. Additionally, you can modify the user severity code of any Batch Error Message whose original severity code is 8 or less. By modifying the user severity code, you could be notified of certain errors more easily in the Message Center. The description can also be modified to assist in problem determination.

To revise a record in the Batch Error Message file, type '2' in the Option field next to the entry that you want to modify and press **Enter**. A second panel, Work with Batch Error Message File (EDIX620-FMT02) displays, allowing you to make the necessary changes. Press **F10** to update the modified record and return to the subfile.

The following figures illustrate the modification of a batch error message record:

```

EDIX620          Work with Batch Error Message File          EDI 04/30/11
FMT01           pgmlib: G3X6PGM      dtalib: G3X6DTA         12:00:00

Position to Description _____

Type option (and Information), press Enter.
  2=Revise  5=View
          Sterling Gentran User
Opt  Msg  Sev  Sev Message Description
---  ---  ---  ---
   608   04   04  AN UNDEFINED APPLICATION RECORD TYPE WAS RECEIVED.
   646   16   16  APPLICATION FIELD DEFINITION TABLE IS FULL.
  (2) 606   08   08  APPLICATION INPUT FILE IS EMPTY.
   672   00   00  APPLICATION LOOP DEFINED THAT IS NOT IN TRANSACTION.
   643   16   16  APPLICATION LOOP TABLE IS FULL.
   642   16   16  APPLICATION RECORD DEFINITION TABLE IS FULL.
   651   16   16  APPLICATION SELECT FIELD NOT IN APPLICATION FIELDS DEFINI
   365   16   16  ATTEMPT MADE TO WRITE PAST END OF SEGMENT ELEMENT TABLE E
                                                More...

Parameters or command
===> _____
F1=Help  F3=Exit  F6=More/Less  F12=Cancel  F15=Sort  F24=More Keys

```

Figure 11.7 Work with Batch Error Message File panel (EDIX620-FMT01)

Modify the fields and press **F10** (Update).

EDIX621	Batch Error Message File Control	EDI 04/30/11
FMT01		12:00:00
Error Message Number . . . . .	606	
Gentran Severity Code. . . . .	08	
User Severity Code . . . . .	08	
Message Description. . . . .	<u>APPLICATION INPUT FILE IS EMPTY.</u>	
Update Allowed . . . . .	<u>N</u>	
Last Update User . . . . .	SEC	
Last Update Date . . . . .	04-30-11	
F1=Help F4=Prompt F5=Refresh F10=Update F12=Cancel F24=More Keys		

Figure 11.8 Work with Batch Error Message File panel (EDIX621-FMT01)

## View a Batch Error Message File Record

You may view a specific batch error message file record by entering option '5' next to the record you wish to view and pressing **Enter**.

```

EDIX620          Work with Batch Error Message File          EDI 04/30/11
FMT01           pgmlib: G3X6PGM      dtalib: G3X6DTA        12:00:00

Position to Description _____

Type option (and Information), press Enter.
  2=Revise  5=View
      Sterling Gentran User
Opt  Msg  Sev  Sev Message Description
---  ---  ---  ---
  608   04   04  AN UNDEFINED APPLICATION RECORD TYPE WAS RECEIVED.
  5  646   16   16  APPLICATION FIELD DEFINITION TABLE IS FULL.
  606   08   08  APPLICATION INPUT FILE IS EMPTY.
  672   00   00  APPLICATION LOOP DEFINED THAT IS NOT IN TRANSACTION.
  643   16   16  APPLICATION LOOP TABLE IS FULL.
  642   16   16  APPLICATION RECORD DEFINITION TABLE IS FULL.
  651   16   16  APPLICATION SELECT FIELD NOT IN APPLICATION FIELDS DEFINI
  365   16   16  ATTEMPT MADE TO WRITE PAST END OF SEGMENT ELEMENT TABLE E
                                          More...

Parameters or command
====> _____
F1=Help  F3=Exit  F6=More/Less  F12=Cancel  F15=Sort  F24=More Keys

```

Figure 11.9 Work with Batch Error Message File panel (EDIX620-FMT01)

The Batch Error Message File Control panel (EDIX621-FMT01) is displayed below:

```

EDIX621          Batch Error Message File Control          EDI 04/30/11
FMT01           12:00:00

Error Message Number . . . . . 608
Gentran Severity Code. . . . . 04
User Severity Code . . . . . 04
Message Description. . . . . AN UNDEFINED APPLICATION RECORD TYPE WAS
RECEIVED.
Update Allowed . . . . . N
Last Update User . . . . . SEC
Last Update Date . . . . . 04-30-11

F1=Help  F4=Prompt  F12=Cancel  F24=More Keys

```

Figure 11.10 Batch Error Message File Control panel (EDIX621-FMT01)



# **12 System Configuration File**

## **In this Chapter**

This chapter is intended for the EDI Coordinator, and covers the following topics:

- What is the System Configuration File? . . . . . 12-1
- Using the System Configuration Menu. . . . . 12-7

## **What is the System Configuration File?**

The System Configuration file (SYSCFG) contains system configuration information used by Sterling Gentran:Server to determine how online information should be displayed and/or configured. The SYSCFG file resides in the Sterling Gentran data library. You can use the iSeries command 'DSPFFD FILE(SYSCFG)' to see a complete list of the fields.



---

### **RECOMMENDATION**

The System Configuration file should be regarded as a high security file. Modifications to it should be made with care and access to it should be limited to your EDI System Administrator.

---

### **How to Maintain the System Configuration File**

All options except Relationship Mode Auditing can be maintained from the Sterling Gentran System Configuration menu (GENSYSFG) in the System Administration subsystem. You can also access the menu by typing the command 'GO GENSYSCFG' on the command line.

### **Set Default Sort Options**

This option includes many fields in the System Configuration file and determines the default sort option that should be used when presenting a Work with panel. A field exists for each Work with panel in the product; however, only a subset of panels have been modified to utilize this feature. More screens will be converted to use this feature in the future. The fields are specific to each panel, such as SCSRTnnn, where nnn represents the last three numbers for the corresponding panel name.

## Parameters

The parameters in the file that are used in this release and their functions are shown in this table.

Parameter (Field Name)	Function
Relationship Mode Auditing  (SCAUDREL)	<p>Turns relationship mode auditing on or off (both user and partner ID displayed or not).</p> <p>Initially, the SYSCFG file contains a flag to determine whether Relationship Mode Auditing is active (the flag is set automatically when the global parameter, Relationship Mode Auditing, is modified). This flag is used to determine how to present the Audit panels. The system default is 'N' (Off).</p> <p>For more information, see Chapter 7, Audit.</p>
Binary Data Pointer (SCFLG03)	<p>The flag controls the processing of the binary segments. The system default is 'Y'.</p> <p>When the flag is 'Y' or space, the binary data will be written to a new file regardless of the binary length. 'BINARY LIBRARY123Filename12' followed by a segment terminator will be written to the intermediate file in place of the binary data in the BIN02/BDS03 element. The Library/filename is the location where the binary data was written.</p> <p>When the flag is 'N' and the binary length is greater than 265, the binary segment will be processed as described above. When the length of the binary data is less than 265, the actual binary data will be written to the intermediate file but the data will still be written to a new file.</p>
Set Sterling Gentran Break Year  (SCY2K)	<p>When no century is provided in data, the break year is used to determine century for date processing. The system default is '40.'</p>
Set Sterling Gentran Date Format for Commands  (SCDTFMT)	<p>The format to be used for dates displayed and entered on command panels. The system default is '*ENVCTL.'</p>
Set Network Report Archive Flag  (SCNETA)	<p>Determines whether network reports received in data format are archived in a unique member. By default, the report data is cleared after being posted to the network status file (TRKFNF).</p>
Set Extended Map More/Less Option  (SCEMAP)	<p>Sets the default mode for the extended mapping screens (EDIX508 and EDIX513) to display more or less information.</p>

Parameter (Field Name)	Function
Set Mapper Reports Option (SCFLG04)	Determines whether or not to generate the mapper processing reports (EBDI041 and EBDI042) during mapping if there are no errors encountered.
Set Partner Sort Option (SCSRT005)	Sets default sort order for the Work with Partner panel: <ul style="list-style-type: none"> <li>○ Partner, Qualifier</li> <li>○ Partner Name</li> <li>○ X-Ref, Qualifier</li> <li>○ Partner, Qualifier, X-Ref, Qualifier</li> </ul> The system default is 'Partner, Qualifier.'
Set Application Definition Sort Option (SCSRT550)	Sets default sort order for the Work with Application Definition panel: <ul style="list-style-type: none"> <li>○ Application ID</li> <li>○ Description</li> </ul> The system default is 'Application ID.'
Set Transaction Mapping Sort Option (SCSRT500)	Sets default sort order for the Work with Transaction Mapping panel: <ul style="list-style-type: none"> <li>○ Transaction ID</li> <li>○ Description</li> <li>○ Application ID</li> <li>○ Send/Receive</li> </ul> The system default is 'Transaction ID.'
Set Audit Interchange Sort Option (SCSRT251)	Sets default sort order for the Work with Audit Interchange panel: <ul style="list-style-type: none"> <li>○ Partner, Qualifier, Send/Receive</li> <li>○ Send/Receive, Partner, Qualifier</li> <li>○ Control, Partner</li> <li>○ Created Date</li> <li>○ Partner, Qualifier, Created Date</li> </ul> The system default is 'Partner, Qualifier, Created Date.'

Parameter (Field Name)	Function
Set Audit Group Sort Option (SCSRT252)	Sets default sort order for the Work with Audit Group panel: <ul style="list-style-type: none"> <li>○ Partner, Qualifier, Send/Receive</li> <li>○ Functional Group, Partner, Qualifier</li> <li>○ Created Date, Partner</li> <li>○ Created Date, Functional Group</li> </ul> The system default is 'Partner, Qualifier, Send/Receive.'
Set Inbound Queue Sort Option (SCSRT407)	Sets default sort order for the Work with Inbound Queue Control panel: <ul style="list-style-type: none"> <li>○ Profile ID, Profile Sequence #</li> <li>○ Created Date, Time</li> <li>○ Status, Batch Sequence #</li> <li>○ Batch Sequence #</li> </ul> The system default is 'Profile ID, Profile Sequence #.'
Set Outbound Queue Sort Option (SCSRT404)	Sets default sort order for the Work with Outbound Queue Control panel: <ul style="list-style-type: none"> <li>○ Profile ID, Profile Sequence #</li> <li>○ Created Date, Time</li> <li>○ Status, Batch Sequence #</li> <li>○ Batch Sequence #</li> </ul> The system default is 'Profile ID, Profile Sequence #.'
Set Comm History Log Sort Option (SCSRT406)	Sets default sort order for the Work with Communications History Log panel: <ul style="list-style-type: none"> <li>○ Start Date</li> <li>○ Comm Profile ID, Comm Stamp, Sequence #.</li> </ul> The system default is 'Comm Profile ID, Comm Stamp, Sequence #.'
Set Job Scheduler Sort Option (SCSRT412)	Sets default sort order for the Work with Job Scheduler panel: <ul style="list-style-type: none"> <li>○ Job Name, Sequence</li> <li>○ Start Date</li> <li>○ Status</li> </ul> The system default is 'Job Name, Sequence.'

Parameter (Field Name)	Function
Set Message Center Sort (SCSRT600)	Set default sort order for the Work with Message Center panel: <ul style="list-style-type: none"> <li>○ All Jobs: Date, Time</li> <li>○ All Jobs: Process, Date, Time</li> <li>○ All Jobs: User, Date, Time</li> <li>○ All Jobs: Job Name, Date, Time</li> <li>○ All Jobs: Msg Seq#</li> <li>○ All Jobs: Command, Date, Time</li> <li>○ Error Jobs: Date, Time</li> <li>○ Error Jobs: Process, Date, Time</li> <li>○ Error Jobs: User, Date, Time</li> <li>○ Error Jobs: Job Name, Date, Time</li> <li>○ Error Jobs: Command, Date, Time</li> </ul> The system default is 'All Jobs: Date, Time.'
Set Batch Error Msg Sort (SCSRT620)	Sets default sort order for the Work with Batch Error Message file: <ul style="list-style-type: none"> <li>○ Error Message</li> <li>○ Severity, Error Message Number</li> <li>○ Description</li> </ul> The system default is 'Error Message.'
Set Sterling Gentran File Tracking Sort (SCFL08)	Sets the default sort order for the Sterling Gentran File Tracking system: <ul style="list-style-type: none"> <li>○ Date, Time</li> <li>○ Program, Date, Time</li> <li>○ Subsystem, Date, Time</li> <li>○ User, Date, Time</li> </ul>
Set W/W Communications Sort (SCFLG400)	Set default sort order for the Work with Communications panel: <ul style="list-style-type: none"> <li>○ Profile ID</li> <li>○ Company</li> <li>○ Used Most Frequently</li> </ul>

Parameter (Field Name)	Function
Set Auto Notification Sort Option (SCFLGIS)	Set default sort order for the Work with Automatic Notification panel: <ul style="list-style-type: none"> <li>○ Process Name, Command Name, Return Code</li> <li>○ Process Name, Return Code</li> <li>○ Command Name, Return Code</li> <li>○ Return Code</li> </ul> The default is 'Process Name, Command Name, Return Code.'
Set 571 Error Detail Option (SCFLG06)	Allows you to turn on or off the use of the 571 error in both the inbound and outbound editors
Set Lead Zero Option (SCFLG07)	Allows you to turn on or off the use of the leading zero in front of an 'R' type decimal digit that has a value of less than 1.
Set Mapper Detail Option (SCLFG09)	Determines whether or not to generate the application and the map names on the mapper reports (EBDI041 and EBDI042) when Mapper Debug Report parameter is set to *NO and SETMAPRPT is set to *YES.

All but the first two of the parameters, Relationship Mode Auditing and Binary Data Pointer, can be accessed through the System Configuration menu in the System Administration subsystem. The System Configuration menu is discussed in the next section.

## Using the System Configuration Menu

The System Configuration menu enables you to set options on the System Configuration file (SYSCFG). The System Configuration file is located in the Sterling Gentran data library (G3X6DTA) and contains information about how your EDI system is set up. The fields being used in this release are detailed in this section. Other fields are reserved for future use.

To access the System Configuration Menu, select option '11' on the GENMAIN menu and press **Enter**. The System Administration menu displays, as shown in the following figure.

```
GENSYS                Sterling Gentran:Server System Administration 3.6
                                System:  ISDDEV01

Select one of the following:

    1. Global Parameters
    2. Work with Job Scheduler
    3. Work with EDI Monitor
    4. Work with Network Command Interface
    5. Work with Batch Error Message File
    6. Set TELEKOM Network Processing Parameters (SETTELEKOM)
    7. Display Current Point Release (PTR)
    10. System Configuration Menu (GENSYSCFG)
    90. Sign off

Selection or command
===> 10
-----
F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F13=User Support
```

Figure 12.1 Select the System Configuration Menu from the System Administration Menu

To go to the System Configuration menu, select option '10' from the System Administration menu, as shown in Figure 12.1 and press **Enter**.

 **NOTE**

The System Configuration menu can also be accessed by using the command, 'GO GENSYS CFG.'

The System Configuration menu displays, as shown in the following figure.

```

GENSYSCFG          Sterling Gentran:Server System Configuration 3.6
                                                              System:   ISDDEV01
Select one of the following:

  1. Set Sterling Gentran Break Year          (SETGENYR)
  2. Set Sterling Gentran Date Format for Commands (SETGENMDF)
  3. Set Extended Map More/Less Option      (SETEXTMAP)
  4. Set Network Report Archive Flag        (SETNETARC)
  5. Set Binary Data Library                (SETBINLIB)
  6. Set Binary Mapping Option              (SETBINMAP)
  7. Set Mapper Reports Option              (SETMAPRPT)
  8. Set User Exit Detail Option            (SETUSREXT)

 10. Set Partner Sort Option                (SETPARSRT)
 11. Set Application Definition Sort Option (SETAPPSRT)
 12. Set Transaction Mapping Sort Option    (SETTRNSRT)
 13. Set Audit Interchange Sort Option      (SETAUDISRT)
 14. Set Audit Group Sort Option            (SETAUDGSRT)

Selection or command
===> 1

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F13=User Support
    
```

Press the Page Down key to view the remaining menu options

More...

```

GENSYSCFG          Sterling Gentran:Server System Configuration 3.6
                                                              System:   ISDDEV01
Select one of the following:

 15. Set Inbound Queue Sort Option          (SETINBQSRT)
 16. Set Outbound Queue Sort Option         (SETOUTQSRT)
 17. Set Comm History Log Sort Option       (SETCOMHSRT)
 18. Set Job Scheduler Sort Option          (SETJOBSSRT)
 19. Set Message Center Sort Option         (SETMSGSRT)
 20. Set Batch Error Msg Sort Option        (SETERRSRT)
 21. Set File Tracking Sort Option          (SETFTRKSRT)
 22. Set W/W Communications Sort            (SETCOMMSRT)

 30. Set Auto Notification Sort Option      (SETAUTOSRT)

 40. Set 571 Error Detail Option            (SET571ERR)
 41. Set Lead Zero Option                   (SETLEAD0)
 42. Set Mapper Detail Option               (SETMAPDPTL)

More...

Selection or command
===>

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F13=User Support
    
```



```
GENSYSCFG          Sterling Gentran:Server System Configuration 3.6
                                     System:   ISDDEV01
Select one of the following:

90. Sign off

Selection or command                                     Bottom
===> _____
F3=Exit   F4=Prompt   F9=Retrieve   F12=Cancel   F13=User Support
```

Figure 12.2 Selecting an option from the System Configuration Menu

To select one of the options on the System Configuration menu, type the option number on the command line and press **Enter**. The command panel for the option selected displays. Each of the options on the System Configuration menu is described in this section.



### RECOMMENDATION

When selecting the options from the System Configuration menu, driver programs are used to retrieve the current value for the option and are then displayed on the command. If you update the option using the command from the command line instead of this menu, the current value will not be displayed.

---

## Set Sterling Gentran Break Year

### What is the “Break Year?”

The break year is defined as the year that determines to which century the year belongs. If the input date is less than the break year, it is determined to be in the 2000s and is assigned a century of ‘20’ or ‘1.’ Otherwise, it is determined to be in the 1900s and is assigned a century of ‘19’ or ‘0.’

The default break year is consistent with the IBM cut off year of ‘40.’

With the exception of the mappers, all internal processing of dates in Sterling Gentran:Server must include the century to ensure the integrity of processing. The dates are handled internally in one of two ways:

1. In the format YYYYMMDD (uses a 2-digit century), or,
2. In the format CYMMDD (uses a 1-digit century).

The exception for the inbound and outbound mappers is that they use IBM-supplied user exits to convert the dates in and out of Lilian format to ensure they integrity of the full century date without making any assumptions for the century value.

### Break Year Examples

The following are examples of various input dates and the resulting date determined by Sterling Gentran:Server. Examples are shown in \*YMD format with and without the century and assume the default break year of ‘40.’

Input date	Input Date Format	Sterling Gentran date (yyymmdd)
980301	yymmdd	199880301
199990412	yyymmdd	19990412
1000101	cyymmdd	20000101
301215	yymmdd	20301215
800828	yymmdd	19800828
20151101	yyymmdd	20151101

```
Set Sterling Gentran Break Year (SETGENYR)

Type choices, press Enter.

Sterling Gentran Break Year . . . . . > 40          Break Year

Bottom
F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
```

Figure 12.3 Set Sterling Gentran Break Year Command

## Field Description

### Set Sterling Gentran Break Year

Select this option to set the break year for Year 2000 processing.

If Sterling Gentran:Server encounters a 2-digit date during online or batch processing, the break year determines which century to use.

If a date has a year that is lower than that of the break year, Sterling Gentran:Server uses '20' as the 2-digit century and '1' as the 1-digit century. For example, if the break year is '40' and the date being evaluated has a year of '17,' the values '20' and '1' would be used as the century, resulting in '2017' or '117.'

If a date has a year that is greater than or equal to that of the break year, Sterling Gentran:Server will use '19' as the 2-digit century and '0' as the 1-digit century. For example, if the break year is '40' and the date being evaluated has a year of '52,' the values '19' and '0' would be used as the century, resulting in '1952' or '052.'

## Set Sterling Gentran Date Format

### What is the Sterling Gentran Date Format?

The date format is used for processing Sterling Gentran commands. Prior to Release 3.1, dates entered on Sterling Gentran commands typically were expected to be entered in the same format as the job date format (defaulted from the system date format). Subsequent releases can be configured to allow dates to be entered on commands in any format desired.

### Default Format

For new users, the system default will be ‘\*ENVCTL,’ which indicates that the format from the Environment Control user profile should be used.

### Sample Panel

Figure 12.4 illustrates the Set Sterling Gentran Date Format command panel.

```
Set Sterling Gentran Date Format (SETGENFMT)

Type choices, press Enter.

Sterling Gentran Date Format . . . > *ENVCTL *JOB, *SYSVAL, *MDY, *MDYY...

F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
```

Bottom

Figure 12.4 Set Sterling Gentran Date Format Command

## Valid Values

The valid values for Date Format field are described in this table.

Date Format Value	Description
*JOB	The date has the format specified by the job attribute, DATFMT.
*SYSVAL	The date has the format specified by the system value, QDATFMT.
*ENVCTL	The date has the format specified by the date format specified in the Environment Control for the user.
*MDY	The date has the month, day, year format: mmddy.
*MDYY	The date has the month, day, year format: mmddyyy.
*DMY	The date has the day, month, year format: ddmmy.
*DMYY	The date has the day, month, year format: ddmmyyy.
*YMD	The date has the year, month, day format: yymmdd.
*YYMD	The date has the year, month, day format: yyymmdd.
*JUL	The date has the julian format: yyddd.
*LONGJUL	The date has the long julian format: yyyyddd.
*USA	The date has the United States date format: mm/dd/yyyy.
*EUR	The date has the European date format, dd.mm.yyyy.
*ISO	The date has the International Organization for Standardization (ISO) date format: yyyy-mm-dd.
*JIS	The date has the Japanese Industrial Standard (JIS) date format: yyyy-mm-dd.
*CYMD	The date has the century, year, month, day format: cyymmdd, where c is 0 for years in the 1900's and is 1 for years in the 2000's.

To see these values on the command panel, press **F4** (Prompt) with the cursor positioned in the Date Format field.

## Set Extended Map More/Less Option

This option sets the default mode (either More or Less) for the Extended Mapping panels (EDIX508 and EDIX513). By default, the Less mode is used to simplify the information being displayed. For more experienced users, the More mode can be useful for quick mapping since the additional information about the segment and element displays. After retrieving the panel, you can toggle between modes by pressing **F2**.

### Sample Panel

Figure 12.5 illustrates the Set Extend Map More/Less Flag command panel. The system default is \*MORE.

```
Set Extend Map More/Less Flag (SETEXTMAP)

Type choices, press Enter.

Show More or Less on Ext. Map . > *MORE      *MORE, *LESS

Bottom
F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display
F24=More keys
```

Figure 12.5 Set Extend Map More/Less Flag (SETEXTMAP)

## Set Network Report Archive Flag

This option determines whether network reports received in data format are archived in a unique member. By default, the report data is cleared after it is posted to the Network Status file, TRKFNF. This affects reports only from the following networks:

- COMMERCE: Network (using report files COMNETFIL and COMNETFILA)
- GEIS (using report file GEISNETFIL)
- Advantis (using file IBMNETFIL).

### Sample Panel

Figure 12.6 illustrates the Set Network Archive command panel. The system default is \*NO.

```
Set Network Archive Flag (SETNETARC)

Type choices, press Enter.

Archive Network Reports? . . . . > *YES      *YES, *NO

Bottom
F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display
F24=More keys
```

Figure 12.6 Set Network Archive Flag (SETNETARC)

## Set Mapper Reports Option

This option determines whether to print the inbound or the outbound mapper reports (EBDI041 and EBDI042) when there are no errors encountered. By default, the report is generated regardless if there are errors in the report.

### Sample Panel

Figure 12.7 illustrates the Set Mapper Reports Option command panel. The system default is \*NO.

```
Set Mapper Reports Option (SETMAPRPT)

Type choices, press Enter.

Mapper Reports Option . . . . . > *YES      *YES, *NO

Bottom
F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
```

Figure 12.7 Set Mapper Reports Option (SETMAPRPT)



## Set User Exit Detail Option

This option determines whether to log detailed user exit information in the joblogs of the PRCTRININ and PRCTRNOOUT jobs. When \*NO is selected, no additional information about user exits are logged in the joblog. When blank or \*YES is selected, the user exit being called is displayed along with a snapshot of the user area before and after the processing of the user exit in the joblog.

### Sample Panel

Figure 12.8 illustrates the Set User Exit Detail Option command panel. The system default is \*YES.

```
Set User Exit Detail Option (SETUSREXT)

Type choices, press Enter.

User Exit Detail Option . . . . . *YES_      *YES, *NO

F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display
F24=More keys

Bottom
```

Figure 12.8 Set User Exit Detail Option (SETUSREXT)

## Set Partner Sort Option

Use this option to set the default sort option for the Work with Partners panel (EDIX005-FMT01).

### Who is impacted by this option?

Changing the default sort option impacts all users in the same Sterling Gentran:Server environment.

### Sample Panel

Figure 12.9 illustrates the Set Partner Sort Option command panel. The system default is Partner, Qualifier.

```

                                Set Partner Sort (SETPARSRT)

Type choices, press Enter.

Partner/Qual . . . . . > *YES          *NO, *YES
Partner Name . . . . . > *NO           *NO, *YES
X-Ref/Qual . . . . . > *NO            *NO , *YES
Partner/Qual/X-Ref/Qual . . . . > *NO      *NO, *YES

                                Bottom
F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display
F24=More keys

```

Figure 12.9 Set Partner Sort Command

## Set Application Definition Sort Option

Use this option to set the default sort option for the Work with Application Definition panel (EDIX550-FMT01).

### Who is impacted by this option?

Changing the default sort option impacts all users in the same Sterling Gentran:Server environment.

### Sample Panel

Figure 12.10 illustrates the Set Application Definition Sort Option command panel. The system default is Application ID.

```

                                Set Application Def. Sort (SETAPPSRT)

Type choices, press Enter.

Application ID . . . . . > *YES          *NO, *YES
Description . . . . . > *NO           *NO, *YES

                                Bottom
F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
  
```

Figure 12.10 Set Application Definition Sort Command

## Set Transaction Mapping Sort Option

Use this option to set the default sort option for the Work with Transaction Mapping panel (EDIX500-FMT01).

### Who is impacted by this option?

Changing the default sort option impacts all users in the same Sterling Gentran:Server environment.

### Sample Panel

Figure 12.11 illustrates the Set Transaction Mapping Sort Option command panel. The system default is Transaction ID.

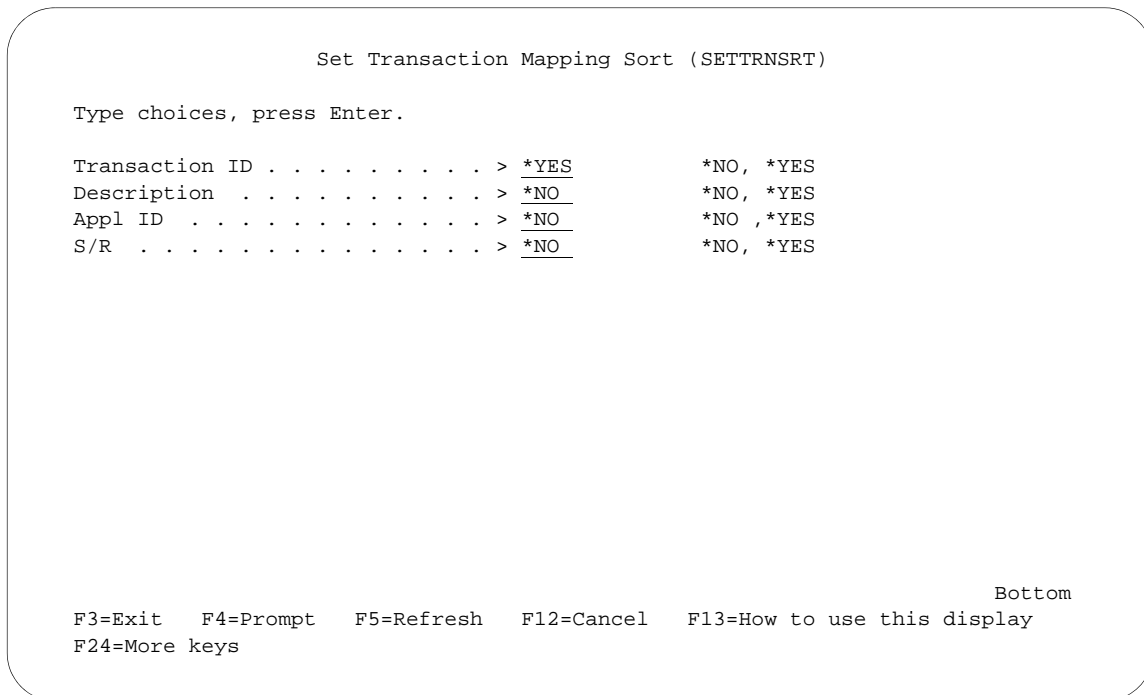


Figure 12.11 Set Transaction Mapping Sort Command

## Set Audit Interchange Sort Option

Use this option to set the default sort option for the Work with Audit Interchange Status panel (EDIX251-FMT01).

### Who is impacted by this option?

Changing the default sort option impacts all users in the same Sterling Gentran:Server environment.

### Sample Panel

Figure 12.12 illustrates the Set Audit Interchange Sort Option command panel. The system default is Partner, Qualifier, Send/Receive.

```

                                Set Audit Interchange Sort (SETAUDISRT)

Type choices, press Enter.

Part Qual S/R . . . . . > *NO           *NO, *YES
S/R Part Qual . . . . . > *NO           *NO, *YES
Control Part . . . . . > *NO           *NO, *YES
Created . . . . . > *NO             *NO, *YES
Part Qual Created . . . . . > *YES        *NO, *YES

                                                                    Bottom
F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys

```

Figure 12.12 Set Audit Interchange Sort Command

## Set Audit Group Sort Option

Use this option to set the default sort option for the Work with Audit Group Status panel (EDIX252-FMT01).

### Who is impacted by this option?

Changing the default sort option impacts all users in the same Sterling Gentran:Server environment.

### Sample Panel

Figure 12.13 illustrates the Set Audit Group Sort Option command panel. The system default is Partner, Qualifier, Send/Receive.

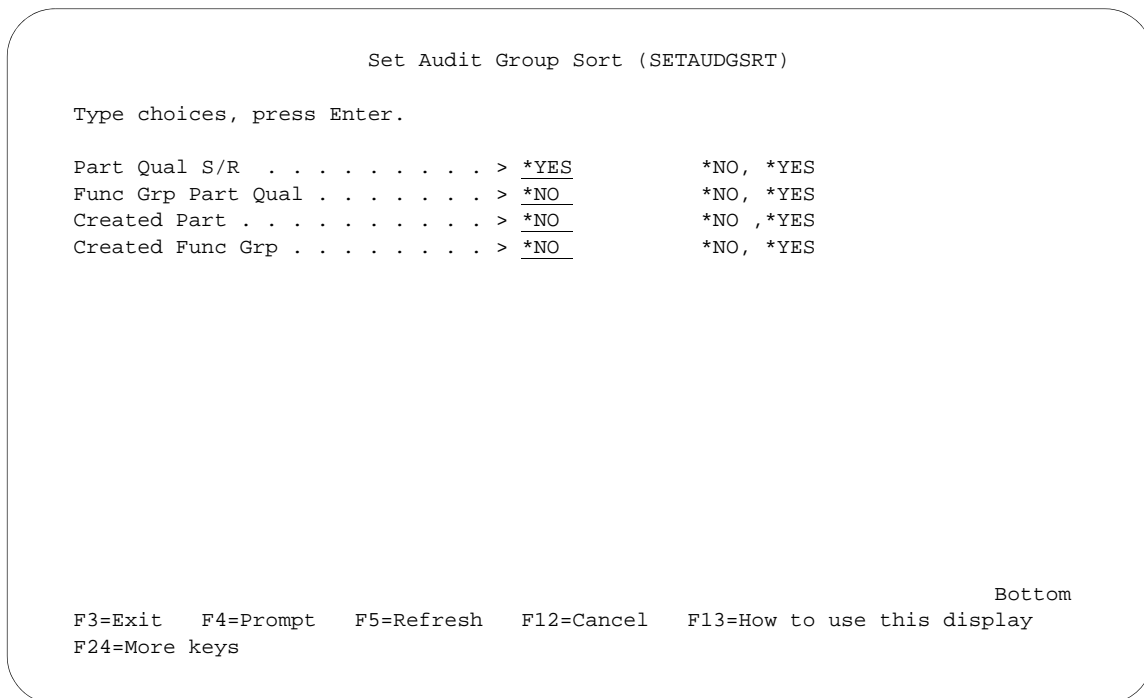


Figure 12.13 Set Audit Group Sort Command

## Set Inbound Queue Sort Option

Use this option to set the default sort option for the Work with Inbound Queue Control panel (EDIX407-FMT01).

### Who is impacted by this option?

Changing the default sort option impacts all users in the same Sterling Gentran:Server environment.

### Sample Panel

Figure 12.14 illustrates the Set Inbound Queue Sort Option command panel. The system default is Profile.

```

Set Inbound Queue Sort (SETINBQSRT)

Type choices, press Enter.

Profile . . . . . > *YES          *NO, *YES
Created . . . . . > *NO           *NO, *YES
Status . . . . . > *NO           *NO ,*YES
Batch Seq . . . . . > *NO         *NO, *YES

F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display
F24=More keys

Bottom
  
```

Figure 12.14 Set Inbound Queue Sort Command

## Set Outbound Queue Sort Option

Use this option to set the default sort option for the Work with Outbound Queue Control panel (EDIX404-FMT01).

### Who is impacted by this option?

Changing the default sort option impacts all users in the same Sterling Gentran:Server environment.

### Sample Panel

Figure 12.15 illustrates the Set Outbound Queue Sort Option command panel. The system default is Profile.

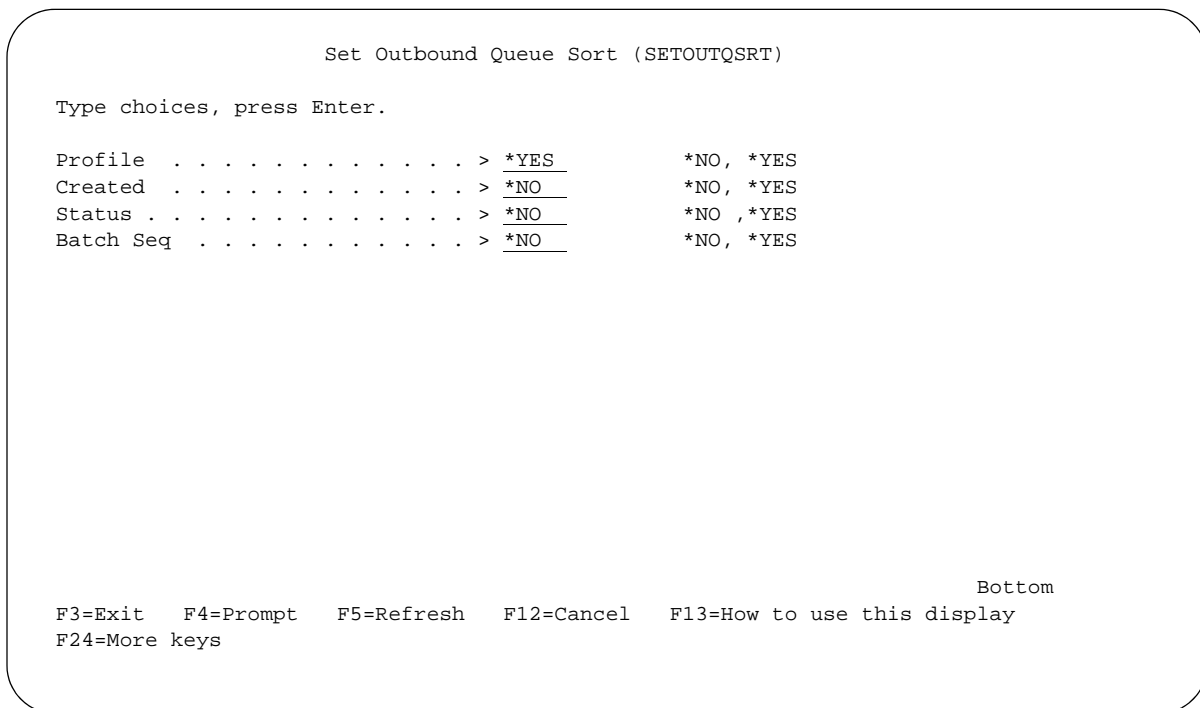


Figure 12.15 Set Outbound Queue Sort Command



## Set Comm History Log Sort Option

Use this option to set the default sort option for the Work with Communications History Log panel (EDIX406-FMT01).

### Who is impacted by this option?

Changing the default sort option impacts all users in the same Sterling Gentran:Server environment.

### Sample panel

Figure 12.16 illustrates the Set Comm History Log Sort Option command panel. The system default is Comm Profile ID.

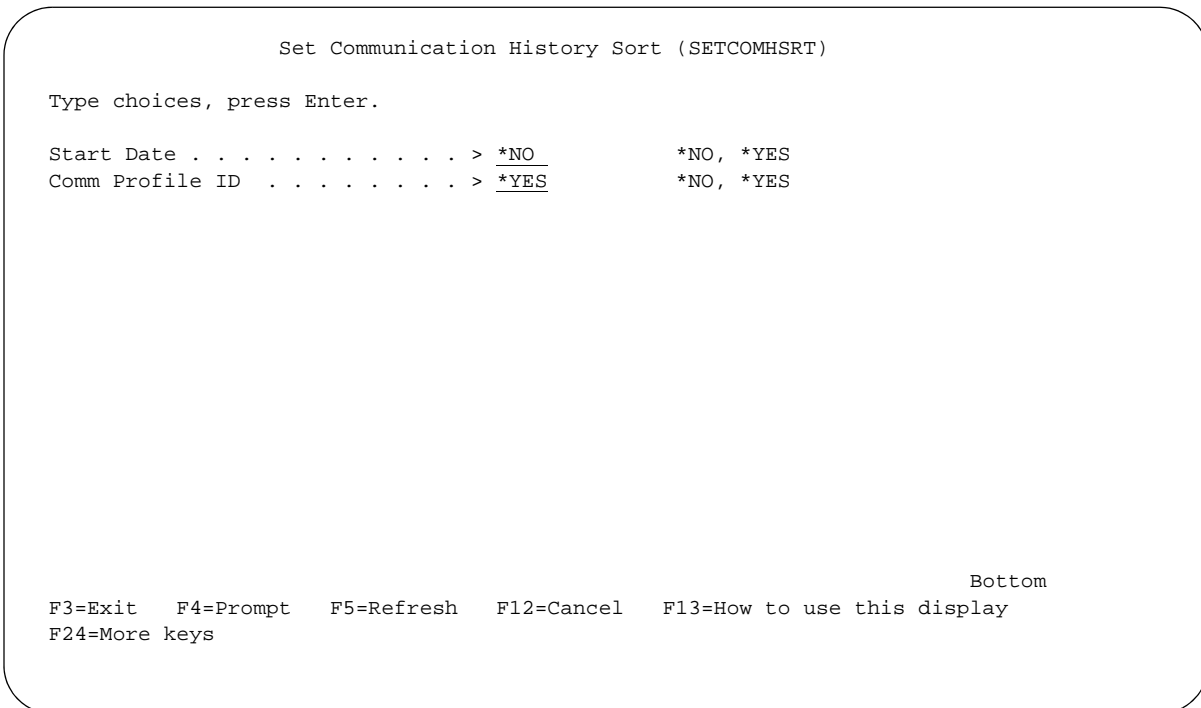


Figure 12.16 Set Communication History Sort (SETCOMMSRT)

## Set Job Scheduler Sort Option

Use this option to set the default sort option for the Work with Job Scheduler panel (EDIX412-FMT01).

### Who is impacted by this option?

Changing the default sort option impacts all users in the same Sterling Gentran:Server environment.

### Sample Panel

Figure 12.17 illustrates the Set Job Scheduler Sort Option command panel. The system default is Job Name.

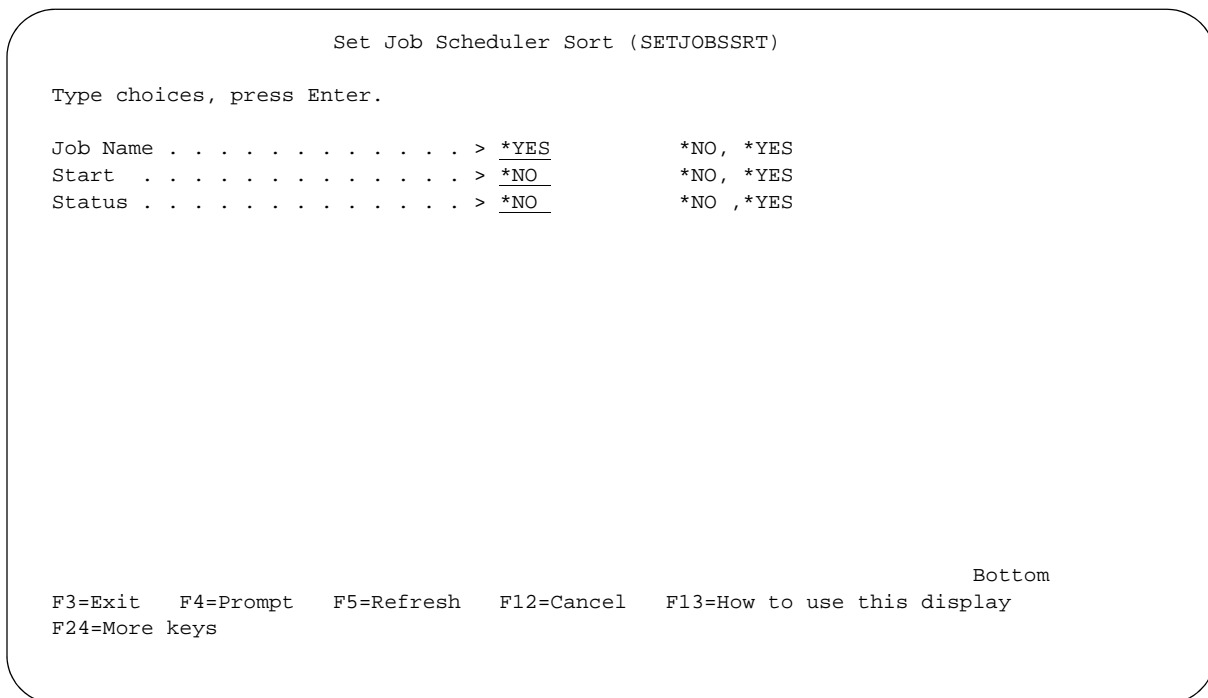


Figure 12.17 Set Job Scheduler Sort (SETJOBSSRT)

## Set Message Center Sort Option

Use this option to set the default sort option for the Work with Message Center panel (EDIX600).

### Who is impacted by this option?

Changing the default sort option impacts all users in the same Sterling Gentran:Server environment.

### Sample Panel

Figure 12.18 illustrates the Set Message Center Sort option command panel. The system default is All Jobs: Date/Time.

```

Set Message Center Sort (SETMSGSR)

Type choices, press Enter.

All Jobs: Date/Time . . . . . > *YES          *NO, *YES
All Jobs: Process/Date/Time . . . > *NO          *NO, *YES
All Jobs: User/Date/Time . . . . . > *NO          *NO, *YES
All Jobs: Job Name/Date/Time . . . > *NO          *NO, *YES
All Jobs: Msg Seq# . . . . . > *NO          *NO, *YES
All Jobs: Command/Date/Time . . . > *NO          *NO, *YES
Error Jobs: Date/Time . . . . . > *NO          *NO, *YES
Error Jobs: Process/Date/Time . . . > *NO          *NO, *YES
Error Jobs: User/Date/Time . . . . > *NO          *NO, *YES
Error Jobs: Job Name/Date/Time . . > *NO          *NO, *YES
Error Jobs: Command/Date/Time . . . > *NO          *NO, *YES

Bottom
F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display
F24=More keys

```

Figure 12.18 Set Message Center Sort (SETMSGSR)

# Set Batch Error Message Sort Option

Use the option to set the default sort option for the Work with Batch Error Message file panel (EDIX620).

## Who is impacted by this option?

Changing the default sort option impacts all users in the same Sterling Gentran:Server environment.

## Sample Panel

Figure 12.19 illustrates the Set Batch Error Message File Sort command panel. The system default is Message Number.

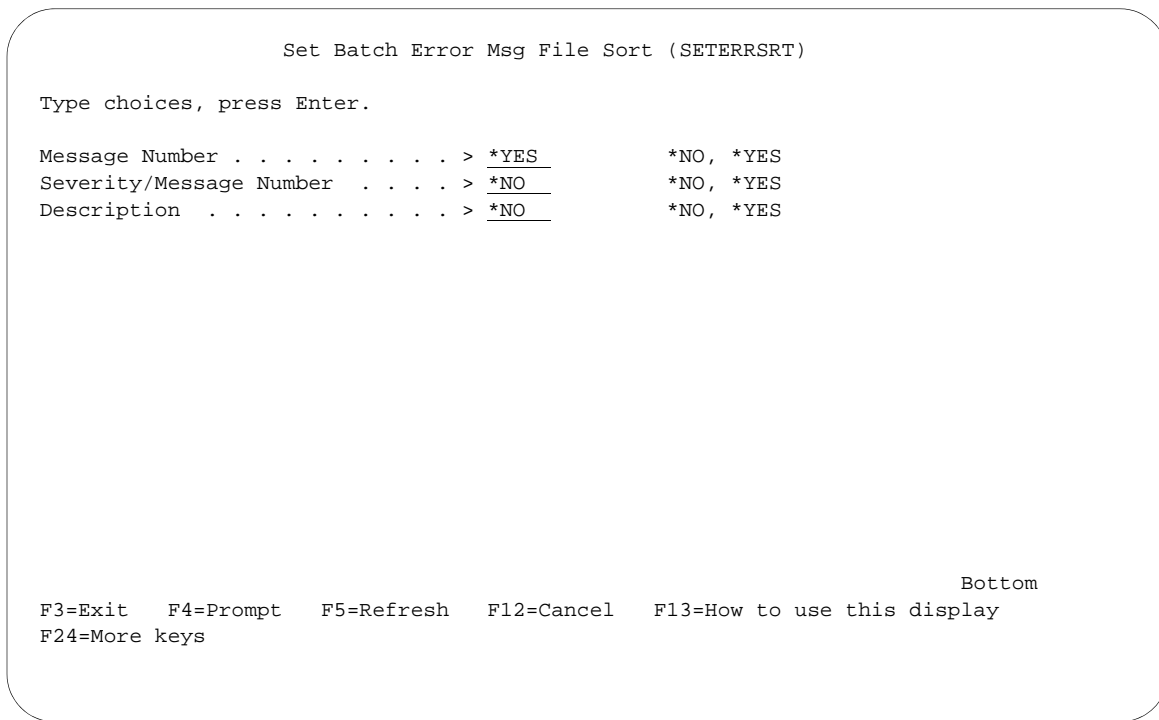


Figure 12.19 Set Batch Error Msg File Sort (SETERRSRT)

## Set the Sterling Gentran File Tracking Sort Option

Use the option to set the default sort option for the Work with Sterling Gentran File Tracking panel (EDIX650).

### Who is impacted by this option?

Changing the default sort option impacts all users in the same Sterling Gentran:Server environment.

### Sample Panel

Figure 12.20 illustrates the Set Sterling Gentran File Tracking Sort command panel. The system default is Date, Time.

```
Set Sterling Gentran File Tracking Sort (SETFTRKSRT)

Type choices, press Enter.

Date/Time . . . . . > *YES          *NO, *YES
Program/Date/Time . . . . . > *NO_     *NO, *YES
Subsystem/Date/Time . . . . . > *NO_     *NO, *YES
User/Date/Time . . . . . > *NO_         *NO, *YES

                                                                    Bottom
F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display
F24=More keys
```

Figure 12.20 Set Sterling Gentran File Tracking Sort Order (SETFTRKSRT)

## Set the W/W Communications Sort Option

Use the option to set the default sort option for the Work with Communications panel (EDIX400).

### Who is impacted by this option?

Changing the default sort option impacts all users in the same Genetran:Server environment.

### Sample Panel

Figure 12.21 illustrates the Set W/W Communications Sort Command panel. The system default is Profile ID.

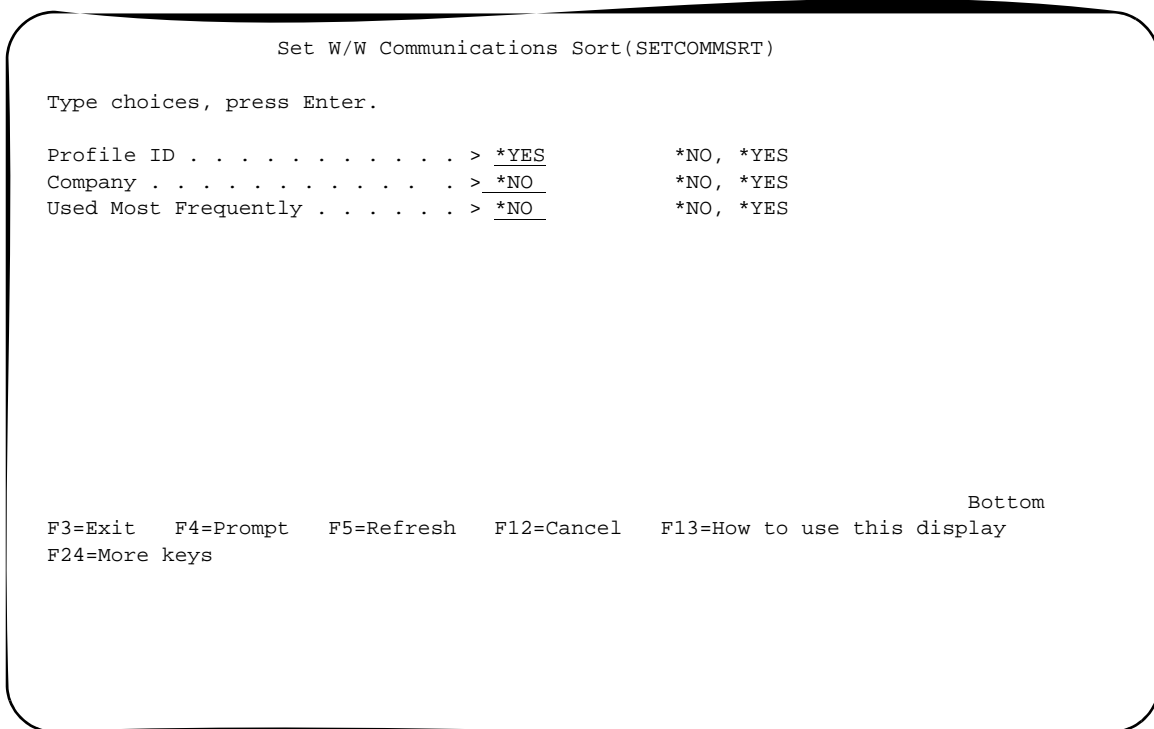


Figure 12.21 Set W/W Communications Sort Order (SETCOMMSRT)

## Set Auto Notification Sort Option

Use the option to set the default sort option for the Work with Automatic Notification panel (EDIX630-FMT01).

### Who is impacted by this option?

Changing the default sort option impacts all users in the same Sterling Gentran:Server environment.

### Sample panel

Figure 12.22 illustrates the Set Auto Notification Sort command panel. The system default is Process/Command/Return.

```

                                Set Auto Notification Sort (SETAUTOSRT)

Type choices, press Enter.

Process/Command/Return . . . . . > *NO           *NO, *YES
Process/Return Code . . . . . > *NO           *NO, *YES
Command/Return Code . . . . . > *NO           *NO, *YES
Return Code . . . . . > *NO           *NO, *YES

                                Bottom
F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display
F24=More keys
  
```

Figure 12.22 Set Auto Notification Sort (SETAUTOSRT)

## Set 571 Error Detail Option

The Set 571 Error Detail option command (SET571ERR) allows you to turn on or off the use of the 571 error in both the inbound and outbound editors. When this flag is set to \*YES and the version on the group envelope differs from the compliance version listed on the partner group record, the 571 error will be generated. When this flag is set to \*NO, the 571 error will *not* be generated regardless of the values on the group envelope and in the partner group record.

### Sample panel

Figure 12.23 illustrates the Set 571 Error Detail Option command panel. The system default is \*NO.

```
Set 571 Error Detail Option (SET571ERR)

Type choices, press Enter.

571 Error Detail Option . . . . > *NO      *YES, *NO

Bottom
F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
```

Figure 12.23 Set 571 Error Detail Option (SET571ERR)



## Set Lead 0 Option

The Set Lead Zero option command (SETLEAD0) allows you to turn on or off the use of adding a leading zero in front of an 'R' type decimal digit that has a value of less than 1. Enter a value of \*YES if you want an insignificant zero to be placed in your data for an 'R' type digit that is less than 1. (For example, **.25** would be represented as **0.25**.) Enter a value of \*NO if you do *not* want the insignificant zero placed in front of 'R' type digits that are less than 1.

### Sample panel

Figure 12.24 illustrates the Set Lead 0 Option command panel. The system default is \*NO.

```
Set Lead 0 for Decimal Option (SETLEAD0)

Type choices, press Enter.

Set Lead Zero Option . . . . .  *NO      *YES, *NO

                                     Bottom
F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display
F24=More keys
```

Figure 12.24 Set Lead 0 for Decimal Option (SETLEAD0)

## Set Mapper Detail Option

This option, together with the Set Mapper Report Option (SETMAPRPT), determines whether to generate the application and map names on the mapper reports (EBDI041 and EBDI042). When \*NO is selected for the Mapper Debug Report parameter (DEBUG) and you want to generate the application and map names, select \*YES for SETMAPRPT and SETMAPDTL.

### Sample panel

Figure 12.25 illustrates the Set Mapper Detail command panel. The system default is \*NO.

```
Set Mapper Detail Option (SETMAPDTL)

Type choices, press Enter.

Mapper Detail Option Report . .  *NO      *YES, *NO

                                     Bottom
F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
```

Figure 12.25 Set Mapper Detail Option (SETMAPDTL)

Figure 12.26

# **13 Sterling Gentrans File Tracking**

## **In this Chapter**

This chapter describes setting up, viewing, and using the Audit File tracking system for Sterling Gentrans:Server. The chapter covers the following topics:

- What is Gentrans File Tracking? . . . . . 13-1
- Panel Quick Reference . . . . . 13-2
- Access the Gentrans File Tracking Subsystem. . . . . 13-4
- Configure Gentrans File Tracking . . . . . 13-6
- Work with Gentrans File Tracking . . . . . 13-9
- Print the Gentrans File Tracking Report. . . . . 13-18
- Purge the File Tracking Entries (PRGFILETRK). . . . . 13-22
- Retrieve the Gentrans File Tracking Entries (RTVFILETRK). . . . . 13-25
- Reports . . . . . 13-27

## **What is Sterling Gentrans File Tracking?**

Sterling Gentrans:Server File Tracking is a method to monitor all changes that are made to the Sterling Gentrans File System. Any time a Sterling Gentrans field or file is modified, an entry is recorded in the Sterling Gentrans File Tracking system. These entries can be viewed or printed for audit purposes. The user can configure this system to capture all, none, or selected subsystems for file tracking.

## Panel Quick Reference

The following table gives the purpose and access methods for the panels in the File Tracking system.

Panel Name	Purpose	Access Methods
GENFILETRK Sterling Gentran:Server File Tracking Menu	Select an option to work with the File Tracking Subsystem.	<ul style="list-style-type: none"> <li>○ Select option '13' on the GENMAIN menu.</li> <li>○ Type 'GO GENFILETRK' on the command line.</li> </ul>
EDIX650-FMT01 Work with Sterling Gentran File Tracking	Display the Work with Sterling Gentran File Tracking entries.	<ul style="list-style-type: none"> <li>○ Select option '1' from the GENFILETRK menu.</li> <li>○ Type 'EXCPGM EDIX650' on the command line.</li> </ul>
EDIX651-FMT01 File Tracking Detail	View detailed information about the item that was modified in the Sterling Gentran file.	<ul style="list-style-type: none"> <li>○ Select option '5' on panel EDIX650-FMT01.</li> </ul>
EDIX660-FMT01 Sterling Gentran File Tracking Configuration	Display the configuration panel for Sterling Gentran File Tracking.	<ul style="list-style-type: none"> <li>○ Select option '2' on the GENFILETRK menu.</li> <li>○ Type 'EXCPGM EDIX660' on the command line.</li> </ul>
PRTFILETRK Print Sterling Gentran File Tracking entries	Print selected list of File Tracking entries.	<ul style="list-style-type: none"> <li>○ Select option '3' on the GENFILETRK menu.</li> <li>○ Select option '30' on panel EDIX650-FMT01.</li> <li>○ Type 'PRTFILETRK' on the command line.</li> </ul>
PRGFILETRK Purge Sterling Gentran File Tracking entries	Perform routine housekeeping purges on the File Tracking entries.	<ul style="list-style-type: none"> <li>○ Select option '4' on the GENFILETRK menu.</li> <li>○ Select option '40' on panel EDIX650-FMT01.</li> <li>○ Type 'PRGFILETRK' on the command line.</li> </ul>

## Sterling Gentran File Tracking

---

Panel Name	Purpose	Access Methods
RTVFILETRK Retrieve Sterling Gentran File Tracking entries	Retrieve the Sterling Gentran File Tracking entries from tape or save file.	<ul style="list-style-type: none"><li>○ Select option '5' on the GENFILETRK menu.</li><li>○ Select option '41' on panel EDIX650-FMT01.</li><li>○ Type 'RTVFILETRK' on the command line.</li></ul>

# Access the Sterling Gentran File Tracking Subsystem

The Sterling Gentran File Tracking Menu (GENFILETRK) is the starting point for all the tasks associated with configuring, viewing, and monitoring the File Tracking utility. From this panel, you can go to the Work with Sterling Gentran File Tracking entries, Configure the Sterling Gentran File Tracking, Print, Purge, and Retrieve the File tracking entries.

To access the Sterling Gentran File Tracking menu, select option '13' (Sterling Gentran File Tracking Menu) on the Sterling Gentran:Server for iSeries menu (GENMAIN).

```
GENMAIN          Sterling Gentran:Server for iSeries Release 3.6
                                     System:   IV5R2

Select one of the following:

    1. Work with Partners
    2. Work with Application Definition
    3. Mapping Menu                (GENMAP)
    4. Communications Menu        (GENCOM)
    5. Work with Standards
    6. Work with Environment Control

    8. Audit Menu                 (GENAUD)
    9. Message Center Menu        (GENMSG)
   10. Processing Menu            (GENPRC)
   11. System Administration Menu (GENSYS)
   12. Viewpoint Menu             (GENVPT)
   13. Sterling Gentran File Tracking Menu (GENFILETRK)
   14. Sterling Gentran:Server Search Index

More...

Selection or command
====>13_____

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F13=User Support
```

Figure 13.1 Access the Sterling Gentran File Tracking Menu from GENMAIN

The Sterling Gentran File Tracking Menu (GENFILETRK) is displayed.

```
GENFILETRK          Sterling Gentran:Server File Tracking 3.6
                                     System:   IV5R2
Select one of the following:

    1. Work with Sterling Gentran File Tracking
    2. Sterling Gentran File Tracking Configuration
    3. Print File Tracking Entry Report          (PRTFILETRK)
    4. Purge Sterling Gentran File Tracking Files (PRGF)
    5. Retrieve Sterling Gentran File Tracking Files (RTVF)

    90. Sign off

Selection or command
====>

F3=Exit   F4=Prompt   F9=Retrieve   F12=Cancel   F13=User Support
```

Figure 13.2 Sterling Gentran:Server File Tracking (GENFILETRK) panel

# Configure Sterling Gentran File Tracking

Use of the File Tracking is controlled through the Sterling Gentran File Tracking Configuration panel. You can globally turn on or off the File Tracking and select the specific subsystems that you wish to monitor from this screen.

To access the Configuration screen, select option '2' (Sterling Gentran File Tracking Configuration) from the Sterling Gentran:Server File Tracking Menu (GENFILETRK) as shown in the following figure:

```
GENFILETRK          Sterling Gentran:Server File Tracking 3.6
                                     System:   IV5R2

Select one of the following:

    1. Work with Sterling Gentran File Tracking
    2. Sterling Gentran File Tracking Configuration
    3. Print File Tracking Entry Report      (PRTFILETRK)
    4. Purge Sterling Gentran File Tracking Files (PRGFILETRK)
    5. Retrieve Sterling Gentran File Tracking Files (RTVFILETRK)

    90. Sign off

Selection or command
====>2_____

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F13=User Support
```

Figure 13.3 Access the Sterling Gentran File Tracking Configuration panel from GENFILETRK



## Modify the Sterling Gentran File Tracking Configuration

The Sterling Gentran File Tracking Configuration panel (EDIX660-FMT01) displays with the default values. This panel and the default values are illustrated below:

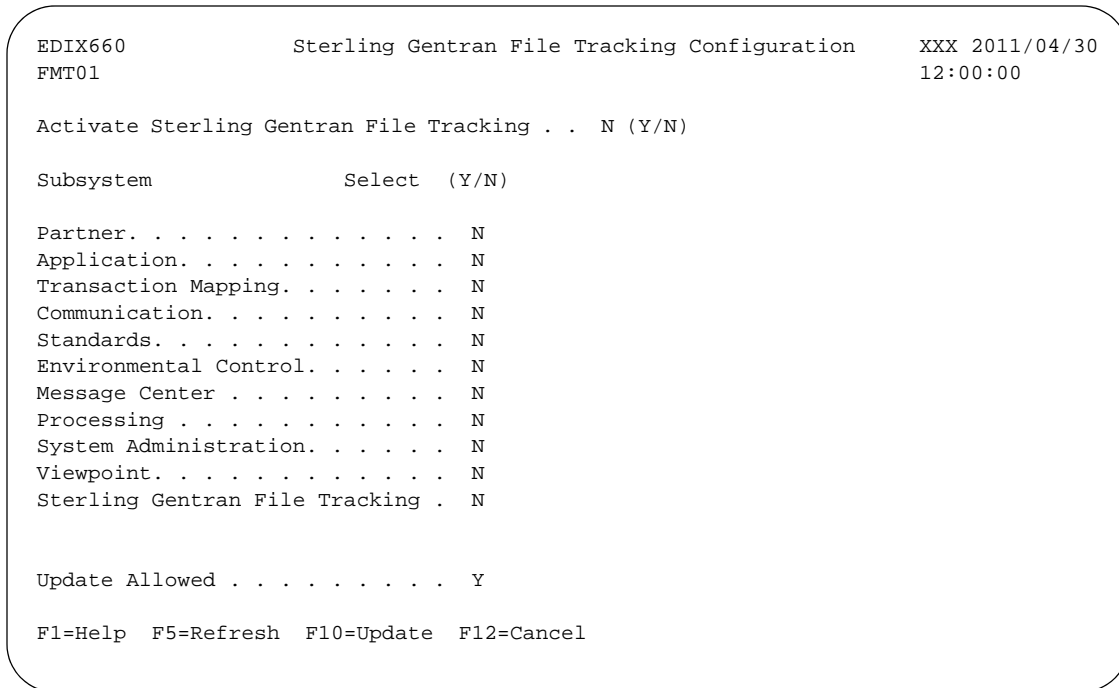


Figure 13.4 Sterling Gentran File Tracking Configuration panel (EDIX660-FMT01)

### Field Descriptions

#### Activate Sterling Gentran File Tracking

This parameter is used to turn on or off the entire File Tracking. To use the File Tracking utility, type 'Y' in this field. This activates File Tracking and allows you to select the desired subsystems you wish to monitor. If you wish to stop all File Tracking, type 'N' in this field and File Tracking will be disabled.

By using this field to turn the File Tracking on and off, you do not have to turn off each individual subsystem to disable the File Tracking Utility.

**Partner**  
**Application**  
**Transaction Mapping**  
**Communication**  
**Standards**  
**Environmental Control**  
**Message Center**  
**Processing**  
**System administration**  
**Sterling Gentran:Viewpoint**  
**Sterling Gentran File Tracking**

These fields represent each Subsystem that can be monitored in the File Tracking utility.

Valid values are:

- |          |   |
|----------|---|
| <b>Y</b> | 'Yes' activates the subsystem for File Tracking. Each time a Sterling Gentran field is modified in that subsystem, an entry will be recorded in the File Tracking system, giving detail information about the before and after information. |
| <b>N</b> | 'No' disables File Tracking for that subsystem. 'No' is the default.  |

**Update Allowed**

Determines whether or not you can update this panel.

- |          |   |
|----------|---|
| <b>Y</b> | 'Yes' allows the user to modify this panel. 'Yes' is the default. |
| <b>N</b> | 'No' does not allow any modifications to this panel.              |

# Work with Sterling Gentran File Tracking

To access the Work with Sterling Gentran File Tracking panel, select option '1' (Work with Sterling Gentran File Tracking) on the Sterling Gentran:Server File Tracking (GENFILETRK) menu.

```

GENFILETRK                Sterling Gentran:Server File Tracking 3.6
                                System:  IV5R2

Select one of the following:

    1. Work with Sterling Gentran File Tracking
    2. Sterling Gentran File Tracking Configuration
    3. Print File Tracking Entry Report          (PRTFILETRK)
    4. Purge Sterling Gentran File Tracking Files (PRGFILETRK)
    5. Retrieve Sterling Gentran File Tracking Files (RTVFILETRK)

    90. Sign off

Selection or command
====> 1_____

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F13=User Support

```

Figure 13.5 Access Work with Sterling Gentran File Tracking from GENFILETRK

All tracked changes that have occurred to Sterling Gentran files are available from the Work with Sterling Gentran File Tracking panel.

```

EDIX650                Work with Sterling Gentran File Tracking  XXX  2011/04/30
FMT01                  pgmlib: G3X6PGM      dtalib: G3X6TSTDTA      17:18:41

Position to                Date                Time  00:00:00.00
Type option (and Information), press Enter.
    4=Delete  5=View  6=Print  30=Prt FileTrk  40=Purge FileTrk  41=Rtv FileTrk

Opt  Date        Time        User        Program        Subsystem        Description
---  ---        ---        ---        ---        ---        ---
___  2011/04/30  15:49:07  IH          EDIX407A       COMM             Status of Batch cha
___  2011/04/30  15:48:59  IH          EDIX050        PARTNER         Deleted Data Separa
___  2011/04/30  15:48:37  IH          EDIX050        PARTNER         Added Data Separati
___  2011/04/30  15:48:27  IH          EDIX407A       COMM             Status of Batch cha
___  2011/04/30  15:47:56  IH          EDIX050        PARTNER         Added Data Separati
___  2011/04/30  15:47:33  IH          EDIX407A       COMM             Status of Batch cha
___  2011/04/30  15:46:49  IH          EDIX055        PARTNER         Reject Inbound Flag
___  2011/04/30  15:46:49  IH          EDIX055        PARTNER         Reject Outbound Fla
___  2011/04/30  15:46:46  IH          EDIX055        PARTNER         Reject Inbound Flag
                                           More...

Parameters or command
====>
F1=Help  F3=Exit  F9=Retrieve  F12=Cancel  F15=Sort

```

Figure 13.6 The Work with Sterling Gentran File Tracking panel (EDIX650-FMT01) display

## View the File Tracking Records

The Work with Sterling Gentran File Tracking panel (EDIX650-FMT01) is the starting point to view all messages logged in the File Tracking Subsystem. This panel displays the primary information associated with each entry in the File Tracking system.

### Field Definitions

**Date and Time**

The date and time that the file/field was modified

**User**

The user who made the change

**Program**

The program through which the change was made

**Subsystem**

The subsystem in which the change was made

**Description**

A description of the change that was made

### Sort Options

The default sort order for the Sterling Gentran File Tracking is Date/Time. You can override the default sort order using the 'Set File Tracking Sort Option' (SETFTRKSRT) on the System Configuration menu. (SEE the "System Considerations" chapter in this guide for more information about working with system configuration options.)

To access the data in a different order, use the following sort options:

- Date Time
- Program, Date, Time
- Subsystem, Date, Time
- User, Date, Time

**NOTE**

The Date/time sorts are in descending order.

---

The Position To fields can be used to quickly access the information being searched. These fields will change according to the selected sort option.

The following figure illustrates the sort feature. Press **F15** to display the Sort window.

```
EDIX650          Work with Sterling Gentran File Tracking   XXX  2011/04/30
FMT01           pgmlib: G3X6PGM      dtalib: G3X6TSTDTA      17:18:41

Position to _____ Date _____ Time 00:00:00.00
Type option (and Information), press Enter
  4=Delete 5=View 6=Print 30=Prt File

Opt  Date      Time      User      Position/Sort By
___  2011/04/30  15:49:07  IH        1=Select
___  2011/04/30  15:48:59  IH        _Date Time
___  2011/04/30  15:48:37  IH        _ Program Date Time
___  2011/04/30  15:48:27  IH        _ Subsystem Date Time
___  2011/04/30  15:47:56  IH        _ User Date Time
___  2011/04/30  15:47:33  IH
___  2011/04/30  15:46:49  IH
___  2011/04/30  15:46:49  IH        EDIX055  PARTNER  Reject Outbound Fla
___  2011/04/30  15:46:46  IH        EDIX055  PARTNER  Reject Inbound Flag
                                           More...

Parameters or command
===>
F1=Help  F3=Exit  F9=Retrieve  F12=Cancel  F15=Sort
```

Figure 13.7 Work with Sterling Gentran File Tracking panel (EDIX650-FMT01) - Sort Window

To select a sort option for the Sterling Gentran File Tracking, type '1' in the Option field next to the sort option you want to use and press **Enter**.

## Sterling Gentran File Tracking Work with options

You can run the following options from the Work with Sterling Gentran File Tracking panel (EDIX650-FMT01):

- Delete File Tracking Entries
- View File Tracking Details
- Print a File Tracking Entry
- Print File Tracking Entries based upon Selection Criteria
- Purge File Tracking Entries
- Retrieve File Tracking Entries

## Delete Records from the Sterling Gentran File Tracking

You can delete entries from the Sterling Gentran File Tracking if you have the proper authority. Prior to deleting records, it is important to have a clear understanding of your organization's procedures for managing the File Tracking files.



### CAUTION

Deletions cannot be reversed. Exercise caution when using the Delete option.

To delete an entry in the Sterling Gentran File Tracking, type '4' in the Option field next to the entries that you want to delete and press **Enter**. The item that you are deleting will be displayed on the Sterling Gentran File Tracking Control (EDIX651-FMT01) panel. You must press **F11** to confirm the deletion of the record. This confirmation panel will be displayed for each entry that has been selected for deletion.

The following figure shows the selection of a File Tracking entry to be deleted:

```

EDIX650          Work with Sterling Gentran File Tracking  XXX  2011/04/30
FMT01           pgmlib: G3X6PGM      dtalib: G3X6TSTDTA      12:00:00

Position to          Date          Time  00:00:00.00
Type option (and Information), press Enter.
  4=Delete  5=View  6=Print  30=Prt FileTrk  40=Purge FileTrk  41=Rtv FileTrk

Opt  Date          Time          User          Program        Subsystem      Description
___  2011/04/30    15:49:07    IH           EDIX407A      COMM          Status of Batch cha
___  2011/04/30    15:48:59    IH           EDIX050      PARTNER       Deleted Data Separa
___  2011/04/30    15:48:37    IH           EDIX050      PARTNER       Added Data Separati
4_  2011/04/30    15:48:27    IH           EDIX407A      COMM          Status of Batch cha
___  2011/04/30    15:47:56    IH           EDIX050      PARTNER       Added Data Separati
___  2011/04/30    15:47:33    IH           EDIX407A      COMM          Status of Batch cha
___  2011/04/30    15:46:49    IH           EDIX055      PARTNER       Reject Inbound Flag
___  2011/04/30    15:46:49    IH           EDIX055      PARTNER       Reject Outbound Fla
___  2011/04/30    15:46:46    IH           EDIX055      PARTNER       Reject Inbound Flag
                                           More...

Parameters or command
===>
F1=Help  F3=Exit  F9=Retrieve  F12=Cancel  F15=Sort

```

Figure 13.8 Work with Sterling Gentran File Tracking panel (EDIX650-FMT01) - Delete option

The confirmation displays as follows:

```
EDIX651                Sterling Gentran File Tracking Control          XXX 2011/04/30
FMT01                  12:00:00

Last Update Date/Time. . . . . 2011/04/30  15:48:27.20
User . . . . . IH
Subsystem. . . . . COMM
Program Name/Description . . . . . EDIX407A
File/Field Name. . . . . INBCTL      IQCSTS
Comm Profile ID. . . . . IHCOMM

Description of Change. . . . . Status of Batch changed

Item . . . . . Profile Seq. No: 0000537

Old Value
PI

New Value
RN

F1=Help  F11=Delete  F12=Cancel
```

**Figure 13.9 Sterling Gentran File Tracking Control panel (EDIX651-FMT01)**

Press **F11** to confirm the deletion process or **F12** to cancel the delete action.

## Display the File Tracking Details

Select option '5' (View) to display all details for a particular File Tracking record. To view the File Tracking details from the Work with Sterling Gentran File Tracking panel, type '5' in the Option field next to the entry that you want to display and press **Enter**.

```

EDIX650          Work with Sterling Gentran File Tracking   XX  2011/04/30
FMT01           pgmlib: G3X6PGM      dtalib: G3X6TSTDTA      12:00:00

Position to          Date          Time  00:00:00.00
Type option (and Information), press Enter.
  4=Delete  5=View  6=Print  30=Prt FileTrk  40=Purge FileTrk  41=Rtv FileTrk

Opt Date          Time          User          Program          Subsystem  Description
--- 2011/04/30   15:01:32   XXX          EBDI588          TRNMAP      27 TRNSEG records
--- 2011/04/30   15:01:32   XXX          EBDI588          TRNMAP      166 TRNELE records
--- 2011/04/30   15:01:32   XXX          EBDI588          TRNMAP      1 TRNHDR records a
_5 2011/04/30   11:29:58   XXX          EDIX504          TRNMAP      Max Use changed
--- 2011/04/30   11:29:54   XXX          EDIX504          TRNMAP      Max Use changed
--- 2011/04/30   16:15:49   XXX          EDIX513          TRNMAP      Deleted TRNELE reco
--- 2011/04/30   16:15:42   XXX          EDIX506          TRNMAP      Added TRNELE record
--- 2011/04/30   16:06:37   XXX          EDIX502          TRNMAP      1 TRNSEG records ad
--- 2011/04/30   16:06:37   XXX          EDIX502          TRNMAP      2 TRNELE records
                                          More...

Parameters or command
====>
F1=Help  F3=Exit  F9=Retrieve  F12=Cancel  F15=Sort

```

Figure 13.10 Work with Sterling Gentran File Tracking panel (EDIX650-FMT01) View Detail

The Sterling Gentran File Tracking Control panel displays showing the entry that was selected.

```

EDIX651          Sterling Gentran File Tracking Control   XXX 2011/04/30
FMT01                                           12:00:00

Last Update Date/Time. . . . . 2011/04/30   11:29:58.45
User . . . . . XXX
Subsystem. . . . . TRNMAP
Program Name/Description . . . . . EDIX504   Transaction Map Segments
File/Field Name. . . . . TRNSEG   TSDMUC
Transaction ID . . . . . P485041I
S/R. . . . . R
Description of Change. . . . . Max Use changed

Item . . . . . Seq:   100 Seg: BEG  A: H

Old Value
0000000

New Value
0000001

F1=Help  F12=Cancel

```

Figure 13.11 Sterling Gentran File Tracking Control panel (EDIX651-FMT01)



## View File Tracking Detail

The Sterling Gentran File Tracking Control (EDIX651-FMT01) panel displays the detailed information for the selected File Tracking entry.

### Field Definitions

**Last Update Date/Time**

The date and time when the selected item was modified

**User**

The user who modified the entry

**Subsystem**

The subsystem in which the change was made

**Program Name/Description**

The program and a description of the program through which the change was made

**File/Field Name**

The file and field name that was modified

**Transaction ID**

This label varies depending on which subsystem was modified.

The following table lists the label and definition that could be displayed for each subsystem.

Subsystem	Label	Description
PARTNER	Partner ID	Displays the Partner ID that was modified.
APPDEF	Application ID	Displays the Application ID that was modified.
TRNMAP	Transaction ID	Displays the Transaction ID that was modified.
TRNMAP	Split	Displays the Split file that was modified.
TRNMAP	Table ID	Displays the Table ID that was modified.
COMM	Comm Profile ID	Displays the Communications Profile ID that was modified.
COMM	MQ Link Name	Displays the MQ Link Name that was modified.
STANDARD	Standard	Displays the Standard that was modified.
ENVIRNMNT	User ID	Displays the User ID that was modified.
SYSTEM	Job Name	Displays the Job Name in the Scheduler that was modified.
SYSTEM	Error Message Number	Displays the Error Message Number that was modified.

Subsystem	Label	Description
SYSTEM	Function	Displays the system configuration value that was modified.
GENFILETRK	Function	Displays Sterling Gentran File Tracking Configuration.
VIEWPOINT	Document Name / S or R	Displays the Document name and direction for the Sterling Gentran:Viewpoint document that was modified.
VIEWPOINT	Return Code	Displays the return code of the automatic notification entry that was modified.
VIEWPOINT	Network ID	Displays the network ID that was modified in the Sterling Gentran:Viewpoint system.

**S/R**

This label varies depending on which subsystem was modified.

The following table lists the label and definition that could be displayed for each subsystem.

Subsystem	Label	Description
PARTNER	Partner Qualifier	Displays the Partner Qualifier that was modified.
APPDEF	S/R	Displays the direction of the Application (S=Send, R=Receive).
TRNMAP	S/R	Displays the direction of the Application (S=Send, R=Receive).
TRNMAP	Sub-Split	Displays the sub-split that was cleared.
TRNMAP	Type of Table	Displays the type of table that was modified.
COMM	Session Name	Displays the session name that was modified.
COMM	MQ Queue Name	Displays the MQ Queue name that was modified.
STANDARD	Transaction	Displays the Transaction that was modified.
STANDARD	Transaction/ Segment	Displays the Transaction/Segment combination that was modified.
STANDARD	Segment/ Element ID	Displays the Segment/Element that was modified.
STANDARD	Trans/Seg/ Element	Displays the Transaction/Segment/Element combination that was modified.

<b>Subsystem</b>	<b>Label</b>	<b>Description</b>
STANDARD	Element ID	Displays the Element ID that was modified.
ENVIRNMNT	Name	Displays the name of the user whose environment was modified.
SYSTEM	Sequence	Displays the sequence number of the job that was modified in the Job Scheduler.
SYSTEM	Date/Time	Displays the date and time of the instance that was modified in the Job Scheduler.
VIEWPOINT	Partner Id	Displays the Partner ID that is associated with the document ID that was modified.
VIEWPOINT	Process / Command Name	Displays the Process and Command name that was modified for the Automatic Notification .

**Description of Change**

A brief description of what was modified

**Item**

Additional information about the item that was modified when the other description lines cannot fully describe the item

**Old Value**

The old value of the item prior to the modification

**New Value**

The new value of the item after the modification has been made

# Print the Sterling Gentran File Tracking Report

The Sterling Gentran:Server system provides you with the ability to print a report containing information about File Tracking entries. There are two methods of printing the File Tracking information. You can either print one particular item or you can print multiple items based upon selection criteria.

To print a single entry, select option '6' (Print) from EDIX650 (FMT01), and the PRTFILETRK command is executed. It will produce report EBDI663, providing a printout of the particular item selected.

```

EDIX650          Work with Sterling Gentran File Tracking   XXX  2011/04/30
FMT01           pgmlib: G3X6PGM      dtalib: G3X6TSTDTA      12:00:00

Position to          Date 2011/04/30   Time  11:33:14.13
Type option (and Information), press Enter.
  4=Delete  5=View  6=Print  30=Prt FileTrk  40=Purge FileTrk  41=Rtv FileTrk

Opt Date          Time          User          Program        Subsystem      Description
-----
  2011/04/30  11:33:14  IH           EDIX407A      COMM          Status of Batch cha
6 2011/04/30  11:31:59  IH           EDIX407A      COMM          Status of Batch cha
  2011/04/30  11:31:53  IH           EDIX031      PARTNER       Expect an AK1, B5 o
  2011/04/30  11:31:53  IH           EDIX031      PARTNER       Acknowledge Specifi
  2011/04/30  11:31:53  IH           EDIX031      PARTNER       Group Acknowledgmen
  2011/04/30  11:31:53  IH           EDIX031      PARTNER       GS02 Applications S
  2011/04/30  11:30:51  IH           EDIX031      PARTNER       Send Group Outbound
  2011/04/30  11:28:14  IH           EDIX407A      COMM          Status of Batch cha
  2011/04/30  11:22:43  IH           EDIX407A      COMM          Status of Batch cha
                                          More...

Parameters or command
====>
F1=Help  F3=Exit  F9=Retrieve  F12=Cancel  F15=Sort

```

Figure 13.12 Printing one entry from the Sterling Gentran File Tracking System

The PRTFILETRK command will print multiple entries based on the selection criteria. This print option can be accessed from the Sterling Gentran:Server File Tracking menu (GENFILETRK) or the Work with Sterling Gentran File Tracking panel (EDIX650) using option '30'.

From the GENFILETRK menu, select option '3' (Print File Tracking Entry Report).

```
GENFILETRK          Sterling Gentran:Server File Tracking 3.6
                                     System:   IV5R2

Select one of the following:

    1. Work with Sterling Gentran File Tracking
    2. Sterling Gentran File Tracking Configuration
    3. Print File Tracking Entry Report      (PRTFILETRK)
    4. Purge Sterling Gentran File Tracking Files      (PRGFILETRK)
    5. Retrieve Sterling Gentran File Tracking Files      (RTVFILETRK)

    90. Sign off

Selection or command
===>  3

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F13=User Support
```

## Enter the Print Options

Sterling Gentran:Server provides several selection options that allow you to selectively print all of some of the entries in the File Tracking system. The system builds the selection criteria based on the combined values entered in the fields on the Print File Tracking Entries (PRTFILETRK) panel.

The selection criteria available are:

- Age Selection Type
- User Id to Print
- Subsystem to Print
- Program to Print

You can combine the print selection criteria with an "age" parameter. The "age" parameter reduces the selection of file tracking entries that are printed. You may select to search for records using:

- Current Date
- Date Range
- Number of Hours from the current hour
- Days Old Range

**NOTE**

SEE the File Tracking Entries Report (EBDI663) in “Reports” on page 27 for more information about the report.

To run the Print File Tracking Entries Report (GENFILETRK) command, specify the selection criteria and press **Enter**.

```

Print File Tracking Entries (PRTFILETRK)

Type choices, press Enter.

Age Selection Type . . . . . *DATE, *DAYS, *HOURS, *ALL
User Id to Print . . . . . *ALL *ALL, Name
Subsystem to Print . . . . . *ALL *ALL, Name
Program to Print . . . . . *ALL *ALL, Name

Bottom
F3=Exit F4=Prompt F5=Refresh F10=Additional parameters F12=Cancel
F13=How to use this display F24=More keys

```

Figure 13.13 Print File Tracking Entries (PRTFILETRK) Command

## Parameter Definitions

### Age Selection Type

A 6-position alphabetic field used to define an "age" record selection criteria for which you want to print File Tracking entries. After selecting one of the following valid values, the system displays a prompt line with an 8-position entry field enabling you to further define your selection. Valid values for this field are:

- |        |  |
|--------|--|
| *DATE  | Enables you to specify File Tracking records for a specific date, date range, or the current date. Only records within the specified date range are printed.   |
| *DAYS  | You can specify the number of days before the current date or any given day. Only records within the specified number of days are printed. Values are 0–999. Enter a "from" number and a "to" number. For example, if you entered '0' to '3', records 0–3 days old would be printed. |
| *HOURS | You can specify the number of hours to be included, starting from the current hour. Records between the current hour and the   |

number of hours you specified are printed. Values are 0–24. For example, if you only want to include data for items that were changed in the last 2 hours, specify 2. File Tracking entries 0–2 hours old are printed.

\*ALL All records are included.

If you type a value of '\*DATE' or '\*DAYS' in the Age Selection Type field and press **Enter**, the system displays the following prompt lines:

From #, \*CURRENT, or Date..\_\_\_\_

To #, \*CURRENT, or Date..\_\_\_\_

If you type a value of '\*HOURS' in the Age Selection Type field and press **Enter**, the system displays the following prompt line:

Hours to Include...\_\_\_\_

### **User Id to Print**

This is a 10-position alphanumeric field used to enter a specific Sterling Gentran user. By entering a specific user, only items modified by that user will print. Type \*ALL to select all users.

### **Subsystem to Print**

This is a 10-position alphabetic field used to enter a specific Sterling Gentran subsystem. By entering a specific subsystem, only items in that subsystem will print. Type \*ALL to select all subsystems.

### **Program to Print**

This is a 10-position alphanumeric field used to enter a specific Sterling Gentran program. By entering a specific program, only items that were changed using that program will print. Type \*ALL to select all programs.

### **Run Interactively**

This field is accessed by pressing **F10** to display additional parameters. It allows you to perform the process interactively. If you elect to run the command in interactive mode, you can monitor system messages that occur during processing. However, if you choose this option, your terminal is locked until the process is complete.

### **Schedule Job**

This field is accessed by pressing **F10** to display additional parameters. It allows you to schedule the job to be run at a later time using the Sterling Gentran job scheduler.

# Purge the File Tracking Entries (PRGFILETRK)

Each time a field is changed in a Sterling Gentran file that is marked to be tracked, a record is written in the Sterling Gentran File Tracking system. These records remain until you purge them. Sterling Gentran:Server provides a feature for purging the Sterling Gentran File Tracking system of old occurrences. This feature allows you to purge groups of records by using the selection criteria.

To purge the Sterling Gentran File Tracking files, select option '4' (Purge Sterling Gentran File Tracking Files) from the GENFILETRK menu and press **Enter**. The PRGFILETRK command can also be invoked from the Work with Sterling Gentran File Tracking panel (EDIX650) using option '40' (Purge FileTrk).

```
GENFILETRK                Sterling Gentran:Server File Tracking 3.6
                               System:  IV5R2

Select one of the following:

    1. Work with Sterling Gentran File Tracking
    2. Sterling Gentran File Tracking Configuration
    3. Print File Tracking Entry Report          (PRTFILETRK)
    4. Purge Sterling Gentran File Tracking Files      (PRGFILETRK)
    5. Retrieve Sterling Gentran File Tracking Files   (RTVFILETRK)

    90. Sign off

Selection or command
====> 4

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F13=User Support
```

Figure 13.14 Access the Purge Sterling Gentran File Tracking Files (PRGFILETRK) panel



Type your selection criteria on the PRGFILETRK panel and press **Enter** to run. Press **F1** (Help) for detailed information about any of the parameters.

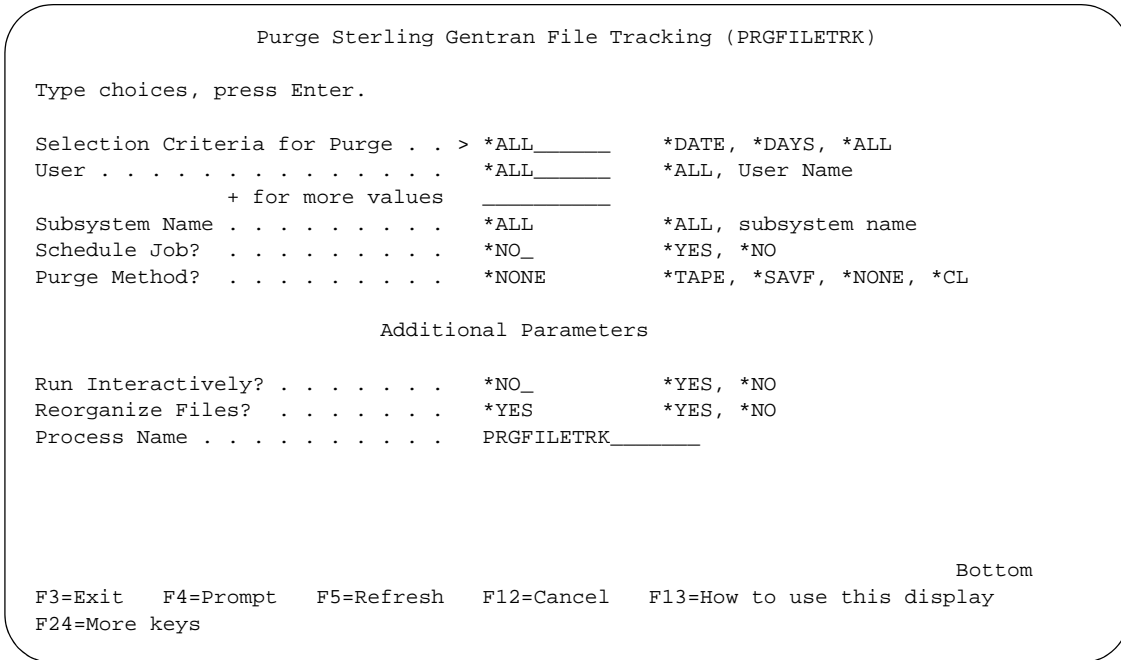


Figure 13.15 Purge Sterling Gentran File Tracking (PRGFILETRK) panel

You can execute the Purge Sterling Gentran File Tracking command in one of three modes:

- Press **Enter** to immediately submit the job to batch to run (this is the default).
- Press **F10** (Additional Parameters) and type '\*YES' in the Run Interactively field to run the job interactively (your terminal will be locked until the job completes).
- Press **F10** (Additional Parameters) and type '\*YES' in the Job Scheduler field to run the job at a later time.

## Parameter Definitions

### Selection Criteria for Purge

A 10-position alphanumeric field used to define a purge date. You can enter a date range. Type \*ALL to purge all entries, including the current date.

### User

This is a 10-position alphanumeric field used to enter a specific Sterling Gentran user. By entering a specific user, only entries modified by that user will be purged. Type \*ALL to select all users.

### Subsystem

This is a 10-position alphabetic field used to enter a specific Sterling Gentran subsystem. By entering a specific subsystem, only those entries in that subsystem will be purged. Type \*ALL to select all subsystems.

**Schedule Job?**

This alphanumeric field is used to designate whether you want to run this option by scheduling it as a job. \*NO is the default for this field.

**Purge Method?**

An alphanumeric field used to indicate whether the data should be saved to tape or to a save file. If you want the data to be saved to tape, specify '\*TAPE' or '\*CL'. Specify '\*CL' when using this command within a CL. If you want to save the data to a save file, specify '\*SAVF'. If you want the data purged without saving it, specify '\*NONE'.

## Additional Parameters

**Run Interactively?**

This parameter allows you to perform the purge process interactively. If you select to run the command in interactive mode (\*YES), you can monitor system messages that occur during processing. However, you are locked out of the system from the terminal where the job was submitted until the process is complete.

**Reorganize Files?**

An alphanumeric field used to indicate whether the physical file(s) should be reorganized using the RGZPFM command. Valid values are:

- |      |   |
|------|---|
| *YES | Reorganize files immediately after the purge has completed. |
| *NO  | Reorganize files at a later time.                           |

**Process Name**

This is used to label the command from the Message Center. The default for this prompt is the command name, but can be changed to any 15-byte field to help further identify this process. The process name displays on the first panel of the Work with Message Center (EDIX600) panel and always tracks under this name.

# Retrieve the Sterling Gentran File Tracking Entries (RTVFILETRK)

The Retrieve Sterling Gentran File Tracking Files (RTVFILETRK) command allows you to restore File Tracking entries that have been previously purged to tape or save file using the PRGFILETRK command.

To retrieve File Tracking files, select option '5' (Retrieve Sterling Gentran File Tracking Files) from the GENFILETRK menu and press **Enter**. The RTRFILETRK command can also be invoked from the Work with Sterling Gentran File Tracking (EDIX650) panel using option '41' (Rtv FileTrk).

```
GENFILETRK          Sterling Gentran:Server File Tracking 3.6
                                                              System:   IV5R2

Select one of the following:

    1. Work with Sterling Gentran File Tracking
    2. Sterling Gentran File Tracking Configuration
    3. Print File Tracking Entry Report          (PRTFILETRK)
    4. Purge Sterling Gentran File Tracking Files (PRGFILETRK)
    5. Retrieve Sterling Gentran File Tracking Files (RTVFILETRK)

    90. Sign off

Selection or command
===> 5

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F13=User Support
```

Figure 13.16 Accessing the Retrieve Sterling Gentran File Tracking Files (TRVFILETRK) command

Type your selection criteria on the RTVFILETRK command and press **Enter** to run. Press **F1** (Help) for detailed information about any of the parameters.

```

Retrieve File Tracking Files (RTVFILETRK)

Type choices, press Enter.

File Tracking Main File . . . . . GENAUD      Character value
File Tracking Large Chgs File . . GENAUD2     Character value
Library . . . . . G3X6DTA      Character value
Retrieve Method . . . . . _____ *TAPE, *SAVF

Additional Parameters

Run Interactively? . . . . . *NO_          *YES, *NO

Bottom
F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys

```

Figure 13.17 Retrieve File Tracking Files (RTVFILETRK) panel

You can execute the Retrieve Sterling Gentran File Tracking command in one of three modes:

- Press **Enter** to immediately submit the job to batch to run (this is the default).
- Press **F10** (Additional Parameters) and type '\*YES' in the Run Interactively field to run the job interactively (your terminal will be locked until the job completes).
- Press **F10** (Additional Parameters) and type '\*YES' in the Job Scheduler field to run the job at a later time.

## Parameter Definitions

### File Tracking Main File

This file contains all data that is stored for the File Tracking system (GENAUD).

### File Tracking Large Chgs File

This file contains all data where the old and/or new value is larger than 50 bytes. It is used in conjunction with the main tracking file (GENAUD2).

### Library

A 10-position alphanumeric field used to indicate the library name on your system where your Sterling Gentran Data files reside.

### Retrieve Method

An alphanumeric field used to indicate whether the data should be retrieved from tape or save file. If you want the data to be retrieved from tape, specify '\*TAPE.' To retrieve the data from save file, specify '\*SAVF'.

# Reports

## EBDI663 - Sterling Gentran File Tracking Entries Report

### Contents of the Report

The Sterling Gentran File Tracking Entries Report contains information about File Tracking entries that have been recorded.

### How to Identify the Report

The identifier 'EBDI663' is printed in the upper left corner of the report. The report title, "Sterling Gentran File Tracking Entries Report" is printed in the center at the top of the report. The identifier 'EBDI663' is also printed in the User Data field associated with the spooled report in the Output Queue.

### How to Generate the Report

This is a user-generated report. It is submitted in one of three ways:

- From the GENFILETRK menu, by selecting option '3'.
- From the Work with Sterling Gentran File Tracking panel (EDIX650-FMT01), by selecting option '30' (PRTFILETRK)
- From the Command Line, by entering the 'PRTFILETRK' command.

In all cases, you can use selection criteria to limit the information on the report by selecting any of the following combinations:

- Age Selection Type
- User Id
- Subsystem
- Program

### Special Considerations

Like all other Sterling Gentran:Server reports, the Sterling Gentran File Tracking Entries Report automatically goes to the iSeries Output Queue defined for the user running the job. (SEE the "Environment Control" chapter in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide* for instructions to set up a user's Output Queue.)

# Sample Report

PAGE 1

RUN TIME 17:20:56

STERLING GENTRAN FILE TRACKING ENTRIES REPORT

EBDI663 RUN DATE 2011/04/30

DATE	TIME	AGE	SELECTION	USER	USER	SUBSYSTEM	PROGRAM	DESCRIPTION	FILE	FIELD
SUBSYSTEM: *ALL FROM 2011/04/30 TO 2011/04/30 PROGRAM: *ALL										
2011/04/30	10:49:32	MKK			TRNMAP	EBDI589	Map re-synch performed		TRNELE	TRNELE
Transaction ID					A003070		S/R		.R	TRNELE
2011/04/30	10:49:32	MKK			TRNMAP	EBDI589	Map re-synch performed		TRNELE	TRNELE
Transaction ID					A004010		S/R		.R	TRNELE
2011/04/30	10:49:32	MKK			TRNMAP	EBDI589	Map re-synch performed		TRNELE	TRNELE
Transaction ID					A004020		S/R		.R	TRNELE
2011/04/30	10:49:32	MKK			TRNMAP	EBDI589	Map re-synch performed		TRNELE	TRNELE
Transaction ID					DATEIN		S/R		.R	TRNELE
2011/04/30	10:49:32	MKK			TRNMAP	EBDI589	Map re-synch performed		TRNELE	TRNELE
Transaction ID					MKKDATEIN		S/R		.R	TRNELE
2011/04/30	10:49:32	MKK			TRNMAP	EBDI589	Map re-synch performed		TRNELE	TRNELE
Transaction ID					MKKIB12.14		S/R		.R	TRNELE
2011/04/30	10:49:32	MKK			TRNMAP	EBDI589	Map re-synch performed		TRNELE	TRNELE
Transaction ID					A003070		S/R		.R	TRNELE
2011/04/30	10:49:32	MKK			TRNMAP	EBDI589	Map re-synch performed		TRNELE	TRNELE
Transaction ID					A004010		S/R		.R	TRNELE
2011/04/30	10:49:32	MKK			TRNMAP	EBDI589	Map re-synch performed		TRNELE	TRNELE
Transaction ID					A004020		S/R		.R	TRNELE
2011/04/30	10:49:32	MKK			TRNMAP	EBDI589	Map re-synch performed		TRNELE	TRNELE
Transaction ID					DATEIN		S/R		.R	TRNELE
2011/04/30	10:49:32	MKK			TRNMAP	EBDI589	Map re-synch performed		TRNELE	TRNELE
Transaction ID					MKKDATEIN		S/R		.R	TRNELE
2011/04/30	10:49:32	MKK			TRNMAP	EBDI589	Map re-synch performed		TRNELE	TRNELE
Transaction ID					MKKIB12.14		S/R		.R	TRNELE
2011/04/30	10:49:32	MKK			TRNMAP	EBDI589	Map re-synch performed		TRNELE	TRNELE
Transaction ID					MKKDATEOUT		S/R		.S	TRNELE
2011/04/30	10:49:32	MKK			TRNMAP	EBDI589	Map re-synch performed		TRNELE	TRNELE
Transaction ID					MMMM		S/R		.S	TRNELE
2011/04/30	10:49:32	MKK			TRNMAP	EBDI589	Map re-synch performed		TRNELE	TRNELE
Transaction ID					TEST		S/R		.S	TRNELE
2011/04/30	10:49:33	MKK			TRNMAP	EBDI589	Map re-synch performed		TRNELE	TRNELE
Transaction ID					TESTEST		S/R		.S	TRNELE
2011/04/30	10:52:08	MKK			STANDARD	EDIX110	Version Update Allowed Changed		STDVER	VTRLOC
Standard					004010					
NEW VALUE: N OLD VALUE: Y										

PAGE 1

RUN TIME 17:20:56

STERLING GENTRAN FILE TRACKING ENTRIES REPORT

EBDI663 RUN DATE 2011/04/30

DATE	TIME	AGE	SELECTION	USER	USER	SUBSYSTEM	PROGRAM	DESCRIPTION	FILE	FIELD
SUBSYSTEM: *ALL FROM 2011/04/30 TO 2011/04/30 PROGRAM: *ALL										
2011/04/30	13:33:34	XXX			COMM	EDIX403	Added new Session Control		COMCTL	COMCTL
Comm Profile ID					MAZFTP		Session Name		.RG	COMCTL
2011/04/30	13:34:32	XXX			COMM	EDIX403	Deleted Session Control		COMCTL	COMCTL
Comm Profile ID					MAZFTP		Session Name		.RG	COMCTL
NEW VALUE: 015 C OLD VALUE: 015 C										
2011/04/30	13:34:38	XXX			COMM	EDIX403	Added new Session Control		COMCTL	COMCTL
Comm Profile ID					MAZFTP		Session Name		.RG	COMCTL
2011/04/30	13:34:44	XXX			COMM	EDIX403	Deleted Session Control		COMCTL	COMCTL
Comm Profile ID					MAZFTP		Session Name		.RG	COMCTL
NEW VALUE: 025 C OLD VALUE: 025 C										
cd mazdir										

# Batch Table Maintenance API

## In this Chapter

This chapter covers the following topics:

- What is the Batch Table Maintenance API? . . . . . 14-1
- Batch Table Maintenance API Panels . . . . . 14-2
- Record File Layouts for API Work Files . . . . . 14-6

## What is the Batch Table Maintenance API?

The Batch Table Maintenance API (application program interface) is a utility that provides an alternative method for creating and maintaining Sterling Gentran mapping tables. This is beneficial when the table values already exist in a large table outside of Sterling Gentran and you want to load some or all of those values into a Sterling Gentran mapping table. You may choose to write an application program to be used only once to create and load a table into Sterling Gentran using this API. You may also write an application program that captures ongoing changes (additions, modifications, and deletions) made to a table that you want to apply to a Sterling Gentran mapping table.

---

# Batch Table Maintenance API Panels

## Getting Started

Tables are used to enhance the mapping process. There are three different types of tables:

- Code Translation
- Data Translation
- Validation

A separate definition header must exist for each table.



---

**NOTE**

SEE the “Transaction Mapping” chapter in the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide* for more information about Tables.

---

The necessary records must be created in the appropriate work files for the type of table to be maintained. The API Batch Table Maintenance (APITABLE) command is then run. A report is generated detailing the results of the maintenance performed and includes any errors encountered as well as the previous and new values. The report identifiers are:

- EBDI092 for the definition file
- EBDI092C for the code table file
- EBDI092D for the data table file
- EBDI092V for the validation table.

The APITABLE command is prompted from the command line, invoked in a user-written program (specify ‘INT(\*YES)’ if placed in a program), or executed from the tool menu (GENTOOL) in the Sterling Gentran tool library (G3X6TOOL).



This figure illustrates the API Batch Table Maintenance Command (APITABLE).

```

API Batch Table Maintenance (APITABLE)

Type choices, press Enter.

Type of Table to Maintain . . . . > *DEF CDE          *DEF, *CDE, *DTA, *VAL...
Input File Member Name . . . . . *FIRST              Name, *FIRST, *LAST
Clear Input File Member? . . . . . *YES             *NO, *YES
Run Interactively? . . . . . *NO                    *NO, *YES

Additional Parameters

Schedule Job? . . . . . *NO                          *NO, *YES

Bottom
F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display
F24=More keys

```

Figure 14.1 API Batch Table Maintenance Command (APITABLE)

## Field Descriptions

### **Type of Table to Maintain**

Specify one of the types identifying the table to be maintained. Specify a combination type code in order to maintain both the definition header and the details of the table in the same process run. Valid values include:

*DEF	Maintains the Table Definition Header file (CDEDEF)
*CDE	Maintains the Code Table file (CDECDE)
*DTA	Maintains the Data Table file (CDEDTA)
*VAL	Maintains the Validation Table file (CDEVAL)
*DEFCDE	Maintains CDEDEF and CDECDE files
*DEFDTA	Maintains CDEDEF and CDEDTA files
*DEFVAL	Maintains CDEDEF and CDEVAL files

**Input File Member**

Specify the file member to be read from the appropriate input table file when using unique members. The default is \*FIRST, which reads the first member in the input table file for the table type being maintained. The value \*LAST may also be specified and reads from the last (usually the most recent) member in the input table file.

**Clear Input File Member?**

Indicates whether the work table file member used for input to the API is to be cleared at the end of the job. The default is \*YES.

**Run Interactively?**

Indicates whether the job is run interactively or submitted to batch for processing. When embedding the APITABLE command in a user-written program (for example, a CL program), we recommend that you specify \*YES for the INT parameter to force the job to run in-stream instead of submitting a separate job.

**Schedule Job?**

This is an additional parameter accessed by pressing **F10**. Specify \*YES to schedule the job to run at a later time. The default is \*NO.

## Mapping Table Files

This table lists the files for the Sterling Gentran mapping tables (prefix CDE) and the corresponding API work files (prefix TBL). The record layouts are provided later in this chapter.

Table	Sterling Gentran File	API Work File
Table Definition (header)	CDEDEF	TBLDEF
Code Translation	CDECDE	TBLCDE
Data Translation	CDEDTA	TBLDTA
Validation	CDEVAL	TBLVAL

---

## Batch Table File Maintenance Processing

All input maintenance records begin with these two fields:

- Action Code
- Table ID

This table describes the data maintenance types and action codes.

Data Maintenance Type	Action Code	Description
Add	A	Adds a record to one of the table files.  <b>Rule</b> A record may be added to one of the table files provided the table definition record already exists. The table definition header must be added prior to adding records to the table.
Change	C	Changes a value on an existing record in the table or definition header record.
Delete	D	Deletes a record in a table. When used with the definition header, the header and all associated records in the table are deleted.

# Record File Layouts for API Work Files

The record file layouts for the API work files are described in this section.

## TBLDEF File

### Description

The TBLDEF File is used to add, modify, and delete table definition header records. This file is read for input by the API when the \*DEF is the type of table specified in the file. Program EBDI092 maintains this file. The Define Translation Table panel (EDIX585) can also be used to maintain this file.

### Key Fields

The key fields include:

MTFTIDTable ID to be maintained

MTFLUDLast Update Date in ascending order (optional; used to ensure maintenance is processed in date sequence)

MTFLUTLast Update Time in ascending order (optional; used to ensure maintenance is processed in time sequence)

### Considerations

- To create or maintain a definition record for a partner-specific table, include the Partner ID and Qualifier in the work file along with the table ID and type. It is a key field to the CDEDEF file. The wrong table may be modified if the Partner ID and Qualifier are not included.
- When adding a definition record for a code table, the standard version and the standard element fields should contain valid data. A lookup is performed against the STDDIC (standard dictionary) file to retrieve the standard minimum and maximum length. The same is true if you are modifying either of these fields on the definition record. If incorrect information is provided, the maintenance is performed and an error message is printed on the report. If you access the table from the online panel, you are required to enter the information.
- Use the CHG\* fields only when performing a Change action and only for the fields you want to change. In order to change the table ID, partner ID, or partner Qualifier, the original corresponding field must be provided.

**Record Layout**

This table describes the record layout for the TBLDEF file.

Field Name	Type	Field Length	Buffer Position	Description
ACTCDE	Char	1	1	Action Code (A=add, C=change, D=delete)
MTFTID	Char	10	2	Table ID (key field to CDEDEF file)
MTFTTY	Char	1	12	Table Type
MTFPID	Char	35	13	Partner ID, as known to Sterling Gentran when partner-specific (key field to CDEDEF file and only valid for data translation tables)
MTFPQA	Char	4	48	Partner Qualifier (key field to CDEDEF file and only valid for translation tables)
CHGTID	Char	10	52	New Table ID
CHGPID	Char	35	62	New Partner ID
CHGPQA	Char	4	97	New Partner Qualifier
MTFDIV	Char	3	101	Division Code
CHGDIV	Char	3	104	New Division Code
MTFFTD	Char	35	107	Description (for adds, a description is created if left blank)
CHGFTD	Char	35	142	New Description
MTFSVR	Char	12	177	Standard Version
CHGSVR	Char	12	189	New Standard Version
MTFSER	Char	4	201	Standard Element Reference Number
CHGSER	Char	4	205	New Standard Element Reference number
MTFRLS	Char	1	209	Release Number
CHGRLS	Char	1	210	New Release Number
MTFAML	Packed	3,0	211	Application Minimum Length
CHGAML	Packed	3,0	213	New Application Minimum Length
MTFAXL	Packed	3,0	215	Application Maximum Length
CHGAXL	Packed	3,0	217	New Application Maximum Length

Field Name	Type	Field Length	Buffer Position	Description
MTFACT	Char	2	219	Application Code Type
CHGACT	Char	2	221	New Application Code Type
MTFUPA	Char	1	223	Update Allowed
CHGUPA	Char	1	224	New Update Allowed Flag
MTFLUD	Packed	7,0	225	Maintenance Update Date  <b>Note</b> The date posted to the file is the current date, not the value in this field. It is not required, but is recommended to ensure integrity of the order of the updates.
MTFLUT	Packed	9,0	229	Maintenance Update Time  <b>Note</b> The time posted to the file is the current time, not the value in this field. It is not required, but is recommended to ensure integrity of the order of the updates.
MTFLUU	Char	3	234	Maintenance Update User Initials (if blank, 'API' is posted to the record)

## TBLCDE File

### Description

The TBLCDE file is used to add, modify, and delete entries from the code translation table. This file is read for input by the API when the type of table specified is \*CDE or \*DEFCDE. Program EBDI092C maintains this file. The Code Translation panel (EDIX583) can also be used to maintain this file.

Code translation tables are used to convert values between your codes and the standards codes. For example, the code or value you use for the unit of measure may be different than the valid values in the standards. The code translation table looks up one value and passes the corresponding value to be mapped.

### Key Fields

The key fields include:

MTRTID	Table ID to be maintained
MTRLUD	Last Update Date in ascending order (optional; used to ensure maintenance is processed in date sequence)
MTRLUT	Last Update Time in ascending order (optional; used to ensure maintenance is processed in time sequence)

### Considerations

- When adding a record to the code table, you must provide the table ID, standard code, and user code. If a code description is not provided, a new one is created. The standard code must be unique.
- When changing a record in the code table, you must provide the table ID and the original standard code to ensure the correct record is being modified.
- Use the CHG\* fields only when performing a Change action and only for the fields to be changed.

### Record Layout

This table describes the record layout for the TBLCDE file.

Field Name	Type	Field Length	Buffer Position	Description
ACTCDE	Char	1	1	Action Code (A=add, C=change, D=delete)
MTRTID	Char	10	2	Table ID
MTRSC	Char	10	12	Standard Code
CHGSC	Char	10	22	New Standard Code
MTRUC	Char	10	32	User Code
CHGUC	Char	10	42	New User Code

Field Name	Type	Field Length	Buffer Position	Description
MTRSCD	Char	30	52	Standard Code Description
CHGSCD	Char	30	82	New Standard Code Description
MTRLUD	Packed	7,0	112	Maintenance Update Date <b>Note</b> The date posted to the file is the current date, not the value in this field. It is not required, but is recommended to ensure integrity of the order of the updates.
MTRLUT	Packed	9,0	116	Maintenance Update Time <b>Note</b> The time posted to the file is the current time, not the value in this field. It is not required, but is recommended to ensure integrity of the order of the updates.
MTRLUU	Char	3	121	Maintenance Update User initials (if blank, 'API' is posted to the record)



## TBLDTA File

### Description

The TBLDTA file is used to add, modify, and delete entries from the data translation table. This file is read for input by the API when the type of table specified is \*DTA or \*DEFDTA. Program EBDI092D maintains this file. The Data Translation by Partner panel (EDIX584) can also be used to maintain this file.

Data translation tables are used to translate between your application data values and your trading partner's data values. For example, you may be required to send DUNS numbers to identify yourself and each of your vendors, but the only reference you have for a vendor is your internal vendor number. The data translation table relates to your internal vendor number to the vendor's DUNS number.

### Key Fields

The key fields include:

MTTTID	Table ID to be maintained
MTTLUD	Last Update Date in ascending order (optional; used to ensure maintenance is processed in date sequence)
MTTLUT	Last Update Time in ascending order (optional; used to ensure maintenance is processed in time sequence)

### Considerations

- When adding a record to the data table, the table ID, partner ID/Qualifier (if partner-specific), and the application value must be provided. If a partner data value description is not provided, one is created. The application value must be unique.
- When changing a record in the table, you must provide the table ID, partner ID/Qualifier (if partner-specific), and the original application value to ensure the correct record is being modified.
- Use the CHG\* fields only when performing a Change action and only for the fields you want to change.

### Record Layout

This table describes the record layout for the TBLDTA file.

Field Name	Type	Field Length	Buffer Position	Description
ACTCDE	Char	1	1	Action Code (A=add, C=change, D=delete)
MTTTID	Char	10	2	Table ID
MTTPID	Char	35	12	Partner ID (as known to Sterling Gentran)
MTTPQA	Char	4	47	Partner Qualifier
MTTAVL	Char	20	51	Application Value

Field Name	Type	Field Length	Buffer Position	Description
CHGAVL	Char	20	71	New Application Value
MTPVVL	Char	20	91	Partner Value
CHGPVL	Char	20	111	New Partner Value
MTPVDS	Char	30	131	Partner Value Description
CHGPDS	Char	30	161	New Partner Value Description
MTRLUD	Packed	7,0	191	Maintenance Update Date  <b>Note</b> The date posted to the file is the current date, not the value in this field. It is not required, but is recommended to ensure integrity of the order of the updates.
MTRLUT	Packed	9,0	195	Maintenance Update Time  <b>Note</b> The time posted to the file is the current time, not the value in this field. It is not required, but is recommended to ensure integrity of the order of the updates.
MTRLUU	Char	3	200	Maintenance Update User initials (if blank, 'API' is posted to the record)

## TBLVAL File

### Description

The TBLVAL file is used to add, modify, and delete entries from the validation table. This file is read for input by the API when the type of type specified is \*VAL or \*DEFVAL. Program EBDI092V maintains this file. The Data Validation panel (EDIX585) can also be used to maintain this file.

Validation tables are used to validate a value against a list of valid values. These tables are useful in mapping when there are multiple if-conditions and you are testing a field against a list of three or more values. The validation table is not used to translate values. It is used as an operator in an if-condition.

For example, 'IF *field or element* VT *table ID*' means: if the field or element exists in the named table, then perform the mapping. The operator value, VT, means 'validate against' a given table.

### Key Fields

The key fields include:

MVRTID	Table ID to be maintained
MVRLUD	Last Update Date in ascending order (optional; used to ensure maintenance is processed in date sequence)
MVRLUT	Last Update Time in ascending order (optional; used to ensure maintenance is processed in time sequence)

### Considerations

- When adding a record to the validation table, the table ID and the data value must be provided. If a data value is not provided, one is created. The data value must be unique.
- When changing a record in the data table, you must provide the table ID and the original data value to ensure the correct record is being modified.
- Use CHG\* fields only when performing a Change action and only for the fields you want to change.

### Record Layout

This table describes the record layout for the TBLVAL file.

Field Name	Type	Field Length	Buffer Position	Description
ACTCDE	Char	1	1	Action Code (A=add, C=change, D=delete)
MVRTID	Char	10	2	Table ID
MVDVL	Char	20	12	Data Value
CHGDVL	Char	20	32	New Data Value

Field Name	Type	Field Length	Buffer Position	Description
MVRDSC	Char	50	52	Description
CHGDSC	Char	50	102	New Description
MVRLUD	Packed	7,0	152	Maintenance Update Date <b>Note</b> The date posted to the file is the current date, not the value in this field. It is not required, but is recommended to ensure integrity of the order of the updates.
MVRLUT	Packed	9,0	156	Maintenance Update Time <b>Note</b> The time posted to the file is the current time, not the value in this field. It is not required, but is recommended to ensure integrity of the order of the updates.
MVRLUU	Char	3	161	Maintenance Update User initials (if blank, 'API' is posted to the record)

# Program and Command Names

## In this Chapter

This chapter includes names and descriptions of Sterling Gentran:Server programs and commands. Each section in the chapter includes the programs and commands related to one of the Sterling Gentran:Server subsystems. The sections included in the chapter are listed below.

- Partners Subsystem . . . . . 15-3
- Application Definition Subsystem . . . . . 15-4
- Transaction Mapping Subsystem . . . . . 15-5
- Communications Subsystem. . . . . 15-7
- Standards Subsystem. . . . . 15-9
- Environment Control Subsystem . . . . . 15-10
- Audit Subsystem . . . . . 15-10
- Message Center Subsystem. . . . . 15-11
- Processing Subsystem. . . . . 15-11
- System Administration Subsystem . . . . . 15-13
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This chapter will prove helpful if you plan to place the Sterling Gentran:Server programs in your menu structure. The program names can also be used to execute a program directly from any command line.

To execute a program, use the Sterling Gentran command, EXCPGM, instead of the iSeries CALL command so security checking can be performed against environment control. For example, type EXCPGM EDIXnnn (where 'nnn' is the program number) on any command line or in your own menus to execute that program. The EXCPGM is a customized call command that is required to run the program to check for security authorization. The 'J' (or Jump) command is a shortcut.

Reference either the common name or the three-digit panel number. Use online help from the 'J' command for more details. The 'J' command executes the EXCPGM command.



### NOTE

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This is not a complete list of all the programs. Other programs you may use are not executable using the EXCPGM command.

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Commands and menus can be invoked using specialized Sterling Gentran execute commands so that security checking can be performed against environment control. For commands, use the Sterling Gentran command, GENEXCMD, and pass the command name as the parameter. For menus, use the Sterling Gentran command, GENEXMNU, and pass the menu name as the parameter.

Commands can still be invoked directly from the command line or in your own programs and menus; however, the Environment Control security features are not in effect. Likewise, menus can still be invoked using the iSeries' 'GO' command; however the Environment Control security features are not in effect.

## Partners Subsystem

Program ID	Program Name
EDIX005	Work with Partners
EDIX008	Partner Cross Reference
EDIX012	Partner Control
EDIX030	Work with Partner Groups
EDIX031	Partner Group
EDIX035	Partner Name & Address
EDIX040	Work with Partner Transactions
EDIX041	Partner Transaction
EDIX045	Partner User Defined
EDIX046	Work with Partner User Defined
EDIX050	Partner Data Separation
EDIX051	Work with Partner Data Separation
EDIX055	Partner Error Rejection
EDIX056	Work with Partner Error Rejection
Command	Command Text/Description
ezPART	ez Partner
PTRCPY	Copy All Partner Records
PRTPAR	Print Partner File
PRTPIXR	Print Partner Cross References
PRTPARQRY	Print Selected Partner Query Reports

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## Application Definition Subsystem

<b>Program ID</b>	<b>Program Name</b>
EDIX550	Work with Application Definition
EDIX552	Application Definition
EDIX553	Application Definition Records/Files
EDIX554	Application Definition Fields
EDIX556	Application Definition Fields Key Structure
EDIX559	Application Partner Reference
EDIX560	Application Envelope Definition
<b>Command</b>	<b>Command Text/Description</b>
APPCPY	Copy Application ID
APPRENBR	Application renumber
ezAPPDEF	ez Application Definition
PRTAPP	Print Application Files
APPSYNCH	Application Resynchronization with Maps
RRTVDDS	Re-retrieve DDS



## Transaction Mapping Subsystem

Program ID	Program Name
EDIX350	Work with Sub-splits
EDIX351	Sub-Split Table
EDIX500	Work with Transaction Mapping
EDIX502	Copy Segments from Standards
EDIX503	Transaction Map Definition
EDIX504	Transaction Map Segments
EDIX506	Work with Extended Mapping
EDIX507	Subfield Maintenance
EDIX508	Extended Outbound Mapping
EDIX511	Element Mapping Outbound
EDIX513	Extended Inbound Mapping
EDIX514	Element Mapping Inbound
EDIX515	Conditional Relationships
EDIX533	Extended Mapping Inbound Notes
EXIX538	Extended Mapping Outbound Notes
EDIX580	Work with Tables
EDIX581	Define Transaction Table
EDIX582	Copy Codes from Standards
EDIX583	Code Translation
EDIX584	Data Translation by Partner
EDIX585	Data Validation
Command	Command Text/Description
CEDCPY	Copy Code and Data Tables
ezMAP	ez Transaction Mapping
MAPSYNCH	Synchronize Transaction Maps with their Appl. Maps
PRTMAP	Print Mapping Files
PRTRNTBL	Print Translation Tables
TRNCPY	Copy Transaction ID
VERCNVT	Transaction Conversion from one EDI version to another

<b>Program ID</b>	<b>Program Name</b>
<b>Menu</b>	<b>Description</b>
GENMAP	Mapping Menu

## Communications Subsystem

Program ID	Program Name
EDIX400	Work with Communications
EDIX401	Communication Profile
EDIX402	Work with Communications Session
EDIX403	Communication Session Control
EDIX404	Work with Outbound Queue Control
EDIX406	Work with Communication History Log
EDIX407	Work with Inbound Queue Control
EDIX460	Work with MQ Links
EDIX461	MQ Link Configuration
EDIX817	Work with Communication Jobs
EDIX819	Communications Line/Control/Device
EDIX820	Work with Network Profile
EDIX821	Network Profile
EDIX43B	Communication Session Control
EDIX43C	Communication Session Evoke
Menu	Description
GENCOM	Communications Menu
Command	Command Text/Description
ADD	Add data from a file or MQ Queue to the Sterling Gentran inbound or outbound queue
CHGDUP	Change Duplex Setting of Line Description
CHGNRZI	Change NRZI Setting of Line Description
CHGPHNUM	Change Phone Number to Dial in Controller
CPYCOM	Copy profiles and/or scripts from one library to another
EXTRACT	Extract data from the Sterling Gentran inbound or outbound queue into a file or MQ Queue
ezCOMM	ez Communications
FNDSTRCOM	Find String of Data in Comm Queues
GENFTPADD	Translate data from ASCII to EBCDIC, remove record separators, add data to inbound queue.

GENFTPEXT	Extract data from Sterling Gentran:Server outbound queue
GENFTPLIBL	Create environment to enable use of other Sterling Gentran:Server FTP commands
GENFTPSLL	Sterling Gentran:Server FTP Set Library List
GENFTPUPDT	Update communication history log and communication queue control files to reflect batches sent and received during current FTP session
GENIBQIFS	Sterling Gentran IBQ to IFS Gateway
GENLINP	Sterling Gentran Line Pools
GIFSGATE	Sterling Gentran IFS Gateway
PRGALL	Purge Inbound/Outbound Queue and Comm Hist files
PRGCHF	Purge Communications History File
PRGIBQ	Purge Inbound Queue
PRGOBQ	Purge Outbound Queue
PRTCOM	Comm Session Control Script Print
PRTEDIDTA	Print EDI Data
RPLCHARS	Replace characters
RTVALL	Retrieve All Inbound/Outbound and Comm History Info
RTVCHF	Retrieve Comm History Purge Information
RTVIBQ	Retrieve Inbound Queue Purge Information
RTVOBQ	Retrieve Outbound Queue Purge Information
SHUTDOWN	End active comm jobs
SSSCONFIG	Configure for Remote Support
SSSOFF	Disable Sterling Software Support Command
SSSON	Enable Sterling Software Support for the iSeries
SSSREMOVE	Delete Sterling Software Support objects from your iSeries
STATFLG	Change Status of Batches IN/OUT
STRCOMSSN	Start Communications Session Command
STRCOMSSNT	Start Communications Session Command + ICF Trace
GENMQSND	Send a file from Sterling Gentran to a MQ Queue
GENMQRCV	Receive a file from an MQ Queue into Sterling Gentran

## Standards Subsystem

Program ID	Program Name
EDIX100	Work with Standards
EDIX110	Standards Version
EDIX120	Standards Transaction
EDIX125	Group/Transaction Directory
EDIX130	Standards Segment
EDIX140	Standards Segment Element
EDIX141	Standards Segment Element Conditional Code
EDIX150	Standards Segment Element Activity
EDIX160	Standards Data Element Definition
EDIX170	Standards Data Element Code Definition
EDIX180	Standards Transaction in Use
EDIX190	Work with Batch Standards
EDIX191	Batch Standards Transaction View
EDIX192	Batch Standards Segment View
EDIX193	Batch Standards Element View
EDIX194	Batch Standards Element Conditional Code View
EDIX195	Batch Standards Activity View
EDIX196	Batch Standards Dictionary View
EDIX197	Batch Standards Codes
EDIX198	Group/Transaction Directory
Command	Command Text/Description
EXTSTD	Extract batch standards
PRTSTD	Print online standards
PRTSTDBAT	Print batch standards
PRTSTD TAP	Print standards (versions/transactions) on tape or CD
PRTSTD USE	Print standards selected for use in the batch standards
STDCPY	Copy standards from one library to another

## Environment Control Subsystem

Program ID	Program Name
EDIX200	Work with Environment Control
EDIX201	Environment Control
PRTENV	Print Environment Control

## Audit Subsystem

Program ID	Program Name
EDIX251	Work with Audit Interchange Status
EDIX252	Work with Audit Group Status
EDIX253	Work with Audit Transaction Status
EDIX259	Work with Selected Audit Records
Command	Command Text/Description
AUDITPURGE	Purge Audit by Partner
PRGAUD	Purge Audit File
PRGNET	Purge Network Status File
PRTAUD	Print Audit File
REQUEUE	Requeue EDI Data from the Audit
PRTEDIDTA	Print EDI Data
RTVNET	Retrieve Network Status File
RTVAUD	Retrieve Audit/Network Purge Information
PRTNETSTS	Print Network Status
SLTAUD	Search and Select Audit Records
SLTREQ	Select and Requeue Audit Record
Menu	Description
GENAUD	Audit Menu

## Message Center Subsystem

Program ID	Program Name
EDIX600	Work with Message Center
Command	Command Text/Description
PRGMSGCTR	Purge Message Center Files
PRTMSGCTR	Print Message Center Entries Report
PRTMSGDTL	Print Message Center Job Detail Report
SLTMSG	Search and Select Message Center Jobs
RTVMSGCTR	Retrieve Message Center Files
Menu	Description
GENMSG	Message Center Menu

## Processing Subsystem

Program ID	Program Name
EDIX260	Split File Inquiry
Command	Command Text/Description
ADD	Add Data to Queues
EXTRACT	Extract Data from Queues
PRCTRIN	Process Inbound Files (Process Transactions Inbound)
PRCTRNOUT	Process Outbound Files (Process Transactions Outbound)
DLTSTD	Standards Selective Delete
DWNSTD	Standards Selective Download from CD
DWNSTDTC	Tradacoms Standards Selective Download
RMVGENMBR	Remove Sterling Gentrans Work File Members
RPLCHARS	Replace characters.
PRGVAT	Purge VAT reporting data
RTVVAT	Retrieve VAT report database
PRTVAT	Print VAT reports
SETBINLIB	Set Binary Library
SETBINMAP	Set Binary Mapping Option

Program ID	Program Name
Menu	Description
GENPRC	Processing Menu



## System Administration Subsystem

Menu	Description
GENSYS	System Administration Menu

## Global Parameters

Program ID	Program Name
EDIX415	Global Parameters

## Job Scheduler

Program ID	Program Name
EDIX409	Work with Scheduled Entries
EDIX411	Job Schedule Master
EDIX412	Work with Job Scheduler
EDIX413	Job Schedule
Command	Command Text/Description
PRGSCH	Purge Job Schedule
RTVSCH	Retrieve Job Scheduled Information
SCHJOB	Schedule Job

## EDI Monitor

Program ID	Program Name
EDIX310	Work with EDI Monitor
EDIX311	EDI Monitor Inquiry
Command	Command/Text Description
PRTMON	Print EDI Monitor Report

## Network Command Interface

Program ID	Program Name
EDIX851	Work with Network Command Interface
EDIX852	Network Command Definition
EDIX853	Network Command
Command	Command Text/Description
GENINSCMD	INS Network Command Interface GENERATE Cmd Script

## Batch Error Message Files

Program ID	Program Name
EDIX620	Work with Batch Error Message File
EDIX621	Batch Error Message File Control

## Set TELECOM Network Processing Parameters

Command	Command Text/Description
SETTLEKOM	Set Telecom Network Processing Parameters

## System Configuration

Command	Command Text/Description
SETGENYR	Set Sterling Gentran Break Year (for century determination)
SETGENFMT	Set Sterling Gentran Date Format for Commands
SETNETARC	Set Network Report Archive Flag
SETEXTMAP	Set Extended Map More/Less Option
SETMAPRPT	Set Mapper Reports Option
SETPARSRT	Set Partner Sort Option
SETAPPSRT	Set Application Definition Sort Option
SETTRNSRT	Set Transaction Mapping Sort Option

SETAUDISRT	Set Audit Interchange Sort Option
SETAUDGSRT	Set Audit Group Sort Option
SETINBQSRT	Set Inbound Queue Sort Option
SETOUTQSRT	Set Outbound Queue Sort Option
SETCOMHSRT	Set Comm History Log Sort Option
SETJOBSSRT	Set Job Scheduler Sort Option
SETMSGSR	Set Message Sort Option
SETERRSRT	Set Batch Error Message Sort Option
SETFTRKSRT	Set File Tracking Sort Order
SETCOMMSRT	Set W/W Communications Sort Option
SETAUTOSRT	Set Auto Notification Sort Option
SET571ERR	Set 571 Error Detail Option
SETLEAD0	Set Lead Zero Option
SETMAPDTL	Set Mapper Detail Option
<b>Menu</b>	<b>Description</b>
GENSYSCFG	System Configuration Menu

## Sterling Gentran File Tracking System

Program Name	Program ID
EDIX650	Work with Audit Trail
EDIX651	Audit Trail Control
EDIX660	Audit Trail Configuration
<b>Commands</b>	<b>Command Text/Description</b>
PRTFILETRK	Print Sterling Gentran File Tracking
PRGFILETRK	Purge Sterling Gentran File Tracking
RTVFILETRK	Retrieve Sterling Gentran File Tracking
<b>Menu</b>	<b>Description</b>
GENFILETRK	Sterling Gentran File Tracking Menu

## Miscellaneous

Command	Command Text/Description
CLRSTK	Clear Program Stack (after online program abend)
DWNSAMP	Download Sample Tutorial Library from CD
DWNTOOL	Download Sterling Gentran:Server Tools Library from CD
J	Jump Code for Quick Access to Programs
JUMP	Jump Code for Quick Access to Programs
STDABILOAD	Create Standard Code File from ABI Codes

## In this Chapter

This chapter is divided into two areas:

- What are System Messages? . . . . . 16-1
- Sterling Gentran:Server System Messages (Numerical Order) . . . . . 16-2

## What are System Messages?

System error messages display when processing the inbound and outbound data. The system messages that you encounter will provide the user with an error number and a brief description.

This section can be used should a problem occur while implementing Sterling Gentran:Server information. It describes all core processing system messages specific to Sterling Gentran:Server. These messages have been compiled from Sterling Gentran:Server Product Support lists and “hotline” calls. You will find the action required for these messages described in great detail.

Each core processing message displays with the following information:

- Message number
- Message as displayed on the report
- Description of the system message

For each Sterling Gentran:Server system message, (core processing) the following format is used:

<b>Number</b>	<b>Message:</b>	<b>Message displayed</b>
	Explanation:	A brief explanation of the message and/or situation that lead to the issuance of the message.
	Corrective Action:	The action(s) the system will take after issuing the message, and what actions you would take in response.

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# Sterling Gentran:Server System Messages (Numerical Order)

- 0001**      **Message:**      **Version changed while reading transaction records.**  
Explanation:      Two consecutive transaction records had different versions.  
Corrective Action:      Determine if tables are missing records for the versions involved. If not, rerun table pointer generation program.
- 0002**      **Message:**      **Indicated invalid key encountered while rewriting version record.**  
Explanation:      The program generated the invalid key in the information field on the report while trying to rewrite the version record in the table.  
Corrective Action:      This error should be reported to Sterling Gentran:Server Product Support.
- 0003**      **Message:**      **Transaction records missing for this version.**  
Explanation:      In attempting to access the transaction records for the indicated version, none were found.  
Corrective Action:      Examine the tables and determine if, in fact, the transaction records are missing for that version. If they are, correct the tables; if they are not, contact Sterling Gentran:Server Product Support. If they are out of sequence only, run the pointer creation program.
- 0004**      **Message:**      **Segment records missing for this version.**  
Explanation:      The segment records for this version were not found when they were needed.  
Corrective Action:      Examine the tables and check for correctness. If the tables are correct, contact Sterling Gentran:Server Product Support.
- 0005**      **Message:**      **Element activity records missing for this version – warning.**  
Explanation:      When the tables were being accessed for element activity records, none were found. This is not necessarily an error. It is, however, unusual for ANSI X12 transactions.  
Corrective Action:      Examine the tables to determine if they are correct. If so, no action is necessary. If not, correct tables.
- 0006**      **Message:**      **Segment element records missing for this version.**  
Explanation:      When the program was attempting to read the segment element records for the version, none were found.  
Corrective Action:      Examine the tables to find out if the records are missing. If so, they are required and must be inserted in the tables for proper functioning. If they are there, contact Sterling Gentran:Server Product Support.

## System Messages

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- 0007**      **Message:**      **Element dictionary records missing for this version.**  
Explanation:      When a program was trying to access the element dictionary records for this particular version, they were not found.  
Corrective Action:      Examine the tables to find out if the element dictionary records are present on the table in their proper place. If they are, contact Sterling Gentran:Server Product Support. If not, they should be added to the table in their proper place.
- 0008**      **Message:**      **Lengthen dictionary table – program problem – contact Sterling Gentran:Server Product Support.**  
Explanation:      When the dictionary table was being loaded, the program ran out of space to accommodate the records found.  
Corrective Action:      The table must be lengthened to accommodate the versions being used.
- 0009**      **Message:**      **Code records missing for this version – warning.**  
Explanation:      When the program was trying to access the code records for this version, none were found.  
Corrective Action:      Code records are not required within a version. If this particular version of the tables does not require them, no corrective action is necessary. If code records are expected, it will be necessary to supply them in their proper place in the tables.
- 0010**      **Message:**      **For the indicated dictionary element, lengthen the code table – program problem – contact Sterling Gentran:Server Product Support.**  
Explanation:      When attempting to load the code tables for a particular dictionary element, the program ran out of space.  
Corrective Action:      Increase the table size and examine the program.
- 0011**      **Message:**      **Segment element records for this segment missing.**  
Explanation:      When the program was trying to access the segment element records for the segment indicated in the information field on the report, none were found.  
Corrective Action:      Segment element records are essential. Examine the tables to determine if they are in their proper place. If not, supply them in the proper place. If they are, contact Sterling Gentran:Server Product Support.
- 0012**      **Message:**      **Input transaction file empty – program terminated.**  
Explanation:      No transactions were found in the input file so the program was terminated.  
Corrective Action:      If this is an acceptable situation, no corrective action is required. Otherwise, supply an input file containing the desired data.
- 0013**      **Message:**      **Segment records for this transaction missing.**  
Explanation:      When the program was trying to access segment records for the transaction indicated in the information field on the error report, none were found.  
Corrective Action:      Segment records are required in the tables. Be sure that the appropriate segment records for this transaction are available in the proper place in the tables. If they are, contact Sterling Gentran:Server Product Support.

- 0014**      **Message:**      **Indicated invalid key while rewriting transaction record.**  
Explanation:      While trying to rewrite the transaction records to the table file, the program experienced an invalid key. The value is in the information field on the error report.  
Corrective Action:      This error should be reported to Sterling Gentran:Server Product Support to determine what the problem is.
- 0015**      **Message:**      **Indicated invalid key while rewriting segment record.**  
Explanation:      While rewriting the segment record, program experienced the invalid key indicated in the information field on the error report.  
Corrective Action:      This error should be reported to Sterling Gentran:Server Product Support to determine what the problem is.
- 0016**      **Message:**      **Indicated dictionary reference number expected in tables but not found.**  
Explanation:      The dictionary reference number indicated in the information field on the error report was referenced in a segment element record but no element dictionary record was found for this reference number.  
Corrective Action:      Check to determine if the dictionary reference number is in the proper place in the tables for this version. If not, supply it in the proper place.
- 0017**      **Message:**      **Indicated invalid key reading element dictionary record.**  
Explanation:      When the program was attempting to read the element dictionary record, an end-of-file condition occurred in the table file.  
Corrective Action:      If no codes were expected in this version of the table, no corrective action is necessary. If codes were expected, determine why they were not found at the end of the table.
- 0018**      **Message:**      **Indicated invalid key rewriting element dictionary record.**  
Explanation:      The program found the invalid key identification on the information field on the program error report while trying to rewrite the element dictionary record.  
Corrective Action:      This error should be reported to Sterling Gentran:Server Product Support to determine what the problem is.
- 0019**      **Message:**      **Error on open of standard tables (file table – file).**  
Explanation:      The program encountered an error trying to open the standard table file.  
Corrective Action:      This error should be reported to Sterling Gentran:Server Product Support to determine why an open error occurred.
- 0020**      **Message:**      **Found indicated segment ID. Expecting ICS instead.**  
Explanation:      In the input data, the indicated segment was found when the program was expecting a beginning of transmission segment.  
Corrective Action:      The program will suspend the input data until the next appropriate transmission header. If the suspended data was valid, correct it and resubmit that portion to the program. Otherwise take whatever action is appropriate to the contents of the suspense file.



## System Messages

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- 0021 Message: Data element separator missing.**  
Explanation: The data element separator in the transmission header field that defines the data element separator for that transmission was blank.  
Corrective Action: Contact the source of the data so that they may supply element separators in the proper place.
- 0022 Message: Segment terminator missing.**  
Explanation: The field defining the segment terminator for the transmission is blank.  
Corrective Action: Contact the data source informing them of this so that they may correct their data generation.
- 0023 Message: ICS submit date error.**  
Explanation: The submit date on the ICS transaction was not a valid date.  
Corrective Action: Contact the source of the data to correct their date generation.
- 0024 Message: ICS submit time error.**  
Explanation: The submit time on the ICS segment is not a valid time.  
Corrective Action: Contact the source of the data so that they may correct their time generation routine.
- 0025 Message: ICS interchange control number not numeric.**  
Explanation: The interchange control number on the ICS segment must be numeric.  
Corrective Action: Contact the source of the data so that they may correct their control number generation capability.
- 0026 Message: ICS control standards identifier not in acceptable codes.**  
Explanation: The value in the field control standards on the ICS segments is not in the acceptable codes for that field.  
Corrective Action: Contact the data source so that they may correct their input to the control standards identifier field.
- 0027 Message: ICS version number not found in tables. Suspending to next ICS.**  
Explanation: The version number contained in the ICS is not in the tables available to the program. The program cannot determine how to process the data so all data is being suspended to the next acceptable transmission header.  
Corrective Action: Either correct the version number for this ICS transaction in the suspense file and requeue the suspense file to the inbound queue and reprocess the data, or contact the source of the data to supply a proper version number.
- 0028 Message: Only version records found in tables. Check ANSI tables.**  
Explanation: Only version records were found in the tables supplied to the program.  
Corrective Action: Examine the tables and find out why our letter records were missing.

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<b>0029</b>	<b>Message:</b>	<b>Codes for control standards identifier are missing from tables in this version.</b>
	Explanation:	When the control standards identifier in the ICS was being validated, no codes were found in the tables for this version. This is a warning only.
	Corrective Action:	Either add the codes for that particular element or ignore the message. If you do not have the codes in the tables, it will display every time the ICS is encountered.
<b>0030</b>	<b>Message:</b>	<b>Invalid key reading batch standards file. SEE joblog for more information. Contact Product Support.</b>
	Explanation:	While attempting to read the batch standards, program found the invalid key that was printed in the information field on the error report.
	Corrective Action:	Look in the joblog for more information on the real cause. Contact Product Support. This is a program error.
<b>0031</b>	<b>Message:</b>	<b>Found indicated number of segments that does not agree with count in the transaction.</b>
	Explanation:	The program was accessing the segment records defining the transaction. It found the number of segments indicated in the information field on the error report. This does not agree with the control count in the transaction record in the tables.
	Corrective Action:	This is a tables problem. Either the number of segments should be adjusted or the control count should be adjusted.
<b>0032</b>	<b>Message:</b>	<b>Month greater than 12 or less than 1 in date input.</b>
	Explanation:	In the date being validated, the month was either zero or greater than 12.
	Corrective Action:	Contact the source of the data to correct their date generation routine.
<b>0033</b>	<b>Message:</b>	<b>Date field not numeric.</b>
	Explanation:	A non-numeric character was found in the date field input.
	Corrective Action:	Contact the source of the data to correct their date generation routine.
<b>0034</b>	<b>Message:</b>	<b>Day greater than 31 or less than 1 in date input.</b>
	Explanation:	In the element being validated, the day in the date was either zero or greater than 31.
	Corrective Action:	Contact the source of the data so that they may correct their date generation routine.
<b>0035</b>	<b>Message:</b>	<b>Month indicated does not have 31 days.</b>
	Explanation:	In the date found in the input, a date of 31 days was found in a month that has 30 days or less.
	Corrective Action:	Contact the source of the input so that they may correct their date generation routine.

## System Messages

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- 0036 Message: February date not valid.**  
Explanation: A date error of February 30 or 31 was found, or a non-leap-year date of February 29 was found.  
Corrective Action: Contact the source of the data so that they may correct their date generation routine.
- 0037 Message: Time field not numeric.**  
Explanation: A non-numeric character was found in the element indicated which is an element defined as time type.  
Corrective Action: Contact the source of the data so that they may correct their time generation routine.
- 0038 Message: Hour cannot be greater than 23.**  
Explanation: In the element found on the input, an hour of 24 or greater was found.  
Corrective Action: Contact the source of the data so that they may correct their time generation routine.
- 0039 Message: Minutes cannot be greater than 59.**  
Explanation: In the element found, the minutes in the time were greater than 60.  
Corrective Action: Contact the source of the data so that they may correct their time generation routine.
- 0040 Message: Sub-element separator required, but blank.**  
Explanation: In the sub-element separator field on the ICS, a blank was found.  
Corrective Action: Contact the source of the data to supply a non-blank element.
- 0041 Message: Required sender ID qualifier missing.**  
Explanation: In the ICS, the sender ID qualifier was blank.  
Corrective Action: Contact the source of the data to supply a sender ID qualifier.
- 0042 Message: Required sender ID missing.**  
Explanation: The sender ID in the ICS record received was missing.  
Corrective Action: Contact the source of the data to supply a valid sender ID.
- 0043 Message: Required receiver ID qualifier missing.**  
Explanation: In the ICS segment, the receiver ID qualifier was blank.  
Corrective Action: Contact the source of the data to supply an appropriate receiver ID qualifier.
- 0044 Message: Required receiver ID missing.**  
Explanation: In the ICS segment received, the receiver ID was blank.  
Corrective Action: Contact the source of the data to supply a valid receiver ID.

- 0045**      **Message:**      **Found indicated segment. Expecting transmission trailer segment.**  
Explanation:      The appropriate transmission trailer record was not found when expected.  
Corrective Action:      Contact the source of the data to find out if, in fact, a portion of the data is missing from the transmission.
- 0046**      **Message:**      **Final transmission trailer segment missing in input file.**  
Explanation:      The final transmission trailer is missing in the input file.  
Corrective Action:      Contact the source of the data to determine if data from that transmission is missing. If data is not missing, have them correct their transaction generation process.
- 0047**      **Message:**      **Found indicated segment ID. Expecting group header or transmission trailer. Suspending with valid input found.**  
Explanation:      The edit program was expecting either a starter group or an end-of-transmission segment. It has, instead, found the segment indicated in the information field and is suspending all input until an appropriate group header or transmission control segment is found.  
Corrective Action:      Check the input for proper envelope structure.
- 0048**      **Message:**      **Final GE segment missing in input.**  
Explanation:      The edit program found that the final GE segment was missing in the input file.  
Corrective Action:      Contact the source of the data to determine if, in fact, data was lost in this transmission. If not, they should correct their transmission generation capability.
- 0049**      **Message:**      **Found indicated segment. Expecting group trailer segment instead.**  
Explanation:      The edit program was expecting an end-of-group segment and, instead, found the segment indicated in the information field on the error report.  
Corrective Action:      Contact the source of the data to determine if it is missing from the transmission. If no data is missing, they should correct their data generation process.
- 0050**      **Message:**      **Found indicated segment ID. Expecting transaction header or group trailer instead. Suspending until valid input.**  
Explanation:      The program was expecting either an end-of-group segment or a beginning-of-transaction segment. The program is suspending input segments until an appropriate control segment is found.  
Corrective Action:      Contact the data source to correct their data generation.



- 0056**      **Message:**      **Indicated key is an invalid key for reading the batch standards file.**  
Explanation:      When attempting to read or write to the batch standards file, an invalid key has been encountered. The value of this key is indicated in the information field on the program error report.  
  
Corrective Action:      This error should be reported to Product Support to determine what the problem is.
- 0057**      **Message:**      **Transaction table entries for control records missing for this version – check batch standards file – notify Product Support.**  
Explanation:      The transactions defined for this version were not found in the batch standards file available to the program.  
  
Corrective Action:      Correct the batch standards file by placing the transaction table entries in their appropriate location.
- 0058**      **Message:**      **The number of segment element records found for the segment is not as defined in the batch standards file. File error.**  
Explanation:      The count of the number of segment element records found by the program is not the same as the control count contained in the segment record.  
  
Corrective Action:      Examine the batch standards file and determine whether the number of segment element records should be adjusted or whether the control count in the appropriate segment record should be adjusted.
- 0059**      **Message:**      **The number of element activity records found for this segment is not as defined in the batch standards file. File error.**  
Explanation:      The number of element activity records that the program found was not the same as the number indicated in the control count for the segment to which they relate.  
  
Corrective Action:      Examine the element activity records for the segment and determine whether the element activity records should be adjusted or the segment count in the batch standards file should be adjusted.
- 0060**      **Message:**      **Encountered element too long to validate. Segment skipped.**  
Explanation:      An element has been found in a segment that exceeds 100 characters. This is longer than any known element in the data dictionary. The segment has been skipped because it is not possible to validate the element. It is likely that an element separator has been omitted at some point.  
  
Corrective Action:      Examine the data and determine where the element separator should be placed. If the data is valid, examine the tables to determine if the element length is accurate in the tables. If both of these are correct, the element buffer in the program must be lengthened. Contact Sterling Gentran:Server Product Support for that activity.

- 0061**      **Message:**      **Unacceptable character found in indicated input element.**  
Explanation:      A character has been found in the indicated element that is inconsistent with the type of element as defined in the tables.  
Corrective Action:      The editors use an internal table of valid characters in order to prevent the processing of “garbage” data. Examine the input data. If the character appears to be a valid character, contact Sterling Gentran:Server Product Support and ask to have the character considered for insertion in the table of valid characters. If the character appears to be invalid, contact the data originator to correct the data.
- 0062**      **Message:**      **Missing indicated mandatory element.**  
Explanation:      An element that is defined as mandatory for this segment has been omitted in the data.  
Corrective Action:      Contact the data originator to assure that the required mandatory element is supplied.
- 0063**      **Message:**      **In the identified element, an invalid code was found.**  
Explanation:      In this ID type element, the contents of the element that were found in the incoming data are not in the table of valid codes as defined by ANSI.  
Corrective Action:      Check the list of codes defined for this element in the online standards table. If the code is in your copy of the standards manual but is not in the list of valid codes in the online standards tables, contact Sterling Gentran:Server Product Support and ask that the codes for the data element be verified. If you need to update the Online Code tables, the Code tables can be updated through Standards Maintenance. Select all versions that need to be included in your batch standards tables through the TRANSACTIONS IN USE panel. The Table Extract program will need to be run in order to update the batch tables.
- 0064**      **Message:**      **Indicated element shorter than minimum required length.**  
Explanation:      The element that was being validated had fewer characters than a minimum length required by ANSI standard.  
Corrective Action:      Contact the data originator so they may correct the data generation process.
- 0065**      **Message:**      **Indicated element longer than maximum allowable length.**  
Explanation:      The element found had more characters than the maximum length allowable by the standard.  
Corrective Action:      Correct the data to the proper length as indicated by the standard being used.
- 0067**      **Message:**      **Indicated element does not match earlier element as specified in the ANSI standards.**  
Explanation:      The element found does not match an element that was previously found in the transmission that it is required to match.  
Corrective Action:      Contact the data originator so that the data generation process may be corrected.

- 0068**      **Message:**      **Code in indicated element was not in tables.**  
Explanation:      The code found in the element indicated was not in the acceptable codes defined in the tables.  
Corrective Action:      Contact the data originator so that the data generation process may be corrected.
- 0069**      **Message:**      **Invalid key reading tables while loading transaction records. Check tables for missing records.**  
Explanation:      When trying to load the transaction records for a version, invalid key occurred. This is either due to end-of-file on the table file or to a program error.  
Corrective Action:      If the transaction records for this version are in place in the tables, contact Sterling Gentran:Server Product Support to determine the nature of the error. If the tables do not contain transaction records for this version in the appropriate place, correct the tables.
- 0070**      **Message:**      **Warning \* end-of-file while loading element dictionary records. Indicates no code records present.**  
Explanation:      While loading the tables for processing this version, the program discovered that no code records are present. This is a warning only.  
Corrective Action:      If there are no codes to be validated for this version, no correction is necessary. If there are codes to be used for validation for this version, make sure they get into the appropriate place in the tables.
- 0071**      **Message:**      **Invalid key reading tables while loading segment element records. Check tables for missing records.**  
Explanation:      When attempting to load the segment element records for this version, the program sensed end-of-file on the table file.  
Corrective Action:      If the segment element records for this version are missing, supply them to the tables. If the segment element records are not missing, contact Sterling Gentran:Server Product Support.
- 0072**      **Message:**      **Invalid key reading tables while loading element activity records. Check tables for missing records.**  
Explanation:      When attempting to load the element activity records for this version, the program sensed end-of-file on the table file.  
Corrective Action:      If the segment element records for this version are missing, supply them to the tables. If the segment element records are not missing, contact Sterling Gentran:Server Product Support.
- 0073**      **Message:**      **Invalid key reading tables while loading segment records. Check tables for missing records.**  
Explanation:      When attempting to load the segment records for this version, the program sensed end-of-file on the table file.  
Corrective Action:      If the segment records for this version are missing, supply them to the tables. If the segment records are not missing, contact Sterling Gentran:Server Product Support.
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## System Messages

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- 0074 Message: Lengthen transaction tables – program problem – contact Sterling Gentran:Server Product Support.**  
Explanation: When the program was attempting to load the transaction table from the table file, it ran out of space.  
Corrective Action: Contact Sterling Gentran:Server Product Support.
- 0075 Message: Lengthen segment table – program problem – contact Sterling Gentran:Server Product Support.**  
Explanation: When the program was attempting to load the segment table from the table file, it ran out of space.  
Corrective Action: Contact Sterling Gentran:Server Product Support.
- 0076 Message: Lengthen element activity table – program problem – contact Sterling Gentran:Server Product Support.**  
Explanation: When the program was attempting to load the element activity table from the table file, it ran out of space.  
Corrective Action: Contact Sterling Gentran:Server Product Support.
- 0077 Message: Lengthen segment element table – program problem – contact Sterling Gentran:Server Product Support.**  
Explanation: When the program was attempting to load the segment element table from the table file, it ran out of space.  
Corrective Action: Contact Sterling Gentran:Server Product Support.
- 0078 Message: ICS control version number is missing. Suspending to next ICS.**  
Explanation: The control version number in the ICS found is blank. Without this, no interpretation of the following data can be attempted. The data is being suspended until the next transmission header is encountered.  
Corrective Action: Contact the data originator so that their data origination process may be corrected.
- 0079 Message: Indicated segment ID not found in tables. Segment not validated.**  
Explanation: A segment was found in this transaction that is not defined in the tables for this transaction. It could not be interpreted.  
Corrective Action: Determine if the input is in error. Contact the data originator to correct their data generation process.
- 0080 Message: Invalid element type found in tables. Element skipped.**  
Explanation: The program has found an invalid element type within the tables. It cannot process this element type.  
Corrective Action: Examine the tables and determine what the element type should be. Correct the tables and proceed.

- 0081 Message: Segment contains more elements than tables allow. Excess elements suspended.**  
Explanation: In processing the segment, more elements were found than are defined in the tables. Excess elements cannot be interpreted as there are no definitions for them. They are deleted.  
Corrective Action: Contact data originator to correct the data generation process.
- 0082 Message: Indicated segment element not saved. Check tables for error. If tables are OK, contact Sterling Gentran:Server Product Support.**  
Explanation: The element that was encountered in the data was to be compared to a prior element in a prior segment, but that element in that segment was not saved by the program. This will usually occur when the element activity records for the transactions are in error.  
Corrective Action: Check the tables for an error in the element activity associated with this segment and the related prior segment. If the tables are not in error, contact Sterling Gentran:Server Product Support.
- 0083 Message: Warning – century in date is zero.**  
Explanation: The input date contains the value zero for the century. This is a warning only.  
Corrective Action: Determine if the date is valid. If so, no corrective action is necessary. If not, contact the data originator so that the data generation process may be corrected.
- 0084 Message: Element does not equal a valid prior element as defined in the tables.**  
Explanation: The element does not have the same value as a prior element that was encountered in the transaction and which it should equal.  
Corrective Action: Contact the data coordinator so that the data generation process can be corrected.
- 0085 Message: Error in tables – attempting to compare non-numeric element with numeric internal accumulator.**  
Explanation: There is an error in the tables that is telling the program to compare the current element which is defined as a non-numeric element with an accumulation of prior elements.  
Corrective Action: Examine the tables and determine if the element activity indicating the comparison is incorrect or if the element dictionary entry indicating the element is non-numeric is correct. Any other element conditions are indicative of a program error.
- 0086 Message: Element does not equal accumulated value as defined in the tables.**  
Explanation: The element is defined as being a total of some prior elements in the transaction. The value encountered in this element does not equal the accumulated values of the appropriate elements from this transaction.  
Corrective Action: Contact the data originator so that the data generation process can be corrected.

- 0087**      **Message:**      **Error in tables – attempting to add a non-numeric element to a numeric internal accumulator.**
- Explanation:      The activity record is trying to add an ‘AN’ type field as a field defined as ‘N’ or ‘R’ type.
- Corrective Action:      Check the element activity record for an error indicating that a non-numeric element should be accumulated. If this is not the case, then check the element dictionary record for this element and change the element type to a numeric type so that it may be added to the internal accumulator.
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- 0088**      **Message:**      **Error in tables – attempting to compare numeric with non-numeric element previously stored.**
- Explanation:      The tables are indicating that a non-numeric element should be compared with a numeric element. This is an invalid condition.
- Corrective Action:      Examine the tables. Determine if the element activity record requiring this comparison is correct. If this element activity record is correct, then the element dictionary record defining the type of the corresponding elements is incorrect and must be changed.
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- 0089**      **Message:**      **Indicated segment or prior segment in input was out of sequence according to standards.**
- Explanation:      The segment was found in a position within the transactions that did not follow an expected sequence as defined by the transaction. This can occur either because this segment was not in sequence or because the prior segment in the transaction was out of sequence, causing the search algorithm to be mispositioned.
- Corrective Action:      Contact the data originator so that the program generation process may be corrected.
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- 0090**      **Message:**      **Indicated mandatory segment missing.**
- Explanation:      A mandatory segment has been omitted in transaction.
- Corrective Action:      Contact the data originator so that the program generation process may be corrected.
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- 0091**      **Message:**      **First segment in loop missing from loop, but segment within loop present.**
- Explanation:      The ANSI standards require that if any segment in a loop is present in the input, the first segment is required. This condition has been violated.
- Corrective Action:      Contact the data originator so that the program generation process may be corrected.
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- 0092**      **Message:**      **Maximum number of allowable loop repetitions exceeded.**
- Explanation:      The loop encountered has occurred more than the maximum number of allowed times according to the tables.
- Corrective Action:      Contact the data originator so that the program generation process may be corrected.

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<b>0093</b>	<b>Message:</b>	<b>Maximum number of consecutive uses of the identified segment exceeded.</b>
	Explanation:	The number of consecutive times that a segment was encountered has exceeded the maximum value that is defined in the tables.
	Corrective Action:	Contact the data originator so that the program generation process may be corrected.
<b>0130</b>	<b>Message:</b>	<b>Segment probably out of sequence. If not, table or program error – contact Sterling Gentran:Server Product Support.</b>
	Explanation:	This error message is associated with a nested loop problem. Once an inner loop is exited by a segment that is outside of the inner loop, a segment belonging to the outer loop must be present before a reference is made to the inner loop again. Otherwise, the loop structure is not loaded in the editor and the segment can not be found – hence out of sequence.
	Corrective Action:	Look at the standards and its loop structure. Make sure that the sequence of segments in your data does not leave an inner loop and then try to re-enter it without having a reference to a segment in the outer loop first. This outer loop segment must be before the start of the inner loop.
<b>0131</b>	<b>Message:</b>	<b>Loop stack length exceeded – contact Sterling Gentran:Server Product Support – extend table size or check tables for possible error.</b>
	Explanation:	The number of nested groups has exceeded the capability of the loop stack to hold the required loop indicators.
	Corrective Action:	Check the tables to determine if an excessive number of nested loops is present. If this is valid, lengthen the loop stack. If it is not valid, contact Sterling Gentran:Server Product Support for corrective action.
<b>0132</b>	<b>Message:</b>	<b>AK1 segment cannot be generated as requested – tables do not contain AK1 segment definition.</b>
	Explanation:	The input parameters have requested that acknowledgments requiring the AK1 segment be generated. This is not possible in this case because the AK1 segment definitions are not in the control tables as required.
	Corrective Action:	Examine the control tables and include all segments for the 997 functional acknowledgment transaction as needed.
<b>0133</b>	<b>Message:</b>	<b>AK2 segment cannot be generated as requested – tables do not contain AK2 segment definition.</b>
	Explanation:	The input parameters have requested that acknowledgments requiring the AK2 segment be generated. This is not possible in this case because the AK2 segment definitions are not in the control tables as required.
	Corrective Action:	Examine the control tables and include all segments for the 997 functional acknowledgment transaction as needed.

- 0134 Message: AK3 segment cannot be generated as requested – tables do not contain AK3 segment definition.**
- Explanation: The input parameters have requested that acknowledgments requiring the AK3 segment be generated. This is not possible in this case because the AK3 segment definitions are not in the control tables as required.
- Corrective Action: Examine the control tables and include all segments for the 997 functional acknowledgment transaction as needed.
- 0135 Message: AK4 segment cannot be generated as requested – tables do not contain AK4 segment definition.**
- Explanation: The input parameters have requested that acknowledgments requiring the AK4 segment be generated. This is not possible in this case because the AK4 segment definitions are not in the control tables as required.
- Corrective Action: Examine the control tables and include all segments for the 997 functional acknowledgment transaction as needed.
- 0136 Message: AK5 segment cannot be generated as requested – tables do not contain AK5 segment definition.**
- Explanation: The input parameters have requested that acknowledgments requiring the AK5 segment be generated. This is not possible in this case because the AK5 segment definitions are not in the control tables as required.
- Corrective Action: Segments for the 997 functional acknowledgment transaction as needed.
- 0137 Message: AK9 segment cannot be generated as requested – tables do not contain AK9 segment definition.**
- Explanation: The input parameters have requested that acknowledgments requiring the AK9 segment be generated. This is not possible in this case because the AK9 segment definitions are not in the control tables as required.
- Corrective Action: Examine the control tables and include all segments for the 997 functional acknowledgment transaction as needed.
- 0138 Message: Cannot find control transaction definitions to generate control segments – fatal error.**
- Explanation: The transaction defining the control segments are not present in the tables being used.
- Corrective Action: Insert the control transaction segments into the tables and rerun the data.
- 0139 Message: AC1 segment cannot be generated as requested – tables do not contain AC1 segment definition.**
- Explanation: The input parameters have requested that acknowledgments requiring the AC1 segment be generated. This is not possible in this case because the AC1 segment definitions are not in the control tables as required.
- Corrective Action: Examine the control tables and include all segments for the 997 functional acknowledgment transaction as needed.

- 0140 Message: Segment count in transaction trailer segment does not agree with segments counted in transaction.**
- Explanation: The number of segments in this transaction does not agree with segments counted in transaction.
- Corrective Action: Contact the data originator so that the data generation process can be corrected.
- 0141 Message: Transaction count in group trailer segment does not agree with transactions counted in group.**
- Explanation: The number of transactions encountered in the group does not match the transaction count supplied in the GE segment.
- Corrective Action: Contact the data originator so that the data generation process can be corrected. If transactions were suspended, the original counts may be correct and are affected by the suspension of the transactions.
- 0142 Message: Group count in trailer segment does not agree with groups counted in the interchange.**
- Explanation: The number of groups encountered in this transmission interchange does not agree with the group count in the transmission trailer segment.
- Corrective Action: Contact the data originator so that the data generation process can be corrected.
- 0143 Message: Exceeded version table limits. Indicated conversion ignored.**
- Explanation: The number of versions that have been input in the system parameters exceeds the ability of the program to store them.
- Corrective Action: Contact Sterling Gentran:Server Product Support.
- 0144 Message: Indicated Version for Version Conversion Global Parm not found in batch standards file. Parm is ignored.**
- Explanation: Version Conversion is being used in the global parameters and the identified version is not found in the batch standards file available to the program.
- Corrective Action: Examine Version Conversion and determine whether the version is valid and whether the conversion is needed. If the conversion is needed, select the version and download it to the standard files. If the conversion is not needed, remove the version conversion entry.
- 0145 Message: Table error. Segment element record has zero element dictionary pointer and no group designator.**
- Explanation: This is a table error. The segment element record does not have a corresponding element dictionary record and is not the beginning of a group of segment elements.
- Corrective Action: Examine the table to determine what the error is. Contact Sterling Gentran:Server Product Support if necessary.

## System Messages

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- 0146**      **Message:**      **Program error – element-group stack too short. Lengthen in program. Contact Sterling Gentran:Server Product Support. Program terminated.**
- Explanation:      The number of nested element groups referenced in the tables has exceeded the stacking storage capability within the program.
- Corrective Action:      Examine the tables to determine if an excessive number of nested element groups exists. Contact Sterling Gentran:Server Product Support.
- 0147**      **Message:**      **Segment separator is not valid as defined for interchange.**
- Explanation:      The segment separator following the segment identifier for a Tradacoms document is not valid.
- Corrective Action:      Examine the data, correct it and resubmit.
- 0148**      **Message:**      **Lengthen the code table for control segments – program problem – contact Sterling Gentran:Server Product Support.**
- Explanation:      The code table for valid codes for elements and control segments is too short to contain all the values in the table file.
- Corrective Action:      Contact Sterling Gentran:Server Product Support.
- 0149**      **Message:**      **Lengthen the code table for transaction segments – program problem – contact Sterling Gentran:Server Product Support.**
- Explanation:      The code table for valid codes for elements and transaction segments is too short to contain all the values in the table file.
- Corrective Action:      Contact Sterling Gentran:Server Product Support.
- 0150**      **Message:**      **TA1 segment cannot be generated as requested – tables do not contain TA1 segment.**
- Explanation:      The tables that the program is attempting to use do not contain the information necessary to generate the TA1 segment.
- Corrective Action:      Determine that the program is using the proper tables. If the proper tables are being used, document the interchange and group segments associated with this message and contact Sterling Gentran:Server Product Support.
- 0151**      **Message:**      **Version record not found – program aborted.**
- Explanation:      Program EBDI001 did not receive a version record for the transaction tables that it was processing. The program has been terminated.
- Corrective Action:      Provide version information in the appropriate format for the program and re-submit the input.
- 0155**      **Message:**      **Unexpected envelope records.**
- Explanation:      A control record was found when it was not expected. This indicates probable errors in the input data.
- Corrective Action:      Examine the input data, correct and resubmit.

- 0163 Message: Segment ID missing.**  
Explanation: The segment ID in the input data was not specified. The information related to this segment cannot be generated.  
Corrective Action: Supply the necessary input segment ID, check the rest of the data for correctness, resubmit and rerun.
- 0164 Message: Loop segment end without header.**  
Explanation: The input showed the end of a loop but did not contain an indication of the beginning of that loop.  
Corrective Action: Supply the loop header information on the appropriate segment or delete the loop end information on the indicated segment, resubmit and rerun.
- 0165 Message: Warning: Loop may not have valid end.**  
Explanation: The loop indicated on the information field may not have a valid end in the tables.  
Corrective Action: Determine if the loop end is valid (such as a nested loop). If the ending is valid, ignore the warning, if the warning has pointed out an error, correct the data and resubmit.
- 0167 Message: Requirement designator must be M, O, or C.**  
Explanation: The requirement designator for the element indicated was found to be other than the three valid values of M, O, or C.  
Corrective Action: Examine the data, correct the data, resubmit, and rerun.
- 0168 Message: Group must be non-blank if code equals G.**  
Explanation: The input record indicated that it was the beginning of the description of a group designator but no group identifying name was included in the data.  
Corrective Action: Examine the data, supply the correct name, resubmit and rerun.
- 0170 Message: Group table overflow; more than 200 entries.**  
Explanation: More than 200 group definitions were found in this version, the additional group definitions were ignored.  
Corrective Action: Examine the data to determine if more than 200 group definitions were actually present in this version table. If more than 200 valid groups are required, contact Sterling Gentran:Server Product Support to increase the table size and contact package vendor. If 200 groups are not included in this version, correct the data, resubmit and rerun.
- 0171 Message: Type of value must be V, T, G, or P.**  
Explanation: The input record in the field indicated must contain one of the four values V, T, G, or P.  
Corrective Action: Correct the data in the input record, resubmit and rerun.



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- 0172 Message: Type of table and external table should be blank.**  
Explanation: A non-blank field in the indicated field was found when it was not expected.  
Corrective Action: Make the input fields blank, resubmit and rerun.
- 0174 Message: Code list reference must be A or B followed by a 1, 2, or 3 digit number.**  
Explanation: In the input record, an invalid code reference was found.  
Corrective Action: Correct the code reference to be either A or B and supply the appropriate table number reference, resubmit the data and rerun.
- 0175 Message: Results storage must be alphabetic or numeric, no special characters are allowed.**  
Explanation: The table entries describing the areas for storing internal results are alphabetic or numeric according to the standards. The input contains an illegal special character.  
Corrective Action: Examine the input, correct the results storage indicator, resubmit and rerun.
- 0176 Message: Duplicate control reference; entry skipped.**  
Explanation: The indicated control reference is a duplicate and the defining entries have been skipped.  
Corrective Action: Examine the data and determine if the control entries are true duplicates. If they are true duplicates, remove them from the data for possible future use. No further action is necessary if they are true duplicates. If the duplicates are not true duplicates, correct the data to reflect the proper control information, resubmit and rerun.
- 0177 Message: Action type must be one of SE, CE, SC, CC, VV, CZ, CS.**  
Explanation: The action type found on the input record for the results storage activity was not one of the allowable values indicated.  
Corrective Action: Correct the data, resubmit and rerun.
- 0178 Message: Element reference must be space or zero for actions SC or ZS, or numeric for other values.**  
Explanation: An invalid element reference was found for the action code indicated on the error line.  
Corrective Action: Examine the data, correct it, resubmit and rerun.
- 0179 Message: Invalid interchange entry; current category must be I.**  
Explanation: On the input data record found, the current category was not the valid value for interchange definition as expected.  
Corrective Action: Examine the data, correct it, resubmit and rerun.

- 0180**      **Message:**      **Non-numeric dictionary element ID, records skipped.**  
Explanation:      The dictionary element ID found in the input record was not numeric, the dictionary reference has been skipped.  
Corrective Action:      Examine the data, correct it and resubmit.
- 0181**      **Message:**      **Element type must be N followed by single digit, or R, ID, DT, TM.**  
Explanation:      The element type on the input record is not a valid element type for the transactions.  
Corrective Action:      Examine the input data, correct the element type, resubmit and rerun.
- 0182**      **Message:**      **Field lengths must be numeric with minimum less than or equal to maximum.**  
Explanation:      Either an invalid minimum or maximum field length has been encountered or the maximum field length is less than the minimum field length.  
Corrective Action:      Examine the data, correct it, resubmit and rerun.
- 0183**      **Message:**      **Sender ID not on partner file. Suspending this interchange.**  
Explanation:      Partner validation has been requested and the incoming partner was not found on the Partner file. The interchange has been suspended.  
Corrective Action:      If this is a valid partner, add the Partner ID to the Partner file, requeue the suspense file to the inbound queue and reprocess the data. If this is not a valid Partner ID, contact the sending party and correct the source of the data.
- 0184**      **Message:**      **Compare envelope without being saves first; entry skipped.**  
Explanation:      The table entry to save the information to which later information is being compared is not present in the tables, therefore the activity of comparing could not be accomplished.  
Corrective Action:      Correct the tables to be sure that the item to be compared in the envelope structure is being saved, correct the tables, rebuild them, then resubmit the data and rerun.
- 0185**      **Message:**      **Count segment without segment first defined; entry skipped.**  
Explanation:      An attempt is being made by the table to define an undefined segment, this entry is skipped.  
Corrective Action:      Document the segments involved, contact Sterling Gentran:Server Product Support.
- 0187**      **Message:**      **Add value without accumulator first defined; entry skipped.**  
Explanation:      The input is attempting to define a process of adding a value to accumulator without having first defined and initialized the accumulator.  
Corrective Action:      Add a definition of the accumulator and initialization of accumulator to the transaction input, re-submit and rerun.

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- 0189 Message: Segment element count does not equal position in segment E07.**  
Explanation: The input definition record E07 contains a number other than the relative position of the element within the segment.  
Corrective Action: Examine the input definition, set the segment element position and segment element count the same, re-submit and rerun.
- 0190 Message: Group with no elements.**  
Explanation: A group was defined but no elements were defined as member of it.  
Corrective Action: Eliminate the group definition or supply the appropriate element definitions within the input, resubmit and rerun.
- 0191 Message: Group not defined; run aborted. Correct problem and rerun; add group, correct group or eliminate group reference.**  
Explanation: The group which was referenced was not defined and the run stopped because it's a major error. Correct the problem and rerun.  
Corrective Action: Add the group definition or eliminate the group reference, resubmit and rerun.
- 0192 Message: Segment not defined.**  
Explanation: The segment on the input referenced has not been defined by elements or within the transaction identified.  
Corrective Action: Examine the input data, include a definition of the segment at its appropriate level, resubmit and rerun.
- 0193 Message: Control reference not defined.**  
Explanation: Control reference indicated on the input segment has not been defined as required in other parts of the tables.  
Corrective Action: Include a control reference definition in the input, resubmit and rerun.
- 0194 Message: Loop repeat count must be numeric.**  
Explanation: A non-numeric loop repeat count was encountered.  
Corrective Action: Correct the loop repeat count so that it is all numeric, resubmit and rerun.

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- 0195**      **Message:**      **Group functional ID and group sender/receiver ID combination not on partner file. Suspending this group.**
- Explanation:      Group level validation for the partner was requested. The Partner file did not contain the group partner defined for that particular functional group ID. The input is suspended, processing continues at the next group.
- Corrective Action:      Examine the GS segment in the input data to verify the GS functional group ID and the GS sender/receiver ID. Examine the Partner file that corresponds to the GS sender/receiver ID to verify that a group is present for the input functional group ID, and the accept/send flag is "Y". If the GS sender/receiver ID is different from the Partner ID, verify that a cross-reference exists for that partner. If the GS functional group ID and the GS sender/receiver appear to be set up correctly, and the 0195 error is still occurring, ensure the Detail Report is turned on in the global parameters, rerun the process, and contact Sterling Gentran:Server Product Support.
- 0196**      **Message:**      **Requirement designator must be one of: M, O, F.**
- Explanation:      The program has encountered a segment whose requirement designator is not one of the three characters indicated.
- Corrective Action:      Correct the tables, recreate and rerun the data.
- 0197**      **Message:**      **Maximum use count is not numeric.**
- Explanation:      The program has encountered input where the maximum use count is not a valid number.
- Corrective Action:      Examine the input, correct the use count so it is a valid number, resubmit and rerun.
- 0198**      **Message:**      **Position in segment not numeric.**
- Explanation:      The program has encountered a non-numeric value in the position in the segment for the element.
- Corrective Action:      Examine the data, correct the position in segment so that it is a valid number in ascending sequence, resubmit and rerun.
- 0199**      **Message:**      **Position in segment not greater than previous position in segment.**
- Explanation:      In the indicated input record, the element's position in segment was not one greater than the prior element's position within the segment. These positions must be in ascending order starting at 1 and increasing by 1 for each position.
- Corrective Action:      Examine the data, correct the position in segment, resubmit and rerun.
- 0200**      **Message:**      **Element or group code must be E or G.**
- Explanation:      An invalid element or group code was found in the data indicated.
- Corrective Action:      Examine the data, correct the element or group code to the appropriate value, resubmit and rerun.

## System Messages

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<b>0201</b>	<b>Message:</b>	<b>Element ID must be numeric if code equals E.</b>
	Explanation:	Only numeric element IDs are valid and a non-numeric element ID was encountered.
	Corrective Action:	Correct the element ID to be a valid number or correct the code to be G if in fact the valid information is a group and not an element, re-submit and rerun.
<b>0207</b>	<b>Message:</b>	<b>Segment terminator same as element separator suspending to next transmission header.</b>
	Explanation:	In the interchange header, the element separator and the segment terminator were found to be the same character. This is not permitted by the standards and makes it impossible for the editor to parse the input; the interchange is suspended.
	Corrective Action:	Contact the source of the data and correct the data generator so that the segment terminator and element separator are not the same character.
<b>0208</b>	<b>Message:</b>	<b>Invalid action code in audit subroutine.</b>
	Explanation:	The audit subroutine has been passed an invalid code by calling program, this is a program error.
	Corrective Action:	Retain the error report and contact Sterling Gentran:Server Product Support.
<b>0209</b>	<b>Message:</b>	<b>Cannot add item to audit file. It duplicates an item already on file.</b>
	Explanation:	Duplicate information has been received in the control fields. It is likely that this transaction or transmission has been received before and is a duplicate transaction.
	Corrective Action:	Examine the input, contact the source and determine if this is a duplicate. If it is not a duplicate, contact the data source to have unique control numbers. If this is not possible, it will not be possible to accurately audit data from this partner or data to this partner.
<b>0210</b>	<b>Message:</b>	<b>Unknown segment ID in audit subroutine.</b>
	Explanation:	The audit subroutine received a non-control segment. This is a program error.
	Corrective Action:	Retain the error and the data.
<b>0211</b>	<b>Message:</b>	<b>Error encountered while adding a record to the audit file – out of space.</b>
	Explanation:	The audit file is full.
	Corrective Action:	There are two possible courses of action. One is purge records from the audit file, re-submit the input data and rerun. The other is to increase the number of allowable number of records in the file, re-submit the data and rerun.
<b>0212</b>	<b>Message:</b>	<b>Error encountered while updating a record on the audit file – record not found.</b>
	Explanation:	The audit subroutine was not able to find a record on the audit file that is was expecting.
	Corrective Action:	Retain the error report and the data and contact Sterling Gentran:Server Product Support.

- 0213**      **Message:**      **Error encountered while updating a record on the audit file – status code shown.**
- Explanation:      While the audit subroutine was attempting to update the audit, it encountered a record error.
- Corrective Action:      Retain the error report and data and contact Sterling Gentran:Server Product Support.
- 0214**      **Message:**      **Error encountered while operating the audit file – status code shown.**
- Explanation:      While the audit subroutine was attempting to open the audit it encountered a file error; the file routines returned the error code shown.
- Corrective Action:      Retain the error report and contact Sterling Gentran:Server Product Support. This is indicative of a file, program or job control problem.
- 0215**      **Message:**      **Error encountered while closing the audit file – status code shown.**
- Explanation:      While the audit subroutine was trying to close the audit file, it encountered a file error; the status code is shown as indicated.
- Corrective Action:      Retain the error message and the data and contact Sterling Gentran:Server Product Support. This is indicative of a file or program problem.
- 0216**      **Message:**      **Error encountered while deleting a record from the audit file – status code shown.**
- Explanation:      While attempting to purge a record from the audit file, a file error was encountered; the status code shown was returned by the file routines.
- Corrective Action:      Retain the error message and the data and contact Sterling Gentran:Server Product Support. This is indicative of a file or program problem.
- 0217**      **Message:**      **No match for acknowledgment found in audit file.**
- Explanation:      An acknowledgment was received for which there is no record on the audit file indicating the transmission or transaction was sent; the acknowledgment cannot be updated to the audit file.
- Corrective Action:      Determine if the acknowledgment is correct by contacting the sender. Determine if the transaction or transmission indicated by the acknowledgment should have been on the audit file.
- 0218**      **Message:**      **No BG version parameter or accepted – using default version.**
- Explanation:      The edit program did not find a parameter indicating what version of the BG to use so it defaults to the version “DEFAULT” to process the BG.
- Corrective Action:      None required. Determine if you wish to specify a BG version to use and provide the parameter to the edit program if you so desire.

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- 0219 Message: Set count in EG trailer segment does not agree with sets counted in the interchange.**  
Explanation: The number of sets counted in the interchange is not the same as the number of sets indicated in the EG trailer segment.  
Corrective Action: Contact the sender to correct the data being sent or determine if specific groups were suspended. If groups were suspended, the original counts may be correct and are affected by the suspension of the groups and/or transaction.
- 0220 Message: Segment count in EG trailer segment does not agree with segments counted in the interchange.**  
Explanation: The number of segments that the edit program counted in the interchange does not match the number of segments supplied in the EG interchange trailer segment.  
Corrective Action: If transactions or groups were suspended, no corrective action may be necessary. If no suspension of groups or transaction occurred, contact the data center to have them correct the data generation.
- 0221 Message: Partner ID not on partner file for interchange version processing.**  
Explanation: The Partner ID is not on the Partner file for the requested partner interchange validation. The interchange is suspended.  
Corrective Action: If this is a valid partner, add the partner to the Partner file and requeue the suspense file to the inbound queue and reprocess the data. If the data is not valid, contact the source to correct the data generation or distribution.
- 0222 Message: Sender group ID not on partner file for group version processing.**  
Explanation: The partner and functional group combination are not on the Partner file for the requested partner group validation. Group suspended.  
Corrective Action: If this is a valid group from/for this partner, enter the partner-group combination on the Partner file, and requeue the suspense file to the inbound queue and reprocess the data. If the data is not valid, contact the source to correct the data generation.
- 0223 Message: Error encountered while adding a record to the audit file – status code shown.**  
Explanation: The audit subroutine encountered a file error while attempting to add a record to the audit file; the status returned by the file routines shown.  
Corrective Action: Retain the error report and contact Sterling Gentran:Server Product Support. This is indicative of file or program problems.
- 0224 Message: Indicated invalid record type found on partner file.**  
Explanation: The program found a record type on the Partner file that it was not expecting.  
Corrective Action: Determine how the invalid record type was placed on the file; remove the invalid record type and proceed.

- 0225**      **Message:**      **Invalid transaction type found on input, transaction skipped.**  
Explanation:      While editing the input, an invalid transaction type was found; it cannot be processed since there are no table entries to define it. It is put into the suspense file  
  
Corrective Action:      Check the transaction type from the indicated input data. One of the transaction types may be misspelled. Correct transaction type and re-submit.
- 0226**      **Message:**      **Error encountered while reading the partner file – file status code shown.**  
Explanation:      While attempting to read a Partner file, the program encountered an error. The file status code returned by the routines is shown.  
  
Corrective Action:      Retain the error report and data and show it to Sterling Gentran:Server Product Support; this indicates file or program problems.
- 0228**      **Message:**      **The only valid value for Accept-All-Transactions flag are ‘Y,’ ‘N,’ ‘!,’ and blank.**  
Explanation:      The input transaction attempted to accept the Accept-All-Transactions flag to a value other than one of the four characters described in the error message.  
  
Corrective Action:      Correct the value of this field, resubmit and rerun.
- 0229**      **Message:**      **Transmission control number must be numeric or ‘!’.**  
Explanation:      A non-numeric value other than ‘!’ was found in the control number.  
  
Corrective Action:      Change the transmission control number on the input, resubmit and rerun.
- 0236**      **Message:**      **Error encountered while opening the partner file, program terminated.**  
Explanation:      An error occurred attempting to open the Partner file. This is a fatal error and the program will not continue. The file status code returned by the error routines is shown with the error message on the error report.  
  
Corrective Action:      Retain the error report, the job control listing, the input and show it to Sterling Gentran:Server Product Support; this indicates file problems or system problems.
- 0237**      **Message:**      **Acknowledge interchange value must be ‘Y,’ ‘N,’ ‘!,’ or blank.**  
Explanation:      The value in the interchange acknowledge field in the transaction is not one of the allowable values.  
  
Corrective Action:      Correct the data to an acceptable value, resubmit and rerun.
- 0238**      **Message:**      **Acknowledgment level must be ‘G,’ ‘T,’ ‘!,’ or blank.**  
Explanation:      The value in the acknowledgment level field on the input transaction is not an allowed value.  
  
Corrective Action:      Examine the input, change the value to an accepted value, resubmit and rerun.



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- 0239**      **Message:**      **Acknowledge error value must by “Y”, “N”, “!”, or blank.**  
Explanation:      The acknowledge errors value on the input transaction was not an acceptable value.  
Corrective Action:      Examine the data, correct the field value, resubmit and rerun.
- 0240**      **Message:**      **Invalid interchange header option found.**  
Explanation:      The program has found an unacceptable value in the interchange header specification for this partner.  
Corrective Action:      Examine the input data, correct the value to an acceptable value, resubmit and rerun.
- 0241**      **Message:**      **Separators or terminator must be specified in hex “H” or octal “O” when not printable characters.**  
Explanation:      The element separator, subelement separator or segment terminators were unprintable characters and were not specified as either hex or octal format.  
Corrective Action:      Examine the input, correct the specifications, resubmit and rerun.
- 0242**      **Message:**      **Invalid hex integer specified in the indicated data.**  
Explanation:      A hex integer position contained a value other than the characters 0-9 and A-F.  
Corrective Action:      Examine the input, correct the field to an acceptable value, resubmit and rerun.
- 0250**      **Message:**      **Error encountered while changing a record on the partner file – file status code shown**  
Explanation:      While attempting to change a record on the partner file, the error routines returned the indicated error code.  
Corrective Action:      Obtain the job log, the input, the error report, and submit to Customer Support; this indicates program or file problems.
- 0295**      **Message:**      **Transaction cannot be processed. Partner not on file. Add control record first.**  
Explanation:      The control record for each partner must be the first piece of information put on the file for the partner; this transaction attempted to add information for a partner whose control record had not yet been set up.  
Corrective Action:      Add a partner control record for this partner, resubmit this transaction and rerun after adding the partner control record.
- 0326**      **Message:**      **Transaction not on partner file for this group sender ID. Suspending this transaction.**  
Explanation:      When the edit program checked to determine if this transaction was valid for the partner in the group header record, it discovered that this was not a legitimate combination. The transaction is suspended.  
Corrective Action:      Add the transaction to the Partner file, requeue the suspense file to the inbound queue and reprocess the data, or contact the data originator to correct data generation process.

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- 0327 Message: Not authorized to send/receive this transaction for this group partner. Suspending the transaction.**
- Explanation: The input edit program discovered that this transaction is not authorized to be sent or received from the partner defined in the group header segment. If inbound, the accept flag for the partner is 'N.' If outbound, the send flag for this transaction for the partner is 'N.' The data is suspended.
- Corrective Action: Set up this transaction in the Partner file for this partner as defined on the group header segment, requeue the suspense file to the inbound queue and reprocess the data, or contact the data originator to correct the generation process.
- 0354 Message: Partner record not found during sequence check.**
- Explanation: While the validation program was attempting to perform a sequence check on the incoming interchange/group, the identified partner's record was not available on the Partner file.
- Corrective Action: Add the partner record with interchange/group number to the Partner file and process the incoming interchange/group information that was suspended.
- 0355 Message: Control number out of sequence. Indicated number was found in the input.**
- Explanation: While the edit program was attempting to verify the interchange/group control number, it discovered an out of sequence number. The indicated number was found on the input.
- Corrective Action: Contact the sender of the information to determine why the sequence number was out of sequence, or correct the control number on the Partner file.
- 0356 Message: The indicated control number was expected.**
- Explanation: When the edit program was validating the interchange/group header for control numbers, it discovered a control number other than the one that was expected. The control number that was expected is indicated with the error message line.
- Corrective Action: Contact the data source and determine why the control number was out of sequence or correct the control number in the Partner file.
- 0357 Message: Error was encountered updating partner file – file status code shown.**
- Explanation: While the program was attempting to update the Partner file, the error routines returned the indicated status. This indicates a program or system problem.
- Corrective Action: Retain the input, the Partner file, the print-out and report to Sterling Gentran:Server Product Support.
- 0358 Message: Input file empty. No control segments generated.**
- Explanation: The program detected an empty input file, consequently, no control segments were generated.
- Corrective Action: If the input file should not have been empty, supply the correct input file to the system and rerun. If the empty file is acceptable, no further action is necessary.
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- 0359**      **Message:**      **Control record missing from input file – records suspended until found.**  
Explanation:      The first records in the input file were not control records indicating the enveloping records to be created by the program. The program suspends the input until it reaches a control record telling it which enveloping information to generate.  
Corrective Action:      Contact the source of the records and determine why the control records were not supplied.
- 0360**      **Message:**      **Partner not found on partner file – records suspended for this partner.**  
Explanation:      While attempting to generate the enveloping information for the partner indicated, the partner information was not on the Partner file, so no enveloping information was available. The records are suspended for that partner.  
Corrective Action:      Add the partner information to the Partner file or correct the data source to generate the correct Partner ID.
- 0361**      **Message:**      **Error encountered reading partner file – file status code shown.**  
Explanation:      While the program was attempting to read the Partner file, the error routines returned the indicated status code. This indicates program or system problems.  
Corrective Action:      Retain the input, the Partner file, the printout and report to Sterling Gentran:Server Product Support.
- 0362**      **Message:**      **Group control number missing from partner file – records being suspended.**  
Explanation:      When the program was attempting to access the group control number, it discovered that it was not available in the Partner file. The records for this group are suspended.  
Corrective Action:      Supply a group control number on the input control record or supply a group control number in the Partner file, resubmit and rerun.
- 0363**      **Message:**      **Transmission control number missing from partner file – records being suspended.**  
Explanation:      While the program was attempting to determine the transmission control number, it discovered that the transmission control number was not available on the Partner file.  
Corrective Action:      Supply the transmission control number on the appropriate control statement or add the transmission control number to the Partner file for that partner, resubmit and rerun.
- 0364**      **Message:**      **Required control parameter not found. Program terminated.**  
Explanation:      The control parameters required by the program were not available in the input file, the program has terminated.  
Corrective Action:      Examine the input, supply the correct necessary control parameters, resubmit and rerun.

- 0365**      **Message:**      **Attempt made to write past end of segment element table extra data segment.**
- Explanation:      The program has attempted to write past the end of the extra data segment space allowed for the segment element table information. This indicates program or system problems.
- Corrective Action:      Retain the input and the printed output and report to Sterling Gentran:Server Product Support.
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- 0379**      **Message:**      **Expect interchange acknowledgment must be “Y”, “N”, “!”, or blank.**
- Explanation:      The program discovered an invalid value on the interchange acknowledgment field on the input transaction.
- Corrective Action:      Correct the field to the appropriate values as indicated in the error message, resubmit and rerun.
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- 0380**      **Message:**      **Password on BG segment does not match partner file. Records suspended.**
- Explanation:      When the program was validating the password on the incoming BG segment, it did not match the password on the Partner file. The interchange is suspended.
- Corrective Action:      Contact the data center and determine why an incorrect password was supplied on the BG segment or correct the password for the partner on the Partner file, resubmit and rerun.
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- 0381**      **Message:**      **B5 segment cannot be generated as requested – tables do not contain B5 segment.**
- Explanation:      While the program was attempting to generate a B5 segment to generate acknowledgments, it discovered that for this version the tables do not contain the information necessary to generate the B5 segment.
- Corrective Action:      Correct the information on the Partner file that is attempting to generate an invalid acknowledgment or add the B5 segment information to the tables for this version, resubmit and rerun.
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- 0382**      **Message:**      **A1 segment cannot be generated as requested – tables do not contain A1 segment.**
- Explanation:      While the program was attempting to generate a A1 segment to generate acknowledgments, it discovered that for this version the tables do not contain the information necessary to generate the A1 segment.
- Corrective Action:      Correct the information on the Partner file that is attempting to generate an invalid acknowledgment or add the A1 segment information to the tables for this version, resubmit and rerun.
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- 0383**      **Message:**      **More generate acknowledgment parameters than allowed. Parameter ignored.**
- Explanation:      More acknowledgment generation parameters were found than could be stored in internal tables. Extra ones are ignored.
- Corrective Action:      Contact Sterling Gentran:Server Product Support.

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- 0384**      **Message:**      **Significant digit truncated during move to output file.**  
Explanation:      One or more significant digits were lost when moving numeric fields in user routines.  
Corrective Action:      Contact data source to correct size of data elements sent or increase size of receiving field.
- 0385**      **Message:**      **Invalid element relation code found. Error in tables. Contact Sterling Gentran:Server Product Support.**  
Explanation:      While the program was attempting to create internal element relation code information, it discovered an invalid code in the tables.  
Corrective Action:      Examine the input file and correct the element relation code to a valid value. If the element relation codes appear to be valid, be certain that they are in the proper position on the file record.
- 0386**      **Message:**      **Conditional element required but not present in this segment.**  
Explanation:      While the program was validating the input, it discovered that a conditional element was required but missing. The missing element is indicated with this message.  
Corrective Action:      Contact the source of the data and correct the data generation process so that the appropriate conditional element is generated.
- 0387**      **Message:**      **Indicated element present. It is excluded by relationship with another element in the segment.**  
Explanation:      While the program was validating element relationships, it discovered mutually exclusive elements are present. The second element discovered is indicated with the error message.  
Corrective Action:      Contact the data source and correct the data generation process so that mutually exclusive elements are not present in this segment.
- 0392**      **Message:**      **Temporary I/O error – program terminated – end -of-file.**  
Explanation:      While attempting to access the temporary file, the program received the indicated error code from the access routines. The program was terminated. This indicates program or system problems.  
Corrective Action:      Retain the input, the printout and report to Sterling Gentran:Server Product Support.
- 0393**      **Message:**      **Temporary file I/O error – program terminated – sequence error.**  
Explanation:      While attempting to access the temporary file, the program received the indicated error code from the access routines. The program was terminated. This indicates program or system problems.  
Corrective Action:      Retain the input, the printout and report to Sterling Gentran:Server Product Support.

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- 0394**      **Message:**      **Temporary file I/O error – program terminated – duplicate key.**  
Explanation:      While attempting to access the temporary file, the program received the indicated error code from the access routines. The program was terminated. This indicates program or system problems.  
  
Corrective Action:      Retain the input, the printout and report to Sterling Gentran:Server Product Support.
- 0395**      **Message:**      **Temporary file I/O error – program terminated – record not found.**  
Explanation:      While attempting to access the temporary file, the program received the indicated error code from the access routines. The program was terminated. This indicates program or system problems.  
  
Corrective Action:      Retain the input, the printout and report to Sterling Gentran:Server Product Support.
- 0396**      **Message:**      **Temporary file I/O error – program terminated – out of space.**  
Explanation:      While attempting to access the temporary file, the program received the indicated error code from the access routines. The program was terminated. This indicates program or system problems.  
  
Corrective Action:      Retain the input, the printout and report to Sterling Gentran:Server Product Support.
- 0397**      **Message:**      **Open error on temporary file – file status shown – program terminated.**  
Explanation:      While attempting to open a temporary file, the program received the indicated error code from the access routines. The program was terminated. This indicates program problems.  
  
Corrective Action:      Retain the input and the printout and report to Sterling Gentran:Server Product Support.
- 0398**      **Message:**      **Close error on temporary file – status code shown – program terminated.**  
Explanation:      While attempting to close a temporary file, the program received the error code shown from the access routines. This indicates program or system problems.  
  
Corrective Action:      Retain the input and the printout and report to Sterling Gentran:Server Product Support.
- 0407**      **Message:**      **Error encountered opening error message file. File status code shown. Program terminated.**  
Explanation:      While attempting to open the error message file, the error routines returned an error code as shown. The program terminated.  
  
Corrective Action:      Examine the job log and determine that the file name is the correct file name. If the correct error message file name is indicated, retain the data and the printout and report to Sterling Gentran:Server Product Support.

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<b>0408</b>	<b>Message:</b>	<b>Error encountered reading error message file. File status code shown. End of file.</b>
	Explanation:	While attempting to read the error message file, the program received an error code as indicated from the file access routines. This indicates program or system problems.
	Corrective Action:	Retain the input and printout and report to Sterling Gentran:Server Product Support.
<b>0409</b>	<b>Message:</b>	<b>Error encountered reading error message file. File status code shown. Sequence error.</b>
	Explanation:	While attempting to read the error message file, the program received an error code as indicated from the file access routines. This indicates program or system problems.
	Corrective Action:	Retain the input and printout and report to Sterling Gentran:Server Product Support.
<b>0410</b>	<b>Message:</b>	<b>Error encountered reading error message file. File status code shown. Duplicate record.</b>
	Explanation:	While attempting to read the error message file, the program received an error code as indicated from the file access routines. This indicates program or system problems.
	Corrective Action:	Retain the input and printout and report to Sterling Gentran:Server Product Support.
<b>0411</b>	<b>Message:</b>	<b>Error encountered reading error message file. File status code shown. Record not found.</b>
	Explanation:	While attempting to read the error message file, the program received an error code as indicated from the file access routines. This indicates program or system problems.
	Corrective Action:	Retain the input and printout and report to Sterling Gentran:Server Product Support.
<b>0412</b>	<b>Message:</b>	<b>Error encountered reading error message file. File status code shown. End of file.</b>
	Explanation:	While attempting to read the error message file, the program received an error code as indicated from the file access routines. This indicates program or system problems.
	Corrective Action:	Retain the input and printout and report to Sterling Gentran:Server Product Support.
<b>0413</b>	<b>Message:</b>	<b>Error encountered reading error message file. File status code shown.</b>
	Explanation:	While attempting to read the error message file, the program received an error code as indicated from the file access routines. This indicates program or system problems.
	Corrective Action:	Retain the input and printout and report to Sterling Gentran:Server Product Support.

- 0420 Message: Transactions received count on acknowledgment does not equal transaction send count on audit file.**  
Explanation: A discrepancy has been found between the number of transactions sent as a group to your trading partner, and the number of transactions that they say they received in the group.  
Corrective Action: Contact the trading partner to resolve any problems with the transmitted data.
- 0421 Message: Transactions accepted count on acknowledgment is zero.**  
Explanation: Your trading partner is indicating that they have rejected all of the transactions sent to them in one functional group envelope.  
Corrective Action: Contact the trading partner to resolve any problems with the transmitted data.
- 0422 Message: Transactions accepted count on acknowledgment does not equal transaction received count.**  
Explanation: Your trading partner is indicating that they have rejected some of the transactions sent to them in one functional group envelope.  
Corrective Action: Contact the trading partner to resolve any problems with the transmitted data.
- 0437 Message: Group control segment select must be “UNG”, “GS”, “!”, or blank.**  
Explanation: The program was expecting a group beginning segment or blank. Instead it found the segment indicated in the information field and is suspending all input until an appropriate group value is found.  
Corrective Action: Check the input for proper envelope structure. Contact source of data to correct the data generation process if there is an error in the data being generated.
- 0438 Message: Trans control segment select must be “UNH”, “ST”, “!”, or blank.**  
Explanation: The program was expecting a transaction beginning segment or blank. Instead it found the segment indicated in the information field and is suspending all input until an appropriate transaction value is found.  
Corrective Action: Check the input for proper envelope structure. Contact source of data to correct the data generation process if there is an error in the data being generated.
- 0532 Message: “UNA” Decimal notation must be either a comma or period. Transmission suspended.**  
Explanation: An invalid code has been supplied for the UNA decimal notation field.  
Corrective Action: Contact the data originator to correct and resend the data.
- 0533 Message: UNA element 5 should be blank. Contents ignored.**  
Explanation: Element 5 in the UNA segment is not currently used, but data has been supplied. The data is ignored.  
Corrective Action: Contact the data originator to assure that the information in element 5 is unnecessary.



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- 0534 Message: Element separator cannot be the same as component element separator. Transmission suspended.**  
Explanation: The same code was specified for the element separator and component element separator that is not acceptable to the translator.  
Corrective Action: Contact the data originator to correct the data and retransmit.
- 0535 Message: Segment terminator cannot be the same as the component element separator. Transmission suspended.**  
Explanation: The same code was specified for the segment terminator and component element separator that is not acceptable to the translator.  
Corrective Action: Contact the data originator to correct the data and retransmit.
- 0536 Message: UNB character level must be “A” or “B”. Transmission suspended.**  
Explanation: Incorrect data was supplied for the character level on the UNA segment. Action: generation process can be corrected.  
Corrective Action: Contact the data originator to correct the data and retransmit.
- 0537 Message: 15th character of input transaction type or EDI transaction ID must be blank.**  
Explanation: Incorrect data was supplied for transaction type or ID.  
Corrective Action: Contact the data originator.
- 0538 Message: Component element separator must not be blank. Transmission suspended.**  
Explanation: A blank component element separator is not acceptable to the translator.  
Corrective Action: Contact the data originator to correct the data and retransmit.
- 0539 Message: Syntax segment not followed by interchange segment.**  
Explanation: The order of the interchange control segment is incorrect.  
Corrective Action: Contact the data originator to correct the data and retransmit.
- 0540 Message: Transaction conflicts with current interchange header option.**  
Explanation: The format of the interchange control envelope is invalid for this transaction type.  
Corrective Action: Contact the data originator to correct the data and retransmit.
- 0541 Message: Transaction conflicts with current group control segment selection.**  
Explanation: The format of the group control envelope is invalid for this transaction type.  
Corrective Action: Contact the data originator to correct the data and retransmit.

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- 0542 Message: Transaction conflicts with current transaction control segment selection option.**  
Explanation: The format of the transaction control envelope is invalid for this transaction type.  
Corrective Action: Contact the data originator to correct the data and retransmit.
- 0543 Message: Expected element activity records were not found for this segment.**  
Explanation: The standards table indicates element activity records should exist for this segment, but none were found.  
Corrective Action: Examine the tables to determine why element activity records were not found and correct.
- 0544 Message: Unexpected element activity records were found for this segment.**  
Explanation: The standards table indicates element activity records should not exist for this segment, but activity records were found.  
Corrective Action: Examine the tables to determine why element activity records were found and correct.
- 0549 Message: UNB syntax identifier is invalid. Fourth character must be 'A' through 'F.'**  
Explanation: Valid characters are 'A' through 'F.'  
Corrective Action: Enter the appropriate UNB syntax identifier.
- 0550 Message: UNB control reference number missing from partner. Interchange suspended.**  
Explanation: While creating a UNB control segment, no control reference number was found in the Partner file to use in generating sequence numbers.  
Corrective Action: Examine the Partner file records, correct the fields in error, and resubmit the data.
- 0551 Message: Required group functional ID is missing. Functional group is suspended.**  
Explanation: No group functional ID was specified on a control record for generating outbound control segments.  
Corrective Action: Correct the input control record(s) and resubmit the data.
- 0552 Message: Required transaction ID is missing. Transaction is suspended.**  
Explanation: No transaction ID was specified on a control record for generating outbound control segments.  
Corrective Action: Contact the data originator to correct the data and retransmit.

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- 0553**      **Message:**      **UNG control reference number missing from partner file. Interchange suspended.**
- Explanation:      While creating control segments, no reference number field was found to use in generating sequential reference number.
- Corrective Action:      Examine the Partner file records for this partner, correct as necessary and resubmit the data.
- 
- 0554**      **Message:**      **UNH message reference number missing from partner. Interchange suspended.**
- Explanation:      While creating control segments, no reference number field was found to use in generating sequential reference number.
- Corrective Action:      Examine the Partner file records for this partner, correct as necessary and resubmit the data.
- 
- 0555**      **Message:**      **Partner not found on partner file – records suspended for this group partner.**
- Explanation:      While creating control segments, the partner specified in the input control records was not found on the Partner file.
- Corrective Action:      Examine the Partner file records for this partner and correct if necessary. If the Partner file is okay, examine the data, correct and resubmit.
- 
- 0556**      **Message:**      **Partner not found on partner file – records suspended for this transaction partner.**
- Explanation:      While creating control segments, the partner specified in the input control records was not found on the Partner file.
- Corrective Action:      Examine the Partner file records for this partner and correct if necessary. If the Partner file is okay, examine the data, correct and resubmit.
- 
- 0557**      **Message:**      **Error reading table file.**
- Explanation:      While attempting to read the table file, the program received the indicated error code from the access routines.
- Corrective Action:      Retain the input and printout. Supply to Sterling Gentran:Server Product Support.
- 
- 0558**      **Message:**      **Unrecognized input parameter found. First 10 characters shown.**
- Explanation:      The displayed input parameter was not recognized by the program so no action was taken.
- Corrective Action:      An invalid parameter was passed to the program. Check the input parameters and specify a valid value.

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- 0559**      **Message:**      **Cannot generate 997. Tables are missing element definitions for the version in use.**
- Explanation:      No segment definitions were found for the 997 transaction definition in the indicated version tables.
- Corrective Action:      Examine the tables for indicated version. Report any errors to Sterling Gentran:Server Product Support.
- 0560**      **Message:**      **Cannot generate 999. Tables are missing element definitions for the version in use.**
- Explanation:      No segment definitions were found for the 999 transaction definition in the indicated version tables.
- Corrective Action:      Examine the tables for indicated version. Report any errors to Sterling Gentran:Server Product Support.
- 0561**      **Message:**      **Warning \*\*\* Mandatory element has been completely compressed since it is blank.**
- Explanation:      Input parameters specified that blank elements should be compressed even if they are mandatory elements. This message is informational only.
- Corrective Action:      No action need be taken if this is the desired processing option. If not, correct the parameters for the job.
- 0562**      **Message:**      **Not authorized to send/receive this group for this Group Partner ID. Suspending this group.**
- Explanation:      The input edit program discovered that this group is not authorized to be sent or received from the partner defined in the group header segment. If inbound, the accept flag for this group for the partner is 'N.' If outbound, the send flag for this group for the partner is 'N.'" The data is suspended.
- Corrective Action:      Set up this group in the Partner file for this partner as defined on the group header segment, requeue the suspense file to the inbound queue and reprocess the data, or contact the data originator to correct the generation process.
- 0568**      **Message:**      **Release character cannot be blank.**
- Explanation:      This transaction requires a valid release character.
- Corrective Action:      Enter a valid release character for this transaction and resubmit the job.
- 0569**      **Message:**      **Indicated Viewpoint doc definition unable to be tracked correctly; missing internal fld selection info for version.**
- Explanation:      The Viewpoint document definition could not track the selected fields with the actual EDI data received due to an internal file error.
- Corrective Action:      Determine the version of the document definition in error and run the utility job, SETTRKMSF (Set TRKMSF Values) for the version. This job will load the values for the element and sub-element fields in the TRKMSF Viewpoint file needed in order to be tracked by the Editors and Mappers.
- The file has not been opened.

- 0571      **Message:**      **Warning\*\*\*Version on the envelope is different than the compliance version. Inconsistencies may occur.**

Explanation:      The version used to create the group envelope is different than the version used for compliance checking.

Corrective Action:      The two versions are defined in the partner's group record. The compliance version is listed on panel EDIX031-FMT01 and the envelope version is listed on the Outbound Group Envelope screen. To remove the warning, make the two versions match.
  
- 0600      **Message:**      **Unable to open the partner file.**

Explanation:      The mapping program was unable to open the Partner file.

Corrective Action:      Obtain file status from "information" column of error report.

Probable Cause:      
  - The batch job stream has not been set up correctly to access this file.

- 0601 Message: Unable to open the code translation file.**  
Explanation: The mapping program was unable to open the code translation file.  
Corrective Action: Obtain file status from “information” column of error report.  
Probable Cause:
- The batch job stream has not been set up correctly to access this file. The secondary index must also be specified in the job stream for this file.
  - The file was not allocated correctly.
  - Another program has the file opened and the file was allocated so that it cannot be shared.
- 0602 Message: Unable to open the code validation file.**  
Explanation: The mapping program was unable to open the code validation file.  
Corrective Action: Obtain file status from “information” column of error report.  
Probable Cause:
- The batch job stream has not been set up correctly to access this file.
  - The file was not allocated properly.
  - Another program has the file opened and the file was allocated so that it cannot be shared.
- 0603 Message: Unable to open the data translation file.**  
Explanation: The mapping program was unable to open the data translation file.  
Corrective Action: Obtain file status from “information” column of error report.  
Probable Cause:
- The batch job stream has not been set up correctly to access this file. The secondary index must also be specified in the job stream for this file.
  - The file was not properly allocated.
  - Another program has the file opened and the file was allocated so that it cannot be shared.
- 0604 Message: Unable to open the application input file.**  
Explanation: The mapping program was unable to open the application input file.  
Corrective Action: Obtain file status from “information” column of error report.  
Probable Cause:
- The batch job stream has not been set up correctly to access this file.
  - The file was not allocated as defined on the APPLICATION DATA ID panel.
  - Another program has the file opened and the file was allocated so that it cannot be shared.

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<b>0605</b>	<b>Message:</b>	<b>Unable to open the EDI output file.</b>
	Explanation:	The mapping program was unable to open the EDI output file.
	Corrective Action:	Obtain file status from “information” column of error report.
	Probable Cause:	<ul style="list-style-type: none"><li>■ The batch job stream has not been set up correctly to access this file.</li><li>■ The file was not allocated correctly.</li><li>■ Another program has the file opened and the file was allocated so that it cannot be shared.</li></ul>
<b>0606</b>	<b>Message:</b>	<b>Application input file is empty.</b>
	Explanation:	No data is contained in the specified application input file.
	Corrective Action:	Determine whether the correct application file was specified in the batch job stream. Re-run job using application file with data.
<b>0607</b>	<b>Message:</b>	<b>An internal loop processing error has occurred.</b>
	Explanation:	A transaction segment was received that has a loop ID defined, that was not loaded at the start of processing.
	Corrective Action:	This is an internal processing error. Call Sterling Gentran:Server Product Support.
<b>0608</b>	<b>Message:</b>	<b>An undefined application record type was received.</b>
	Explanation:	An application record has been received by the mapper that has not been defined for this application data ID. This is specific for application definitions using internally described files.
	Corrective Action:	Either define the application record to the application or ignore the error message.
<b>0609</b>	<b>Message:</b>	<b>Unable to find sender’s control record on partner file.</b>
	Explanation:	The mapper could not find the sender’s control record on the Partner file.
	Corrective Action:	The line immediately below the error message contains all of the information that the mapper used in order to locate the partner. Check the ###MAP record in the input to the mapper, it should contain the sender’s Partner ID. If it does not, the Partner ID was not resolved correctly by the editor and additional cross-references may be needed. Find the interchange and group sender ID in the input data on the inbound queue. If either the interchange or group ID is not the same as the Partner ID, verify that it is cross-referenced to the partner. If the sender ID and the global parameters appear to be set up correctly, ensure the Detail Report is turned on in the global parameters, rerun the process, and contact Sterling Gentran:Server Product Support.

- 0610**      **Message:**      **Unable to open the EDI reject file.**  
Explanation:      The mapping program was unable to open the EDI reject file.  
Corrective Action:      Obtain file status from “information” column of error report.  
Probable Cause:
  - The batch job stream has not been set up correctly to access this file.
  - The file was not allocated correctly.
  - Another program has the file opened and the file was allocated so that it cannot be shared.
- 0611**      **Message:**      **Unable to find receiver’s control record on partner file.**  
Explanation:      The mapper could not find the receiver’s control record on the Partner file. For inbound processing, this message is informational only. For outbound processing, all records for this application document are ignored and written to the application suspense file.  
Corrective Action:      The line immediately below the error message contains all of the information that the mapper used in order to locate the partner. Check the Application Partner Reference panel for the application being processed and verify the trading partner field name. It must be an alphanumeric field within the application header area. The field value must be the Partner ID on the Partner file or an ID that is cross-referenced to the Partner ID.
- 0612**      **Message:**      **Unable to find receiver's group record on the partner file.**  
Explanation:      The mapper could not find the receiver's group record on the Partner file.  
Corrective Action:      The information line following the error message contains the partner information that was used to access the Partner file. Unless non-Sterling Gentran:Server supplied programs are used to update the Partner file, this error should never occur, as all partners are added with a default group record. Determine the cause of the missing default group record.
- 0613**      **Message:**      **Transaction cannot be selected – document will be skipped.**  
Explanation:      The mapper could not select a transaction map to use for processing this document.  
Corrective Action:      Inbound Processing  
  1. Examine the information line immediately below the error message. This line contains all the information that the mapper used to find a transaction map. If any of the information fields are blank, the mapper could not locate the information for that field.
  2. Examine the ###MAP record in the input to the mapper. For inbound processing, the mapper obtains the Partner ID, transaction set, and standards version from the ###MAP record that is generated by the editor. If any of the information on the ###MAP record is incorrect, the editor did not correctly locate that information.



3. If the Partner ID on the ####MAP record is not correct, examine the interchange and group sender IDs in the input on the inbound queue and verify they are cross-referenced to the correct Partner ID.
4. If the standards version is incorrect on the ####MAP record, examine the Application Data ID panel for the application specified on the error information line. The application data ID field should contain the Application ID that is attempting to be processed. Note the functional group specified on the Application Data ID panel. Then examine the global parameters to see that Partner Group is set to "Y". If this parameter is turned on, examine the group record on the Partner file for the functional group ID that was noted from the Application Data ID panel in the Partner file. If the use code is an "A", the editor used the standards version on the Group Information panel in the Partner file. If the use code is an "I", the editor used the standards version from the group envelope in the input data. If the use code is a "D", the editor used the standards version from the group envelope in the input data if it was valid. Otherwise, the editor defaulted to the version in the group information in the Partner file.
5. The editor obtained the transaction set from the transaction envelope in the input data.
6. Look at the transaction ID on the Partner file for the transaction set on the ####MAP record. Note the translation ID inbound on the transaction information panel if there is one specified. If specified, the translation ID inbound should be the name of the transaction map.
7. Access the Transaction Maintenance panel for the transaction map that the mapper was attempting to use. Verify the Application ID, transaction set, and version. These must match the data on the ####MAP record. Also verify the send or receive flag is "R". Finally, check the use code. If a translation ID inbound was specified on the Partner file, the use code should be a "P". Otherwise, if the translation ID inbound was blank, the use code should be a "G". If the use code is a "G", the mapper will examine the table of available general transactions maps for the application being processed until it finds the first one with the correct standards version.

Corrective Action:

Outbound Processing

1. Access the Application Partner Reference panel and examine the application being processed. The mapper uses the application partner reference to locate the trading Partner file. Verify the trading partner field name is the name of an alphanumeric field within the header area of your application data. The field should contain a value that is either the trading Partner ID on the Partner file or is cross-referenced to the trading Partner ID in the partner cross-reference file. If a qualifier field name displays on the Application Partner Reference panel, it should be the name of an alphanumeric field within the header area of the application data. The field should contain the qualifier that the mapper should use to find the partner.

2. Access the Application Data ID panel for the application being processed. Note the Functional Group ID.
3. Access the Group Information panel for the functional group ID on the Partner file for the trading partner. If the functional group does not exist for the trading partner, examine the !!!DFT group. Note the standards version. This version is the standard that the mapper used for selecting the map.
4. Access the Transaction Information panel in the Partner file for the transaction set being processed. The translation ID outbound should be the name of the transaction map.
5. Access the Transaction Maintenance panel for the desired map to be processed. Verify the 'use' code. If there was a translation ID outbound on the Partner file, the 'use' code must be a "P". If there was not a translation ID outbound, the 'use' code must be a "G". Then verify that the send or receive flag is "S". The application data ID field is the ID being processed and the transaction set field is the set being processed. Finally, verify the standards version matches the standards version that was noted from the partner's group information.

<b>0614</b>	<b>Message:</b>	<b>Internal error on segment loop processing – call Support.</b>
	Explanation:	A transaction segment was received with a loop ID defined, that was not loaded at the start of processing.
	Corrective Action:	This is an internal processing error. Call Sterling Gentran:Server Product Support.
<b>0615</b>	<b>Message:</b>	<b>Invalid input field type – moved zero to target field.</b>
	Explanation:	The input field identified in the record/field or segment/element section of the error message is not defined with a correct data type (EDI or application).
	Corrective Action:	This is an internal processing error that should be prevented by the online edits. Contact Sterling Gentran:Server Product Support.
<b>0616</b>	<b>Message:</b>	<b>Invalid output field type – moved zero to target field.</b>
	Explanation:	The output field identified in the record/field or segment/element section of the error message is not defined with a correct data type (EDI or application).
	Corrective Action:	This is an internal processing error that should be prevented by the online edits. Contact Sterling Gentran:Server Product Support.
<b>0617</b>	<b>Message:</b>	<b>Invalid numeric data field in input field – moved zero to target field.</b>
	Explanation:	The input field identified in the record/field or segment/element section of the report contains data that does not conform to the data type assigned to the field/element.
	Corrective Action:	Determine the data in error and correct or modify the assigned data type.

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<b>0618</b>	<b>Message:</b>	<b>Unable to open the application reject file.</b>
	Explanation:	The mapping program was unable to open the application reject file.
	Corrective Action:	Obtain file status from “information” column of error report.
	Probable Cause:	<ul style="list-style-type: none"><li>■ The batch job stream has not been set up correctly to access this file.</li><li>■ The file was not allocated correctly.</li><li>■ Another program has the file opened and the file was allocated so that it cannot be shared.</li></ul>
<b>0619</b>	<b>Message:</b>	<b>Invalid input field type – moved zero to target field.</b>
	Explanation:	The input field identified in the record/field or segment/ element section of the error message is not defined with a correct data type (EDI or application).
	Corrective Action:	This is an internal processing error that should be prevented by the online edits. Contact Sterling Gentran:Server Product Support.
<b>0620</b>	<b>Message:</b>	<b>Invalid output field type – moved zero to target field.</b>
	Explanation:	The output field identified in the record/field or segment/ element section of the error message is not defined with a correct data type (EDI or application).
	Corrective Action:	This is an internal processing error that should be prevented by the online edits. Contact Sterling Gentran:Server Product Support.
<b>0621</b>	<b>Message:</b>	<b>Invalid numeric data in input field – moved zero to target field.</b>
	Explanation:	The input field identified in the record/field or segment/ element section of the error message is not defined with a correct data type (EDI or application).
	Corrective Action:	Determine the data in error and correct the data or modify the assigned data type.
<b>0622</b>	<b>Message:</b>	<b>Invalid input field type – moved space to target field.</b>
	Explanation:	The input field identified in the record/field or segment/ element section of the error message is not defined with a correct data type (EDI or application).
	Corrective Action:	This is an internal processing error that should be prevented by the online edits. Contact Sterling Gentran:Server Product Support.
<b>0623</b>	<b>Message:</b>	<b>Invalid output field type – moved zero to target field.</b>
	Explanation:	The output field identified in the record/field or segment/ element section of the error message is not defined with a correct data type (EDI or application).
	Corrective Action:	This is an internal processing error that should be prevented by the online edits. Contact Sterling Gentran:Server Product Support.
<b>0624</b>	<b>Message:</b>	<b>Invalid “date” data in input field – moved space to target field.</b>
	Explanation:	The input field identified in the record/field or segment/ element section of the error message is not defined with a correct data type (EDI or application).
	Corrective Action:	Determine the data in error and correct the data or modify the assigned data type.

<b>0625</b>	<b>Message:</b>	<b>Unable to translate data – moved space to space to target field.</b>
	Explanation:	Data translation was specified for the identified field or element and the input value was not located in the data translation table.
	Corrective Action:	Note the translation table ID and the field on the error information line. Find the value in the specified field in the input data. Check the translation table to verify the value exists in the table. If the value is not in the translation table, either contact the data originator to correct the data or ignore the message.
<b>0626</b>	<b>Message:</b>	<b>Unable to translate code – moved space to target field.</b>
	Explanation:	Code translation was specified for the identified field or element and the input value was not located in the code translation table.
	Corrective Action:	Determine if the entry identified in the “information” column of the report should be added to the code translation table. If so, add the entry to the table, if not, ignore the message or have the input data corrected at the source.
<b>0627</b>	<b>Message:</b>	<b>Unable to validate data – moved space to target field.</b>
	Explanation:	Data validation was specified for the identified field or element and the input value was not located in the data validation table.
	Corrective Action:	Determine if the entry identified in the “information” column of the report should be added to the code translation table. If so, add the entry to the table, if not, ignore the message or have the input data corrected at the source.
<b>0628</b>	<b>Message:</b>	<b>Internal error on max use table – call Support.</b>
	Explanation:	The mapper was unable to locate a segment/record entry previously identified to the mapper as having a “max use” greater than 1.
	Corrective Action:	This is an internal processing error. Contact Sterling Gentran:Server Product Support.
<b>0629</b>	<b>Message:</b>	<b>Unable to write to the EDI output file.</b>
	Explanation:	The mapping program was unable to write to the EDI output file.
	Corrective Action:	Obtain file status from “information” column of error report.
	Probable Cause:	<ul style="list-style-type: none"><li>■ The file is out of space.</li><li>■ A system I/O error has occurred.</li></ul>
<b>0630</b>	<b>Message:</b>	<b>Unable to open the parameter file.</b>
	Explanation:	The mapping program was unable to open the parameter file.
	Corrective Action:	Obtain file status from” information” column of error report.
	Probable Cause:	<ul style="list-style-type: none"><li>■ The batch job stream has not been set up correctly to access this file.</li><li>■ The file was not allocated correctly.</li><li>■ Another program has the file opened and the file was allocated so that it cannot be shared.</li></ul>

- 0631 Message: Unable to open the application header file.**  
Explanation: The mapping program was unable to open the application header file.  
Corrective Action: Obtain file status from “information” column of error report.  
Probable Cause:
- The batch job stream has not been set up correctly to access this file.
  - The file was not allocated correctly.
  - Another program has the file opened and the file was allocated so that it cannot be shared.
- 0632 Message: Unable to open the application record file.**  
Explanation: The mapping program was unable to open the application record file.  
Corrective Action: Obtain file status from “information” column of error report.  
Probable Cause:
- The batch job stream has not been set up correctly to access this file.
  - The file was not allocated correctly.
  - Another program has the file opened and the file was allocated so that it cannot be shared.
- 0633 Message: Unable to open the application link file.**  
Explanation: The mapping program was unable to open the application link file.  
Corrective Action: Obtain file status from “information” column of error report.  
Probable Cause:
- The batch job stream has not been set up correctly to access this file.
  - The file was not allocated correctly.
  - Another program has the file opened and the file was allocated so that it cannot be shared.
- 0634 Message: Unable to open the application fields file.**  
Explanation: The mapping program was unable to open the application fields file.  
Corrective Action: Obtain file status from “information” column of error report.  
Probable Cause:
- The batch job stream has not been set up correctly to access this file.
  - Another program has the file opened and the file was allocated so that it cannot be shared.
- 0635 Message: Unable to read the parameter file.**  
Explanation: The mapping program was unable to read the parameter file.  
Corrective Action: Obtain file status from “information” column of error report.  
Probable Cause:
- A system I/O error has occurred.

<b>0636</b>	<b>Message:</b>	<b>No input parameters have been specified.</b>
	Explanation:	No parameters are set up in the defined parameter file.
	Corrective Action:	Obtain file status from “information” column of error report.
<b>0637</b>	<b>Message:</b>	<b>No application file has been specified in the parameters.</b>
	Explanation:	The parameter file does not contain the required application data ID name.
	Corrective Action:	Set up the correct application data ID name in the parameter file.
<b>0638</b>	<b>Message:</b>	<b>Missing information on the instream parameter.</b>
	Explanation:	The application file type (I, L, P) and/or the maximum record length was not correctly specified on an instream parameter record.
	Corrective Action:	Correct the application to generate a correct instream parameter record.
<b>0639</b>	<b>Message:</b>	<b>Unable to find application data ID specified in parameters.</b>
	Explanation:	The application data ID specified in the parameter file cannot be found in the application definition files.
	Corrective Action:	Determine whether the correct ID is on the parameter record and that the correct application definition files are identified in the batch job stream.
<b>0640</b>	<b>Message:</b>	<b>Unable to find an application record for application data ID.</b>
	Explanation:	The mapper was unable to find any records defined for the application.
	Corrective Action:	If no records have been set up for the application, then define them. If they have been defined, then determine whether the correct application records file has been specified in the batch job stream.
<b>0641</b>	<b>Message:</b>	<b>Unable to find the next application record.</b>
	Explanation:	The mapping program was unable to read the next record in the application record file.
	Corrective Action:	Obtain file status from “information” column of error report.
	Probable Cause:	<ul style="list-style-type: none"><li>■ Operating system record pointers have been corrupted.</li><li>■ Online buffers have not been “flushed” so batch access to the file is unpredictable. Rebuild the application records file. If this does not correct the problem, contact Sterling Gentran:Server Product Support.</li></ul>
<b>0642</b>	<b>Message:</b>	<b>Application record definition table is full.</b>
	Explanation:	More than 500 records have been defined to the application.
	Corrective Action:	Decrease the number of application records.
<b>0643</b>	<b>Message:</b>	<b>Application loop table is full.</b>
	Explanation:	More than 50 loops have been defined to the application.
	Corrective Action:	Decrease the number of loops.

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<b>0644</b>	<b>Message:</b>	<b>Unable to find an application field for application record.</b>
	Explanation:	The mapper was unable to find any fields defined for the application record.
	Corrective Action:	If no fields have been set up for the application, then define them. If they have been defined, then determine whether the correct application field file has been specified in the batch job stream.
<b>0645</b>	<b>Message:</b>	<b>Unable to find the next application field.</b>
	Explanation:	The mapping program was unable to read the next record in the application field file.
	Corrective Action:	Obtain file status from “information” column of error report.
	Probable Cause:	<ul style="list-style-type: none"><li>■ Operating system record pointers have been corrupted.</li><li>■ Online buffers have not been “flushed” so batch access to the file is unpredictable. Rebuild the application records file. Contact Sterling Gentran:Server Product Support.</li></ul>
<b>0646</b>	<b>Message:</b>	<b>Application field definition table is full – call support.</b>
	Explanation:	More than 2000 fields have been defined to the application.
	Corrective Action:	Decrease the number of application fields (if possible). If more than 2000 fields are needed, contact Sterling Gentran:Server Product Support.
<b>0647</b>	<b>Message:</b>	<b>Internal key field not in application field definition table.</b>
	Explanation:	Internal key field not in the application field definition table. The internal key field specified on the application partner reference panel cannot be located. This is a result of deleting or assigning a new record/field sequence number to the referenced field.
	Corrective Action:	Perform the “update” function on the application partner reference screen.
<b>0648</b>	<b>Message:</b>	<b>Internal qualifier field not in application fields definition table.</b>
	Explanation:	The internal qualifier field specified on the application partner reference panel cannot be located. This is a result of deleting or assigning a new record/field sequence number to the referenced field.
	Corrective Action:	Perform the “update” function on the application partner reference screen. If a field not found message is issued then the field must be set up or the reference erased.
<b>0649</b>	<b>Message:</b>	<b>Partner key field not in application fields definition table.</b>
	Explanation:	The partner key field specified on the application partner reference panel cannot be located. This is a result of deleting or assigning a new record/field sequence number to the reference field.
	Corrective Action:	Perform the “update” function on the application partner reference screen. If a field not found message is issued then the field must be set up or the reference erased.

- 0650**      **Message:**      **Partner qualifier field not in Application Fields Definition table.**  
Explanation:      The partner qualifier field specified on the Application Partner Reference panel cannot be located. This is a result of deleting or assigning a new record/field sequence number to the referenced field.  
  
Corrective Action:      Perform the “update” function on the application envelope information panel. If a “field not found” message is issued, then the field must be set up or the reference erased.
- 0651**      **Message:**      **Application select field not in application fields definition table.**  
Explanation:      The partner qualifier field specified on the application partner reference screen cannot be located. This is a result of deleting or assigning a new record/field sequence number to the reference field.  
  
Corrective Action:      Perform the “update” function on the application partner reference screen. If a “field not found” message is issued then the field must be set up or the reference erased.
- 0652**      **Message:**      **Unable to read the application link file.**  
Explanation:      The mapping program was unable to find any application/translation link records in the application link file for this application data ID.  
  
Corrective Action:      Obtain file status from “information” column of error report.  
Probable Cause:
  - No transactions have been defined for this application.
  - The batch job stream is not referencing the correct application link file.
  - The application link record(s) were deleted or not copied by a utility not supplied by Sterling Gentran:Server. Determine the cause of the error, correct the files or job stream and re-run the job.
- 0653**      **Message:**      **Transaction link definition table is full – call Support.**  
Explanation:      More than 900 transactions have been linked to the application.  
  
Corrective Action:      Decrease the number of transactions linked to the application.
- 0654**      **Message:**      **Unable to open the transaction header file.**  
Explanation:      The mapping program was unable to open the transaction header file.  
  
Corrective Action:      Obtain file status from “information” column of error report.  
Probable Cause:
  - The batch job stream has not been set up correctly to access this file.
  - The file was not allocated correctly.
  - Another program has the file opened and the file was allocated so that it cannot be shared.



- 0655**      **Message:**      **Unable to open the transaction segment file.**  
Explanation:      The mapping program was unable to open the transaction segment file.  
Corrective Action:      Obtain file status from “information” column of error report.  
Probable Cause:
  - The batch job stream has not been set up correctly to access this file.
  - The file was not allocated correctly.
  - Another program has the file opened and the file was allocated so that it cannot be shared.
- 0656**      **Message:**      **Unable to open the transaction element file.**  
Explanation:      The mapping program was unable to open the transaction element file.  
Corrective Action:      Obtain file status from “information” column of error report.  
Probable Cause:
  - The batch job stream has not been set up correctly to access this file.
  - The file was not allocated correctly.
  - Another program has the file opened and the file was allocated so that it cannot be shared.
- 0657**      **Message:**      **Unable to read the transaction header file.**  
Explanation:      The mapping program was unable to find the transaction definition that was pointed to by the application link file.  
Corrective Action:      Obtain file status from “information” column of error report.  
Probable Cause:
  - The transaction header and application link files are out of sync. This can be caused if applications or transactions are moved from one set of files to another without using the Sterling Gentran:Server supplied utilities.
  - The batch stream is not referencing the correct application link or transaction header file. Determine the cause of the problem and rerun the job.
- 0658**      **Message:**      **Unable to find a transaction segment for transaction definition.**  
Explanation:      The mapper was unable to find any segment defined for the transaction.  
Corrective Action:      If no fields have been set up for the transaction, then define them. If they have been defined, then determine whether the correct transaction has been specified in the batch job stream. If it has, contact Sterling Gentran:Server Product Support.

- 0659**      **Message:**      **Unable to find the next transaction segment.**  
Explanation:      The mapping program was unable to read the next record in the transaction segment file.  
Corrective Action:      Obtain file status from “information” column of error report.  
Probable Cause:
  - Operating system record pointers have been corrupted.
  - Online buffers have not been “flushed” so batch access to the file is unpredictable. Rebuild the transaction segment file. If this does not correct the problem, contact Sterling Gentran:Server Product Support.
- 0660**      **Message:**      **Transaction segment definition table is full – call support.**  
Explanation:      More than 500 segments have been defined to this transaction.  
Corrective Action:      Decrease the number of segments defined to the transaction (if possible). If more than 500 segments are needed, contact Sterling Gentran:Server Support.
- 0661**      **Message:**      **Transaction element definition table is full.**  
Explanation:      More than 5000 elements have been defined to this transaction.  
Corrective Action:      Decrease the number of elements defined to the transaction (if possible). If more than 5000 elements are needed, contact Sterling Gentran:Server Support.
- 0662**      **Message:**      **Unable to find a transaction element for transaction segment.**  
Explanation:      The mapper was unable to find any elements defined for the transaction segment.  
Corrective Action:      This can be caused by referencing the wrong transaction segment file or transaction element file in the batch job stream. This can also be caused by copying or deleting transaction maps using utilities not supplied by Sterling Gentran:Server.
- 0663**      **Message:**      **Unable to find the next transaction element.**  
Explanation:      The mapping program was unable to read the next record in the transaction segment file.  
Corrective Action:      Obtain file status from “information” column of error report.  
Probable Cause:
  - Operating system record pointers have been corrupted.
  - Online buffers have not been “flushed” so batch access to the file is unpredictable. Rebuild the transaction segment file. If this does not correct the problem, contact Sterling Gentran:Server Product Support.
- 0664**      **Message:**      **Transaction element reference table is full.**  
Explanation:      More than 1000 element references (translation tables, accumulator references etc.) have been defined to this transaction.  
Corrective Action:      Decrease the number of element references defined to the transaction (if possible). If more than 1000 element references are needed, contact Sterling Gentran:Server Support.

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- 0665 Message: Transaction element arithmetic table is full.**  
Explanation: More than 1000 arithmetic calculations have been defined to this transaction.  
Corrective Action: Decrease the number of arithmetic calculations defined to the transaction (if possible). If more than 1000 arithmetic calculations are needed, contact Sterling Gentran:Server Support.
- 0666 Message: Referenced application record definition cannot be found.**  
Explanation: The mapper was unable to find the application record referenced by an element map. This error is a result of deleting or assigning a new record/field sequence number to the referenced field.  
Corrective Action: The line immediately following the error message indicates the record sequence number that the mapper is unable to locate. This record has either been moved or deleted from the application, but the transaction map has not been updated and the mapper will continue to look for the application record in the old location. Run the MAPSYNCH (Mapping Synchronization) command, Option 32 in the Transaction Mapping subsystem.
- 0667 Message: Referenced application field definition cannot be found.**  
Explanation: The mapper was unable to find the application field referenced by an element map. This error is a result of deleting or assigning a new record/field sequence number to the referenced field.  
Corrective Action: The line immediately following the error message indicates the record sequence and the field sequence numbers that the mapper is unable to locate. This record/field has either been moved or deleted from the application, but the transaction map has not been updated and the mapper will continue to look for the application record/field in the old location. Run the MAPSYNCH (Mapping Synchronization) command, Option 32 in the Transaction Mapping subsystem.
- 0668 Message: Transaction element condition table is full.**  
Explanation: More than 10,000 conditional expressions have been defined to this transaction.  
Corrective Action: Decrease the number of conditional expressions defined to the transaction (if possible). If more than 10,000 conditional expressions are needed, contact Sterling Gentran:Server Support.
- 0669 Message: Transaction loop table is full.**  
Explanation: More than 50 loops have been defined to this transaction.  
Corrective Action: Decrease the number of loops defined to the transaction (if possible). If more than 1000 conditional expressions are needed, contact Sterling Gentran:Server Support.

- 0670**      **Message:**      **Unable to open the partner cross reference file.**  
Explanation:      The mapping program was unable to open the Partner Cross Reference file.  
Corrective Action:      Obtain file status from “information” column of error report.  
Probable Cause:
  - The batch job stream has not been set up correctly to access this file.
  - The file was not allocated correctly.
  - Another program has the file opened and the file was allocated so that it cannot be shared.
- 0671**      **Message:**      **More than 5 CNTL records to be passed through for this document.**  
Explanation:      CNTL record pass-through was specified in the parameters and more than five CNTL records were associated with this document.  
Corrective Action:      Correct the application so that the CNTL records are placed correctly in the application file. At most there should be 3 CNTL records preceding each application document.
- 0672**      **Message:**      **Application loop defined that is not in transaction.**  
Explanation:      A loop ID has been defined for the application and has not been defined for the transaction map.  
Corrective Action:      Examine all defined application loop IDs to insure that none exist that are not defined in the transaction. Keep in mind that ID “0100” is not the same as “100” and that ID “0100” in the header is not the same as “0100” in the detail section.
- 0673**      **Message:**      **Transaction loop defined that is not in application.**  
Explanation:      A Loop ID has been defined for the transaction map, but has not been defined for the application.  
Corrective Action:      Verify that the loop ID in the transaction map matches exactly with the loop ID in the application. Both loop IDs must be in the same area of the document and both IDs must be left-justified. Keep in mind that ID “0100” is not the same as “100” and that ID “0100” in the header is not the same as “0100” in the detail section.
- 0674**      **Message:**      **Referenced transaction segment cannot be found.**  
Explanation:      An EDI element reference (e.g., N1/10/800) points to a segment sequence number that no longer exists in the map.  
Corrective Action:      Examine the mapping error report to determine the segment sequence number that is in error. Update all mapping references to that segment sequence number.

- 0675**      **Message:**      **Referenced transaction element cannot be found.**  
Explanation:      An EDI element reference (e.g. N1/10/800) points to a segment/element sequence number that no longer exists in the map.  
  
Corrective Action:      Examine the mapping error report to determine the segment/element sequence number that is in error. Update all mapping references to the segment/element sequence number.
- 0676**      **Message:**      **EDI input file is empty.**  
Explanation:      No data is contained in the specified EDI input file.  
  
Corrective Action:      For inbound processing, check the split file that is read by the mapper. Verify the split file is where the data really exists. If the data was put in the wrong split file, check the data separation records on the Partner file for the receiving company. For inbound and outbound processing, this error will occur whenever input is suspended. If an error that causes all data to be suspended occurs, the 676 error may have been a result of that problem. Resolve the error causing the data suspension and the 676 error will probably also be resolved.
- 0677**      **Message:**      **Invalid input field type – moved zero to target field.**  
Explanation:      The input field identified in the record/field or segment/ element section of the error message is not defined with a correct data type (EDI or application).  
  
Corrective Action:      This is an internal processing error that should be prevented by the online edits. Contact Sterling Gentran:Server Product Support.
- 0678**      **Message:**      **Invalid output field – moved zero to target field.**  
Explanation:      The output field identified in the record/field or segment/ element section of the error message is not defined with a correct data type (EDI or application).  
  
Corrective Action:      This is an internal processing error that should be prevented by the online edits. Contact Sterling Gentran:Server Product Support.
- 0679**      **Message:**      **Invalid numeric data in input field – moved zero to target field.**  
Explanation:      The input field identified in the record/field or segment/element section of the report contains data that does not conform to the data type assigned to the field/element.  
  
Corrective Action:      Determine the data in error and correct the data or modify the assigned data type.
- 0680**      **Message:**      **Invalid output field type – moved space to target field.**  
Explanation:      The output field identified in the record/field or segment/ element section of the error message is not defined with a correct data type (EDI or application).  
  
Corrective Action:      This is an internal processing error that should be prevented by the online edits. Contact Sterling Gentran:Server Product Support.

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<b>0681</b>	<b>Message:</b>	<b>Invalid “date” data in input field – moved space to target field.</b>
	Explanation:	The input field identified in the record/field or segment/ element section of the report contains data that does not conform to the “date” data type assigned to the field/element.
	Corrective Action:	Determine the data in error and correct the data or modify the assigned data type.
<b>0682</b>	<b>Message:</b>	<b>Invalid input field type – moved zero to target field.</b>
	Explanation:	The input field identified in the record/field or segment/element section of the error message is not defined with a correct data type (EDI or application).
	Corrective Action:	This is an internal processing error that should be prevented by the online edits. Contact Sterling Gentran:Server Product Support.
<b>0683</b>	<b>Message:</b>	<b>Invalid numeric data in input field – moved zero to target field.</b>
	Explanation:	The input field identified in the record/field or segment/element section of the report contains data that does not conform to the data type assigned to the field/element.
	Corrective Action:	Determine the data in error and correct the data or modify the assigned data type.
<b>0684</b>	<b>Message:</b>	<b>Unable to open the application output file.</b>
	Explanation:	The mapping program was unable to open the application output file.
	Corrective Action:	Obtain file status from “information” column of error report.
	Probable Cause:	<ul style="list-style-type: none"><li>■ The batch job stream has not been set up correctly to access this file.</li><li>■ The file was not allocated as defined on the application data ID screen.</li></ul>
<b>0685</b>	<b>Message:</b>	<b>Unable to open the EDI input file.</b>
	Explanation:	The mapping program was unable to open the EDI input/output file member.
	Corrective Action:	Obtain file status from “information” column of error report.  For inbound processing, check the split file that is read by the mapper. The file to be read is identified on the application definition header record. If the correct split file is specified, verify EDI data was written to that split file. See corrective action for message 676 as well.
	Probable Cause:	<ul style="list-style-type: none"><li>■ The mapper is processing with concurrent unique members for the EDI file and the member may not have been added. For inbound processing this means no data was written to the split file being read as input during this same processing run.</li><li>■ The batch job stream has not been set up correctly to access this file.</li><li>■ The wrong EDI file is being processed as input. The mapper requires the output of the inbound editor or splitter as input.</li></ul>

- 0686**      **Message:**      **Unable to write to application output file.**  
Explanation:      The mapping program was unable to write to the application output file.  
Corrective Action:      Obtain file status from “information” column of error report.  
Probable Cause:
  - The file is out of space.
  - A system level I/O error has occurred.
  - A duplicate key on the application file.
- 0687**      **Message:**      **Segment received not defined to transaction mapping.**  
Explanation:      An EDI segment has been received by the mapper that has not been defined for this transaction map.  
Corrective Action:      This message displays whenever the system receives input segments that are not mapped to your application. In order to suppress the message, copy the EDI segment into the transaction map from the standards. There is no need to actually map from the segment.
- 0688**      **Message:**      **Input buffer is full.**  
Explanation:      The 800K input buffer has been filled. This error is caused by reading in more than 800K bytes of data in either the header section of the document or in an individual line item.  
Corrective Action:      Determine which section of the document is causing the problem. Attempt to restructure the map by using sectioning in the mapping module. If this is not possible, contact Sterling Gentran:Server Product Support. (SEE the topic “Sectioning” in Chapter 6, “Transaction Mapping,” of the *IBM® Sterling Gentran:Server® for iSeries® Release 3.6 User Guide* for additional information.)
- 0689**      **Message:**      **Processing halted for this application. Error found in element file. Update the extended map.**  
Explanation:      The Mapper (EBDI041) discovered an error in the element file for the specified element.  
Corrective Action:      Correct the map by going to the EDIX513-FMT01 (Extended Inbound Mapping) panel for the referenced segment/element, and press F10 (Update) to update the map. Run the Check Map ‘CHKMAP’ command to get a report listing of any internal file errors that need to be updated. This will correct any invalid entries in the element file.




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### CAUTION

**If there are alternate extended maps for the referenced element, all alternate maps must be updated.**

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- 0690**      **Message:**      **User exit cannot be found. Correct map or add to library list.**  
Explanation:      A user exit program is defined in the map, but the mapper was unable to execute the user exit program.  
Corrective Action:      Verify the user exit program specified in the error message is a valid program name. If it is a valid user exit program, add the library containing the user exit to the job's library list. If it is not a valid user exit, correct the map by updating the referenced segment/element.
- 0691**      **Message:**      **Invalid "Time" data in input field – moved spaces to target field.**  
Explanation:      The input field identified in the record/field or segment/element section of the report contains data that does not conform to the "time" data type assigned to the field/element.  
Corrective Action:      Determine the data in error and correct the data, or modify the assigned data type.
- 0692**      **Message:**      **Invalid numeric data returned from user exit. Calculation value initialized and data mapped.**  
Explanation:      The Mapper (EBDI042) discovered invalid numeric data was returned from a user exit. The value used in calculations will be zeroed and the data will be mapped.  
Corrective Action:      Examine the user exit to determine why invalid data is being placed in the value.
-  **NOTE** \_\_\_\_\_  
There is one known instance that is not captured in the Mapper. If a value with two decimal places is returned from the user exit, the digits to the left of the second decimal place will be used for the calculation value, instead of initializing the invalid data to zero.
- 
- 0693**      **Message:**      **Empty or partial interchange envelope detected. Batch rejected.**  
Explanation:      There are no groups, transactions, or segments inside the interchange; therefore, the batch is rejected internally.  
Corrective Action:      The batch number is printed with the warning message. No action is required; however, the reasons for the empty interchange should be investigated and corrected. This error generally occurs when the functional group is suspended.
- 0706**      **Message:**      **Missing indicated mandatory group element. Group designator indicated.**  
Explanation:      An element that is defined as a mandatory group element for this segment has been omitted in the data. Group designation associated to group element is indicated.  
Corrective Action:      Contact the data origination to assure that the required mandatory group element is supplied with the segment.



- 0840**      **Message:**      **Length in BIN01/BDS02 does not equal data length found in BIN02/BDS03.**
- Explanation:      When processing the binary segments, binary data (BIN02/BDS03) is written to a separate file until the length indicated in BIN01/BDS02 is reached. If the next character that occurs after the length is reached is not a segment terminator, the job is aborted.
- Corrective Action:      Correct the size of the binary data to match the length in BIN01/BDS02 and vice versa.
- 
- 0841**      **Message:**      **Binary data length <mapped data length. Truncation occurred.**
- Explanation:      The data to be mapped in the BIN02/BDS03 element was larger than the length specified in the BIN01/BDS02 element. The data will be truncated to the length specified in the BIN01/BDS02.
- Corrective Action:      Correct the length in the BIN01/BDS02 so that it equals the number of bytes found in the BIN02/BDS03.
- 
- 0842**      **Message:**      **Binary data length > mapped data length.**
- Explanation:      The data to be mapped in the BIN02/BDS03 element was smaller than the length specified in the BIN01/BDS02 element.
- Corrective Action:      Correct the length in the BIN01/BDS02 so that it equals the number of bytes found in the BIN02/BDS03.
- 
- 0843**      **Message:**      **Incomplete binary data file location. Need library, file, mbr (can map '\*FIRST' or '\*LAST' for mbr) for 30 bytes.**
- Explanation:      The location of the binary data file was not complete. The binary data will not be inserted into the EDI data.
- Corrective Action:      Correctly map the location of the binary data file. The library, file, and member name must be specified. \*FIRST and \*LAST are valid values for the member name.
- In order to accomplish this, you must sub-field the BIN02/BDS03 into 4 separate fields of 10 bytes each. In the first field, the literal 'BINARY LOC' must be mapped. The next 3 fields contain the library, file name, and member name respectively, identifying where the binary data resides.
- 
- 0844**      **Message:**      **Error opening binary data file.**
- Explanation:      The binary data file that was specified in the map was not found or could not be opened.
- Corrective Action:      Verify the location of the binary data file is correct and verify the outbound function has authority to the file.

- 0845**      **Message:**      **Missing segment terminator at end of binary string.**  
Explanation:      The character found in the last position of the binary data string was not the segment terminator. This was determined by using the length found in the BIN01/BDS02.  
  
Corrective Action:      Verify the length found in the BIN01/BDS02 is the correct length of the binary data.
- 0847**      **Message:**      **Error reading binary data file.**  
Explanation:      The first record of the binary data file could not be read. Either the file was empty or the wrong file was specified.  
  
Corrective Action:      Verify the correct location of the binary file was provided and that the specified file has data in it.
- 0848**      **Message:**      **Object not found for LIB/FILE/MBR specified for binary data file. Cannot perform override to binary file open.**  
Explanation:      The binary data file specified could not be found.  
  
Corrective Action:      Verify the correct location of the binary file was provided and the outbound process has authority to this file.
- 0859**      **Message:**      **UCI segment cannot be generated as requested – tables do not contain UCI segment definition.**  
Explanation:      The input parameters have requested that acknowledgments requiring the UCI segment be generated. This is not possible in this case because the UCI segment definitions are not in the control tables as required.  
  
Corrective Action:      Examine the control tables and include all segments for the CONTRL functional acknowledgment transaction as needed.
- 0860**      **Message:**      **UCF segment cannot be generated as requested – tables do not contain UCF segment definition.**  
Explanation:      The input parameters have requested that acknowledgments requiring the UCF segment be generated. This is not possible in this case because the UCF segment definitions are not in the control tables as required.  
  
Corrective Action:      Examine the control tables and include all segments for the CONTRL functional acknowledgment transaction as needed.
- 0861**      **Message:**      **UCM segment cannot be generated as requested – tables do not contain UCM segment definition.**  
Explanation:      The input parameters have requested that acknowledgments requiring the UCM segment be generated. This is not possible in this case because the UCM segment definitions are not in the control tables as required.  
  
Corrective Action:      Examine the control tables and include all segments for the CONTRL functional acknowledgment transaction as needed.

## System Messages

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- 0862**      **Message:**      **UCS segment cannot be generated as requested – tables do not contain UCS segment definition.**
- Explanation:      The input parameters have requested that acknowledgments requiring the UCS segment be generated. This is not possible in this case because the UCS segment definitions are not in the control tables as required.
- Corrective Action:      Examine the control tables and include all segments for the CONTRL functional acknowledgment transaction as needed.
- 
- 0863**      **Message:**      **UCD segment cannot be generated as requested – tables do not contain UCD segment definition.**
- Explanation:      The input parameters have requested that acknowledgments requiring the UCD segment be generated. This is not possible in this case because the UCD segment definitions are not in the control tables as required.
- Corrective Action:      Examine the control tables and include all segments for the CONTRL functional acknowledgment transaction as needed.
- 
- 0864**      **Message:**      **Cannot generate CONTRL. Tables are missing segment element definitions for the version in use.**
- Explanation:      No segment definitions were found for the EDIFACT CONTRL transaction definition in the indicated version tables.
- Corrective Action:      Examine the tables for the indicated version. Report any errors to Sterling Gentran:Server Product Support.



# 17 Tips and Techniques

## In this chapter

This chapter provides an explanation of significant changes in Sterling Gentran:Server following the 3.0 Release. As new product enhancements are added, they will also be documented in this section. The following topics are covered:

- Process with the ‘BIN’ segment . . . . . 17-1
  - Overview . . . . . 17-1
  - Outbound processing . . . . . 17-3
  - Inbound processing. . . . . 17-8
- Set mapping report options . . . . . 17-11

## Process with the ‘BIN’ segment

### Overview

The **BIN** segment is an ASC X12 segment used to transfer binary data in a single data segment. This segment contains two elements

- A length of binary data  
This element is numeric and has a minimum of 1 and a maximum of 15.
- The binary data stream  
There is no identification of the internal structure of the binary data. This binary data stream can have up to 799,997,000 bytes.

 **NOTE**

For version 004030, the BIN segment can be found in transactions 105, 176, 186, 187, 197, 240, 252, 255, 267, 268, 275, 280, 841, and 842.

The **BDS** segment is an ASC X12 segment used in the Associated Data Transaction Set (102). This transaction set may be used to convey associated data. Associated data is defined as an object, a set of functionally related information not using the usual transaction set structure in segments.

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Objects may include, but are not limited to graphic, text, parametric, tabular, image, spectral, or audio data. This transaction set may be included in any functional group within an interchange.

The BDS segment contains three elements.

- a Filter ID code  
This element is a three-byte coded field that specifies the encoding algorithm, if any.
- a length of the binary data  
This element has a minimum of 1 and a maximum of 15.
- the binary data stream.  
This element can have up to 799,997,000 bytes.

For both segments, it is crucial to have an accurate length in the BIN01/BDS02 element. When dealing with these segments, there are often characters embedded in the binary data that are the same as the segment terminator for the document. In order to process successfully, we need to use the length in the BIN01/BDS02 elements to determine where the end of the binary data falls. If the length is not accurate the programs will try to process what is recoverable, but many times will have to abort.

**CAUTION**

---

When transmitting and receiving data that contains binary data, it must remain in EBCDIC format. It is not possible to translate the data back and forth between ASCII and EBCDIC because the binary data cannot be translated.

---

---

## Outbound processing

Binary data can be provided to the Sterling Gentran:Server in two ways:

- as a regular application field  
If the binary length is 264 or less, then the binary data can be located in the same file as the rest of the application data, and processed as a regular application field.
- as an external file  
If the length is longer than 264, the binary data must be located in a separate file.

### Mapping binary from a regular application field

In this scenario, normal mapping takes place. The user has mapped the binary application field to the BIN02/BDS03. If the length is greater than 80 characters, the BIN02/BDS03 needs to be sub-fielded and the binary application field needs to be broken down accordingly. Then map each of these sub-fields.

It is extremely crucial that the length mapped in the BIN01/BDS02 represents the actual number of characters in the binary file. If the length is not accurate, you will get undesirable results.



---

**NOTE**

The outbound processing flow in this situation is not altered. The typical flow of data from the mapper into the editor will take place.

---

### Mapping binary data from an external file

When you map binary data from an external file, sub-field the BIN02/BDS03 into four separate fields of 10 bytes each.

- You must map the literal 'BINARY LOC' in the first field.
- Map the library, file name, and member name respectively in the next three fields, identifying where the binary data resides.



---

**NOTE**

The member name field must be listed, and can contain values of \*FIRST, \*LAST, or a specific member name.

---

The following examples illustrate the required mapping.

```

EDIX507                               Subfield                               EDI 04/30/11
CTL01                                  12:00:00

Transaction ID . . . . . BINARYOUT   Segment ID . . . . . BIN
Send or Receive. . . . . S           Element ID . . . . . 0785
Segment Sequence . . . . . 2500      Element Type . . . . . B
Element Sequence . . . . . 20        Minimum Length . . . . 1
Mandatory Code . . . . . M           Maximum Length . . . . 264
Segment Description. . . . . BINARY DATA
Element Description. . . . . BINARY DATA

Type option, press Enter.
4=Delete

Opt  Seq Positions M Type Description
    No  From  To C
---  --  --  --  --  -----
    22  1    10 O AN  binary label
    24  11   20 O AN  bin library
    26  21   30 O AN  bin file
    28  31   40 O AN  bin member
    ---  ---  ---  ---  ---  -----

More...

F1=Help  F4=Prompt  F5=Refresh  F10=Update  F12=Cancel
    
```

```

EDIX511                               Element Mapping Outbound                               04/30/11
Tran ID. . . . . BINARYOUT   S/R. . . . . S
Seg ID . . . . . BIN BINARY DATA
Seg Seq. . . . . 2500        Area Code. . . . . 1
Type option, press Enter.
1=Appl Fields  11=Ext Map  12=Subfield  13=Codes

Mapping                               Ele Sub X M T                               Ele  Ele C
Opt Constant/Field Table ID No. Ele M C P Description                               Seq  ID R
---  -----
    F020.BINLEN          1      Y M N0 LENGTH OF BINARY DATA                               10  784
    'BINARY LOC'        2      Y O AN binary label                               20  785
    F020.BINLIB          2      Y O AN bin library                               22
    F020.BINFIL          2      Y O AN bin file                                24
    F020.BINMBR          2      Y O AN bin member                               26
    F020.BINMBR          2      Y O AN bin member                               28

Bottom

F1=Help  F4=Prompt  F10=Update  F12=Cancel  F13=Services  F24=More Keys
    
```

Figure 17.1 Map Binary Data from an External File

It is extremely crucial that the length mapped in the BIN01/BDS02 represents the actual number of characters in the binary file. If the length is not accurate, you will get undesirable results.



The 'BINARY LOC' literal is a keyword that triggers the mapper to perform special binary processing.

1. This process generates the BIN/BDS segment containing the filter code (if it is the BDS segment), the length, and the binary data element.

**NOTE**

The binary data element contains the values of the sub-fields.

2. Following the BIN segment, the mapper writes an additional record prefixed with ###BIN.
3. This record provides the following detailed information as a tracking mechanism:
  - library
  - filename
  - member name of the binary data location
  - binary data length
  - interchange partner id/qual
  - group partner id/qual
  - application and map name
  - version
  - functional group
  - transaction set
  - interchange, group, and transaction control numbers.
4. The mapper produces four error messages when specific situations occur. These error messages are listed in the following table:

Error	Problem	Result
841	The length found in the BIN01/BDS02 is less than the binary data to be mapped.	This is a 4-level error, causing the binary data to be truncated to the length specified in the BIN01/BDS02.
842	The length found in the BIN01/BDS02 is greater than the binary data to be mapped.	This is a 4-level error, causing the BIN02/BDS03 to be padded with spaces to match the length in the BIN01/BDS02.
843	Incomplete binary data file location. Need library, file, and member name (can map *FIRST or *LAST for member name).	This is an 8-level error, causing the BIN/BDS segment to be dropped.
846	The length found in the BIN01/BDS02 is greater than 264 and 'BINARY LOC' was not specified to be mapped in the BIN/BDS segment to be dropped.	This is an 8-level error, causing the BIN/BDS segment to be dropped.

Once the mapper has completed the process and a new ###BIN record was generated, the outbound flow performs a new function.

1. A new program, EBDI040, executes and replaces any ###BIN records with the binary data held in the file specified during the process.
2. Using the length mapped in the BIN01/BDS02, the program moves the appropriate bytes of data into the BIN02/BDS03 from the specified file.
3. This creates a new intermediate file, GT42OAP, which contains the ###BIN record and performs as the input to EBDI040.
4. Another intermediate file, GT881AP, serves as the output file from EBDI040 and contains the actual binary data stream that will be used as input to the Editor.
5. The EBDI040 program can produce five error messages if the following instances occur:

Error	Problem	Result
841	The length of binary element is less than actual binary data.	The binary data will be truncated to match the binary length stated in the BIN01/BDS02 element.
842	The length of binary data is greater than the actual binary data.	The BIN02/BDS03 will be padded with spaces to match the binary length.
844	Error opening the binary data file.	There will be a BIN/BDS segment written with no elements.
847	Binary data file was empty.	There will be a BIN/BDS segment written with no elements.
848	Object not found for LIB/FILE/MBR specified for binary data file.	There will be a BIN/BDS segment written with no elements.

 **NOTE**

In each of the error situations above, a BIN/BDS segment is produced, but there will be no data in the elements.

The Editor will not perform a length validation based upon the standard. It will use the length recorded in the BIN01/BDS02 element to verify the number of bytes in the BIN02/BDS03. If there is a variance in the size specified and the actual bytes of binary data present, an 845 error message will be generated, and the outbound process will terminate with a 16 return code.

## Inbound processing

In order to accurately handle the BIN/BDS segment, special processing needs to occur. The total number of bytes transferred in BIN02/BS03 can be extremely large and would be very cumbersome if it were required to be mapped. In many cases this data needs to be extracted from the transaction and placed in an external file in preparation for some other function. This new process allows the binary data stream to be extracted directly into a physical file.

### Before you begin

Before you process the inbound BIN/BDS segment, perform the following setup procedures:

- Set the system configuration flag that controls the placement of the binary data stream
- Specify a library where the external binary data files will reside.

### Set the system configuration flag

The system configuration flag controls the placement of the binary data stream if the total number of bytes is 264 or less. To set this configuration flag, select option 6 (Set Binary Mapping Option) from the GENSYSCFG menu, or prompt the SETBINMAP command. This command has one prompt.

```

                                Set Binary Mapping Option (SETBINMAP)

Type choices, press Enter.

Binary Mapping Option . . . . . > *YES          *YES, *NO

                                                                    Bottom
F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display
F24=More keys

```

Figure 17.2 Set Binary Mapping Option (SETBINMAP) panel

When this option is set to \*NO, regular application mapping occurs for the binary data, providing the total number of bytes in the BIN02/BDS03 is 264 or less. If the length of the binary string is greater than 264, the binary data string cannot be mapped to an application file. Instead it will be placed in a physical file.

When this option is set to \*YES, the binary data string will always be placed in a physical file, regardless of the length. The default for this system flag is \*YES.

## Set Binary Mapping Library

To specify the library where the external binary data files will reside, select option 5 (Set Binary Mapping Library) from the GENSYSCFG menu, or prompt the SETBINLIB command. This command has one prompt.

```

                Set Binary Data Library (SETBINLIB)

Type choices, press Enter.

Binary Library Name . . . . . > GENBINLTA      Character value

                                                    Bottom
F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display
F24=More keys

```

Figure 17.3 Set Binary Data Library (SETBINLIB) panel

Enter a library name of an existing library where the binary data files should reside. The library name you enter is stored in the data area GENBINLIB that resides in the Sterling Gentran program library.

### NOTE

If you omit this step and leave the library configuration blank, your Sterling Gentran data library will be used.

## Mapping binary data into a regular application field

In this scenario, normal application mapping takes place providing the following requirements are met:

- the binary data stream is 264 bytes or less
- the system configuration flag for the binary mapping option is set to \*NO.

Map the binary data stream into an application field from the BIN02/BDS03. If the length is greater than 80 characters, you will need to sub-field the BIN02/BDS03, and break down the binary application field accordingly. Then map each of the sub-fields.

---

## Mapping the binary data stream into an external file

In this scenario, the user will place the binary data stream into an external file providing one of the following requirements are met:

- the binary data stream is greater than 264 bytes and the binary mapping option is set to \*NO.
- the binary mapping option is set to \*YES. (The binary data length has no bearing on the placement of this data.)

When the inbound Editor encounters a BIN/BDS segment, it calls up a new program that writes the data to an external file.

1. This program retrieves the library to store the binary data (value stored in GENBINLIB), and creates a unique file in this library at 512 bytes in length. The file name is GT9999999, where 9999999 represents a sequential number.
2. The number, which is stored in a data area called GENBINSEQ, resides in the Sterling Gentran data library.
3. Once the program writes the binary file, the editor replaces the binary data stream with the literal 'BINARY' followed by 10 bytes for the library name, 10 bytes for the file name, and 10 bytes for the member name where the binary data stream was written.
4. The program also writes a record to a new file, EDI bin master control file (EDIBIN). The following information is stored in the EDIBIN file:
  - Partner/qual
  - interchange, group, and transaction control numbers
  - message center sequence number
  - communications profile where original data resides
  - batch sequence number segment terminator
  - library/filename where the binary data is written
  - line number and position where the binary data starts in the inbound data (INBDTA) file
  - date/time stamp indicating when it was written.

This file contains all of the necessary information for customers to locate where their binary data is stored.

# Set mapping report options

## Overview

Previously, there were no methods available to turn off unnecessary mapping reports. Users can bypass the Editor reports by setting the Global Parameters, Error Report and Detail Report to 'N'. To assist our customers in processing, Sterling Gentran:Server now provides the capability to turn off mapping reports when there are no generated errors.

The major benefit of this enhancement is to enable users to only produce mapping reports when errors exist. This will drastically reduce the number of spooled files for job runs, and assist the user in error determination.

## Set the Mapping Print flag

Provided there were no errors during the mapping run, you can bypass the Mapping Reports by setting a Mapping Print flag. This flag is stored in field SCFLG04 in the SYSCFG file. Update this field by selecting option 7 from the GENSYSCFG menu.

```

GENSYSCFG          Sterling Gentran:Server System Configuration 3.6
                                                            System:   ISDDEV01

Select one of the following:

    1. Set Sterling Gentran Break Year           (SETGENYR)
    2. Set Gentran Date Format for Commands     (SETGENFMT)
    3. Set Extended Map More/Less Option      (SETEXTMAP)
    4. Set Network Report Archive Flag        (SETNETARC)
    5. Set Binary Data Library                (SETBINLIB)
    6. Set Binary Mapping Option              (SETBINMAP)
    7. Set Mapper Reports Option              (SETMAPRPT)
    8. Set User Exit Detail Option            (SETUSREXT)

    10. Set Partner Sort Option                (SETPARSRT)
    11. Set Application Definition Sort Option (SETAPPSRT)
    12. Set Transaction Mapping Sort Option   (SETTRNSRT)
    13. Set Audit Interchange Sort Option     (SETAUDISRT)
    14. Set Audit Group Sort Option          (SETAUDGSRT)

                                                    More...

Selection or command
====> 7
-----
F3=Exit   F4=Prompt   F9=Retrieve   F12=Cancel   F13=User Support
  
```

Figure 17.4 Sterling Gentran:Server System Configuration menu

You can also update this field by typing SETMAPRPT on a command line, then pressing **F4**.

```

Set Mapper Reports Option (SETMAPRPT)

Type choices, press Enter.

Mapper Reports Option . . . . . *YES      *YES, *NO

                                           Bottom
F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display
F24=More keys

```

Figure 17.5 Set Mapper Reports Option (SETMAPRPT) panel

Select ‘\*YES’ on the SETMAPRPT command to generate a mapping report, regardless of whether or not errors were produced. The default for this option is ‘\*YES’. Set this field to ‘\*NO’ to bypass the mapping report.



**NOTE**

The SETMAPRPT field (SCFLG04) is used in conjunction with the Mapper Debug Report parameter on the PRCTRIN and PRCTRNOU commands. The Mapper Debug Report parameter must also be set to ‘\*NO’ to bypass the mapping reports.



# Set Lead 0 option

## Overview

Previously, there was no method, other than a user exit, to omit the insignificant leading zero on a real type number less than 1. To assist our customers in processing, Sterling Gentran:Server now provides the capability for you to determine whether or not to include the insignificant zero. This is based on the system configuration flag and the minimum size of the real type digit defined by the standards. The digit must always meet the minimum length, so in some instances the zero will still be required to meet the standards, and the system configuration flag will be ignored.

## Set the Lead 0 option

Provided the digit meets the minimum requirement of the standard, the Set Lead Zero flag is evaluated to determine if the insignificant zero is to be removed from a real digit with a value less than 1. This flag is stored in field SCFLG07 in the SYSCFG file. Update this field by selecting option 41 from the GENSYSCFG menu.

```

GENSYSCFG          Sterling Gentran:Server System Configuration 3.6
                                                            System:   ISDDEV01

Select one of the following:

    15. Set Inbound Queue Sort Option          (SETINBQSRT)
    16. Set Outbound Queue Sort Option        (SETOUTQSRT)
    17. Set Comm History Log Sort Option      (SETCOMHSRT)
    18. Set Job Scheduler Sort Option         (SETJOBSRT)
    19. Set Message Center Sort Option        (SETMSGSRT)
    20. Set Batch Error Msg Sort Option       (SETERRSRT)

    30. Set Auto Notification Sort Option      (SETAUTOSRT)

    40. Set 571 Error Detail Option           (SET571ERR)
    41. Set Lead Zero Option                  (SETLEAD0)

    90. Sign off

                                                    Bottom

Selection or command
===>

F3=Exit   F4=Prompt   F9=Retrieve   F12=Cancel   F13=User Support

```

Figure 17.6 Sterling Gentran:Server System Configuration menu

```
                Set Lead 0 for Decimal Option (SETLEAD0)

Type choices, press Enter.

Set Lead Zero Option . . . . . > *YES          *YES, *NO

                                                                 Bottom
F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display
F24=Morekeys
```

Enter a value of \*YES if you want an insignificant zero to be placed in your data for an 'R' type digit that is less than 1. (For example, **.25** would be represented as **0.25**.) Enter a value of \*NO if you do *not* want the insignificant zero to be placed in front of 'R' type digits that are less than 1.

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# Glossary

## Definition of Terms

### Acknowledgment

An acknowledgment is a special Transaction set (997, 999, or CONTRL) that is transmitted to the original sender to indicate the status of the transmission with respect to standards adherence. It does not imply acceptance of the contents of the associated Transaction sets.

Acknowledgments are also known as Functional Acknowledgments (the 997 Transaction set), Accept/Reject Advices (the 999 Transaction set), and Syntax and Service Report Messages (the CONTRL message).

Sterling Gentran:Server differentiates between inbound acknowledgments (those from your Trading Partner), and outbound acknowledgments (those to go to your Trading Partner). Sterling Gentran:Server also deals with “expected acknowledgments” that should be satisfied by inbound acknowledgments.

### Acknowledgment Reconciliation

The primary purpose for using the Audit file is to verify the documents you sent have been received by your Trading Partner. The Functional Acknowledgment is sent by your Partner to indicate it had been received and if there were any compliance errors. When you receive the Acknowledgment, it must be processed INBOUND (PRCTRININ). The acknowledgments do not have to be mapped, though. The reconciliation is performed by the Inbound Editor by posting a status flag on the original EDI document sent and the date of the acknowledgment.

### Addressing Methods

Addressing methods are means of identifying the sender and intended receiver of incoming EDI messages. The support by Sterling Gentran:Server of several addressing methods allow you to configure the system to your current technique or your industry preferences.

### Application

An in-house program designed to process specific jobs. This program is formatted by the customer for their business needs. (Example, payroll.)

### Application Definition

The definition of the application interface file used during the mapping process.

### Application File

A file, or set of files, containing application data destined to be sent out through EDI to specific Trading Partners or that has been received through EDI and translated to the application format from specific Trading Partners.

---

## Application File Types

There are three “application file types” that can be used with Sterling Gentran: multiple externally described physical files (created using DDS), one externally described multi-format logical file (created using DDS), or one internally described physical file (flat file created using record length instead of DDS).

- An external file to Sterling Gentran is a file created using DDS.
- An internal file to Sterling Gentran is a “flat file” that contains multiple record types and is typically defined within each program that it is used in. It has a field that contains the record format in each record of the file.
- A logical file to be used in Sterling Gentran must be a multi-format logical file. Logical files are typically used for outbound documents. By using logical files for outbound documents, you can select specific records based on some indicator field in the file if only certain records are to be processed through EDI. Only one logical file can be defined to an application definition.
- A physical file is a file that has been created external to Sterling Gentran using DDS. Multiple physical files can be used within an application definition. An example application definition might have four physical files: a header file, a comments file, a detail file, and a summary file. Another application may only contain a header file and a detail file. For outbound applications, physical files must be keyed or your fields need to be identified to Sterling Gentran as the fields that should be used by Sterling Gentran for key fields for the logical file that Sterling Gentran builds over your physical files during outbound processing. There is no requirement for key fields for Inbound Processing.

## Application ID

A user-defined identifier indicating the source or destination of documents, typically used in reporting and routing of inbound documents.

## Archive

A permanent record of messages transmitted or received.

## Audit Indicator

Field on the Standards Segment Element panel (EDIX140-CTI01). An Audit Indicator of ‘Y’ means that detailed information (for example, invoice number or purchase order number) about the segment element is passed (that is, written) to the Doc Info field in the Audit File to relate the actual Document Number with the Control Number used in the EDI Envelope. A BLANK in this field means that detailed information is not passed or written to the Doc Info field in the Audit File.

## Batch Processing

A type of data processing operation and data communications transmission where related transactions are grouped together and transmitted for processing. Usually by the same computer and under the same application; generally regarded as non-real time data traffic consisting of large files; type of data traffic where network response time is not critical; compare with interactive (processing).



---

## Break Year

The break year is defined as the year that determines to which century the year belongs. If the input date is less than the break year, it is determined to be in the 2000's and is assigned a century of '20' or '1.' Otherwise, it is determined to be in the 1900's and is assigned a century of '19' or '0.'

## Captive

A captive panel *automatically* displays based on the values you entered on a previous panel. You can tell whether a new panel has displayed by checking the program name and format name, which are unique identifiers located on the upper left corner of the panel.

## Comm Profile ID

The identifier under which communications information is stored. All protocol information about how communication sessions will be performed with this entity, whether it be a Third Party Network or a Direct-connect, is also stored under this identifier. The inbound and outbound EDI data is stored in Queue files under the Comm Profile ID so that when a communication session is established with this entity, all data under this identifier will be picked up and sent to them and any data received will be stored under this identifier.

## Compliance Errors

These are errors encountered while editing the EDI data against the Standards. They are syntax errors that relate specifically to the Standards, such as 'Missing Mandatory Segment'. These compliance errors are reported on the Editor Error Report for Inbound and Outbound Processing.

## Compression

An automated process where data is compressed and wrapped by removing trailing blanks and spaces from segments, groups, and/or transactions. Data compression reduces data field information to its minimum (for cost effectiveness). This is controlled by Sterling Gentran global parameters.

## Concurrent Processing

In Sterling Gentran:Server, concurrent processing enables you to run multiple processes at the same time over a single Sterling Gentran data library. For example, you can run an inbound processing job and an outbound processing job at the same time, or run two separate inbound processes at once.

## Control Numbers

These are assigned by the sender for the purpose of identifying documents and transmissions, and to facilitate sequence checking by the receiver. Control numbers are maintained at three levels: the Transmission or Interchange, the Functional Group, and the Transaction Set.

Sterling Gentran:Server supports numerous methods of maintaining, formatting and checking sequence numbers to accommodate the variations in your industry.

## Data Dictionary

A document that describes the attributes of all data elements within a standard.

## Data Element

The smallest named item in a segment that can convey data. For example, "Bill To City" is one data element within a segment.

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## Data Separation

This is commonly referred to as Splitting. It is the process during Inbound Translation that occurs to separate the edited EDI data by Application types prior to the mapping process. EDI data that is received may be from many different Partners and may contain several different types of documents. It is much more efficient to sort the data by Application type before mapping the EDI data into the Application formats.

## Decompression

An automated process to decompress or “unwrap” data received by re-inserting trailing blanks and spaces. This occurs during the inbound editing process.

## Delimiters

Delimiters are special characters used to separate and mark the end of segments and the beginning of data elements. Two characters are required (one is used to separate data elements, the other to separate segments) and, when used as delimiters, the characters may not be used within the data itself. A third delimiter is used in EDIFACT messages to separate subelements. Delimiters are dynamically defined by the Interchange Envelope.

## Doc Info

The Doc Info field on the Work with Audit Transaction Status panel (EDIX253-FMT01) contains the actual data from the transaction that identifies the document reference number. (SEE also ‘Audit Indicator’.)

## Dummy Record

This record is used for the purpose of mapping, but it is not actually written out. Records defined for inbound processing that have the Write Flag set to 'N', will not be written and are, therefore, called Dummy Records.

## Dummy Segment

This segment is used for the purpose of mapping, but is not actually written out. Segments defined for Outbound processing that have the Write Flag set to 'N', will not be written and are, therefore, called Dummy Segments.

## EDI (Electronic Data Interchange)

Electronic Data Interchange (EDI) is the exchange of routine business transaction in a computer-processable format, covering such traditional applications as inquiries, planning, purchasing, acknowledgments, pricing, order status, scheduling, test results, shipping and receiving, invoices, payments and financial reporting.

## EDI Coordinator

A person assigned to coordinate EDI functions for an organization. As EDI and EC (Electronic Commerce) continue to grow at a rapid pace, the role of the Coordinator is dynamically changing. Many Coordinators are asked to fill a complex role of being a business analyst, technical wizard, and liaison to the trading partner, while performing daily audits and controls.

The EDI Coordinator is responsible for the setup of partners, maps, daily processing, communications, and acknowledgment reconciliation.

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## Editor

The Inbound Editor uses pre-determined instructions to verify, check, and possibly reject the EDI standard data you have received from a Trading Partner, and moves the edited data to split files and then to the appropriate inbound application files via Mapping.

The Outbound Editor prepares your data for transmission to your Trading Partners. Outbound processing translates your application data to the chosen EDI standard being used, and checks all data to ensure compliance with the selected public standard.

## Element

A unit of information with specific edit and length characteristics. This represents the smallest unit of information in the Standard. Also called a data element.

## Element Separator

A syntax character used to separate data elements within a segment. Also referred to as a “delimiter”.

## Envelope

The transmission header and trailer enclosing an EDI message. This is automatically generated by Sterling Gentran:Server using the information on the Partner file.

There are three levels of envelopes: Interchange, Group, and Transaction.

## Environment Profile

The environment profile is a subset of the Sterling Gentran:Server user's profile that contains parameters specific to the environment in which the user runs Sterling Gentran:Server. These parameters include the data formats, language ID, and division code used for the online file maintenance panels as well as the following batch processing options: job description, job queue, message queue, output queue, print device, and print file.

The program and data libraries are used only when files are requested to be created without a target library. They are defaulted from the libraries defined during installation of Sterling Gentran:Server.

## EOT

End of Transmission

## Error Rejection

During the Compliance Checking process performed by the Editors, if an error is encountered that identifies that the data does not conform to the Standards, a message is printed on the Editor report. In addition, if Rejection has been established for this particular error number, for the Partner, for the Document, and for the Direction, the data is marked as rejected. If inbound, the rejected data is placed in the Reject file by the Splitter program. If outbound, the rejected data is placed in the Outbound Queue under the Comm Profile ID for the Partner with a status of 'QE' for Queued with Errors.

## Error Processing

The process of reporting error messages on the Mapper and Editor reports during Translation Processing.

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**Field**

The smallest item of information in a record.

**Function**

In Sterling Gentran:Server, a function refers to a program or command under a subsystem that can be secured individually in the Environment Control subsystem.

**Functional Acknowledgment**

A special transaction set transmitted by a receiver as an affirmative response to the sender. This is automatically generated and reconciled by Sterling Gentran:Server based upon the Trading Partner configuration.

**Global Parameters**

The switches that affect the Editing function during Translation. Typically they identify whether a feature should be performed for all Partners in the same manner or whether it should be performed on a partner-by-partner basis by looking at the Partner parameters. One feature in the Global Parameters is whether acknowledgments should be created for all Partners or on a partner-by-partner basis.

**Header**

The portion of the message that precedes the actual body and trailer of the business transaction.

**In-house Interface**

Routine(s) developed by application personnel that connect Application systems to Sterling Gentran:Server. These routines either create Application Interface files for outbound transactions or process an Application Interface file containing inbound transactions.

**Job Description**

A set of characteristics that are used by the iSeries to process a job. Attributes specified in the job description instruct the system to run the job the way you want. All jobs started on the iSeries must have an associated job description. Sterling Gentran:Server uses the job description defined in the Environment Control subsystem for each user.

**Job Log**

A log or record of requests (such as commands) submitted to the system by a job. This is specific to the iSeries Messages related to the requests and the actions performed by the system for the job are also recorded in this log. All jobs have a job log associated with them. Batch jobs produce job logs in a spool file. Interactive jobs have job logs that can be seen by using the System Request function. To generate a job log from an interactive session, sign off the iSeries with the option, \*LIST. This is an important report that can be used in conjunction with the Sterling Gentran:Server reports to manage your EDI processing.

**Job Queue**

A staging area for jobs that have been grouped together and are waiting their turn to run. This is specific to the iSeries. When a job is submitted to run, it is submitted to a job queue. Typically, job queues have a FIFO (first in, first out) method of processing. However, there is a priority assigned to the job that ranks the jobs in the queue to determine which job will run next. If jobs have the same priority level, the first job in the queue will run first. Job queues are holding areas for the jobs until there is room in the iSeries subsystem to actually run the job. The job queue is designated in the Job Description, which is defined in the Environment Control subsystem.

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## Key Entry Line

This is the blank line at the top of the subfile in which you enter the key fields necessary to advance to the next panel, as specified by the option code selected.

## Loop

Loops are used in situations where multiple EDI segments (more than one) exist that occur together more than one time. In order to evaluate the information, all the segments need to be evaluated together. It is the group of multiple segments that occur repeatedly. A common loop is the N1 loop that contains Name and Address information.

## Loop ID

This is the identifier used in Sterling Gentran:Server to tie all the segments together to produce a Loop. This loop ID can also exist on the Application records to identify a single record or group of records that is associated with the loop on the EDI side.

## Mandatory

A statement that a segment, data element or component data element must be used.

## Map

A set of instructions detailing the correspondence between the EDI message standard and your Application Transaction. The Data Map is also used to document your applications' use of EDI and document your data requirements for your Partners.

## Mapping

Map processing utilizes user-defined maps to translate business documents from the in-house data format to the selected EDI standard or from EDI standard to internal format. Maps are defined using the online Mapping Integration system. When data is created by the user's application program and processing is initiated, the system selects the proper map, based on partner definitions, and translates the data into the EDI standard format.

## Mapper

The Inbound Mapper translates EDI data received from your Partner into your Application format based on instructions you created. The instructions are stored in the Transaction Definition in the mapping subsystem.

The Outbound Mapper translates your Application data into the specified EDI format based on instructions you created. The instructions are stored in the Transaction Definition in the mapping subsystem.

## Map

The "map" is the definition of instructions for moving data between the EDI format and the Application format. It is also known as the Transaction Definition. To perform the "task of mapping" means to create the definition of how to move the data between elements and fields.

## Max Loop

This is the number of times a Loop can occur on the EDI side. If the N1 loop contains Name and Address information, the Max Loop value would identify how many different Name and Address loops can occur.

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## Max Use

The number of times a segment or record can occur. If this value is more than one, the segment or record would be read or written multiple times before the next segment or record.

## Message

An identified and structured set of data elements and segments covering the requirements for a specific transaction. Also known as a “document” or transaction set.

## Network

A network is a Third Party EDI Network (EDI mailbox). Networks are defined to Sterling Gentran:Server for the purposes of collecting and routing messages. These are commonly referred to as VANs (Value Added Networks).

## No-Write Flag

The name given to the Write Flag when it is set to ‘N’. See “Write Flag”.

## Parm

This term is another name for a parameter. There are several places where parameters exist: there are Partner parameters that are used by the entire system for a particular Trading Partner. There are Global Parameters that are used by the entire system for ALL Trading Partners. Command Parameters are specific to a process such as Inbound Translation (PRCTRIN).

## Partner

The Partner is commonly known as the Trading Partner and is someone with whom you are trading EDI documents.

## Partner ID

The Partner ID is the identifier used in the Partner file under which information is stored that is necessary to trade EDI documents using Sterling Gentran:Server. This identifier can be an internal identifier for how you know them in your Applications such as a customer or vendor number, or it can be a descriptive identifier such as a company name, or it can be an EDI-specific identifier such as a DUNS number or communications phone number.

## Partner Profile

The Partner Profile refers to all of the information that is stored under the Partner ID. This information includes what EDI documents are being traded, what values should be loaded into the envelopes when sending data outbound, error rejection rules, and FYI comments.

## Rejection

See “Error Rejection”.

## Security Officer

A person assigned to control all of the security authorizations provided with an iSeries system. The Security Officer (QSECOFR) can create iSeries user profiles, grant and revoke authorities for any system object, and execute any command with full authority.

The Sterling Gentran:ServerEnvironment Control subsystem supplies the User ID, QSECOFR, which can be accessed by the Security Officer to create and maintain additional user profiles for Sterling Gentran.

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## Security Profile

The security profile is a subset of the Sterling Gentran:Server user's profile that contains authority codes defining the subsystems and functions the user can access as well as the level of access allowed to that user.

If the user has full or partial access to a subsystem, the level of access is determined by the data rights.

## Segment

Each record in a transaction set or a string of associated data elements. A segment is like a sentence: composed of data elements that appear in a specific order to convey its meaning. Envelope segments come in pairs, for example, GS/GE group parts, and ST/SE transaction set pairs.

## Segment Terminator

The syntax character that is used to identify the end of a segment. One of the most common terminators used in EDI is HEX '15' (new line character).

## Selection Criteria

Sterling Gentran:Server allows document processing and reporting functions to be controlled by selection criteria. Examples of just some of the fields available as selection criteria are: User Document Reference (P.O. Number, Invoice Number), User, Partner, Network, Application, Transaction Type, Date, Time, Document Status, Document Acknowledgment Status, Document Validation Status, Duplicate Status, Test/Production Status, Interchange Control Numbers, and other EDI envelope information.

## Separation

See "Data Separation".

## Simple Data Element

A data element whose data item representation embodies a single concept; a data element that is not made up of component data elements.

## Slide File

The Slide file is the default Split file used during Inbound Processing by the Splitter program when the Split file cannot be determined. If no Splitting instructions were set up or they cannot be found for a Partner, all the data from that Partner will be placed in the Slide file. The Slide file can still be used as input to the Mapper by leaving the Split file number blank on the Application Data ID or by indicating the Slide file as the Split file on the Application Data ID.

## Split File

The Split file is one of the work files used during the Inbound Processing by the Splitter program to separate or sort the EDI data by the Application type in preparation for Mapping. There are 80 Split files available (identified as numbers 01-80).

## Splitting

This is the process during Inbound Translation that occurs to separate the edited EDI data by Application types prior to the Mapping process. EDI data that is received may be from many different Partners and may contain several different types of documents. It is much more efficient to sort the data by Application type before mapping the EDI data into the Application formats.

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## **Sterling B2B Collaboration Network**

IBM Value Added Network (VAN).

### **Sterling Gentran:Server**

Sterling Gentran:Server is EDI translation and communications software for the IBM iSeries. It acts as an interface between your in-house applications and the EDI standards.

### **Sterling Gentran:Viewpoint**

Sterling Gentran:Viewpoint allows you to selectively track business documents: for example, an individual purchase order, invoice, or acknowledgment. It gives you the ability to see where your business documents are within the EDI system.

Sterling Gentran:Viewpoint is an “add on” system for Sterling Gentran:Server; that is, you must be using Sterling Gentran:Server to use this product.

### **Sub-Split File**

This file is a further separation of the data within each of the 80 Split files that can be used to break the data apart more than just by the Application type by using an element in the EDI data to determine where the data should be placed. There are 80 Sub-Split files available per Split file.

### **Subsystem**

This is a collection of functions categorized together to perform certain tasks in Sterling Gentran. The Partner subsystem is a group of functions that collectively allow you to define the Trading Partner.

### **Summary Area**

The portion of the message that follows the body of the message and contains summary information relating to the entire message.

### **Suspension**

When Sterling Gentran:Server cannot determine key information necessary in order to continue processing, the data is placed in the Suspense File. Suspended data is in error and the Editor and/or Mapping Reports can be evaluated to determine the cause of the suspension. Typically, suspension occurs when the Partner ID cannot be found in the Partner file for whom the data is destined or the Transaction ID cannot be found to instruct the Mapper how to move the data between formats.

### **System Administrator**

A person assigned to perform administrative functions with the system. This may be the Security Officer or some else responsible for a specific application system.

With regard to Sterling Gentran, the System Administrator refers to the person responsible for authorizing users to access Sterling Gentran and possibly controlling operations with Sterling Gentran.

### **TA1 Acknowledgment**

This acknowledgment is an interchange acknowledgment for the ISA interchange. It is a single segment that is surrounded only by the ISA/IEA envelope and acknowledges an ISA interchange that was received. This level of acknowledgment is not typically used since it only indicates that an interchange was received, not what was contained within the interchange nor how the contents were disposed of.



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## Trading Partner

A Trading Partner is any organization with whom you do business. Typically, Trading Partners are customers, suppliers, and intra-company divisions.

## Transaction ID

Within Sterling Gentran:Server, the mapping definition that identifies how data is moved between the EDI format and the Application format is stored under an identifier, known as the Transaction ID.

## Transaction Set

The Transaction set is the EDI equivalent of an Application document. Common documents include Purchase Orders and Invoices. The X12 Transaction sets for these are 850 and 810. The UCS Transaction sets for these same documents are 875 and 880. The Transaction set is the EDI format of Segments and Elements that compose the related information for the document. These Transaction set numbers vary between Standards.

## Translation

Transaction is the process of moving the data between EDI and Application formats using the mapping definition. Translation occurs in Sterling Gentran:Server by the Inbound and Outbound Mappers during PRCTRIN and PRCTRNOU.

## User ID

The User ID refers to an individual defined in the Environment Control subsystem as someone who can access Sterling Gentran:Server. The Sterling Gentran:Server User ID is set up using the iSeries User ID.

## User Document Reference

The User Document Reference is a user-defined field that provides a way of referring to EDI documents by your existing methods – for example, documents can be referred to by your Purchase Order Number rather than referring to an EDI control number. The User Document Reference is supported for both inbound and outbound documents.

## User Exit

The point during Translation mapping that an API (Application Program Interface) can be invoked to perform some special processing. Sterling Gentran:Server mapping is temporarily suspended while this API is invoked. Data from the Mapping can be passed to the API through the User Exit Call Block. User Exits can be invoked at the Element level, the Segment level, and the Mapping Run level (at the Start of and End of Mapping).

## User Profile

The user profile refers to the combination of the environment profile and the security profile that is defined for each user in Sterling Gentran:Server. This profile identifies what systems and functions the user is permitted to access as well as the data rights for each subsystem.

This profile is specific to Sterling Gentran:Server; however, it cannot be created without first having an iSeries User ID and does not supersede any of the user's iSeries authority.

For example, if a user's iSeries profile has the option “Limit Capabilities” set to '\*YES', then the user cannot execute any commands from the command line, including Sterling Gentran-specific commands. Command line authority is maintained within Sterling Gentran “Work with” panels.

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## **Write Flag**

The Write Flag refers to the segment or record that is being written during the Translation processing by the Mapper. If processing inbound, the Write Flag would exist on the Application records to determine if the record should actually be written. If processing outbound, the write flag would exist on the Transaction segments to determine if the segment should be written. In most cases, you would want to write the record or segment. It is only in special situations where you want to save some information in Constants that you may not want to write the segment or record. In order to save data in constants, you must move it into a field or element. However, if you move the data, the record or segment would be written. The Write Flag can prevent the record or segment from being written by setting it to 'N' for No.

## **Year 2000 Compliant**

Y2K (Year 2000) compliant is defined as ensuring that all Sterling Gentran processes that involve dates (that is, performing date comparisons for all processing, displaying file dates, displaying and processing the current date, converting EDI/Application dates, and printing dates) execute correctly in both the 20th and 21st century business environments.

# Reserved Word Constants

## Inbound and Outbound

The following reserved word constants are available for use in both inbound and outbound map fields:

### **CONSTANT-01 through CONSTANT-99**

These constants can be used on maps to hold alphanumeric information that is needed later in the map, either to be moved to an output field or used in a conditional statement. Generally, the constants are used for:

1. Loading common data into each application record during an inbound map (for example, a sort key).
2. Loading input header information into output detail or summary areas.

The following descriptions discuss unique characteristics about the constant field ranges:

#### **CONSTANT-01 through CONSTANT-40 (Transaction Level)**

These constants are initialized to spaces at the beginning of each document generated (outbound) or document read (inbound).

#### **CONSTANT-41 through CONSTANT-45 (Group Level)**

These constants are initialized to spaces at the beginning of each functional group generated (outbound) or functional group read (inbound).

#### **CONSTANT-46 through CONSTANT-50 (Interchange Level)**

These constants are initialized to spaces at the beginning of each interchange generated (outbound) or interchange read (inbound).

#### **CONSTANT-51 through CONSTANT-55 (Run Level)**

These constants are initialized to spaces at the beginning of the mapping run only.

#### **CONSTANT-56 through CONSTANT-75 (Transaction Level)**

These constants are initialized to spaces at the beginning of each document generated (outbound) or document read (inbound).

#### **CONSTANT-71 through CONSTANT-80 (Detail Item Level)**

These constants are initialized to zeros at the beginning of each detail loop (denoted as area 'D'). These are not cleared for subsequent detail sections (1-9) when \*NO is answered on the Clear Values at Section Break parameter located on the PRCTRIN and PRCTRNOU commands. These items will be cleared at the subsequent detail sections (1-9) when \*YES is answered to the same parameter.

#### **CONSTANT-76 through CONSTANT-89 (Interchange Level)**

These constants are initialized to spaces at the beginning of each interchange generated (outbound) or interchange read (inbound).

### **CONSTANT-90 through CONSTANT-99 (Detail Item Level)**

These constants are initialized to spaces at the beginning of every detail loop (denoted as area 'D'). These are not cleared for subsequent detail sections (1-9).

### **HASH-TOTAL-01 through HASH-TOTAL-80**

Hash totals can be used on maps to accumulate predefined input fields that are needed later in the map, either to be moved to an output field or used in a conditional statement. Generally, hash totals are used in maps to accumulate numeric field values (for example, quantity, dollars), and map the accumulated total into a control total field.

The following descriptions discuss unique characteristics about the hash total field ranges:

#### **HASH-TOTAL-01 through HASH-TOTAL-05 (Transaction Level)**

These hash totals are initialized to zeros at the beginning of each document that is generated (outbound), or each document that is read (inbound).

#### **HASH-TOTAL-06 through HASH-TOTAL-10 (Group Level)**

These hash totals are initialized to zeros at the beginning of each functional group that is generated (outbound), or each functional group that is read (inbound).

#### **HASH-TOTAL-11 through HASH-TOTAL-15 (Interchange Level)**

These hash totals are initialized to zeros at the beginning of each interchange that is generated (outbound), or each interchange that is read (inbound).

#### **HASH-TOTAL-16 through HASH-TOTAL-20 (Run Level)**

These hash totals are initialized to zeros only at the beginning of the mapping run.

#### **HASH-TOTAL-21 through HASH-TOTAL-40 (Transaction Level)**

These hash totals are initialized to zeros at the beginning of each document that is generated (outbound), or each document that is read (inbound).

#### **HASH-TOTAL-41 through HASH-TOTAL-45 (Group Level)**

These hash totals are initialized to zeros at the beginning of each functional group that is generated (outbound), or each functional group that is read (inbound).

#### **HASH-TOTAL-46 through HASH-TOTAL-65 (Interchange Level)**

These hash totals are initialized to zeros at the beginning of each interchange that is generated (outbound), or each interchange that is read (inbound).

#### **HASH-TOTAL-66 through HASH-TOTAL-70 (Run Level)**

These hash totals are initialized to zeros only at the beginning of the mapping run.

#### **HASH-TOTAL-71 through HASH-TOTAL-80 (Detail Item Level)**

These hash totals are initialized to zeros at the beginning of every detail loop (denoted as area 'D'). These are not cleared for subsequent detail sections (1-9) when \*NO is answered on the Clear Values at Section Break parameter located on the PRCTRNOU and PRCTRNI commands. These items will be cleared at the subsequent detail sections (1-9) when \*YES is answered to the same parameter.

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## ACCUMULATOR-01 through ACCUMULATOR-80

Accumulators can be used on maps to maintain counters that are incremented by one (1) that are needed later in the map, either to be moved to an output field or used in a conditional statement. Generally, accumulators are used to:

1. Count the occurrence of a specific entity such as a line item.
2. Generate increasing/sequential record/line item numbers.

The following descriptions discuss unique characteristics about the accumulator field ranges:

### **ACCUMULATOR-01 through ACCUMULATOR-05 (Transaction Level)**

These accumulators are initialized to zeros at the beginning of each document that is generated (outbound), or each document that is read (inbound).

### **ACCUMULATOR-06 through ACCUMULATOR-10 (Group Level)**

These accumulators are initialized to zeros at the beginning of each functional group that is generated (outbound), or each functional group that is read (inbound).

### **ACCUMULATOR-11 through ACCUMULATOR-15 (Interchange Level)**

These accumulators are initialized to zeros at the beginning of each interchange that is generated (outbound), or each interchange that is read (inbound).

### **ACCUMULATOR-16 through ACCUMULATOR-20 (Run Level)**

These accumulators are initialized to zeros only at the beginning of the mapping run.

### **ACCUMULATOR-21 through ACCUMULATOR-40 (Transaction Level)**

These accumulators are initialized to zeros at the beginning of each document that is generated (outbound), or each document that is read (inbound).

### **ACCUMULATOR-41 through ACCUMULATOR-45 (Group Level)**

These accumulators are initialized to zeros at the beginning of each functional group that is generated (outbound), or each functional group that is read (inbound).

### **ACCUMULATOR-46 through ACCUMULATOR-65 (Interchange Level)**

These accumulators are initialized to zeros at the beginning of each interchange that is generated (outbound), or each interchange that is read (inbound).

### **ACCUMULATOR-66 through ACCUMULATOR-70 (Run Level)**

These accumulators are initialized to zeros only at the beginning of the mapping run.

### **ACCUMULATOR-71 through ACCUMULATOR-80 (Detail Item Level)**

These accumulators are initialized to zeros at the beginning of each detail loop (denoted as area 'D'). These are not cleared for subsequent detail sections (1-9) when \*NO is answered on the Clear Values at Section Break parameter located on the PRCTRIN and PRCTRNOU commands. These items will be cleared at the subsequent detail sections (1-9) when \*YES is answered to the same parameter.

### Other Reserved Word Constants for Inbound and Outbound

#### **CURRENT-DATE**

The current date according to the system. The value generated is based on the length and type of the target field.

#### **CURRENT-TIME**

The current time according to the system. The value generated is based on the length and type of the target field.

#### **TOTAL-SEGMENTS**

This constant contains either the number of segments read (inbound) or the number of segments written (outbound). It is available to be moved into a numeric application field (inbound) or a numeric EDI element (outbound).



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#### **CAUTION**

On Inbound maps only, segments defined to the map are counted and the count will only be valid after all segments have been read. For this reason, this constant should only load an application field defined in the summary section of the application. On outbound maps this constant will not contain a valid value if more than one (1) segment is generated in the summary section of the EDI document. Envelopes are not counted in either direction.

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#### **TOTAL-ITEMS**

This constant contains the number of line items generated for an application (inbound) or an EDI document (outbound). A line item is defined as the segments or records in the detail section of the application or EDI document. It is available to be moved into a numeric application field (inbound) or a numeric EDI element (outbound). This constant should only be used in the summary section of the EDI document or application.

## Inbound Only

The following reserved word constants are all preset by the inbound mapping program. They are available to be moved into an appropriate application field.

### **SENDER-ID**

This constant contains the resolved sender ID (partner cross-reference is used) as determined by the inbound editor.

### **SENDER-ID-Q**

This constant contains the resolved sender ID qualifier, if used, (cross-reference is used) as determined by the inbound editor.

### **RECEIVER-ID**

This constant contains the resolved receiver ID (partner cross-reference is used) as determined by the inbound editor.

### **RECEIVER-ID-Q**

This constant contains the resolved receiver ID qualifier, if used, (cross-reference is used) as determined by the inbound editor.

### **PART-TEST-FLAG**

This constant contains a 'P' if the transaction record on the partner file for the sender has a Production status. If the Trading Partner is not on file or the transaction record found is not set to production status, this constant contains a value of 'T'.

### **PROD-TEST-FLAG**

This constant contains a "P" if the transaction status (in Mapping) is set to Production. This constant contains a "T" if the transaction status (in Mapping) is set to Test or Development.

### **ISA01 through ISA16**

The constants contain the values of each element received in the ISA segment.

### **ICS01 through ICS12**

The constants contain the values of each element received in the ICS segment.

### **BG01 through BG07**

The constants contain the values of each element received in the BG segment.

### **UNA01 through UNA06**

The constants contain the values of each element received in the UNA segment.

### **UNB01 through UNB18**

The constants contain the values of each element received in the UNB segment.

### **GS01 through GS08**

The constants contain the values of each element received in the GS segment.

**UNG01 through UNG13**

The constants contain the values of each element received in the UNG segment.

**ST01 through ST02**

The constants contain the values of each element received in the ST segment.

**UNH01 through UNH09**

The constants contain the values of each element received in the UNH segment.

**SCH01 through SCH05**

The constants contain the values of each element received in the SCH segment.

**STX01 through STX12**

The constants contain the values of each element received in the STX segment.

**BAT01 through BAT02**

The constants contain the values of each element received in the BAT segment.

**MHD01 through MHD03**

The constants contain the values of each element received in the MHD segment.



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# Application Data Types

When defining an application field, the length of the field and the field data type must be specified. The length of the field is the number of bytes of storage the data field will occupy in the file that is not its logical length. The data type of the field will depend on the use and format of the field.

## Alphanumeric Data Types

The alphanumeric data types are designed to describe fields that hold free-form data that contains any characters (letters, numbers, and special characters) including spaces. Data is moved to and from these fields, character-by-character, without editing. The data in the receiving field is left-justified. During inbound processing, these fields are initialized to spaces. Fields will be truncated because of field/element length considerations without causing an error condition.

If data is moved from a numeric EDI element to an alphanumeric field during an inbound map process, the numeric EDI element will be moved to the application field starting with the first significant digit of the number. Any real or implied decimal points will be shown in the data as a real decimal point.

For example:

1. EDI alphanumeric (length 35) to Application alphanumeric (length 20)  
 AB CORPORATION - BILLING DEPARTMENT =====>  
 AB CORPORATION - BIL
2. EDI numeric (type N2, length 6) to Application alphanumeric (length 9)  
 123456 (logically 1234.56) =====>  
 1234.56<space><space>

### **AN (Alphanumeric)**

This is the data type used to describe 99.9 percent of the alphanumeric fields in applications.

For “AN” data types, the length of the field is the number of characters to be written in the field.

### **AS (Application Select - Outbound Applications Only)**

This data type describes a field with the same data characteristics as “AN”. The difference is that this field also tells the mapper to select appropriate maps based on the value of the data contained in this field. Only one application select field should be coded for an application definition.

### **ID (Identification)**

This data type describes a field with the same data characteristics as “AN”. There is no reason at this time to use this data type in application definitions.

## Numeric Data Types

The numeric data types are designed to describe application fields that contain numeric data. Unlike the alphanumeric data types, which are interchangeable, the numeric types have very specific formats that must be adhered to. The numeric application data can be mapped to and from an alphanumeric EDI element.

**S# (Signed Numeric; # = number of implied decimal positions. Valid values are S0 through S9)**

This data type is commonly called “zoned decimal”. Its length is defined as the number of digits in the number. The sign is represented by an “overpunch” in the last byte of the number. A six-position number with two implied decimal positions is defined to the application as data type “S2”, with a length of 6. It is represented in a COBOL program as PIC S9(4)V9(2).

**P# (Signed Packed; # = number of implied decimal positions. Valid values are P0 through P9)**

This data type is commonly called “packed decimal”. Its length is defined as: the number of digits in the number divided by 2 + 1. The sign is represented in the last half byte of the number (D=negative; C or F=positive). A 6-position number with two implied decimal positions would be defined to the application as data type “P2” with a length of 4. It is represented in a COBOL program as PIC S9(4)V9(2) COMP-3.

**U# (Unsigned Packed; # = number of implied decimal positions. Valid values are U0 through U9)**

This data type is the same as the packed data type (P#) above except that the last half byte of the number that contains the sign will always have an “F”. A 6-position number with two implied decimal positions is defined to the application as data type “U2” with a length of 4. It is represented in a COBOL program as PIC 9(4)V9(2) COMP-3.

**N# (Signed Numeric; # = number of implied decimal positions. Valid values are N0 through N9)**

This data type is similar to the EDI “N” data type except that the entire length of the field must be filled with numeric values. Its length is defined as the number of digits in the number. Negative numbers have an explicit minus sign (-) in the first byte. It is recommended that this data type be used for only data values that will always be positive. For example, a 6-position number with two implied decimal positions is defined to the application as data type “N2” with a length of 6. It is represented in a COBOL program as PIC 9(4)V9(2).

**R (Real)**

This data type is similar to the EDI “R” data type except that the entire length of the field must be filled with numeric values. Its length is defined as the number of digits in the number. Negative numbers have an explicit minus sign (-) in the first byte. Decimal positions are indicated with a real decimal point. It is recommended that this data type be used only when absolutely necessary because there is a considerable amount of programming required to generate or interpret this data type compared to the other types. A 6-position number with two positions after the decimal displays as “1234.56”. For inbound, the field is padded on the right with trailing zeros. As a result, the number one (“1”) displays in a 6-position application field as “1.0000”.

**ND (Numeric Display - Outbound Applications Only)**

This data type is similar to the “R” data type except that any special characters encountered when translating from this field are ignored. This data type was developed to allow limited numeric processing capabilities when the application file is in report format. These fields will be converted as shown in the following example. (Assume moving to “R” type EDI element.)

1. \$ 120.00=====>120
2. \$\*\*\*\*\*1.00=====>1
3. 1.2=====>-1.2
4. 1.2 CR=====>-1.2

Remember, this data type can only be used in outbound application definitions.

**B (Binary)**

This data type supports full word, positive, binary numbers for outbound applications only. The field lengths specified must be in full-word increments (e.g., 2 bytes, 4 bytes, 6 bytes, and 8 bytes). These data types are represented in COBOL as PIC 9(#) COMP, where # is a multiple of 4.

**E0 (Unpacked Large Numeric)**

This data type supports non-decimal unpacked numbers ranging from S9(13) to S9(18).

**F0 (Packed Large Numeric)**

This data type supports non-decimal packed numbers ranging from S9(13) packed to S9(18) packed.

**G (Graphic)**

This data type supports double-byte graphic data. When mapping from this data type, it will convert the double-byte data to single character data for mapping. When mapping to a graphic data type, it will convert the single byte data to the double-byte graphic data.

**LN (Very Large Numeric)**

This data type supports non-decimal unpacked numbers ranging from s9(19) to s9(63). This data type can only be mapped to alpha type fields.

**LP (Very Large Packed)**

This data type supports non-decimal packed numbers ranging from s9(19) to s9(63). This data type can only be mapped to alpha type fields.

**NOTE**

You cannot save the E0 and F0 data types in the hash totals. If you did, unpredictable results would occur.

## Date Data Types

The date data types are provided to give the ability to automatically convert dates in multiple formats to the standard EDI Year/Month/Day (YYMMDD) format. For automatic data conversion to take place, the EDI element data type must be “DT”, “D8”, or “CD;” the application field data type must be one of the following data types. The application date formats are shown in the following table.

Date Format	Format	Packed? Y(es) or N(o)	Length
YY	YYMMDD	N	6 bytes
MM	MMDDYY	N	6 bytes
DD	DDMMYY	N	6 bytes
CY	YYYYMMDD	N	8 bytes
CM	MMDDYYYY	N	8 bytes
CD	DDMMYYYY	N	8 bytes
PY	YYMMDD	Y	4 bytes
PM	MMDDYY	Y	4 bytes
PD	DDMMYY	Y	4 bytes
PJ	YYDDD (Julian)	Y	3 bytes
JD	YYDDD (Julian)	N	5 bytes
J8	YYYYDDD (Long Julian)	N	7 bytes
ZY	YYYYMMDD	Y	5 bytes
ZM	MMDDYYYY	Y	5 bytes
ZD	DDMMYYYY	Y	5 bytes
ZJ	YYYYDDD (Long Julian)	Y	4 bytes
L “L” data type	YYYY-MM-DD (*ISO and *JIS) Default format is 0001-01-01	N	10 bytes
LE “L” data type	DD.MM.YYYY(*EUR) Default format is 01.01.0001	N	10 bytes
LU “L” data type	MM/DD/YYYY format (*USA) Default format is 01/01/0001	N	10 bytes

Date Format	Format	Packed? Y(es) or N(o)	Length
1Y	CYYMMDD Where: C = "0" for years 1900 through 1999 C = "1" for years 2000 and higher	N	7 bytes
1P	CYYMMDD Where: C = "0" for years 1900 through 1999 C = "1" for years 2000 and higher	Y	4 bytes
1J	CYYDDD (Julian) Where: C = "0" for years 1900 through 1999 C = "1" for years 2000 and higher	N	6 bytes

## Time Data Types

The time data types are provided to give the ability to automatically convert times in multiple formats to the standard EDI time format. For automatic time conversion to take place, the EDI element data type must be "TM," "T6," or "T8" and the application field data type must be one of the following data types. The application time formats are shown in the following table.

Time Format	Format	Packed? Y(es) or N(o)	Length
TM	HHMM	N	4 bytes
T6	HHMMSS	N	6 bytes
T8	HHMMSSuu	N	8 bytes
Z4	HHMM	Y	3 bytes
Z6	HHMMSS	Y	4 bytes
Z8	HHMMSSuu	Y	5 bytes
TS Time portion (last 16 bytes) of the iSeries Date/Time stamp (Z).	HH.MM.SS.uuuuuu Default format is -00.00.00.000000	N	16 bytes

# EDI Data Types

The following data types are used to describe all of the elements in an EDI document.

## Alphanumeric Data Types

**AN    Alphanumeric**

The Alphanumeric data type is used to describe most of the alphanumeric elements in EDI documents. The data in “AN” field types is free-form text.

**ID    Identification**

The Identification data type describes a data field that is alphanumeric, but may contain only specified code values. If the number of these code values has a realistic, finite limit (for example, unit of measure), then the values in the fields are validated during compliance checking. If the number of valid values has no real defined limit (for example, DUNS number), then the value is not validated.

## Numeric Data Types

**N#    Signed Numeric (# = number of implied decimal positions. Valid values are N0 through N9)**

The Numeric data type is defined as having an implied decimal point and an explicit minus (-) sign, if the value is negative. The value of 1.23 in an “N3” element, with a minimum length of one, is 1230.

**R#    Real (# = number of decimal positions. Valid values are R0 through R9)**

This data type is similar to the EDI “R” data type except that the entire length of the field must be filled with numeric values. Its length is defined as the number of digits in the number. Negative numbers have an explicit minus sign (-) in the first byte. Decimal positions are indicated with a real decimal point. It is recommended that this data type be used only when absolutely necessary because there is a considerable amount of programming required to generate or interpret this data type compared to the other types.

**R    Real**

This data type is defined as having a real decimal point and an explicit minus (-) sign, if the value is negative. The value of 1.23 in an “R” element, with a minimum length of one, is 1.23.

## Date Data Types

Date Format	Format	Packed? Y(es) or N(o)	Length
CD	DDMMYYYY	N	8 bytes
D8	CCYYMMDD	N	8 bytes
DT: can be either:	YYMMDD	N	6 bytes
or:  The EDI minimum/maximum field length of 6 or 8 will determine which format is used.	YYYYMMDD	N	8 bytes

## Time Data Types

Time Format	Format	Packed? Y(es) or N(o)	Length
TM	HHMM	N	4 bytes
T6	HHMMSS	N	6 bytes
T8	HHMMSSuu	N	8 bytes





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