IBM Sterling Gentran:Server for UNIX with ADD

User Guide

Version 6.2

IBM

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About This Guide

Contents

Welcome

Welcome to the IBM® Sterling Gentran:Server® *for UNIX with ADD User Guide.*

Who should use this guide

The *IBM® Sterling Gentran:Server® for UNIX with ADD User Guide* is for administrators who develop, manage, and monitor Advanced Data Distribution operations.

In this guide

This manual:

- Introduces you to Advanced Data Distribution concepts
- Explains how to set up and use your Advanced Data Distribution system.

In this preface

This preface:

- Describes the set of Sterling Gentran:Server user documentation
- Describes the contents of the chapters in this guide
- Lists the typographic conventions, symbols, and icons used in the documentation
- Explains how to get help.

Contents of Chapters

Description of contents

The *IBM® Sterling Gentran:Server® for UNIX with ADD User Guide* contains six chapters and one appendix. This table describes the contents of each chapter.

Chapter	Contents
About This Guide	Contains information about the *IBM® Sterling Gentran:Server® for UNIX with ADD User Guide* and explains how to get help.
Chapter 1, Getting Started	Contains basic information about the host software features and basic operating procedures, such as how to access and exit the system.
Chapter 2, System Components and Processes	Describes the components of the Advanced Data Distribution system and some of the basic processes.
Chapter 3, Setting Up Your System	Explains how to set up your Advanced Data Distribution system.
Chapter 4, Working With Mailboxes	Explains how to create and maintain the mailboxes and distribution lists in your system.
Chapter 5, Routing Files to Mailboxes	Explains how to configure your system to route files to mailboxes.
Chapter 6, Miscellaneous Tasks	Contains procedures for other Advanced Data Distribution tasks.
Appendix A	Describes the Advanced Data Distribution files and directories.
Glossary	Defines key terms used in this guide.

Related Publications

Sterling Gentran:Server documentation

This table describes additional documentation for the Sterling Gentran:Server software.

Document	Description
IBM® Sterling Gentran:Server® for UNIX Upgrade and Data Conversion Guide	Instructions for upgrading from previous versions of IBM® Sterling Gentran:Server® for UNIX and IBM® Sterling Gentran:Server® for UNIX - Workstation. Also includes instructions for converting the files that are part of the upgrade.
IBM® Sterling Gentran:Server® for UNIX Installation Checklist	Description of the recommended sequence in which you should install and configure system components.
IBM® Sterling Gentran:Server® for UNIX Getting Started Guide	Instructions for installing the Sterling Gentran:Server software and performing setup tasks, such as setting up security. Instructions for starting and exiting Sterling Gentran:Server and for setting preferences and default values. Also includes instructions for checking files in and out and saving files.
IBM® Sterling Gentran:Server® for UNIX - Workstation Getting Started Guide	Instructions for installing the IBM® Sterling Gentran:Server® for UNIX - Workstation software and performing setup tasks. Instructions for starting and exiting Sterling Gentran:Server and for setting preferences and default values. Also includes instructions for checking files in and out and saving files.
IBM® Sterling Gentran:Server® for UNIX Application Integration User Guide	Instructions for performing mapping and translation tasks using the Sterling Gentran:Server Application Integration system.
IBM® Sterling Gentran:Server® for UNIX HIPAA Compliance and NCPDP User Guide	Instructions for mapping and translating NCPDP files with the Application Integration system.

Document	Description
IBM® Sterling Gentran:Server® for UNIX GENCOD User Guide	Instructions for mapping and translating GENCOD files with the Application Integration system.
IBM® Sterling Gentran:Server® for UNIX VDA User Guide	Instructions for mapping and translating VDA files with the Application Integration system.
IBM® Sterling Gentran:Server® for UNIX Technical Reference Guide	Describes processes, lists command-line commands in alphabetical order, and describes file record layouts and data type formats.
IBM® Sterling Gentran:Server® for UNIX - EC Workbench Data Flow Administration Guide	User instructions for configuring data flows using the Sterling Gentran:Server software.
IBM® Sterling Gentran:Server® for UNIX - Process Control Manager Data Flow Administration Guide	User instructions for configuring data flows using the Sterling Gentran:Server software.
IBM® Sterling Gentran:Server® for UNIX Maintenance and Troubleshooting Guide	Instructions for maintaining your Sterling Gentran:Server installation. Also provides troubleshooting information to help determine the cause and solution of problems that may occur.
IBM® Sterling Gentran:Server® for UNIX - Workstation Maintenance and Troubleshooting Guide	Instructions for maintaining your workstation installation. Also provides troubleshooting information to help determine the cause and solution of problems that may occur.
IBM® Sterling Gentran:Server® for UNIX XML Translation User Guide	Instructions for mapping and translating XML files with the Application Integration system.

Document	Description
IBM® Sterling Gentran:Server® for UNIX FTP Daemon User Guide	Instructions for configuring and using the FTP Daemon tool with IBM® Sterling Gentran:Server® for UNIX.
Online Help	Context-sensitive help screens describing the Sterling Gentran:Server dialog boxes and features. Also includes procedures for using the mapping and translation and the data flow administration software.

Other documentation

This table lists other types of documentation you can refer to when developing and maintaining your system.

Description	Source
Instructions for using the operating system on your computer	Documentation provided by your hardware vendor and the computer manufacturer
Information about setting up your modem for Advanced Data Distribution operations	Documentation provided with your modem hardware
Information about installing and using Cleo A+ or Cleo 3780Plus communications software	Documentation provided with your Cleo A+ or Cleo 3780Plus communications software

Documentation Conventions

Typographic conventions

This table describes the typographic conventions used in this guide.

Convention	Use
Italics	This typeface is used for titles of other manuals and documents, and for names of files and file extensions. **Example** *IBM® Sterling Gentran:Server® for UNIX - EC Workbench Data Flow Administration Guide*
Bold	Bold type is used for program names, menu names, and characters entered onto a screen. **Example** A **password** is a set of characters a user must enter to gain access to a system.
<Angle brackets>	Angle brackets indicate variable information, such as a file name that you defined. **Example** <scriptname>.scr

Symbols used within syntax statements

This table describes symbols used within syntax statements.

Symbol	Use
< >	Substitute a value for any term that appears within angle brackets. Do not enter angle brackets unless specifically told to do so. **Example** **rm** <filename> means that you should type the name of the file you want to delete.
{ }	Braces indicate a required part of a statement. Do not enter the braces. **Example** {-f <filename>} means you must enter the f parameter followed by a filename.

Symbol	Use
[ ]	Brackets indicate an optional part of a statement. Do not enter the brackets. **Example** [-f <filename>] means you could type the f parameter followed by a filename, but you are not required to do so.
…	An ellipse indicates that the immediately preceding item can be repeated indefinitely. Do not enter the ellipse. **Example** -e… means that you can repeat -e with other values.
( )	Parentheses should be entered as shown. They are part of the syntax of a statement and are not special symbols. **Example** (n) means that you should type a number enclosed by parentheses.

How to Get Help

Introduction

This topic explains how to contact IBM Customer Support if you need assistance with Sterling Gentran:Server.

Scope of Support Services

IBM Customer Support can provide assistance and information for the following:

- Installing Sterling Gentran:Server
- Sterling Gentran:Server product questions
- Software revisions and upgrades
- Implementing a specific feature
- How to use Sterling Gentran:Server
- The status of your support call
- Requests for product enhancements

Unfortunately, IBM Product Support cannot assist you with problems involving the following, but we may be able to suggest a next step or another vendor to call:

- Your hardware
- Your operating system or other system software
- Your application or user-written programs
- Software not developed by IBM
- Scripts written by IBM consultants or service partners

Try this first

Before you call IBM Product Support, use your online software manuals to locate the section that documents the program or feature where you are having problems. The documentation may explain the software's behavior or give you insight to help you solve the problem.

Consult the *IBM® Sterling Gentran:Server® for UNIX Maintenance and Troubleshooting Guide* to learn if your specific problem has been addressed.

Copy this page

Make a copy of this page to enable you to contact support quickly and with complete information for the Customer Support Representative.

Necessary information

Be ready to provide this information when you call Customer Support.

Your name
Your company name
Your telephone number
Your Sterling Gentran:Server version number
Your Sterling Gentran:Server product and platform
Any software add-ons to your Sterling Gentran:Server system
A detailed description of the problem

The sequence of steps that led to the problem
What actions you have taken to try to diagnose or resolve the problem

CHAPTER
1

Getting Started

Contents

Overview

In this chapter

This chapter describes:

- The Advanced Data Distribution system
- Special installation steps
- Procedures for accessing and exiting the system.

Key terms

This table lists the key terms used in this chapter.

Term	Description
environment variable	A variable that sets a directory or defines which shell, commands, or programs are to be used.
firewall	A software application that controls access from an external network to an internal network, protecting the internal network from possible hostile action.
mailbox	A directory that holds files sent to or sent from a mailbox owner.
trading partner	A company, division, or group with which you exchange business data electronically.

Advanced Data Distribution

The Advanced Data Distribution system is an optional add-on module to your Sterling Gentran:Server Data Flow Administration software. It is included with IBM® Sterling Gentran:Server® for UNIX and works with both stand-alone UNIX operating systems and with client/server systems.

Description

The Advanced Data Distribution product enables you to create **mailboxes** for your trading partners and for internal users. These mailboxes enable you to direct outgoing files into a directory established for a trading partner and enable a trading partner to send files to you. The system operates like a Value Added Network (VAN) mailbox, but has faster response times.

You can use the Advanced Data Distribution system to:

- Establish direct links to your trading partners
- Communicate with both trading partners and VANs.

Dial-in access

Your trading partners access the Advanced Data Distribution system with dial modems to send and retrieve files. The Advanced Data Distribution modem files are designed for dialing in, but not for dialing out. This means that you cannot use the system to dial out and send mail or messages to a mailbox owner.

Communications

The Advanced Data Distribution package includes communications tools that support both synchronous and asynchronous dial modems. The package is designed to work with Interface Systems' Cleo A+ to establish asynchronous communications and with Cleo 3780Plus for synchronous communications.

WARNING

The Cleo A+ and Cleo 3780Plus software products are not part of the product. You must purchase them separately.

System security

Advanced Data Distribution has stringent security safeguards. The system has a **firewall** between the Advanced Data Distribution components and the UNIX shell. This means users cannot access a UNIX shell or any UNIX commands from the Advanced Data Distribution system.

There are no back doors in the system. If the external user (a trading partner, for example) attempts to break out of a session or break into the machine, the session terminates and the connection is severed.

Data security

To ensure data security, you assign a mailbox to each trading partner, VAN, and user that you want to use the Advanced Data Distribution system. Mailbox owners can pass data to or retrieve data from their own mailboxes only.

Mailbox owner security

To provide user security, you assign individual passwords to each mailbox owner.

Installation

Introduction

The Advanced Data Distribution files are automatically installed during Sterling Gentran:Server installation. However, during installation, you may need to complete two additional tasks:

- Set environment variables to enable your Advanced Data Distribution system
- Install the communications software.

References

See the *IBM® Sterling Gentran:Server® for UNIX Getting Started Guide* for basic installation instructions.

See the documentation provided with your communications software for instructions on how to install the communications package.

Setting the environment variables

These are the Advanced Data Distribution environment variables:

- EDI_MAILBOX
- EDI_MAILDET.

EDI_MAILBOX

EDI_MAILBOX is the directory that contains your Advanced Data Distribution product files, and is usually set to **mb**.

Examples

This table contains examples of how to set the EDI_MAILBOX environment variable.

C shell	setenv EDI_MAILBOX $EDI_ROOT/mb
Bourne or Korn shell	EDI_MAILBOX=$EDI_ROOT/mb export EDI_MAILBOX

WARNING

If you do not set the EDI_MAILBOX variable, the Advanced Data Distribution system will not work.

EDI_MAILDET

If your organization plans to maintain Life Cycle data for Advanced Data Distribution activity, you must set the EDI_MAILDET environment variable. EDI_MAILDET is the directory to which Advanced Data Distribution Life Cycle

detail is sent. This variable enables the system to create the Advanced Data Distribution Life Cycle file.

Examples
This table contains examples of how to set the EDI_MAILBOX environment variable.

C shell	setenv EDI_MAILDET $EDI_ROOT/mb/lc
Bourne or Korn shell	EDI_MAILDET=$EDI_ROOT/mb/lc export EDI_MAILDET

Installing the communications software

The Advanced Data Distribution system is designed to work with Interface Systems' Cleo A+ to establish asynchronous communications, and with Cleo 3780Plus for synchronous communications.

WARNING

The Cleo A+ and Cleo 3780Plus software is not part of the Sterling Gentran:Server product and must be installed separately.

Reference
See your Cleo documentation for installation instructions.

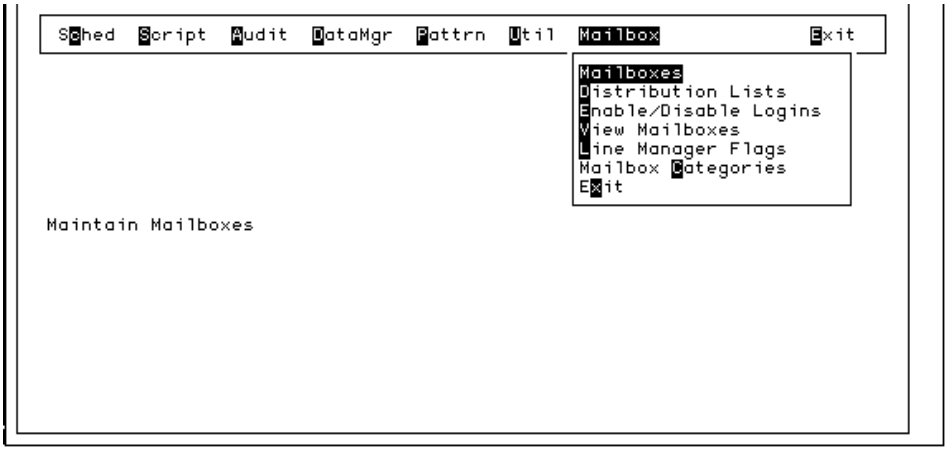
The Mailbox Menu

Introduction

The **Mailbox** menu is the starting point for mailbox tasks.

Illustration

This is the **Mailbox** menu.



Options

This tables describes the menu options.

Option	Function
Mailboxes	Set up and copy new mailboxes, view documents in a mailbox, delete a mailbox, set mailbox passwords, and access a line manager configuration file.
Distribution Lists	Group mailboxes into distribution lists.
Enable/Disable Logins	Enable or disable a mailbox owner's ability to log in, or remove more than one mailbox at a time.
View Mailboxes	View the inbound and outbound contents of a mailbox.
Line Manager Flags	Define the line manager prompts you want to appear on the Sterling Gentran:Server Mailbox screen. These prompts determine the type of data a mailbox accepts.

(Contd) Option	Function
Mailbox Categories	Establish mailbox categories so that you can group mailboxes and apply a common action to all mailboxes in the category at once.
Exit	Leave the Advanced Data Distribution system.

How to Access and Exit the Menu

Introduction

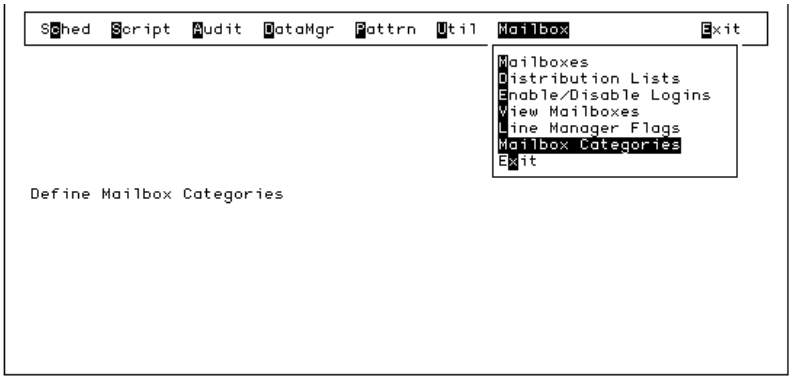
The Advanced Data Distribution system is part of your IBM® Sterling Gentran:Server® for UNIX software.

Reference
See the *IBM® Sterling Gentran:Server® for UNIX - EC Workbench Data Flow Administration Guide* for information about your host software.

Accessing the system

Use this procedure to access the Advanced Data Distribution system.

Step	Action
1	If Sterling Gentran:Server is not running, double-click on the Sterling Gentran:Server icon to start the system.
2	◗ Open a telnet/ssh client session to the server. ◗ From the $EDI_ROOT directory, run the program "server". **System Response** The system displays a “connecting to Server” message and then displays the copyright screen.

(Contd) Step	Action
3	Press any key on the keyboard. **System Response** The system displays the host main menu.  **WARNING** **If you receive the message "server: command not found" check the PATH to make sure it contains $EDI_ROOT and $EDI_ROOT/bin.**
4	Select **Mailbox** from the host main menu. **System Response** The system displays the **Mailbox** menu. 

Exiting the system

To exit the system, select **Exit** from the Workbench main menu.

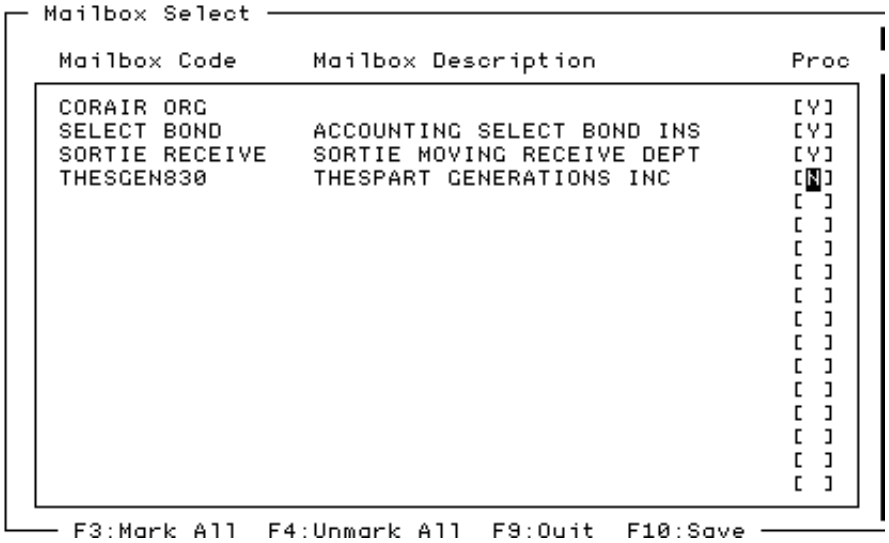
How to Use Function Keys to Initiate an Action

Introduction

Sterling Gentran:Server Advanced Data Distribution screens have a row of function keys listed near the bottom of the screen. Use these keys to perform a function or to take action on an item you've selected.

Example

This example shows the function keys on the Mailbox Select screen.



Press F4 to unmark all the marked mailboxes.

CAUTION

For the VT100 terminal emulator, you must use the ESC key with numeric keys in place of the function keys. Press the ESC key, release it, and then press the numeric key.

Function Key	VT100 Keys
F1- F9	ESC 1 - ESC 9
F10	ESC 0

CHAPTER
2

System Components and Processes

Contents

Overview

Introduction

In this chapter

This chapter describes the components of the Advanced Data Distribution system and the major processes that take place when the system is operating.

Key terms

This table lists the key terms used in this chapter.

Term	Description
communication job file	A script (mailbox.A+ or abcnet.job) that contains communication instructions. The job file passes information between the modem and the *checkit* shell script.
communications protocols	The executable communications files, A+ and 3780Plus, that contain a set of rules regarding message exchange.
checkit	The UNIX shell script that interprets job file commands.
data manager	An intelligent agent.
foreground manager	The parent data manager of all other data managers.
initialization file	The configuration file that determines the data manager's mode of operation.
Life Cycle	The subsystem that creates an historical record of Advanced Data Distribution system operations.
line manager	A data manager designed specifically to start and stop Advanced Data Distribution sessions.
line manager script	The script that initializes the line manager directories for operations.
port	A hardware device on a computer or peripheral that allows data to flow in and out of the computer.
script manager	The agent that launches scripts.
state machine	A device, such as a script, that alters operation modes.

(Contd) Term	Description
terminal handler	The handler that processes customized instruction sets.
tty handler	A UNIX terminal handler that controls the terminal port and transmissions.

Components

Overview

Introduction

The Advanced Data Distribution system has a number of components, some of which are supported by third-party products.

Component summary

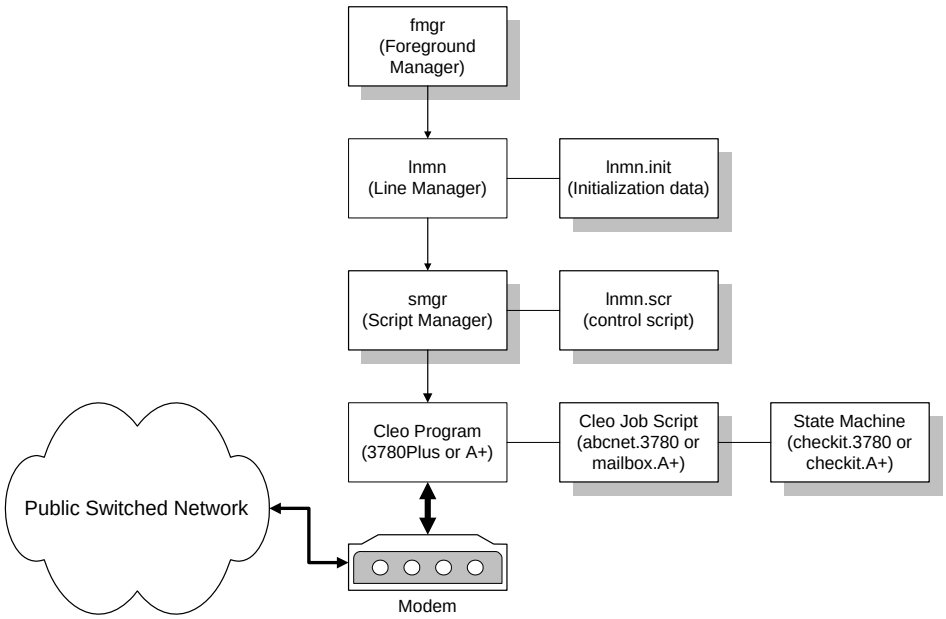
This table summarizes the components of the Advanced Data Distribution system and their functions.

Component		Functions
Line Manager Async modem	Line Manager Sync modem	◗ Starts a session. ◗ Signals processes to stop.
tty	tty	◗ Tells the computer how to handle the modem line (type of line, baud rate, etc.).
A+	3780Plus	◗ Supports communications protocols.
job mailbox.A+	job abcnet.job	◗ Sends wake-up calls to the modems. ◗ Sends state information to the *checkit* shell script, *checkit.A+* or *checkit.3780*.
checkit.A+	checkit.3780	◗ Interprets and responds to LOGON, LOGOFF, SEND and RECEIVE commands that the job file passes to it. ◗ Invokes **opmail**.

(Contd) Component	Functions
opmail	◗ Checks logon IDs and passwords. ◗ Registers files. ◗ Moves files into and out of Advanced Data Distribution directories.
Mailbox	◗ Contains directories that hold the Advanced Data Distribution files.

Flow diagram

The following diagram illustrates the flow between the Sterling Gentran:Server host system and the dial-in modem.



Line Manager

What is a line manager?

A line manager is a data manager that starts and stops Advanced Data Distribution processes. The line manager's job is to handle the communications session.

Line manager functions

A line manager performs several tasks:

- Starts the communications executable file
- Notifies the communications executable file to stop
- Periodically checks the communications job to ensure that modem operations are running properly
- Starts cleanup of the operations directory if the communications should terminate unexpectedly
- Stops the communications process if the process has not stopped by the end of the grace period set in the line manager's initialization file.

How many line managers do you need?

You need a line manager for each serial line (port) dedicated to dial-in use. That is, you must have one line manager per modem.

The line manager's personality

The type of modem communications (asynchronous or synchronous) determines the personality of the line manager. Your Advanced Data Distribution system provides one template line manager for each personality:

- alnm for asynchronous
- slnm for synchronous.

The line manager's initialization file

The line manager's initialization file contains the names of the directories and scripts involved in the line manager's operation. You modify the parameters in the file to configure your system.

Reference

See the *IBM® Sterling Gentran:Server® for UNIX - EC Workbench Data Flow Administration Guide* for more information about data manager initialization files.

Example 1
When you set up Advanced Data Distribution communications for a modem, you enter the port name in the LM_RUN_DIR parameter so that port is configured as the run directory.

Example 2
You enter the path name to the communications executable file (A+ or 3780Plus) in the LM_EXEC_LINE parameter so that the line manager knows where to find the file it is to execute.

The line manager script

The script *lnmn_ainit.scr* (async) or *lmnm_binit.scr* (bisync), where *lnmn* is the name of the line manager, initializes the line manager directories for operations. This script resides in the SCRIPT directory.

The line manager's operation directory

The line manager uses the line definition directory (**tty**) port address directory as its configuration and communications operation directory. The operations for a session are posted here while the session is running.

After the session concludes, the session activity is posted to the Advanced Data Distribution main directory, **mb**, and subordinate user directory.

Reference
See the "Working With Mailboxes" chapter in this guide for information about user directories.

UNIX Terminal Handlers (tty)

Definition

A **tty handler** is a UNIX terminal handler that controls the terminal port and transmissions.

The handler is in a UNIX configuration that tells the computer the:

- Terminal port line number the modem is connected to
- Modem's communication settings (such as the baud rate).

Port settings

Your UNIX system administrator sets the port in the *etc/inittab* file.

Role in stopping a line manager

If you stop a line manager, it stops processes by modifying a file in the run directory of the **tty** handler. This forces the communications session to shut down.

Communications Protocols (A+, 3780Plus)

Definition

The **communications protocols** are the executable communications files, A+ and 3780Plus. Each file contains a set of rules regarding message exchange.

- Interface System's Cleo 3780Plus supports synchronous 3780 protocols.
- Interface Systems' Cleo A+ supports asynchronous protocols such as Kermit, Xmodem, Ymodem, and so on.

A+ configuration file

The Cleo A+ configuration file, *A+.CFG*, contains the complete path to the serial port. When you set up Advanced Data Distribution communications to an asynchronous modem, you must modify this file so that it points to the correct port.

Reference
See the topic "How to Modify the A+.CFG and xlatin.ovr Files" in the "Setting Up Your System" chapter for instructions on modifying these files.

3780Plus configuration file

The default setting for the 3780Plus configuration file is for v. 32/42 communications. Therefore, you do not have to modify the file.

WARNING

Modification of this file can affect the performance of the communication session.

Communication Job Files (mailbox.A+, abcnet.job)

Definition

A communication job file is a proprietary script that passes information between the modem and the *checkit* shell script.

Job file functions

Job files:

- Operate in a loop process, periodically sending the modem a wake-up call and waiting for a response
- Keep the port open and send state information (for example, receive logon, receive commands, receive files) to the *checkit* shell script
- Respond to instructions that *checkit* sends after this script checks the state
- Respond to shutdown messages. When you stop processes through a line manager, it drops off a stop file to **tty**. This file causes the job file to stop.

Checkit.A+ and Checkit.3780 UNIX Shell Scripts

Functions

The ***checkit* UNIX shell scripts**, *checkit.A+* for async communications or *checkit.3780* for synchronous communications, are UNIX shell scripts that have several functions:

- Interpret commands received from the job file
- Place data files in a data manager's processing queue (rather than in a scan directory)
- Determine the file types your organization accepts (for example, EDI, X12, ANSI, or PROP for proprietary) and check the line manager flags of the destination mailbox to determine whether the file type can come into the mailbox
- Invoke the **opmail** program to exchange data with a mailbox owner's mailbox and to confirm file types
- Set the file transfer methods.

Other possible uses

You can configure the *checkit* shell script (*checkit.A+* or *checkit.3780*) to reject calls during the grace period.

Where to find the *checkit* scripts

The *checkit* scripts reside in the line manager's directory. Each line manager typically has its own *checkit* script.

The Standard Commands

Introduction

The *checkit* shell scripts are configured to recognize a standard set of commands. These are the commands that a mailbox owner uses during a dial-in session.

Commands

These are the standard commands that the *checkit* shell script recognizes:

- LOGON
- LOGOFF
- RECEIVE
- SEND
- DIR
- SETPASS
- REQUEUE
- SAVED

Command structure

This is the command structure:

CMD_START COMMAND ARG1 ... ARGn CMD_END

Part	Description
CMD_START	A command start delimiter
COMMAND	The command, which can have an alias
ARG1	The first argument to the COMMAND, if any
ARGn	The nth argument to the COMMAND, if any
CMD_END	A command end delimiter

Command components

This table lists each standard command, its structure, and its components.

Command	Description/Structure/Components	
LOGON	Connect to the Advanced Data Distribution system. CMD_START LOGON USERID PASS CMD_END	
	LOGON	The configurable LOGON command.
	USERID	The user ID of the mailbox owner.
	PASS	The mailbox owner's password.
PROTOCOL	The protocol for asynchronous file transfer (Asynchronous only). CMD_START PROTOCOL K/Y/T CMD_END	
	PROTOCOL	The configurable PROTOCOL command.
	K	The Kermit protocol.
	Y	The Ymodem protocol.
	T	Text.
RECEIVE	Receive DATATYPE file. CMD_START RECEIVE DATATYPE CMD_END	
	RECEIVE	The configurable RECEIVE command.
	DATATYPE	The name of the file type to receive.
SEND	Send DATATYPE file. CMD_START SEND DATATYPE CMD_END	
	SEND	The configurable SEND command.
	DATATYPE	The name of the file type to be sent.
DIR	Request for a list of files ready to be received. CMD_START DIR CMD_END	
	DIR	The configurable DIRECTORY command

(Contd) Command	Description/Structure/Components	
SETPASS	Change the mailbox owner's password. CMD_START SETPASS OLDPASS NEWPASS CMD_END	
	SETPASS	The configurable SET PASSWORD command.
	OLDPASS	The mailbox owner's current password.
	NEWPASS	The mailbox owner's new password.
REQUEUE	Requeue previously received Advanced Data Distribution files. There are four requeue options: ◗ Requeue files of a specified file type within a date range ◗ Requeue all files within a date range ◗ Requeue files picked up in the specified mailbag ID ◗ Requeue all files received prior to a specified date. CMD_START [REQUEUE DATATYPE BEGINDATE ENDDATE] [ALL BEGINDATE ENDDATE] [MBAG MBAGID] [PRIOR YYMMDD] CMD_END	
SAVED	The file transfer was successful (Asynchronous only). CMD_START SAVED CMD_END	
	SAVED	The configurable SAVED command.
LOGOFF	Disconnect from the Advanced Data Distribution system. CMD_START LOGOFF CMD_END	
	LOGOFF	The configurable LOGOFF command.

Opmail

Purpose

The program **opmail** interfaces the Advanced Data Distribution communications operations and Sterling Gentran:Server scripts with the users' mailboxes.

Functions

Opmail performs the following tasks:

- Validates the mailbox owner's logon and password
- Directs files to and from the users' Advanced Data Distribution directories
- Registers inbound and outbound files as queued or dequeued
- Changes the mailbox owner's password
- Upon request, lists inbound and outbound files queued to the mailbox owner's directory
- Checks yes/no flags in the mailbox owner's definition directory to determine acceptable file types or transfer methods for inbound and outbound files or operations
- Registers the mailbag ID and date and time of the last mailbox owner session for each individual mailbox owner in the *mboxrf.idx* file
- Clears from mailboxes data that exceeds the retrieval period.

Return codes

If **opmail** runs successfully, it returns a zero value; if it fails, it returns a nonzero value. The *checkit* shell script monitors these return values.

Location

Opmail resides in the $EDI_ROOT/bin directory.

Invocation

Opmail is normally invoked from the *checkit.A+* or *checkit.3780* shell script, but you can configure the line manager or a script to invoke it. You can also run some **opmail** commands from the command line. Some **opmail** commands are run only from the command line.

Reference

For detailed information about opmail see the Miscellaneous Tasks chapter in this guide.

Processes

Data Tracking

The mailbag identification code

The Advanced Data Distribution system routes files by file links. This means the files are not copied. The Advanced Data Distribution system uses the **mailbag identification code** to track a data file throughout its life in Sterling Gentran:Server.

The system labels the session and all data files passed during the session with this code. As the files are processed and transformed, the code is passed along. Thus, this code uniquely identifies the session and the data files passed in the session throughout their lives in Sterling Gentran:Server, regardless of what happens to them.

CAUTION

You can refer to this code when you requeue the files for retransmissions within their retrieval period.

How the code is generated

The Advanced Data Distribution system **genmbid** utility generates this unique code when the system identifies an individual file or a group of files received in a session.

Code structure

The mailbag identification code is a 6-character, base-32 code. Base 32 is used to encode a large number in fewer digits. Numerals 0-9 reflect values 0-9. Characters A-V reflect values 10-31. Uppercase letters are used because some host environments do not support lowercase letters in reports or logs.

Other names for the mailbag identification code

The mailbag identification code is also known by these names:

- mbagid
- mailbag receipt code
- mailbag sender code.

Reason for multiple names

When a mailbox owner picks up one or more files from the *togo* directory during a session, the system generates and assigns the **mailbag receipt code** to the files.

After receiving all files and ending the session, the system provides this code in the session statistics or log.

When a mailbox owner drops off one or more files in the *toco* directory during a session, the system assigns the **mailbag sender code** to the files. The system provides this code in the session statistics or log at the end of the session.

Either the mailbag sender code or mailbag receipt code becomes the **mailbag identification code** and is used in the file name according to the Mailbag Identification Filename Convention.

About the Mailbag Identification Filename Convention (MIFC)

The Mailbag Identification Filename Convention (MIFC) is a convention for naming files that pass through the Advanced Data Distribution system. A file name is composed of three parts separated by periods:

<prefix>.<mbagid>.<uniqueid>

MIFC parts descriptions

This table describes the parts of the Mailbag Identification Filename Convention.

Part	Description
<prefix>	The file recognition convention you use to distinguish data for processing and routing purposes. These are set in the *checkit* shell script. The maximum size is five characters. **Examples** EDI MAIL udf prop1 **Reference** See the How to Modify the checkit Script topic in the Setting Up Your System chapter in this guide for more information.
<mbagid>	The 6-character mailbag identification code that identifies the Advanced Data Distribution session. The code is either the mailbag sender code or mailbag receipt code that the **genmbid** utility generated. **Reference** See the How to Generate a Mailbag ID Code topic in the Miscellaneous Tasks chapter of this guide for information about the **genmbid** utility.
<uniqueid>	An optional suffix on the file name. Its purpose is to distinguish the file from the other files in the session labeled mbagid. The **genuniqid** utility of Sterling Gentran:Server generates the uniqueid. The suffix is 9 digits on routed file names. If you run **genuniqid** from the command line, the suffix is 6 digits. You can use the -d option with the **genuniqid** command on the command line to produce a 9-digit suffix.

CAUTION

To avoid concurrency issues, Sterling Gentran:Server sometimes changes the file *prefix* and *uniqueid* when the file is modified, translated, or parsed during processing. However, as long as the MBAG_CONSTRUCT flag is turned on in the line manager's initialization file, the mbagid remains the same for any resulting files. A consistent mbagid enables you to track a file fully throughout its life in the system.

The Send Process

Introduction

An external mailbox owner (your trading partner) initiates a session by dialing up and sending a LOGON command. You automate this process with the pre-configured script provided with your Advanced Data Distribution system software.

Sequence of operations in a send session

This table describes what happens when an external mailbox owner sends a file.

Stage	Description	
1	External mailbox owner dials and sends a LOGON command.	
2	The Advanced Data Distribution system generates a mailbag identifier (mbagid) and saves it to a file.	
3	The job communication file reads the file and passes it to *checkit*.	
4	*Checkit* examines the user ID and password and passes them to **opmail**.	
5	**Opmail** checks the master file register, *mboxfr.idx*. To check the password, **opmail** encrypts the password and compares it to the encryption in the register.	
6	**IF the user ID and password are…**	**THEN…**
	In the master file register	**opmail** returns 0 (success) to *checkit*. Continue with Stage 7.
	Not found in the master file register	**opmail** returns 1 (failure) to *checkit* and disconnects the modem.
7	*Checkit* instructs the job file (*Mailbox A+* or *abc.net*) to receive another command.	
8	The mailbox owner issues a SEND command to send files.	

<table>
<tr><th>(Contd) Stage</th><th colspan="2">Description</th></tr>
<tr><td>9</td><td colspan="2">When the Advanced Data Distribution system receives a file, checkit:
Checks the file type prefix (for example, EDI, X12, ANSI) against the file types names set in the checkit shell for validity
Checks the line manager flags set in the mailbox owner's mailbox record. The flags tell the system the types of files your organization accepts from the mailbox owner.</td></tr>
<tr><td rowspan="3">10</td><td>IF the file is…</td><td>THEN…</td></tr>
<tr><td>Acceptable</td><td>Checkit collects and registers the file or files in the file register mboxfr.idx and passes them to opmail.</td></tr>
<tr><td>Not acceptable</td><td>Rejects the file.</td></tr>
<tr><td>11</td><td colspan="2">Opmail renames the file, giving it a suffix that genuniqid generated, and registers the files in the Advanced Data Distribution file register, mboxfr.idx.</td></tr>
<tr><td>12</td><td colspan="2">Opmail routes the files to the mailbox owner’s toco directories.
Note
You can have another process route the files to the toco directories.</td></tr>
<tr><td>13</td><td colspan="2">Checkit can be called to issue the mailbox owner a received message.</td></tr>
<tr><td>14</td><td colspan="2">The mailbox owner sends a LOGOFF command.</td></tr>
<tr><td>15</td><td colspan="2">Checkit generates a session termination message.</td></tr>
<tr><td>16</td><td colspan="2">The line manager instructs the modem to disconnect.</td></tr>
</table>

Example session

This table shows a sample session in which the mailbox owner sends a file and receives a file.

Command		Line manager or *checkit*
LOGON card	---------->	verified OK, line stays up
SEND DATATYPE	---------->	verified OK, prepare to receive DATATYPE file
DATATYPE file	---------->	DATATYPE file received
RECEIVE DATATYPE	---------->	verified OK, prepare to send DATATYPE file
DATATYPE received	---------->	DATATYPE file
LOGOFF	<----------	verify OK, prepare termination message
termination message	---------->	termination message
	<----------	

CAUTION

The termination message contains details about the session logon acceptance, send and receive notices, and mailbag identification codes. All the messages are defined in the *checkit* UNIX shell and can be modified.

The Receive Process

Introduction

Mailbox owners dial in to retrieve files from their mailboxes. To do this, the mailbox owner sends a RECEIVE command.

Sequence of operations in a receive session

This table describes the sequence of operations in a typical RECEIVE session.

Stage	Description	
1	External mailbox owner dials in.	
2	The mailbox owner sends a LOGON. **System Response** The system generates a mailbag identifier (mbagid) and saves it to a file.	
3	The job communication file reads the file and passes it to *checkit*.	
4	*Checkit* examines the user ID and password and passes them to **opmail**.	
5	**Opmail** checks the user ID and password against the master file register, *mboxfr.idx*. To check the password, **opmail** encrypts the password and compares it to the encryption in the register.	
6	**IF the user ID and password are…**	**THEN…**
	In the master file register	**opmail** returns 0 (success) to *checkit*. Continue with Stage 7.
	Not found in the master file register	**opmail** returns 1 (failure) to *checkit*. The file is not registered. An error message is sent to the mailbox owner.
7	*Checkit* instructs the job file (*Mailbox A+* or *abc.net*) to receive another command.	

(Contd) Stage	Description
8	The mailbox owner issues a RECEIVE command for files. The mailbox owner can request all files of a particular type (for example, EDI, X12, ANSI) or extend the file prefix to request certain types of files (for example, EDI810 to request only EDI 810 documents).
9	*Checkit*: ◗ Collects the files from the mailbox owner's *togo* directory ◗ Copies the files to the mailbox owner's *gone* directory ◗ Issues an **opmail** command to queue the files to the modem directory.
10	The system transmits (via the modem) the requested files to the mailbox owner.
11	**Opmail** deletes the files from the modem directory and moves files into the mailbox owner's *gone* directory. **Comment** The files remain in the mailbox owner's *gone* directory until the retrieval period expires.
12	After the retrieval period expires, **opmail** issues the -c (cleanup) command with a date and time argument that specifies the file expiration date and time. **CAUTION** **In this example, we invoke the opmail program with the -c argument from the longterm script in the Permanent Schedule. Your organization can use a different script.**
13	The cleanup command removes: ◗ The files that have an expired retrieval period from the mailbox owner's *gone* and *came* directories. ◗ The file entries from the file register, *mboxfr.idx*.

CAUTION

If no EDI files are present in the mailbox owner's *togo* directory, the Advanced Data Distribution system sends the mailbox owner a "No Files" message.

Example of a Successful Send/Receive Session

This is an example of a successful send/receive session.

joeuser		modem		line manager		*checkit* shell		System
		wait call		wait call				
dials in	--->	carrier up		initialization		initialization		
send LOGON	--->	pass data	--->	text received	--->	check logon/ password - accept logon, generate mbagid		
SEND EDI file command	--->	pass data	--->	text received	--->	interpret command		
		carrier up		wait	<--	ready for file		
xmodem send	--->	pass data	--->	text received		wait recv file		
good send EDI file		carrier up		good receive	--->	register file, route to data manager	--->	./toco/ file.mbagid
RECEIVE EDI file command	--->	pass data	--->	text received	--->	interpret command		
		carrier up		wait	<--	look for EDI files	--->	./togo/EDI.*
xmodem received EDI file	<--	pass data	<--	text send	<--	pass file	<--	./togo/EDI.*
good received EDI file		carrier up		good send	--->	dequeue file	--->	mv ./togo/ EDI.* ./ gone/EDI.*
LOGOFF command	--->	pass data	--->	text received	--->	interpret command		

xmodem received	<- --	pass data	<- --	text send	<- --	session termination message
hang up		hang up	<- --	hang up modem	<- --	terminate
		reset		reset		
		wait call		wait call		

Example of a Failed Logon Session

This is an example of a logon session that failed.

Trading Partner		modem		line manager		*checkit* shell
		wait call		wait call		
dials in	--->	carrier up		initialization		initialization
send LOGON	--->	pass data	--->	text received	--->	checks logon/ password
rejected	<--	pass data	<--	text send	<--	rejects logon message
dropped	<--	hang up	<--	hang up modem	<--	force disconnect
		reset		send administration notice of failure		
				reset		
		wait call		wait call		

Life Cycle

The Life Cycle Process

Introduction

Advanced Data Distribution processes create event records that detail where the data came from, where it went, and what time it happened. You can load these event records to a relational database.

Reference
See the *IBM® Sterling Gentran:Server® for UNIX - EC Workbench Data Flow Administration Guide* for more information about the Life Cycle feature.

Events that generate Life Cycle data

Advanced Data Distribution Life Cycle entries come from:

- **Opmail** operations
- Administrative activities
- Data manager operations
- Line manager operations
- Queuing and dequeuing operations
- Cleanup operations.

Contents of Life Cycle entries

Life Cycle entries contain the:

- Mailbag ID (mbagid)
- File name
- User ID
- Date/time stamp.

Stage table

This table describes the Advanced Data Distribution Life Cycle process.

Stage	Description
1	The **opmail** start-session command opens Life Cycle files.
2	The Advanced Data Distribution system routes the Life Cycle information to the directory set in the EDI_MAILDET environment variable. **CAUTION** **To have Advanced Data Distribution record Life Cycle information, you must have the environment variable EDI_MAILDET set.**
3	The Oracle, Informix, or Sybase scripts *maildet.sh* load the data to the mail detail table: *maildet*. If you do not have a relational data base, you can load the data to a flat file.

Life Cycle Table

Introduction

The *maildet.sql* scripts in Oracle, Informix, and Sybase create the Advanced Data Distribution detail table, *maildet*.

Structure

This table describes the structure of *maildet*.

Table Item and Size	Description
char func[10]	Function LINE/ADMIN/DM
char user_id[20];	UNIX User ID
char ccyymmdd[9]	Date (CCYYMMDD)
char hhmmss[9]	Time (HHMMSS)
char op[25];	Kind of Operation
char mboxuid[16]	Mail Box User ID
char mbagid[7]	Mail Bag ID
char line_name[20]	Line Name
char line_type[20]	Line Type
char file_name[125]	File Name to be Mailed
char file_size[10]	File Size
char add_Info[50]	Additional Information

CHAPTER
3

Setting Up Your System

Contents

Overview

Introduction

In this chapter

This chapter explains how to configure the components of your Advanced Data Distribution system.

Key terms

This table lists the key terms used in this chapter.

Term	Description
category	A mailbox class or type.
checkit	A UNIX shell script that interprets commands posted to it.
Foreground Manager	The parent data manager of all the data managers and line managers in your system.
initialization file	The configurable file that sets the line manager's personality and processing parameters.
line manager	A data manager designed specifically to start and stop Advanced Data Distribution sessions.
line manager flag	A prompt used to indicate the type of data that a mailbox accepts.

The Flow of Work

Task summary

This table summarizes the setup tasks.

Task	Description
1	For each port dedicated to dialing in, copy an existing line manager (data manager type “l”) or one of the template line managers provided with your Advanced Data Distribution system.
2	Configure the new line manager’s initialization file to set the: ◗ Run directory ◗ Path to the communications executable file ◗ Name of the initialization script ◗ Other parameters specific to a line manager.
3	Start the new line manager to create the line manager directory.
4	Copy the Cleo communications files into the new line manager’s directory.
5	Modify the *checkit* shell script to include the file types your organization accepts and to set other processes.
6	Are you are setting up asynchronous communications? If yes, then: ◗ Modify the *A+.CFG* file to contain the complete path to the serial port ◗ Modify the *xlatin.ovr* file so that ASCII 13 carriage returns are translated to new line characters If no, then skip this step and continue with step 8.
7	Test the line manager.
8	Set the line manager flags to determine the type of data the mailbox accepts.
9	Create mailbox categories. (This is an optional task.)

Procedures

How to Copy a Line Manager

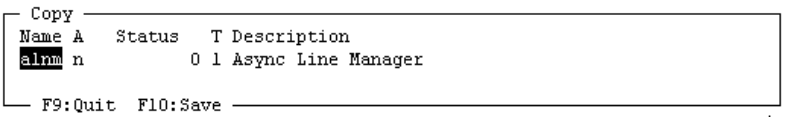
Introduction

You must create a line manager for each serial line (port) dedicated to dial-in use.

Procedure

Use this procedure to copy a line manager.

Step	Action
1	Select **DataMgr** from the host main menu. **System Response** Sterling Gentran:Server displays the Data Manager Control screen.
2	Select **fmgr**, the Foreground Manager.
3	Press F5 to display the Data Manager Configuration screen. **System Response** Sterling Gentran:Server displays the Data Manager Configuration screen, which lists the data managers subordinate to the Foreground Manager. Line managers have an "l" in the **Type** (T) column. dmc Data Manager Configuration Name A Status T Description alnm n 0 l Async Line Manager ap00 n 0 m Flow: Test Q! flow Source Agent ap01 n 0 m Flow: 'nother fifteen Translate Agent appm n 0 m Application Data Manager appt n 0 x Application Translator Data Manager arch n 0 a -Darch -Aarch -d0 base n 0 u Base Manager Model cfin n 0 i Flow: chris_flow Translate Agent dnld n 0 d UDF Data Manager edii n 0 i Inbound Data Manager edio n 0 i Outbound Data Manager file n 0 f File Data Manager hcmd n 0 h Host Command Card Data Manager in00 n 0 i Flow: flow Source Agent in01 n 0 i Flow: fifteen digits. Translate Agent in02 n 0 i Flow: test0505 Translate Agent in03 n 0 i Flow: happyhappyjoyjo Source Agent F3:Del F4:Copy F5:Edit F9:Quit

(Contd) Step	Action
4	Select the line manager or template line manager you want to copy. **Note** The template line managers provided with your Advanced Data Distribution system are: ◗ *alnm* for an asynchronous port ◗ *slnm* for a bisynchronous port.
5	Press F4 to copy the line manager. **System Response** Sterling Gentran:Server displays the Copy screen. 
6	Enter the name and description of the new line manager. **Example names** The name can be *tty#*, *alm#*, or slm#, where # is 0 to 9. **Example description** The description can be async port 2.
7	Press F10 to save your changes. **System Response** When you copy a line manager, Sterling Gentran:Server makes a copy of the copied line manager's initialization file, places it into the *conf.d* directory, and names it for the new line manager. The name of the file is <*lmname*>.*init*, where <*lmname*> is the name of the new line manager.

(Contd) Step	Action
8	Do you want to have your new line manager start automatically with fmgr, the Foreground Manager? ◗ If yes: — Return to the Data Manager Configuration screen for fmgr. — Select the new line manager. — Press F5. — Type **y** in the A (autostart) field. — Press F10 to save the changes. ◗ If no, skip this step.
9	Copy the old line manager's initialization (start-up) script, name it for the new line manager, and place it into the script directory. **Notes** If the script is for an asynchronous line manager, name the script <*lmname*>*_ainit.scr,* where <*lmname*> is the line manager's name. For a bisynchronous line manager, use <*lmname*>*_binit.scr*. You must enter this script name into the LM_INIT_MODEL parameter of the line manager's initialization file. **Reference** See the *Working With Scripts* chapter in the *IBM® Sterling Gentran:Server® for UNIX - EC Workbench Data Flow Administration Guide* for instructions on how to copy a script.

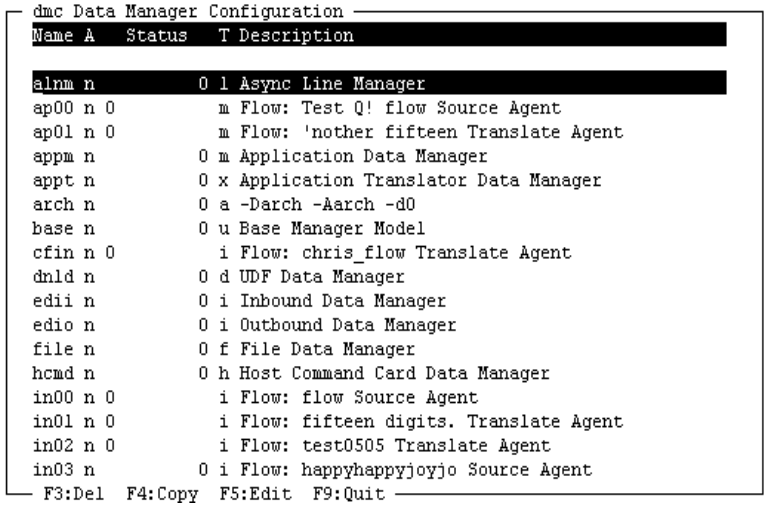
How to Configure the Initialization File

Introduction

The line manager's **initialization file** controls the directories, scripts, and files the line manager uses during processing.

Procedure

Use this procedure to configure the line manager's initialization file.

Step	Action
1	Select **DataMgr** from the host main menu. **System Response** Sterling Gentran:Server displays the Data Manager Control screen. This screen lists all the data managers that have been added to Sterling Gentran:Server.
2	Select **fmgr**, the Foreground Manager.
3	Press F5 to display the Data Manager Configuration screen. **System Response** Sterling Gentran:Server displays the Data Manager Configuration screen, which lists the data managers subordinate to the Foreground Manager. Line managers have an "l" in the **Type** (T) column. 

```
dmc Data Manager Configuration
Name A   Status    T Description

alnm n           0 l Async Line Manager
ap00 n 0           m Flow: Test Q! flow Source Agent
ap01 n 0           m Flow: 'nother fifteen Translate Agent
appm n           0 m Application Data Manager
appt n           0 x Application Translator Data Manager
arch n           0 a -Darch -Aarch -d0
base n           0 u Base Manager Model
cfin n 0           i Flow: chris_flow Translate Agent
dnld n           0 d UDF Data Manager
edii n           0 i Inbound Data Manager
edio n           0 i Outbound Data Manager
file n           0 f File Data Manager
hcmd n           0 h Host Command Card Data Manager
in00 n 0           i Flow: flow Source Agent
in01 n 0           i Flow: fifteen digits. Translate Agent
in02 n 0           i Flow: test0505 Translate Agent
in03 n           0 i Flow: happyhappyjoyjo Source Agent
 F3:Del  F4:Copy  F5:Edit  F9:Quit
```

<table>
<tr><th>(Contd) Step</th><th colspan="2">Action</th></tr>
<tr><td>4</td><td colspan="2">Select the name of the new line manager and then press F5 to edit the line manager.

System Response

Sterling Gentran:Server displays the Edit screen.</td></tr>
<tr><td>5</td><td colspan="2">Press F5 to edit the initialization file.

System Response

Sterling Gentran:Server calls the vi editor or the editor set in the $EDITOR variable and displays the default initialization file parameters.</td></tr>
<tr><td>6</td><td colspan="2">Edit these parameters:</td></tr>
<tr><td></td><td>Parameter</td><td>Description</td></tr>
<tr><td></td><td>LM_MODEL_DIR</td><td>Enter the name of the directory from which scripts required to run line manager processes are copied. The default is abcnet.</td></tr>
<tr><td></td><td>LM_INIT_MODEL</td><td>The name of the script that initializes the line manager directories for operations: either <lmname>_ainit.scr for asynchronous or <lmname>_binit.scr for bisynchronous, where <lmname> is the line manager’s name.</td></tr>
<tr><td></td><td>LM_RUN_DIR</td><td>Enter the name of the line manager. This tells Sterling Gentran:Server the name of the directory in which the line manager runs.

Example
LM_RUN_DIR tty2

Comment
Note that the name of the line manager is also the name of the port.</td></tr>
<tr><td></td><td>LM_TERMINATE</td><td>The name of the termination file created when Advanced Data Distribution receives a signal to stop the script named in LM_EXEC_LINE. The presence of this file triggers the script to stop. The default is terminate_file.</td></tr>
</table>

(Contd) Step	Action	
7	**Parameter**	**Description**
	LM_GRACE_SECS	The time (in seconds) after the line manager detects a signal from the Foreground Manager that a child process has to finish before the line manager stops it with a **kill** command. The default is 30.
	LM_EXEC_LINE	The path name to the communications executable file (A+ or 3780Plus). Enter the path on the line that follows LM_EXEC_LINE. **Example** LM_EXEC_LINE $EDI_ROOT/COMM/CleoA/A+
8	Exit the editor.	
9	Press F10 to save your changes.	

How to Start the New Line Manager

Procedure Use this procedure to start the new line manager.

Step	Action
1	Select the name of the new line manager on the Data Manager Control screen.
2	Press F8 to start the line manager. **System Response** Sterling Gentran:Server creates the directory for the support communications files and names the directory for the line manager. **Example** If the line manager is named tty2, the directory is named tty2.
3	Press F9 to exit the Data Manager Control screen.
4	Exit Sterling Gentran:Server.

How to Copy the Supporting Files

Introduction

For communications to work properly, you must copy several supporting files from the Cleo installation directory to the line manager's directory.

Procedure

Use this procedure to copy supporting files into the line manager's directory.

<table>
<tr><th>Step</th><th colspan="2">Action</th></tr>
<tr><td>1</td><td colspan="2">Exit the Sterling Gentran:Server host software and go to the UNIX command line.</td></tr>
<tr><td rowspan="4">2</td><td colspan="2">Use this table to decide which files to copy:</td></tr>
<tr><td>IF the new line manager is…</td><td>THEN copy these files from the Cleo installation directory to the line manager's directory…</td></tr>
<tr><td>asynchronous</td><td>A+.CFG

carrier

getinfo

strfuncs

all *.ovr files</td></tr>
<tr><td>bisynchronous</td><td>all *.ovr files and the file sc3780</td></tr>
<tr><td>3</td><td colspan="2">Use a UNIX copy command (such as cp) to copy the files from the abcnet directory to the new tty directory.

Example
cp /abcnet/*.ovr /tty</td></tr>
</table>

How to Modify the A+.CFG and xlatin.ovr Files

Introduction

If you are using asynchronous communications, you must modify the A+.CFG and xlatin.ovr files.

WARNING

This step applies to asynchronous communications only. If you are setting up bisynchronous communications, skip this task and continue to the next task, How to Modify the checkit script.

Modifying the A+.CFG File

Use this procedure to modify the *A+.CFG* file.

Step	Action
1	Change to the A+ mailbox directory. **Example** If the name of the A+ mailbox directory is tty2, enter: cd $EDI_ROOT/tty2
2	Edit the *A+.CFG* file. **Example** To edit the file in the vi editor, enter: vi A+.CFG
3	Modify the DEVICE line in the Port section to include the full path to the serial port. **Example** In the vi editor, enter: /DEVICE <ENTER> w C/dev/tty2 <ESC>
4	Save the file and close the editor. **Example** :wq <ENTER>

Modifying the xlatin.ovr file

Use this procedure to modify the *xlatin.ovr* file.

Step	Action
1	Open the *xlatin.ovr* file for editing. **Example** To edit the file in the vi editor, enter: vi xlatin.ovr
2	Modify the line that contains the number 13. **Example** In the vi editor, enter: /13 <ENTER> wC10 <ESC>
3	Save the file and close the editor.
4	Save the file and close the editor. **Example** :wq <ENTER>
5	Change to the main Sterling Gentran:Server directory. **Example** cd $EDI_ROOT

How to Modify the checkit Script

Introduction

You can modify the *checkit* script to set the file types your organization accepts and to change other settings.

Procedure

Use this procedure to modify the *checkit* script.

Step	Action
1	Open the *checkit.A+* or *checkit.3780* file. **Example** To open the *checkit.A+* file in the vi editor, enter: vi checkit.A+
2	Set the file types your organization accepts.
3	Make any additional changes. **Reference** The table below lists the item you can change.
4	Save the script and exit the editor.

What you can change

This table lists the items you may want to change.

Item	Description
Termination message	The termination message contains details about the session logon acceptance, send and receive notices, and mail bag identification codes. All the messages are contained in the *checkit* UNIX shell. You can change or augment them by editing the *checkit* script.
Calls during grace period	You can configure the *checkit* shell script (*checkit.A+* or *checkit.3780*) to not take any more calls during the grace period.
Commands	You can modify the shell script to change the generic commands. For example, instead of LOGOFF, you could use BYE. You can also modify the shell to add other operations.

(Contd) Item	Description
Check of file type	When a user sends a file, you can use *checkit* to determine the file type (edi, non-edi, proprietary, etc.). Once *checkit* knows the kind of file, it can invoke **opmail**. You can configure **opmail** to check the line manager flags of the destination mailbox to determine whether the file type can come in to the mailbox.
Received message	*Checkit* sends the mailbox owner a received message to acknowledge receipt of a file the mailbox owner sent. You can modify the text in this message.

How to Test the Line Manager

Introduction

To ensure that communications are set up properly, you should test the line manager.

Procedure

Use this procedure to test the line manager.

Step	Action	
1	Start the Sterling Gentran:Server host software.	
2	Select **DataMgr** from the host main menu.	
3	Select the name of the new line manager from the Data Manager Control screen.	
4	Verify that the Status field displays all asterisks.	
5	Press F8 to start the line manager. **Comment** It can take the line manager a few seconds to start, so you should pause briefly before continuing with the next step.	
6	Press F6 to update the **Status** field.	
	IF the line manager is…	**THEN…**
	Working	The **Status** field displays the process ID.
	Not running according to the status displayed in the **Status** field	Check the line manager's log file to determine the reason. **Reference** See the *Monitoring Processes* chapter in the *IBM® Sterling Gentran:Server® for UNIX - EC Workbench Data Flow Administration Guide* for log file information.

Setting the Screen Prompts

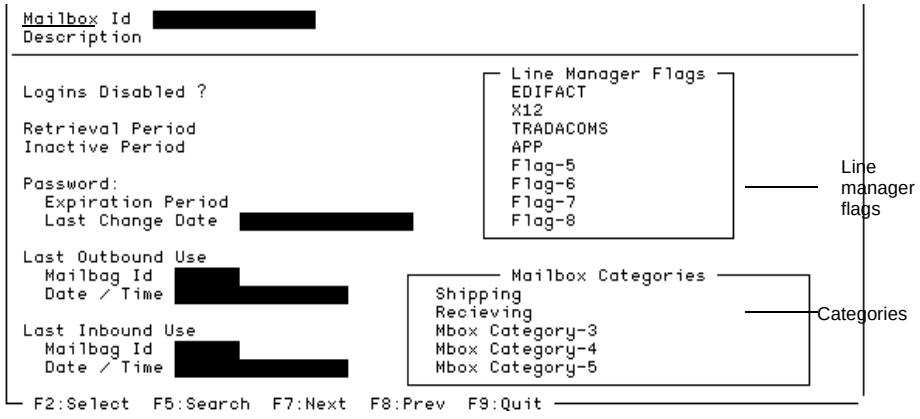
Overview

Introduction

This section describes how to set the line manager flags and how to establish mailbox categories. After you set these items, the system displays them as prompts on your Mailbox screens.

Example

This Mailbox screen shows where the system displays the line manager flags and mailbox categories that you set.



When to set

You must set the line manager flags and create mailbox categories before you create your system's mailboxes.

How to Set the Line Manager Flags

Introduction

The **line manager flags** enable you to control the type of data a mailbox accepts. Each flag represents a data type, such as EDI, inbound, or outbound. The line manager flags you set appear as prompts on the screen used to set up a new mailbox.

Suggested prompts

You can set up to eight prompts. Here are five suggested prompts:

- EDI Data
- App Data
- Host Command
- Inbound Data
- Outbound Data

Recommendation
You may want to word the prompts so they can be answered with y for yes or n for no.

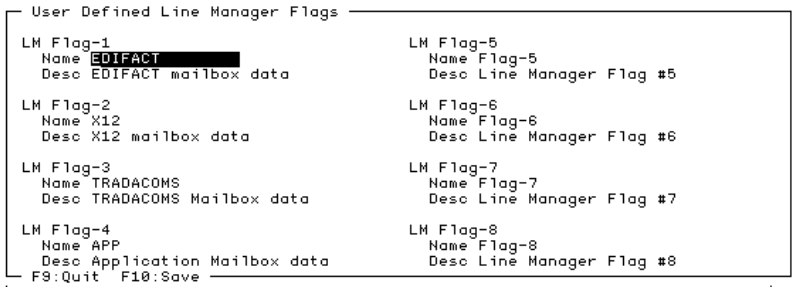
How the system uses the line manager flags

When data enters the Advanced Data Distribution system, the *checkit* script:

- Identifies the file type
- Examines the line manager flags in the destination mailbox record to determine whether the mailbox accepts the file type
- Invokes **opmail** to move the file into the mailbox owner's *toco* directory, if the mailbox accepts the file type.

Setting the flags

Use this procedure to set the line manager flags.

Step	Action	
1	Select **Mailbox** from the Sterling Gentran:Server host main menu.	
2	Select **Line Manager Flags** from the Mailbox menu. **System Response** The system displays this screen. In this example, the first four flags are already set. 	
3	Complete the fields beginning with LM Flag-1. Complete the fields. Use the TAB key to move to the next flag.	
	Name	The name of the prompt. Use up to 15 characters. Do not uses spaces. Phrase the prompt for a YES or NO response. **Examples** ◗ EDI ◗ UDF ◗ Host_Comm ◗ Inbound ◗ Outbound
	Desc	A description of the prompt.
4	Press F10 to save the changes.	

WARNING

The changes you save are stored in a file named *lmflags.dat* in the EDI_ROOT directory.

How to Create Categories

Introduction

A mailbox **category** is a mailbox class or type. The category function enables you to establish up to five mailbox category prompts. The categories you establish appear as prompts on the Mailbox screen that you use to set up a new mailbox.

When you create a new mailbox, you can enter values into the category prompts to link the mailbox to one or more categories. Later, you can perform some action to all mailboxes in the category at the same time by applying the action to the category.

Example 1

You can create a category for all outbound EDI files or for all EDI files destined for a specific trading partner.

Example 2

You can create a mailbox category named Internal Department if you want to track the department of your internal users. Example values for this category can include Payables, Receivables, and Auditing. When you create a new mailbox for an internal user who is in the Payables department, enter “Payables” in the Internal Department prompt on the Mailbox screen.

Comment

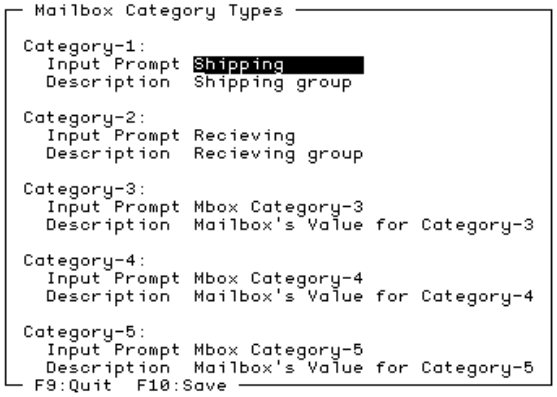
The system displays the category prompts on the Mailbox Search screen, enabling you to search for mailboxes by category value.

Why use categories?

Grouping mailboxes by category value enables you to apply the same action to all mailboxes with a given category value at the same time.

Setting category prompts

Use this procedure to set up mailbox category prompts.

Step	Action
1	Select **Mailbox** from the Sterling Gentran:Server host main menu.
2	Select **Mailbox Categories** from the Mailbox menu. **System Response** The system displays the Mailbox Category Types screen. In this example, the first two categories are already defined. 
3	Complete the fields beginning with Category-1. Use the TAB key to move to the next field.
	Input Prompt — The name of the category prompt. Use up to 15 characters.
	Description — A description of the category.
4	Press F10 to save the changes.

WARNING

The changes you save are stored in a file named *mbcats.dat* in the EDI_ROOT directory.

CHAPTER
4

Working With Mailboxes

Contents

Working With Mailbox Files

Overview

Introduction

In this chapter

This chapter explains how to create and maintain the mailboxes in your system. It also describes how to create and use distribution lists.

Key terms

This table lists the key terms used in this chapter.

Term	Description
dequeue	To remove a file from a queue.
distribution list	A set of mailbox IDs treated as one for distribution purposes.
enqueue	To add a file to a queue.
mailbox	A directory and set of subordinate directories where files addressed to a specific mailbox owner are temporarily stored awaiting pickup. The mailbox owner can also send files to the mailbox.
mailbox file list	A list of the inbound or outbound files in a mailbox.
mailbox ID	The name that you give to a mailbox.
mailbox owner	The trading partner, organization, or internal user who has access privileges to a mailbox.
mailbox session log	A record of the activity that occurred during a mailbox owner's interactive session with the mailbox.
queue	A dynamic list of files to be processed, picked up, or routed.
requeue	To move a file back into a directory.

Adding Mailboxes

Overview

Introduction

To enable your trading partners or individuals to send files to and retrieve files from your Advanced Data Distribution system, you must set up their mailboxes.

Mailbox identification

A mailbox owner can be a trading partner, a VAN, or an internal user. When you add a mailbox, you assign a unique mailbox ID to it. The mailbox ID can be:

- The trading partner's organization code
- A value added network (VAN) ID
- An internal user ID or name
- Any other commonly used reference.

Ways to add mailboxes

There are three ways to add new mailboxes.

IF you want to create…	THEN see…
A single mailbox	"How to Add a Mailbox"
One or more mailboxes	"How to Copy an Existing Mailbox"
Mailboxes based on trading partnership codes, interchange organization codes, group organization codes, or data manager names	"How to Use the Mass Add Facility"

Mailbox Directories

Introduction

When you add a new mailbox, the Advanced Data Distribution system automatically creates a set of mailbox owner directories. The name of the main directory is the mailbox ID that you assign when you create the mailbox. Under the main directory are six subdirectories for incoming and outgoing files.

Directory descriptions

This table describes the six subdirectories of a mailbox.

Name	Description
./toco	The directory for files that are ready "to come" into the system for processing or routing. This is the usual drop-off location for a file passed into the Advanced Data Distribution system.
./came	The directory that contains copies of processed and routed files. The copies remain in this directory until the retrieval time expires. The default retrieval time is eight days.
./togo	The location of files that are ready “to go” or to be picked up by the mailbox owner calling into the system. Sterling Gentran:Server data managers and scripts route files to this directory.
./gone	The directory that holds copies of files that the mailbox owner has successfully picked up. The copies reside in this directory until the retrieval time expires.
./arch	Reserved for future use.
./user	The location of configuration files associated with the line managers, routing lists, and so on.

How the directories are organized

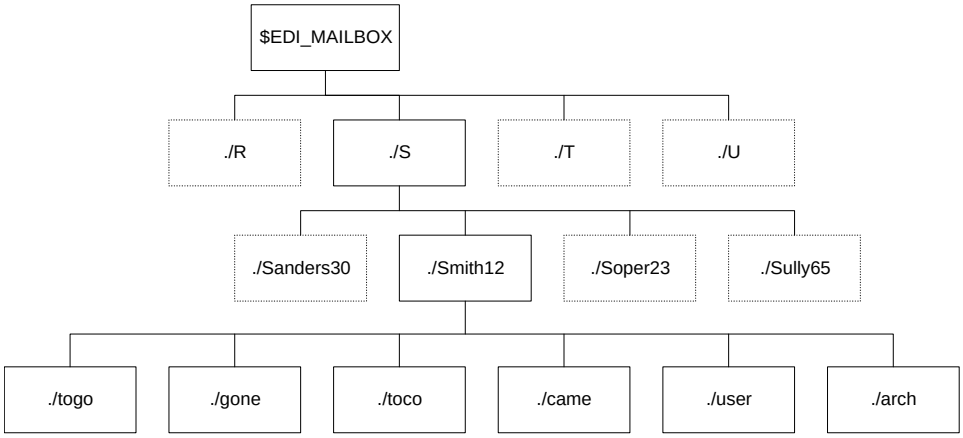
The system organizes mailboxes alphabetically under the subdirectory that corresponds to the first letter of the mailbox ID. All mailboxes with IDs beginning with the letter “A” are in the *./A* subdirectory; all mailboxes with IDs beginning with the letter “B” are in the *./B* subdirectory, and so on.

Comment

The single-character subdirectory route improves access to individual mailbox directories when the number of mailbox owners gets large. This works best when most of the mailbox IDs begin with a different first character.

Example directory structure

The following example illustrates the directory structure for a trading partner named Smith12.



Comment

The system places all mailboxes with a name that starts with the letter “S” under the ./S directory. For example, mailboxes named Stevens, Swenson4, STMET, and Sams also fall under the ./S subdirectory. The system assigns an individual set of six subdirectories (*togo, gone, toco, came, user*, and *arch*) to each mailbox.

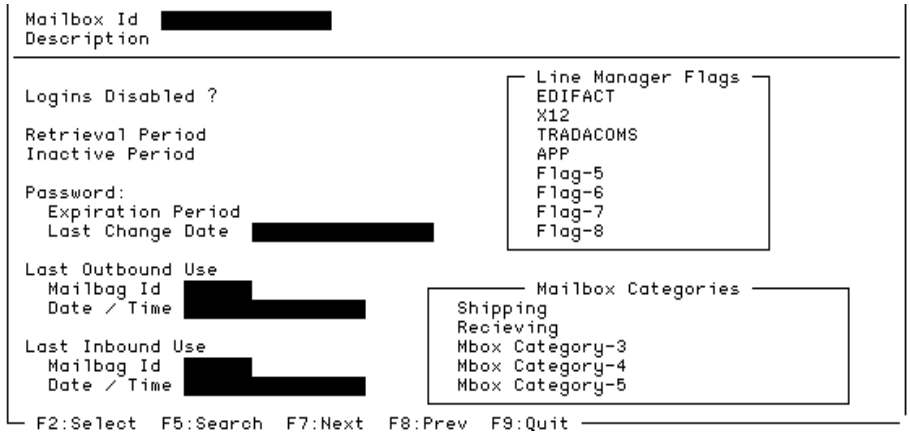
The Mailbox Screen

Introduction

The Mailbox screen is used to add a new mailbox or modify the settings of an existing mailbox.

Illustration

This illustration shows the Mailbox screen.



Mailbox screen fields, functions, and values

This table describes the Mailbox screen fields and their functions.

Field	Function	Values
Mailbox ID	Defines the name you are assigning to the mailbox.	An organization code, VAN ID, or other value
Description	Describes the mailbox.	Any string of words
Logins Disabled?	Enables or disables the mailbox owner's ability to log in to the mailbox.	**N** permits the owner to log in. **Y** prevents the owner from logging in.

(Contd) Field	Function	Values
Retrieval Period	Defines the number of days a document can reside in the *toco* or *togo* directory before the system deletes it.	1 - 999 days
Inactive Period	Defines the number of days the mailbox is inactive before which the system disables the login.	0 - 365 days
Password Expiration Period	Defines the number of days the mailbox owner can have the same password. After this number of days has passed, the mailbox owner must change his or her password.	1 - 999 days **Note** Use 000 for a non-expiring password.
Password Last Change Date	Displays the last date that the password was changed.	System-supplied
Line Manager Flags	Displays the Line Manager prompts your organization set up under the Line Manager Flags option so that you can select the type of data that the mailbox accepts. **Reference** See the How to Set the Line Manager Flags topic in the Setting Up Your System chapter of this guide.	◗ Y for yes ◗ N for no
Mailbox Categories	Displays the prompts your organization set up under the Mailbox Categories option. Enter a value for each category. **Reference** See the How to Create Categories topic in the Setting Up Your System chapter of this guide.	Any word or character string that is meaningful to your organization

(Contd) Field	Function	Values
Last Outbound Use Mailbag ID Date/Time	Displays the mailbag ID of the last outbound file and the last date the mailbox owner used the mailbox to send files.	System-supplied
Last Inbound Use Mailbag ID Date/Time	Displays the mailbag ID of the last inbound file and the last date that the mailbox received files.	System-supplied

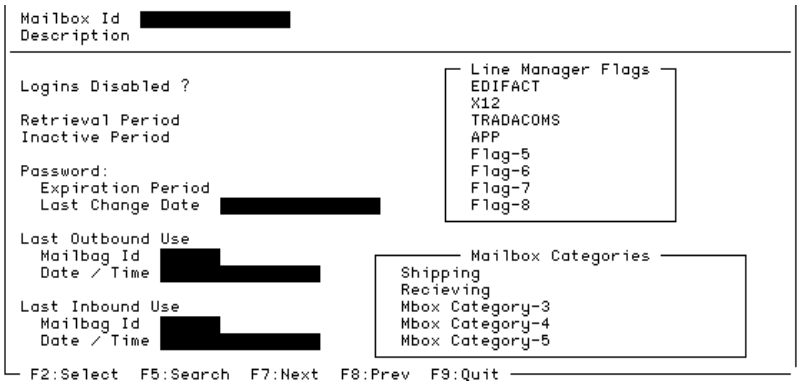
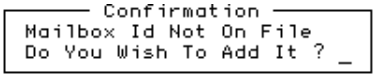
Function keys

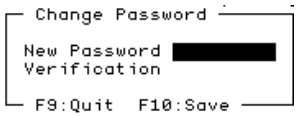
This table describes the function keys of the Mailbox screen.

Key	Function
F1	Displays the Change Password screen, which enables you to change the mailbox owner's password.
F2	Displays a list of choices for the selected field.
F3	Deletes the mailbox record.
F4	Copies the mailbox record.
F5	Accesses a text editor so that you can modify the script used for the mailbox owner.
F6	Displays the View screen, which enables you to display a session log or the contents of the mailbox inbox or outbox.
F7	Displays the next mailbox record in the system.
F8	Displays the previous mailbox record in the system.
F9	Exits the screen.
F10	Saves the mailbox record.

How to Add a Mailbox

Procedure Use this procedure to create a new mailbox.

Step	Action
1	Select **Mailbox** from the host Main Menu.
2	Select **Mailboxes** from the Mailbox menu. **System Response** The system displays the Mailbox screen. 
3	Enter the name of the mailbox in the **Mailbox ID** field and press ENTER or the TAB key. **System Response** The system search for the mailbox ID. If the mailbox ID does not exist, the system displays this confirmation prompt. 
4	Enter **y** at the prompt.
5	Complete the remaining fields.

(Contd) Step	Action
6	Press F10 to save the changes. **System Response** The system displays a message to let you know that you must set up a password for the mailbox owner. 
7	Enter the password for the new mailbox in the **New Password** field; then enter it again in the **Verification** field. **Comment** You can use the mailbox ID as the initial password. The mailbox owner can change it after logging into the system.
8	Press F10 to save the password. **System Response** The system clears the screen so that you can add another mailbox.

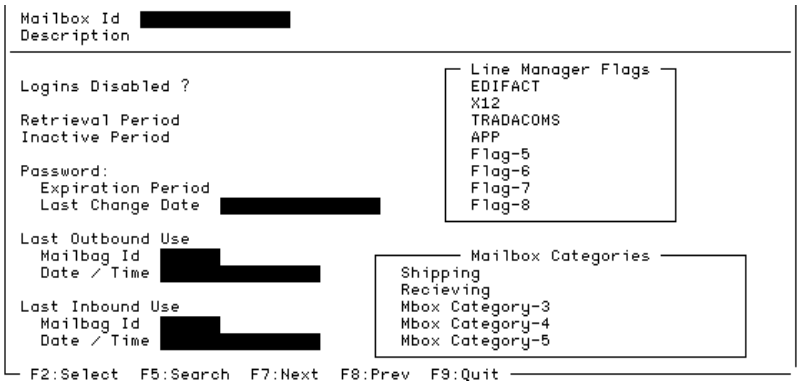
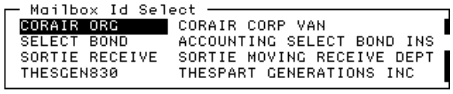
How to Copy an Existing Mailbox

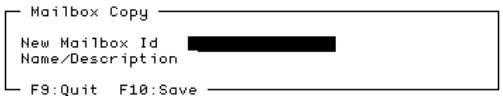
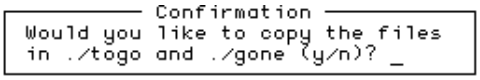
Introduction

If you have a mailbox that is similar to one you want to create, you can copy an existing mailbox to create a new one.

Procedure

Use this procedure to copy a mailbox.

Step	Action
1	Select **Mailbox** from the host Main Menu.
2	Select **Mailboxes** from the Mailbox menu. **System Response** The system displays the Mailbox screen. 
3	Select the **Mailbox ID** field and press F2 to select the mailbox. **System Response** The system displays the Mailbox ID Select screen, which lists all the existing mailbox IDs and their descriptions. 
4	Select the mailbox ID and press ENTER. **System Response** The system displays the Mailbox screen with the fields completed for the ID you selected.

(Contd) Step	Action
5	Press F4 to copy the mailbox. **System Response** Sterling Gentran:Server displays the Mailbox Copy screen. 
6	Enter the new mailbox ID and description.
7	Press F10. **System Response** The system displays this confirmation prompt. 
8	Do you want to copy the files that are in the existing mailbox's *./togo* and *./gone* directories to the new mailbox *./togo* and *./gone* directories? ◗ If YES, enter **y** at the prompt. ◗ If NO, enter **n** at the prompt. **System Response** The system redisplays the Mailbox screen.
9	Do you want to change the values of any fields? ◗ If YES, enter the new values and then press F10 to save your changes. ◗ If NO, press F9 to exit the screen.

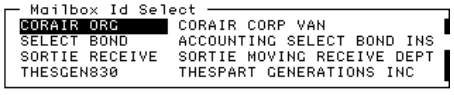
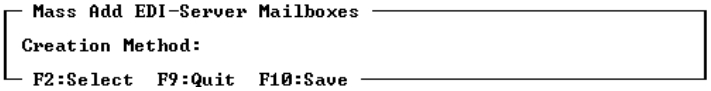
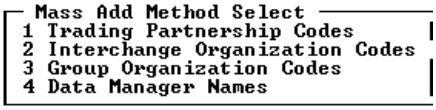
How to Use the Mass Add Facility

Introduction

The mass add facility enables you to add several mailboxes at once.

Procedure

Use this procedure to add several mailboxes.

Step	Action
1	Select **Mailbox** from the host main menu.
2	Select **Mailboxes** from the Mailbox menu. **System Response** The system displays the Mailbox screen.
3	Select the **Mailbox ID** field and press F2 to select the mailbox. **System Response** The system displays the Mailbox ID Select screen, which lists all the existing mailbox IDs and their descriptions. 
4	Select the mailbox ID and press ENTER. **System Response** The system redisplays the Mailbox screen with the fields completed for the ID you selected.
5	Press CTRL+F. **System Response** The system displays the Mass Add screen. 
6	Press F2 to display a list of creation methods. 

<table>
<tr><th>(Contd) Step</th><th colspan="2">Action</th></tr>
<tr><td>7</td><td colspan="2">Select from the list by highlighting the selection and pressing ENTER.

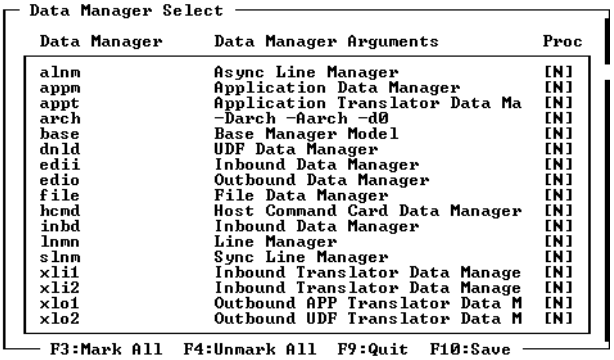
System Response
The system redisplays the Mass Add screen with the creation method you selected.</td></tr>
<tr><td rowspan="3">8</td><td colspan="2">Press F10 to continue.

System Response</td></tr>
<tr><td>IF you chose to create mailboxes by…</td><td>THEN…</td></tr>
<tr><td>Data manager names</td><td>The system displays the data manager select screen.

Continue with Step 9.</td></tr>
<tr><td>9</td><td colspan="2">Trading Partnership Codes, Interchange Organization Codes or Group Organization Codes

The system displays the Trading Partner Search screen.

Skip to Step 10.</td></tr>
<tr><td>9</td><td colspan="2">Select the data manager names and then skip to Step 12.</td></tr>
</table>



<table>
<tr><th>(Contd) Step</th><th colspan="2">Action</th></tr>
<tr><td>10</td><td colspan="2">Enter y in the appropriate search fields; then press F10 to save your changes.

Reference
See the “How to Search for a Trading Partnership Record” topic in the “Understanding the Basics” chapter of the IBM® Sterling Gentran:Server® for UNIX - EC Workbench Data Flow Administration Guide for information about using the Trading Partner Search screen.

System Response
<table><tr><th>IF the creation method was…</th><th>THEN the system displays the…</th></tr><tr><td>Trading Partnership Code</td><td>Trading Partnership Select screen</td></tr><tr><td>Interchange Organization Codes</td><td>I/C Organization Select screen</td></tr><tr><td>Group Organization Codes</td><td>Group Organization Select screen</td></tr></table></td></tr>
<tr><td>11</td><td colspan="2">Type y in the Process (Proc) field of each Trading Partnership Code, Interchange Organization Code, Group Organization Code, or Data Manager that you wish to create mailboxes for.

◗ To mark all items listed, press F3.
◗ To unmark all that are marked, press F4.</td></tr>
<tr><td>12</td><td colspan="2">Press F10 to start the mailbox creation process.

System Response
The system creates the mailboxes and then displays a log that lists them.</td></tr>
</table>

Information for Your Trading Partners

Information Mailbox Owners Need

Introduction

To enable your trading partners to access their mailboxes, you must provide them with certain information.

Information you need to provide

This is the information that mailbox owners need:

- Dial-in access number
- User name
- Password
- Communications information
  - Type of data transmission (bisynchronous or asynchronous)
  - FTP or modem parameters
- Key word or file name prefix for each file type the mailbox owner can send

Note
The key words or prefixes are the Line Manager Flags you selected when you set up the mailbox. They refer to the type of data that the owner's mailbox accepts (for example, X12 or EDIFACT). You can configure your *checkit* script to verify the incoming key words or file name prefixes.

Reference
See the chapter "Setting Up Your System for information about modifying the checkit script.

- Commands and instructions for the tasks they can perform.

Reference
See the Instructions for Mailbox Owners topic in this section for a set of instructions.

Instructions for Mailbox Owners

Introduction

This topic lists the information that mailbox owners need to access their mailboxes.

Connecting to your mailbox

Use this procedure to access your mailbox.

Step	Action
1	From your modem, dial the system access number.
2	Enter the **LOGON** command followed by your user ID and password. **Example** LOGON wdom23 ledder
3	Are you using asynchronous data transmission? ◗ If YES, set the protocol for asynchronous file transfers. **Format** PROTOCOL K|Y|T where K=Kermit, Y=Ymodem, and T=Text ◗ If NO, skip this step.

Requesting a list of files in your mailbox

To request a list of files in your mailbox that are ready to be received, enter the **DIR** command.

Example
DIR

Receiving files

To receive files, enter the **RECEIVE** command followed by the type of file you want to receive. You can request a batch transmission.

Example commands

To request…	Use this command…
All EDI files	RECEIVE EDI
All files, regardless of type	RECEIVE ALL
Only EDI810 files	RECEIVE EDI810
All EDI files concatenated into one file	RECEIVE EDI BATCH
All files concatenated into one file	RECEIVE ALL BATCH

Sending files: bisynchronous transmissions

Use this procedure to send files to your mailbox.

Step	Action
1	Enter the SEND command followed by the key word or file name prefix for the type of file you want to send. **Example** SEND EDI
2	Transmit the files.

Sending files: asynchronous transmissions

Use this procedure to send files to your mailbox with asynchronous transmissions.

Step	Action
1	Enter the SEND command followed by the key word or file name prefix for the type of file you want to send. **Example** SEND EDI **System Response** The Advanced Data Distribution system sends a response to let you know that communications are working.

(Contd) Step	Action
2	Open your file transfer protocol.
3	Transmit the files. **System Response** The Advanced Data Distribution system sends a response to let you know that it received the files.

Changing your password

To change your password enter the SETPASS command followed by your current password and your new password.

Example
If your current password is **ledder** and your new password is **horace**, then enter this command:

SETPASS ledder horace

Disconnecting from the system

To disconnect from the system, enter the **LOGOFF** command.

Example
LOGOFF

Note
When you have successfully logged off the system, the system displays a termination message that contains details about the session activity.

Maintaining Mailboxes

How to Modify a Mailbox Record

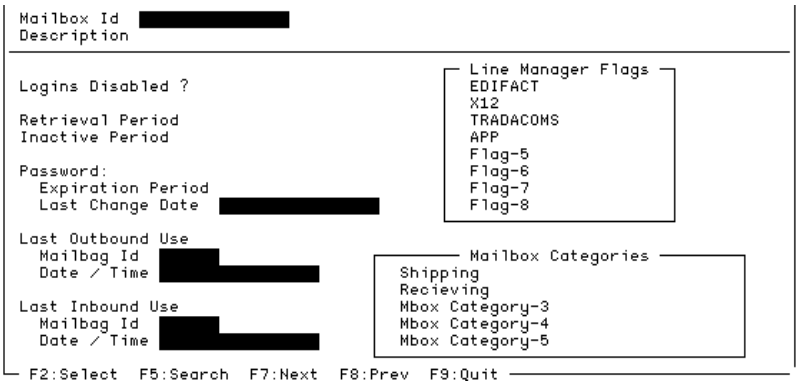
Introduction

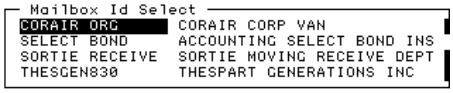
You can change these fields of a mailbox record:

- Description
- Retrieval Period
- Inactive Period
- Password Expiration Period
- Line Manager Flags
- Mailbox Categories.

Procedure

Use this procedure to modify a mailbox record.

Step	Action
1	Select **Mailbox** from the host main menu.
2	Select **Mailboxes** from the Mailbox menu. **System Response** The system displays the Mailbox screen. 

(Contd) Step	Action
3	Select the **Mailbox ID** field and press F2 to select the mailbox. **System Response** The system displays the Mailbox ID Select screen, which lists all the existing mailbox IDs and their descriptions. 
4	Select the mailbox ID and press ENTER. **System Response** The system redisplays the Mailbox screen with the fields completed for the mailbox ID you selected.
5	Modify the values.
6	Press F10 to save your changes.

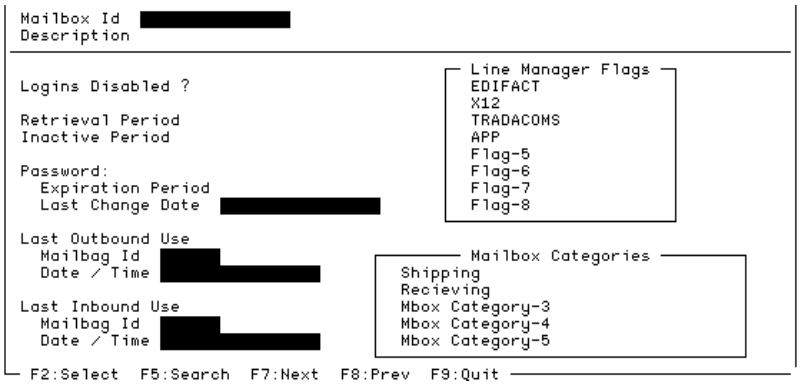
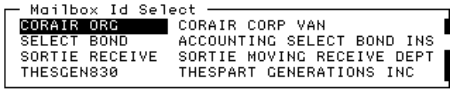
How to Change the Mailbox Owner's Password

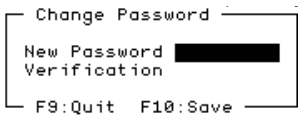
Introduction

If a mailbox owner has forgotten the mailbox password, you can assign a new password. You cannot look up the current password.

Procedure

Use this procedure to change a password.

Step	Action
1	Select **Mailbox** from the host Main Menu.
2	Select **Mailboxes** from the Mailbox menu. **System Response** The system displays the Mailbox screen. 
3	Select the **Mailbox ID** field and press F2 to select the mailbox. **System Response** The system displays the Mailbox ID Select screen, which lists all the existing mailbox IDs and their descriptions. 
4	Select the mailbox ID and press ENTER. **System Response** The system redisplays the Mailbox screen with the fields completed for the ID you selected.

(Contd) Step	Action
5	Press F1 to change the password. **System Response** Sterling Gentran:Server displays the Change Password screen. 
6	Enter the password in the New Password field; then enter it again in the Verification field. **Comment** You can use the mailbox ID as the new password. The mailbox owner can change it after logging into the system.
7	Press F10 to save the new password.

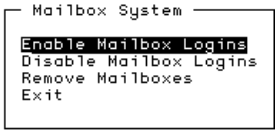
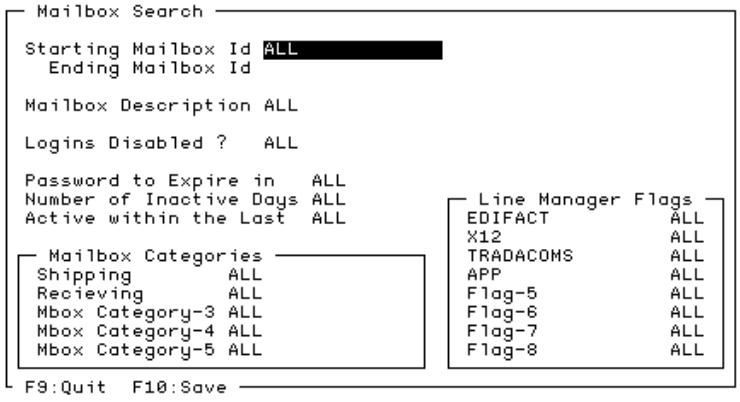
How to Enable and Disable Mailboxes

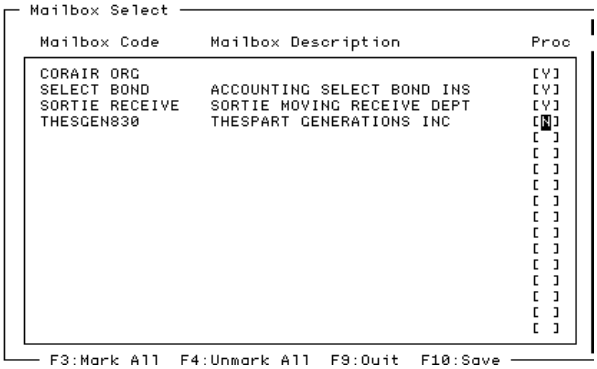
Introduction

To temporarily suspend access to a mailbox, you can disable the mailbox. When you disable a mailbox, the record is retained so that you can enable it later.

Procedure

Use this procedure to disable or enable mailboxes.

Step	Action
1	Select **Mailbox** from the host Main Menu.
2	Select **Enable/Disable Logins** from the Mailbox menu. **System Response** The system displays the Mailbox System screen. 
3	Select either **Disable Mailbox Logins** or **Enable Mailbox Logins**. **System Response** The system displays the Mailbox Search screen. 

(Contd) Step	Action
4	Enter the search criteria for the mailbox IDs you want to enable or disable and then press F10. **System Response** The system displays a list of mailbox IDs that match the search criteria. 
5	Type **y** in the Process (**Proc**) field of each mailbox you want to disable or enable.
6	Press F10 to continue. **System Response** The system displays a temporary log. When you leave the log screen, the system deletes this log.

Comment Another way to enable or disable a mailbox is to open the mailbox record and set the **Disable Logins** field to **y** to disable the mailbox or **n** to enable it.

How to Delete Mailboxes

Introduction

If you no longer need a mailbox, you can delete it.

WARNING

When you delete a mailbox, the system automatically deletes the mailbox directory, subdirectories, and any files in the mailbox.

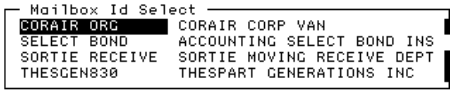
Ways to delete mailboxes

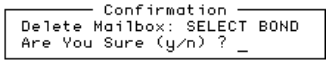
There are two ways to delete mailbox records:

IF you want to delete…	THEN…
A single mailbox	Open the mailbox record you want to delete and press F3 to delete it.
Several mailboxes at the same time	Use the Remove facility to select the mailboxes you want to delete.

Deleting a single mailbox

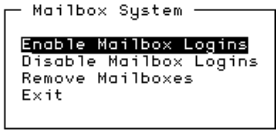
Use this procedure to delete a single mailbox.

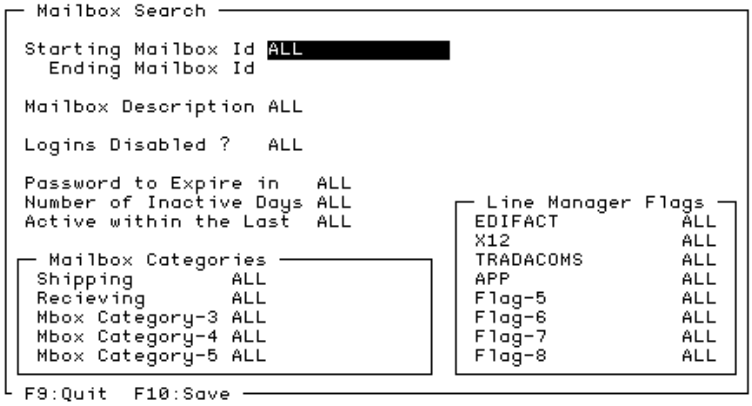
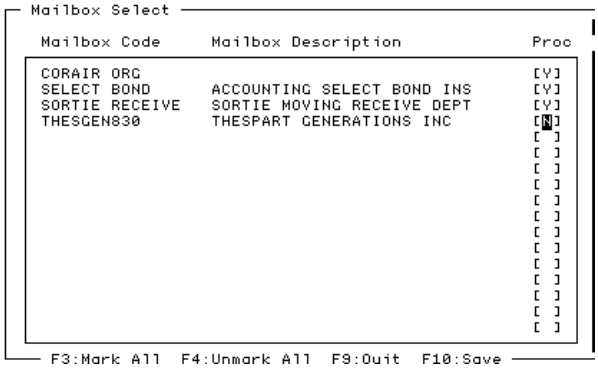
Step	Action
1	Select **Mailbox** from the host Main Menu.
2	Select **Mailboxes** from the Mailbox menu. **System Response** The system displays the Mailbox screen.
3	Select the **Mailbox ID** field and press F2 to select the mailbox. **System Response** The system displays the Mailbox ID Select screen, which lists all the existing mailbox IDs and their descriptions. 

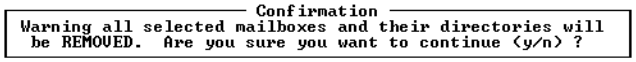
(Contd) Step	Action
4	Select the mailbox ID and press ENTER. **System Response** The system redisplays the Mailbox screen with the fields completed for the mailbox ID you selected.
5	Press F3 to delete the mailbox. **System Response** The system displays a confirmation prompt. 
6	Enter **y** at the prompt to confirm the deletion.

Deleting several mailboxes

Use this procedure to delete several mailboxes at once.

Step	Action
1	Select **Mailbox** from the host main menu.
2	Select **Enable/Disable Logins** from the Mailbox screen. **System Response** The system displays the Mailbox System screen. 

(Contd) Step	Action
3	Select **Remove Mailboxes**. **System Response** The system displays the Mailbox Search screen. 
4	Enter the search criteria for the mailbox IDs you want to delete and then press F10. **System Response** The system displays a list of mailbox IDs that match the search criteria. 

(Contd) Step	Action
5	Enter **y** in the Process (**Proc**) field of each mailbox that you want to delete and then press F10. **System Response** The system displays a confirmation prompt. 
6	Enter **y** to confirm the deletion. **System Response** If you confirmed the deletion, the system displays a log that lists the mailboxes you removed.
7	Press ESC twice to exit the log.

Using Mailbox Session Logs

Mailbox Session Log

Definition

A mailbox session log is a record of the activity that occurred during a mailbox owner's session with the mailbox.

Example

This is an example of a session log.

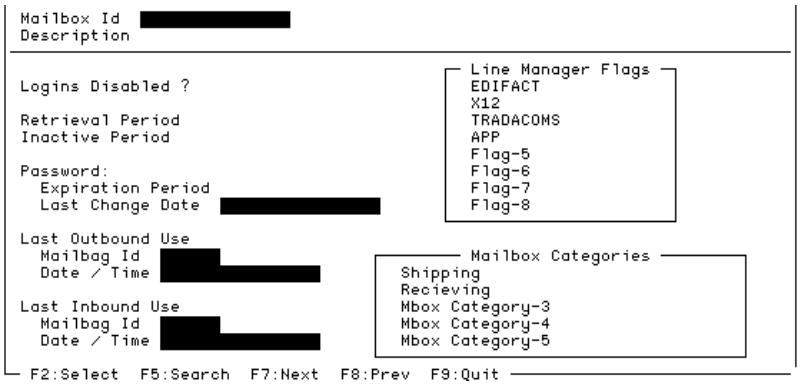
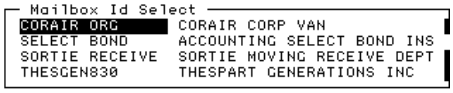
```
<<Session Log (/xyz/srvr22/qa/mb/c/joe/arch/session.all.msg) >>

LOGON joe joe
00003M: 07/01/95 16:16:30 ACCEPT - LOGON joe, MBAR=00003M PORT=mbx1m01
```

Log contents

A session log shows the commands that the mailbox owner issued and the results of the commands. It is useful to help troubleshoot mailbox problems.

How to View a Mailbox Session Log

Procedure Use this procedure to view the session log of a mailbox.

Step	Action
1	Select **Mailbox** from the host main menu.
2	Select **Mailboxes** from the Mailbox menu. **System Response** The system displays the Mailbox screen. 
3	Select the **Mailbox ID** field and press F2 to select the mailbox. **System Response** The system displays the Mailbox ID Select screen, which lists all the existing mailbox IDs and their descriptions. 
4	Select the mailbox ID and press ENTER. **System Response** The system redisplays the Mailbox screen with the fields completed for the mailbox ID you selected.

(Contd) Step	Action
5	Press F6. **System Response** The system displays the View screen. 
6	Select **Session**. **System Response** If a session log exists, the system displays it. If no session log exists, the system displays a “log does not exist” message at the bottom of the screen.

Using Distribution Lists

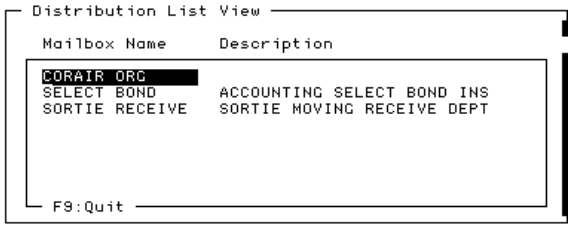
Distribution Lists

Definition

A distribution list is a group of mailboxes under one list name. You use a distribution list to route files to a defined group of mailboxes.

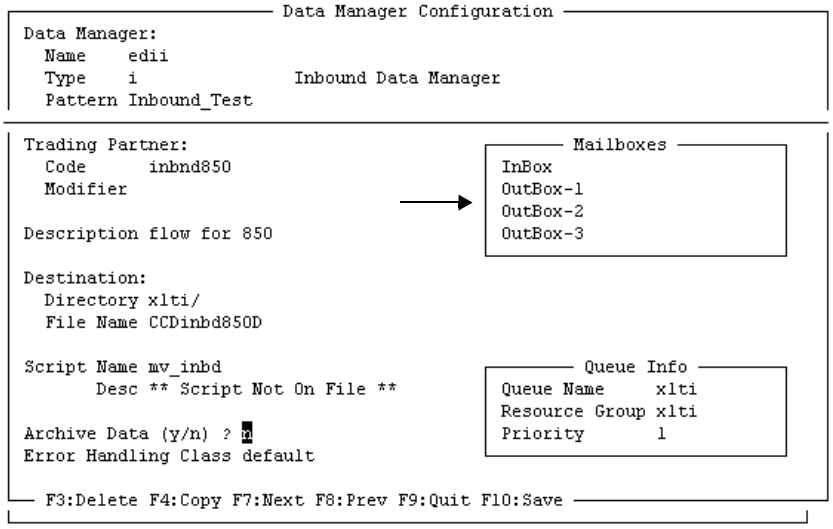
Example

This is an example of a distribution list that contains three mailbox IDs.



Where distribution lists are used

You can enter a distribution list name in one of the **Outbox** fields on the Data Manager Trading Partner/File Name Configuration screen. This makes the data manager route the files to the mailboxes in the distribution list.



Reference

See the chapter “Working with Configuration Records” in the *IBM® Sterling Gentran:Server® for UNIX - EC Workbench Data Flow Administration Guide* for instructions.

How the system uses distribution lists

The data manager sends one copy of the output file to each mailbox in the distribution list. The system gives the same name to each copy of the file.

When you use distribution lists to send to mailboxes, the UNIQUE_FILE_NAMES initialization parameter does not produce unique file names; the uniqueid portion of the name contains the same value for each file routed by the distribution list.

To create a unique file name for each copy of the file routed by the list, you must turn on the DIST_LIST_CONSTRUCT initialization parameter for the data manager. See the “Maintaining Initialization Parameters” chapter of the *IBM® Sterling Gentran:Server® for UNIX - EC Workbench Data Flow Administration Guide* for details.

Mail Distribution Lists Screen

Introduction

The Mail Distribution Lists screen is used to add a new distribution list or modify an existing distribution list.

Illustration

This illustration shows the **Mail Distribution Lists** screen.

Fields and functions

This table describes the fields of the Mail Distribution Lists screen and their functions.

Field	Function
Name	Displays the name of the distribution list.
Desc	Displays the description of the distribution list.

Function keys

This table describes the function keys of the Mail Distribution Lists screen.

Key	Function
F1	Lists the mailbox IDs in the distribution list.
F3	Deletes the distribution list.
F4	Copies the distribution list.
F5	Adds a mailbox ID to the distribution list.
F6	Removes a mailbox from the distribution list.
F7	Displays the next distribution list in the system.
F8	Displays the previous distribution list in the system.

(Contd) Key	Function
F9	Exits the screen.
F10	Saves the distribution list.

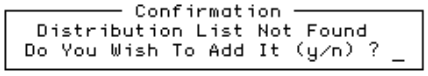
How to Create a Distribution List

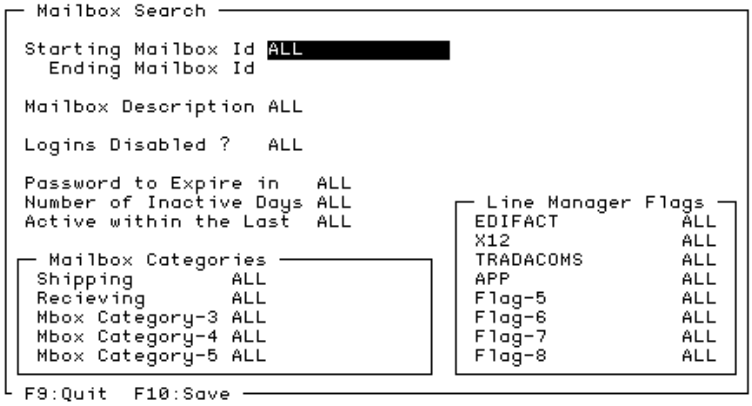
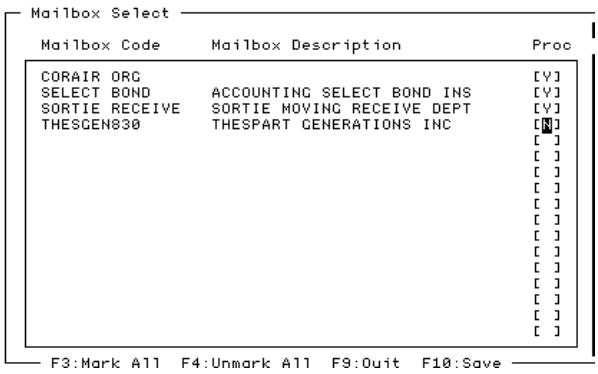
Introduction

To create a new distribution list, you name and describe the list and then add mailbox IDs to it.

Procedure

Use this procedure to create a distribution list.

Step	Action
1	Select **Mailbox** from the host Main Menu.
2	Select **Distribution Lists** from the Mailbox menu. **System Response** The system displays the Mail Distribution Lists screen. 
3	Enter the name of your new list into the Name field and then press ENTER or the TAB key. **System Response** The system displays this prompt. 
4	Enter **y** at the prompt.
5	Enter a description of the new distribution list in the **Desc** field.

(Contd) Step	Action
6	Press F5 to add mailbox IDs to the list. **System Response** The system displays the Mailbox Search screen. 
7	Enter search criteria and then press F10. **System Response** The system displays a list of mailbox IDs that match the search criteria. 
8	Enter **y** in the Process (**Proc**) field of each mailbox ID that you want to add to the distribution list and then press F10. **System Response** The system redisplays the Mail Distributions Lists screen.
9	Press F10 to save your changes.

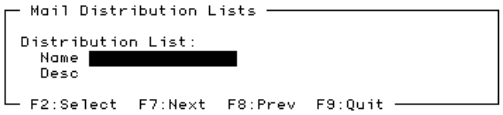
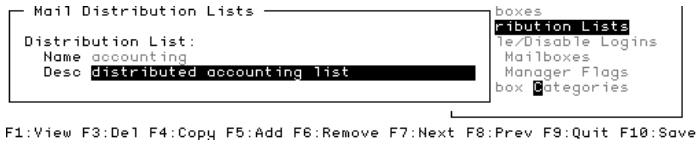
How to Copy a Distribution List

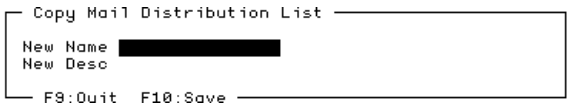
Introduction

The easiest way to create a new distribution list is to copy an existing list and modify it.

Procedure

Use this procedure to copy a distribution list.

Step	Action
1	Select **Mailbox** from the main menu.
2	Select **Distribution Lists** from the Mailbox menu. **System Response** The system displays the Mail Distribution Lists screen. 
3	Select the **Name** field and then press F2 to select the distribution list that you want to copy.
4	Select the name of the list and press ENTER. **System Response** The system redisplays the Mail Distribution Lists screen with the fields completed for the distribution list you selected. 

(Contd) Step	Action
5	Press F4 to copy the distribution list. **System Response** The system displays the Copy Mail Distribution List screen. 
6	Enter the name and description for the new distribution list.
7	Press F10 to save your changes.

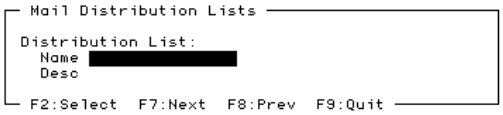
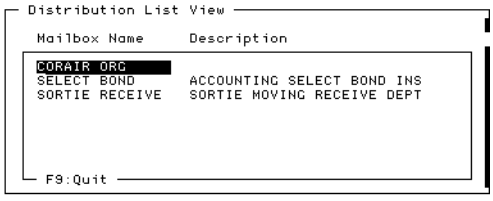
How to View the Mailbox IDs in a List

Introduction

You may need to review the mailbox IDs in your distribution lists to make sure the list is complete and that old mailbox IDs have been deleted from the list.

Procedure

Use this procedure to display a list of the mailboxes in the distribution list.

Step	Action
1	Select **Mailbox** from the main menu.
2	Select **Distribution Lists** from the Mailbox menu. **System Response** The system displays the Mail Distribution Lists screen. 
3	Select the **Name** field and then press F2 to select the distribution list that you want to view. 
4	Press F1 to view a list of mailbox IDs in the distribution list. **System Response** The system displays the View screen. 
5	When you are finished, press F9 to exit the screen.

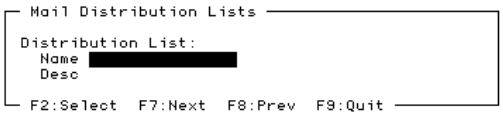
How to Add a Mailbox to a Distribution List

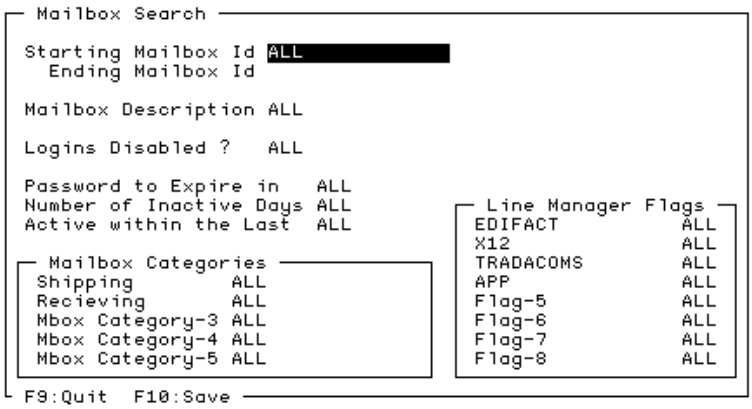
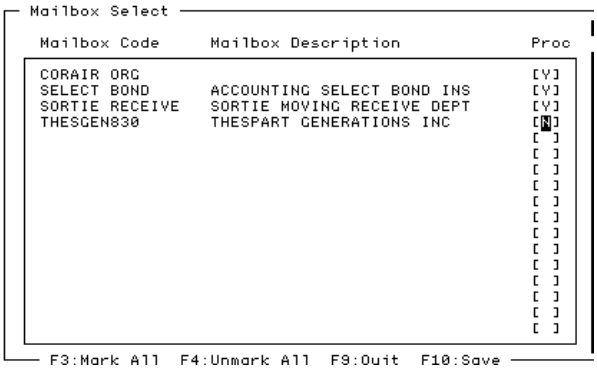
Introduction

You can add new mailbox IDs to a distribution list at any time.

Procedure

Use this procedure to add a new mailbox to the distribution list.

Step	Action
1	Select **Mailbox** from the Main Menu.
2	Select **Distribution Lists** from the Mailbox menu. **System Response** The system displays the Mail Distribution Lists screen. 
3	Select the **Name** field and then press F2 to select the distribution list that you want to view. 

(Contd) Step	Action
4	Press F5 to add a mailbox to the distribution list. **System Response** The system displays the Mailbox Search screen. 
5	Enter the search criteria for the mailbox IDs you want to add and then press F10. **System Response** The system displays a list of mailbox IDs that match the search criteria. 
6	Enter **y** in the Process (**Proc**) field of each mailbox ID that you want to add to the distribution list and then press F10. **System Response** The system redisplays the Mail Distributions Lists screen.
7	Press F10 to save your changes.

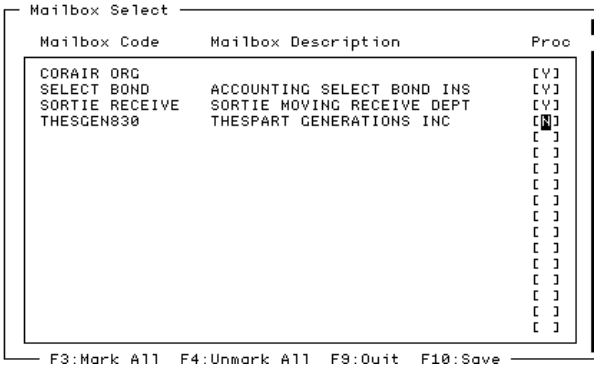
How to Remove a Mailbox from a Distribution List

Introduction

You can remove a mailbox from a distribution list at any time.

Procedure

Use this procedure to remove a mailbox from the distribution list.

Step	Action
1	Select **Mailbox** from the Main Menu.
2	Select **Distribution Lists** from the Mailbox menu. **System Response** The system displays the Mail Distribution Lists screen. 
3	Press F6 to remove mailboxes. **System Response** The system displays the Mailbox Select screen. 

(Contd) Step	Action
4	Enter **y** in the Process (**Proc**) field of each mailbox ID that you want to remove from the distribution list and then press F10. **System Response** The system redisplays the Mail Distributions Lists screen.
5	Press F10 to save your changes. **System Response** Sterling Gentran:Server removes the mailbox(es) you selected from the distribution list.

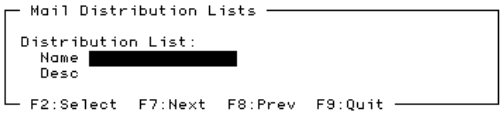
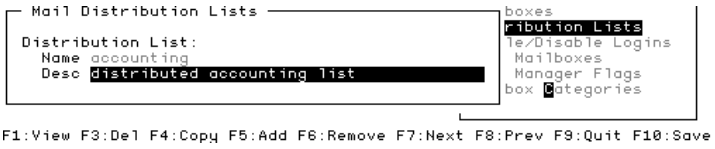
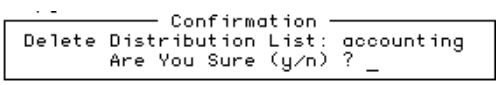
How to Delete a Distribution List

Introduction

If you no longer need a distribution list, you can delete it. Deleting the list does not affect the mailbox records in the list.

Procedure

Use this procedure to delete a distribution list.

Step	Action
1	Select **Mailbox** from the Main Menu.
2	Select **Distribution Lists** from the Mailbox menu. **System Response** The system displays the Mail Distribution Lists screen. 
3	Select the **Name** field and then press F2 to select the distribution list that you want to delete. 
4	Press F3 to delete the distribution list. **System Response** The system displays a confirmation prompt. 
5	Enter **y** at the prompt to confirm the deletion.

Working With Mailbox Files

Mailbox File List

Description

A mailbox file list is a list of the inbound or outbound files in a mailbox.

Example

This is a sample mailbox file list.

```
Inbound Files
M D User ID  File Name           QUid   Queued      DQid   Picked Up
  i stevens  input_file_10_for_> q_i10  9403141545          9403141545
  i stevens  input_file_11_for_> q_i11  9403141545  dqi11   9403141545
  i stevens  input_file_12_for_> q_i12  9403141545          9403141545
  i stevens  input_file_13_for_> q_i13  9403141545  dqi13   9403141545
  i stevens  input_file_14_for_> q_i14  9403141545          9403141545
  i stevens  input_file_15_for_> q_i15  9403141545  dqi15   9403141545
  i stevens  input_file_16_for_> q_i16  9403141545          9403141545
  i stevens  input_file_17_for_> q_i17  9403141545  dqi17   9403141545
  i stevens  input_file_18_for_> q_i18  9403141545          9403141545
  i stevens  input_file_19_for_> q_i19  9403141545  dqi19   9403141545
  i stevens  input_file_1_for_m> q_i1   9403141545  dqi1    9403141545

  F1:Zoom F3:Del F4:View F5:Mark F6:Srch F7:DeQue F9:Quit
```

Fields and functions

This table describes the fields of a mailbox file list and their functions.

Field	Function
M	Used to mark selections.
D	Indicates the direction of the file. ◗ i = in ◗ o = out
User ID	Displays the mailbox ID.
File Name	Displays the first 19 characters in the name of the file.
QUid	Displays the mailbag ID assigned to the document when it was queued into the mailbox.

(Contd) Field	Function
Queued	Displays the date and time the document was queued (ccyymmddhhmm format).
DQid	Displays the mailbag ID assigned to the document when it was dequeued.
Picked Up	Displays the date and time the document was dequeued (ccyymmddhhmm).

Function keys

This table describes the function keys in a mailbox file list.

Key	Function
F1	Displays the complete name of the selected file at the bottom of the screen.
F3	Deletes the selected file from the mailbox.
F4	Displays the contents of the selected file.
F5	Marks the selected file for further action.
F6	Displays the Select Mailbox/Date screen, which enables you to enter another mailbox ID or date.
F7	Dequeues the selected file.
F9	Exits the mailbox file list.

How to Open a Mailbox File List

Introduction

The Advanced Data Distribution system enables you to list:

- Only the queued entries in a mailbox
- All entries.

Before you begin

To open a mailbox file list, you must know the mailbox ID.

Procedure

Use this procedure to open a mailbox file list.

Step	Action
1	Select **Mailbox** from the host main menu.
2	Select **View Mailboxes** from the Mailbox menu. **System Response** The system displays the **View** screen. 
3	Select **InBox** or **OutBox**. **System Response** The system displays the Select Mailbox/Date screen. 

(Contd) Step	Action
4	Enter the mailbox ID of the mailbox you want to view and the date (in ccyymmdd format) of the entries you want to view.
5	Do you want to see all entries? ◗ If YES, blank out the **Q** in the **Status** field and then press F10. ◗ If NO, (view only queued entries), leave the value **Q** in the **Status** field and then press F10. **System Response** The system displays the mailbox file list.

How to View a File's Contents

Introduction

You can view (but not edit) the contents of any mailbox file.

Procedure

Use this procedure to view the contents of a mailbox file.

Step	Action
1	Open a mailbox file list that contains the file you want to view. **Reference** See the "How to Open a Mailbox File List" topic in this chapter.
2	Select the file that you want to view and then press F4. **System Response** The system displays the file.
3	Press ESC to exit the file.

How to Delete a File From a Mailbox

Introduction

You can delete inbound or outbound files from a mailbox.

When to dequeue before deleting

When an FTP daemon moves a file into the **toco** directory of a user's mailbox, it creates two queue pointers to the file:

- Mailbox entry in *mbxfr.dat*, the mailbox registry
- Queue entry in the *.q.dat* file of the data manager associated with the file

When you follow the procedure in this topic to delete the file from the mailbox, Advanced Data Distribution removes the queued entry from *mbxfr.dat*, but does not delete the actual file from the **toco** directory. This is because a queue entry for the file still exists in the data manager's *.q.dat* file. Advanced Data Distribution expects the data manager to process the file, so it retains the *.q.dat* entry and retains the actual file in the **toco** directory.

In this case, you must dequeue the file from the data manager's *.q.dat* file before you attempt to delete the file from the mailbox.

Procedure

Use this procedure to delete a file from a mailbox.

Step	Action
1	Open a mailbox file list that contains the file you want to delete. **Reference** See the topic ""How to Open a Mailbox File List"" in this chapter for instructions.
2	Is **Q** the status of the file you want to delete? - If YES, dequeue the file. **Reference** See the topic ""How to Remove a File From a Queue"" for instructions. - If NO, continue with the next step.

(Contd) Step	Action
3	Select the file and then press F3 to delete it. **System Response** The system displays a confirmation prompt.
4	Enter **y** at the confirmation prompt.

How to Remove a File From a Queue

Introduction

You can remove (**dequeue**) inbound or outbound files from a mailbox subdirectory queue.

Inbound files

When you dequeue an inbound file, the system moves the file from the *./toco* directory to the *./came* directory and updates the **DQid** and **Picked Up** fields of the mailbox file list.

Outbound file

When you dequeue an outbound file, the system moves the file from the *./togo* directory to the *./gone* directory.

Reference
To dequeue all outbound items for a specific mailbag ID, use the **cancel_mbid** command. See the topic “How to Dequeue Outbound Files” in the “Miscellaneous Mailbox Tasks” chapter of this guide.

Procedure

Use this procedure to remove a file from a mailbox queue.

Step	Action
1	Open a mailbox file list that contains the file you want to dequeue. **Reference** See the topic “How to Open a Mailbox File List” in this chapter. **Note** Make sure that the Status field on the Select Mailbox/Date screen contains a **Q** so that the system displays only queued entries. Only queued entries can be dequeued.
2	Select the file that you want to dequeue and then press F7.

How to Add a File to a Queue

Introduction

You can add (requeue) inbound or outbound files to a mailbox subdirectory queue.

Inbound files

When you requeue an inbound file, the system moves the file from the *./came* directory to the *./toco* directory.

Outbound file

When you requeue an outbound file, the system moves the file from the *./gone* directory to the *./togo* directory.

Procedure

Use this procedure to add a file to a mailbox queue.

Step	Action
1	Open a mailbox file list that contains the file you want to requeue. **Reference** See the topic “How to Open a Mailbox File List” in this chapter for more information. **Note** Make sure to blank out the **Q** in the Status field of the Select Mailbox/Date screen so that dequeued entries are displayed. Only dequeued entries can be requeued.
2	Select the file that you want to requeue and then press F8.

CHAPTER
5

Routing Files to Mailboxes

Contents

Overview

In this chapter

This chapter describes how to route files into and out of your Advanced Data Distribution system.

Key terms

This table lists the key terms used in this chapter.

Term	Description
dequeue	To remove a file from a queue.
distribution list	A set of mailbox IDs treated as one for distribution purposes.
enqueue	To add a file to a queue.
mailbox	A directory and set of subordinate directories where files addressed to a specific mailbox owner are temporarily stored awaiting pickup. The mailbox owner can also send files to the mailbox.
mailbox file list	A list of the inbound or outbound files in a mailbox.
mailbox ID	The name that you give to a mailbox.
mailbox owner	The trading partner, organization, or internal user who has access privileges to a mailbox.
mailbox session log	A record of the activity that occurred during a mailbox owner's interactive session with the mailbox.
opmail	The program that interfaces the Advanced Data Distribution communications operations and Sterling Gentran:Server scripts with the user's mailboxes.
queue	A dynamic list of files to process, pick up, or route.

How to Route Inbound Files

Introduction

Inbound files are usually associated with a file type. The simplest way to set up routing is to use **opmail** commands in the *checkit* script. Include commands to queue the files to the scan directory of a data manager established to process that type of file.

Example 1
If you have proprietary files, route them to a host command card (hcmd) type data manager.

Example 2
Route X12 files to an inbound (inbd) type data manager.

Procedure

Use this procedure to modify the *checkit* script.

Step	Action
1	Open the *checkit.A+* or *checkit.3780* file. **Example** To open the *checkit.A+* file in the vi editor, enter: vi checkit.A+
2	Enter the appropriate **opmail** command for routing the files. **Reference** See the chapter Miscellaneous Tasks in this guide for a description of the **opmail** commands.
3	Save the script and exit the editor.

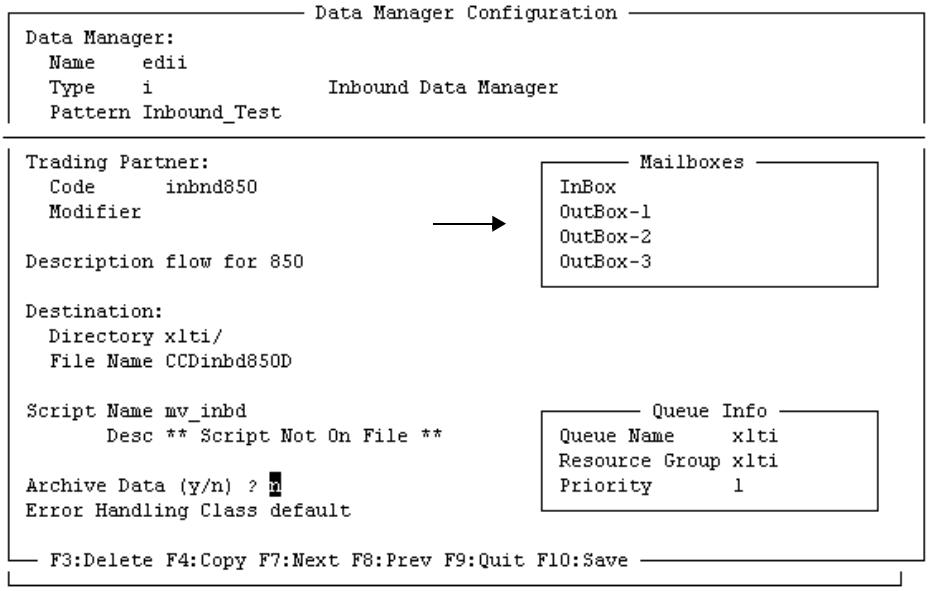
How to Route Outbound Files to a Mailbox

Introduction

Data managers can route files according to the mailbox destinations set on the Data Manager Configuration screen.

Configuration screen

This is an example of a Data Manager Configuration screen.



Routing to mailboxes

To route files to individual mailboxes, enter the mailbox IDs into the fields in the Mailboxes section of the Data Manager Configuration screen. You can route files to one inbox and up to three outbox destinations.

References

See the chapter *Working with Configuration Records* in the *IBM® Sterling Gentran:Server® for UNIX - EC Workbench Data Flow Administration Guide* for information about creating and modifying configuration records.

How the system routes files to mailboxes

The data manager normally routes the file to the *./togo* directory of each mailbox specified for that data manager. The MAIL_PREFIX_CONSTRUCT and MAIL_PREFIX_NAME parameter for the data manager control the mail prefix that is added to the file name placed in the mailboxes.

Reference
See the chapter *Maintaining Initialization Files* of the *IBM® Sterling Gentran:Server® for UNIX - EC Workbench Data Flow Administration Guide* for information about the MAIL_PREFIX_CONSTRUCT and MAIL_PREFIX_NAME parameters.

Routing to distribution lists

To distribute copies of a single file to multiple mailboxes, create a distribution list of mailbox IDs, then enter the distribution list name into the fields in the **Mailboxes** section of the Data Manager Configuration screen.

References
See the chapter Working With Mailboxes in this guide for information about creating distribution lists.

See the chapter *Working with Configuration Records* in the *IBM® Sterling Gentran:Server® for UNIX - EC Workbench Data Flow Administration Guide* for information about creating and modifying configuration records.

How the system uses distribution lists

The data manager sends one copy of the output file to each mailbox in the distribution list. The system gives the same name to each copy of the file routed by the list.

Note
Even if you configure the data manager's initialization UNIQUE_FILE_NAMES parameter to add the nine digit uniqueid to file names, the nine digit uniqueid portion of the file name contains the same value for each file copied to the mailboxes. To create a unique file name for each copy of the file routed by the list, you must turn on the DIST_LIST_CONSTRUCT initialization parameter for the data manager. This parameter adds a six character uniqueid after the nine characters added by the UNIQUE_FILE_NAMES parameter.

Reference

See the topic Data Tracking in the System Components and Processes chapter for a description of the usual parts of a mailbox file name.

See the chapter *Maintaining Initialization Files* of the *IBM® Sterling Gentran:Server® for UNIX - EC Workbench Data Flow Administration Guide* for information about the DIST_LIST_CONSTRUCT parameter.

CHAPTER
6

Miscellaneous Tasks

Contents

Overview

Introduction

Chapter contents

This chapter explains how to perform a number of tasks that you may find useful as you work with your Advanced Data Distribution system.

Key terms

This table lists the key terms used in this chapter.

Term	Description
cancel_mbid	The program that removes outbound queued items from a mailbox queue.
dequeue	To remove a file from a queue.
enqueue	To add a file to a queue.
genmbid	The utility that generate the mailbag identification code.
mailbag ID	The system-generated mailbag identification code that is used to track a data file throughout its life in Sterling Gentran:Server
pullmbid	The program that retrieves the mailbag identification code from a file in a path name.

Opmail

Introduction

The **opmail** program performs a number of tasks. Its main functions are:

- Checking logon IDs and passwords
- Registering files
- Moving files into and out of mailbox directories.

In addition, the program provides a number of options and arguments that perform other functions.

Using opmail commands in scripts

You can use **opmail** commands in scripts, such as the *checkit* script, to enqueue and dequeue files.

Using opmail on the command line

Some **opmail** tasks are run only from the command line. You can run others from either a menu or the command line

Example

To requeue inbound files, run the **opmail** command with the R argument from the command line:

opmail -R<mboxid <type> <range>

Opmail Processes

This table describes the **opmail** processes and indicates where each process is normally run.

Process	Function	Run From
start session log	Starts the session log with a start session message. Creates a Mailbox Life Cycle file record if the EDI_MAILDET environment variable is set.	checkit
register inbound as queued	Tells the line manager to move the file received during a mailbox session from the line manager's work directory to the mailbox owner's *./toco* subdirectory.	*checkit* or command line
register inbound as dequeued	Indicates that files have been moved on to processing or routing. Moves the files from the directory from which it is run to the *./came* directory. If the file is requeued and subsequently dequeued, the retrieve timer is restarted.	checkit
register outbound as queued	Places a file into a mailbox owner's *./togo* directory for pickup after Sterling Gentran:Server has processed the file.	custom script
register outbound as dequeued	Places a file that a mailbox owner has already picked up into a storage/archive area so that it can be picked up again. Moves the files from the directory in which it is run to the *./gone* directory and deletes the file from the directory after the retrieval period expires. If the file is requeued and subsequently dequeued, the retrieval timer is restarted.	command line
dequeue inbound	Moves a file handled by Sterling Gentran:Server from the mailbox owner's *./toco* directory to the mailbox owner's *./came* directory.	custom script
dequeue outbound	Indicates that the mailbox owner has picked up the file. Moves the files from the mailbox owner's *./togo* directory to the *./gone* directory.	checkit

(Contd) Process	Function	Run From
requeue inbound	Places files that arrived from a mailbox owner back into the drop-off (./*toco*) directory. Used when the files never reached Sterling Gentran:Server and you want to restart the process from the drop-off point. Moves the files from the mailbox owner's ./*came* directory.	command line
requeue outbound	Re-sends files that were already sent. Moves the files from the ./*gone* directory to the ./*togo* directory.	command line
password validate	Checks the mailbox owner's password to make sure it is the same password specified in the mailbox owner's mailbox record.	checkit
password change	Changes the mailbox owner's password.	command line
last used inbound	Records the mailbag ID of the most recent inbound session for the mailbox owner. You can use the mailbag ID to place files that arrived from a mailbox owner back into the drop-off directory when you are unsure of the last entry.	checkit
last used outbound	Records the mailbag ID of the most recent outbound session for the mailbox owner. Can be used to re-send files that were already sent (requeue outbound) when you are unsure of the last entry.	checkit
allowed	Checks data types that the mailbox is configured to receive.	checkit
clean inbound dequeued files	Removes files from the ./*gone* directory that have an expired retrieval period. Also removes the file entries from the file register (*mboxfr.idx*). If a file is requeued and subsequently dequeued, the retrieval timer is restarted.	command line longterm script

(Contd) Process	Function	Run From
clean outbound dequeued files	Removes files from the *./came* directory that have an expired retrieval period. Also removes the file entries from the file register (*mboxfr.idx*). If a file is requeued and subsequently dequeued, the retrieval timer is restarted.	command line longterm script
link queued files inbound	Copies files that came in from users but haven't been processed by Sterling Gentran:Server. Copies the files from the mailbox owner's *./toco* directory to the directory from which the command is run	command line
link queued files outbound	Copies the files that are waiting for a user to pick them up so that you can examine them or send them again. Copies the files from the mailbox owner's *./togo* directory to the directory from which the command is run.	command line
verbose	Displays error messages on screen.	command line
end session log	Prints the "end session" message at the end of the session log.	checkit

Procedures

How to Run opmail from the Command Line

Command line format

The command line format is:

opmail -<options> <args>

Command options and arguments

This table lists the **opmail** command options and arguments.

Action	Option	Arguments
start session log	-S or -s	<linename> <mbagid> [linetype]
end session log	-E or -e	<linename> <mbagid> [linetype] [end message]
register INBOUND		
(as queued)	-i	<mboxid> <mbagid> <file list>
(as dequeued)	-I	<mboxid> <mbagid> <file list>
register INBOUND and move files from origin		
(as queued)	-im	<mboxid> <mbagid> <file list>
(as dequeued)	-Im	<mboxid> <mbagid> <file list>
register OUTBOUND		
(as queued)	-o	<mboxid> <mbagid> <file list>
(as dequeued)	-O	<mboxid> <mbagid> <file list>
register OUTBOUND and move files from origin		
(as queued)	-om	<mboxid> <mbagid> <file list>
(as dequeued)	-Om	<mboxid> <mbagid> <file list>
dequeue INBOUND	-D	<mboxid> <mbagid> <file list>

(Contd) Action	Option	Arguments
dequeue OUTBOUND	-d	<mboxid> <mbagid> <file list>
requeue INBOUND	-R	<mboxid> <type> <range>
requeue OUTBOUND	-r	<type> is the file type: ◗ A filename prefix (for example, EDI, PROP) ◗ ALL ◗ PRIOR ◗ MBAG <range> depends on the file type and is one of these values: ◗ Blank ◗ Low date: <date> ◗ Low date high date: <date> <date> ◗ Mailbag ID: <nnnnnn> or <n>[n...]
password validate	-p	<mboxid> <password> [mbagid] [linename]
password change	-P	<mboxid> <old password> <new password> [mbagid] [linename]
last used INBOUND	-L	<mboxid> <mbagid> [linename]
last used OUTBOUND	-l	<mboxid> <mbagid> [linename]
allowed, INBOUND	-A	<mboxid> <type> [mbagid] [linename]
allowed, OUTBOUND	-a	<type> is the line manager flag number (1, 2, 3, ...)
clean inbound dequeued files	-C[g]	<date> The [g] option continues the clean operation even if an error is encountered.

(Contd) Action	Option	Arguments
clean outbound dequeued files	-c[g]	<date> The [g] option continues the clean operation even if an error is encountered.
link inbound queued files	-Q[f]	<mboxid> <file name | ALL> [mbagid] [linename] The [f] option displays the copied files on the screen.
link outbound queued files	-q[f]	<mboxid> <file type | ALL> [mbagid] [linename] The [f] option displays the copied files on the screen.
display error messages	-v	<options>

Argument definitions

This table describes the arguments.

Argument	Description
<date>	The date of the files that you want the command to handle. The date format is [cc]yymmdd. Include the date in the command if you want the message to be part of the Life Cycle record.
[end message]	Message text that you determine.
<type>	For requeue commands, <type> is the type of file. Can be the file name prefix or the key word ALL, PRIOR, or MBAG. For allowed commands, <type> is the line manager flag number.
<file list>	A list of one or more files on the command line, separated by spaces, to be moved into the appropriate directories.

(Contd) Argument	Description
<linetype>	The type of data a line manager is set up to accept. Include the line type in the command if you want the identity of the data type to be part of the Life Cycle record.
<linename>	Name of line user is running on (the line data manager). Include the line name in the command if you want to include the identity of the line manager as part of the Life Cycle record.
<mbagid>	Mail bag identifier for session and data files. The mbagid argument refers to the mailbag identification number. The **genmbid** program can generate this number. The number can be stored in an environment variable. The mailbag ID is provided for convenience; you can replace it with a suitable constant string.
<mboxid>	Mailbox ID.The argument list must reference a mailbox ID (mboxid). This mailbox ID must have been set up in the administrative screens of the Advanced Data Distribution system.
<newpassword>	The new password for the mailbox ID.
<oldpassword>	The old password for the mailbox ID.
<password>	The current password for the mailbox ID.
<range>	If <type> is a file name prefix, ALL, or PRIOR, then <range> is the date or date range for which you want the action applied. ◗ empty ◗ <low date> ◗ <low date> <high date> Where <low date> and <high date> is: ◗ ccyymmdd ◗ partial ccyymmdd If <type> is MBAG, then <range> is the mailbag ID: ◗ <nnnnnn> ◗ <n>[n...]

Reference
See the chapter Setting Up Your System in this guide for information about setting up **opmail**.

How to Change the Mailbox Owner's Password

Introduction

You can use the **opmail** program's change password option on the command line to change a mailbox owner's password.

Command line format

The command line format is:

opmail -P <mboxid> <old password> <new password> [mbagid] [linename]

This table describes the parts of the command.

Command part	Description
-P	The option that changes a password.
mboxid	Mailbox ID.
old password	The mailbox owner's current password.
new password	The mailbox owner's new password.
mbagid	Mail bag identifier for session and data files.
linename	The name of the line manager that handles this mailbox owner's files.

Process

When you enter this command on the command line, **opmail** replaces the mailbox owner's password in the master file register, *mboxfr.idx*.

Moving Mailbox Files

How to Dequeue Outbound Files

Definition

The program **cancel_mbid** removes outbound queued items from a mailbox queue. The item is identified by the mailbag ID.

Command line format

The command line format is:

```
cancel_mbid -r [dm] <mbagid>
```

Option	Function
-d	Dequeues all queued items for the specified mailbag ID. Once the items have been dequeued, “cancel” appears in the DQid field for the item on the Outbound Files list.
-m	Marks all the items that were dequeued on the Outbound Files list.
-r	Prints an on-screen report of all outbound files.

Example 1

Command line:

$cancel_mbid -r 00002N

displays an on-screen report of the items that are waiting to be picked up or are already picked up

```
M D Mailbox Id  QUid   Queued      Dqid   Picked Up  File Name
  0 test        00002N 9602130909                    OUTBOUND856.00002N.000002
  0 test        00002N 9602130909                    OUTBND02856.00002N.000002
  0 test        00002N 9602130909                    OUTBND03856.00002N.000002
```

Example 2 $cancel_mbid -rdm 00002N

dequeues items with a QUid (mailbag ID) of 00002N, marks the items, and displays an on-screen report of the activity

```
M D Mailbox Id  QUid   Queued      Dqid   Picked Up File Name
- 0 test        00002N 9602130909  cancel 962130909 OUTBOUND856.00002N.000002
- 0 test        00002N 9602130909  cancel 962130909 OUTBND02856.00002N.000002
- 0 test        00002N 9602130909  cancel 962130909 OUTBND03856.00002N.000002
```

How to Re-send Outbound Files

Introduction

If files you sent to a mailbox owner did not arrive, you can use the **opmail** program's requeue outbound command on the command line to re-send the files.

When you enter this command, **opmail** moves the files from the mailbox owner's *./gone* directory to the mailbox owner's *./togo* directory so that the mailbox owner can pick them up.

Comment
You cannot requeue files that exceeded the retrieval period.

Command line format

The command line format is:

opmail -r <mboxid> <type> [range]

Command parts

This table describes the parts of the command.

Command part	Description
-r	The argument that re-sends files.
mboxid	Mailbox ID.

(Contd) Command part	Description
type	Either the file name prefix or a key word to designate the type of file. These are the options: ◗ The file name prefix ◗ ALL (You can specify a date in the [range] position) ◗ PRIOR (You can specify a date in the [range] position) ◗ MBAG (You can specify a mailbag ID value in the [range] position)
range	Depending on the value you used for <type>, the date range of the files you want to re-send or the mailbag ID if you used MBAG as the <type>. These are the options: ◗ No date (leave position empty) ◗ Low date (ccyymmdd) ◗ Low date and high date (ccyymmdd ccyymmdd) ◗ No mailbag ID (requeue all outbound files in mailbox ◗ Single mailbag ID ◗ Range of mailbag IDs.

Example 1

Re-send all files in DUSTIN's *./gone* directory that are dated prior to February 25, 1998, to DUSTIN's *./togo* directory.

opmail -r DUSTIN PRIOR 19980225

Example 2

Re-send the files with the mailbag ID 432103 in SMITH's *./gone* directory to SMITH's *./togo* directory.

opmail -r SMITH MBAG 432103

How to Requeue Inbound Files

Introduction

If inbound files never reached Sterling Gentran:Server and you want to restart the process from the drop-off point, you can use the **opmail** program's requeue inbound command on the command line to re-send the files.

When you enter this command, **opmail** moves the files from the mailbox owner's *./came* directory to the mailbox owner's *./toco* directory.

Comment
You cannot requeue inbound files that have exceeded the retrieval period.

Command line format

The command line format is:

opmail -R <mboxid> <type> [range]

Command parts

This table describes the parts of the command.

Command part	Description
-R	The option that moves inbound files from the *./came* directory to the *./toco* directory.
mboxid	Mailbox ID.

(Contd) Command part	Description
type	Either the file name prefix or a key word to designate the type of file. These are the options: ◗ The file name prefix ◗ ALL (You can specify a date in the [range] position) ◗ PRIOR (You can specify a date in the [range] position) ◗ MBAG (You can specify a mailbag ID value in the [range] position)
range	Depending on the value you used for <type>, the date range of the files you want to re-send or the mailbag ID if you used MBAG as the <type>. These are the options: ◗ No date (leave position empty) ◗ Low date (ccyymmdd) ◗ Low date and high date (ccyymmdd ccyymmdd) ◗ No mailbag ID (requeue all outbound files in mailbox ◗ Single mailbag ID ◗ Range of mailbag IDs.

Example 1

Requeue all files in JONES's *./came* directory to JONES's *./toco* directory.

```
opmail -R JONES ALL
```

Example 2

Requeue the files with the prefix EDI in SMITH's *./came* directory to SMITH's *./toco* directory that are dated February 12, 1998.

```
opmail -R SMITH EDI 19980212
```

Miscellaneous Tasks

How to Stop a Line Manager

Introduction

Shutting down processes from a line manager is just like stopping processes from any data manager.

You must have primary control to start or stop any data manager. This means that you must be the first user to invoke the Data Manager Control screen. If another user has primary control, Sterling Gentran:Server displays a message to let you know who has primary control.

Procedure

Use this procedure to stop a line manager.

<table>
<tr><th>Step</th><th colspan="2">Action</th></tr>
<tr><td>1</td><td colspan="2">Select DataMgr from the host Main Menu.

System Response
Sterling Gentran:Server displays the Data Manager Control screen. This screen lists all the data and line managers that have been added to Sterling Gentran:Server.</td></tr>
<tr><td rowspan="4">2</td><td colspan="2">Check the status column of the line manager to determine whether or not it is active. To display current information in the status column, press F6.</td></tr>
<tr><td>Status</td><td>Description</td></tr>
<tr><td>******</td><td>Not running</td></tr>
<tr><td>numeric process ID</td><td>Running</td></tr>
<tr><td>Ending</td><td>Stop command issued; the data manager is deactivating</td></tr>
<tr><td>3</td><td colspan="2">Highlight the data manager you want to stop.</td></tr>
<tr><td>4</td><td colspan="2">Press F3 to stop the data manager.

System Response
The foreground manager, fmgr, sends the line manager a termination request.</td></tr>
</table>

CAUTION

If you issue a stop command when a line manager is active, the line manager's process ID value (PID in the Status field changes to "Ending."

You may need to press F6 to see these changes in the Status column.

Line Manager Shut Down Process

Introduction

This topic describes what happens when you stop a line manager.

The shut down process

This table describes what happens when you stop a line manager data manager.

Stage	Description	
1	You press the stop function key on the line manager's Data Manager Control screen.	
2	The line manager drops off a termination file (named in the LM_TERMINATE parameter of the line manager initialization file) into the *tty* directory.	
3	The clock on the grace period (the amount of time set in the LM_GRACE_SECS parameter of the line manager's initialization file) starts.	
4	The *checkit* script checks the tty directory for the presence of the termination file.	
5	**IF the termination file is…**	**THEN…**
	Present	The presence of the termination file triggers **job** to stop the child process.
	Not present and the child process has not stopped by the end of the grace period	The data manager issues a kill order. This means the child process is stopped (killed) at the end of the grace period if it is still running.
6	When you bring the line manager back up, the *checkit* shell script initializes the files and deletes old files.	

How to Display a Mailbag ID Code

Definition

Pullmbid is a program that pulls the mailbag identification code from a file name.

Use

The program is usually run in a script. However, you can run it from the command line. Use **pullmbid** when you want to extract the mailbag ID code from a file name.

Command line format

The command line format is:
$EDI_ROOT/bin/pullmbid <pathname>

Process

When you enter this command, **pullmbid** displays the 6-character mailbag identification code of the file name on stdout (where standard output is directed). If no mailbag identification code exists, a message appears on stderr (stderr is where error messages are routed; the default is your screen). The return code is -1.

Example 1

```
$pullmbid bigfl.001237.004T71
001237
```

Example 2

```
$pullmbid /usr/edi/smlfl
Error, pullmbid failure: errno=22
```

Example 3

```
$pullmbid $EDI_MAILBOX/j/joeuser/edi.001238.004
001238
```

Example 4

```
$$ FILE_VAR=bigfl.001237.004T71
$ FILE_MB=‘pullmbid $FILE_VAR‘
$ echo $FILE_MB
001237
```

How to Generate a Mailbag ID Code

Definition

The utility **genmbid** generates a mailbag identification (mailbag ID) code.

Use

Usually, you run this command from a script to set the mailbag ID for a file that does not have one. However, you can also run genmbid from the command line. Run the program when you want to create an identifier and extension and modify the file name of an existing file.

Command line format

The command line format is:

```
$EDI_ROOT/bin/genmbid [pathname]
```

Process

The command **genmbid** returns a 6-character mailbag identification code to stdout (where standard output is directed).

If the optional path is included in the command, the command inserts the mailbag identification code in the file name on stdout. The mailbag code always follows any period-delimited prefix on the file name and retains the period on the suffix.

Example 1

Command line:
$genmbid

0T2V33

Example 2

$genmbid /usr/edi/bgfl
/usr/edi/bgfl.0T2V34

Example 3

$genmbid $EDI_ROOT/smfl.002
/usr/edi/smfl.0T2V35.002

Appendix
A

Advanced Data Distribution System Directories and ISAM Files

Where Advanced Data Distribution resides

The Advanced Data Distribution system files and the user directories are located in a directory that your organization established during setup and configured in the environment variable EDI_MAILBOX).

The directory is resident on the same machine as EDI_ROOT and is not a networked (NFS) disk.

Advanced Data Distribution ISAM files

There are four indexed (ISAM) files under EDI_MAILBOX. You can create empty files by using the **isops** tool.

Reference
See the chapter *Command Reference* in the *IBM® Sterling Gentran:Server® for UNIX Technical Reference Guide* for information on using **isops**.

The indexed files have the extension *.idx*. The data files have the extension *.dat.*

File Name	Description
dlname.idx dlname.dat	Contains the names of the distribution list records the Advanced Data Distribution system administrator created.
dstlst.idx dstlst.dat	Contains the names of the mailboxes that comprise each distribution list.

(Contd) File Name	Description
mbox.idx mbox.dat	Contains information about the Advanced Data Distribution system users. The information includes: ◗ The user IDs and encrypted passwords ◗ The flags that indicate the type of information the user may send and receive ◗ The date and time the user last used the mailbox. During Advanced Data Distribution operations, the program **opmail** checks the user's ID and password against this register. The system updates the register when the Advanced Data Distribution system administrator adds a new mailbox user to the system and whenever activity takes place that affects the information in this file.
mboxfr.idx, mboxfr.dat	Contains information about each file in the users' mailboxes. Records the name of the file, when the file arrived, and when it was queued and dequeued. The system updates this file whenever new files enter or leave the system and when files are queued and dequeued.

WARNING

If your organization maintains Life Cycle data for Advanced Data Distribution activity, you must enable the EDI_MAILDET environment variable. EDI_MAILDET is the directory to which Advanced Data Distribution Life Cycle detail is sent. This variable enables the system to create the Advanced Data Distribution Life Cycle file.

mboxfr.dat/idx

General information

This table contains general information about *mboxfr.dat*.

Information	Details
File Type	Mailbox files
File Name	mboxfr.dat
Record Types	1

Record lengths

The record length is 77.

Record layouts

This table contains record layout information for *mboxfr..dat*.

Type	Name	Offset	Length	Description
char	mark	0	2	
char	mode	2	2	File direction ◗ i = inbound ◗ o = outbound
char	user	4		User ID
char	fnam	20	20	Name of file
char	quid	40	7	Mailbag ID of queued file
char	indt	47	11	When file arrived in ./togo directory (seconds from 010170)
char	dqid	58	7	Mailbag ID of dequeued file
char	otdt	65	11	When file moved from ./togo directory to ./gone directory (seconds from 010170)
char	nl	76	1	Newline

CHAPTER
N

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Glossary

agent	A data manager.
cancel_mbid	The program that removes outbound queued items from a mailbox queue.
category	A mailbox class or type.
checkit	The UNIX shell script that interprets job file commands posted to it.
communication job file	A script (mailbox.A+ or abcnet.job) that contains communication instructions. The job file passes information between the modem and the checkit shell script.
communications protocols	The executable communications files, A+ and 3780Plus, that contain a set of rules regarding message exchange.
configuration record	A record that describes how a data manager directs the data that it handles for a particular Trading Partnership code or file name. The record: ◗ Specifies the Trading Partnership code or file name that the data manager is to use to identify data ◗ Tells the data manager what to do with the data it has identified.
database	A collection of stored data often shared by different applications.

data manager

An intelligent agent program that periodically scans a directory or queue for data files and then processes the files it finds. Processing can include:

- Routing data
- Invoking scripts
- Archiving data
- Handling data errors.

default value

The value that Sterling Gentran:Server uses if you do not specify a different value.

dequeue

To remove a file from a queue.

distribution list

A set of mailbox IDs treated as one for distribution purposes.

enqueue

To add a file to a queue.

environment variable

A variable that sets a directory or defines which shell, commands, or programs are to be used.

firewall

A software application that controls access from an external network to an internal network, protecting the internal network from possible hostile action.

foreground manager

The parent data manager of all other data managers. You configure data managers through the Foreground Manager (fmgr). The Foreground Manager must be running before other data managers can be run.

genmbid

The utility that generate a mailbag identification code.

initialization file

The configurable file that sets the data manager’s personality and processing parameters.

Life Cycle — The Sterling Gentran:Server auditing facility that enables you to load data manager event files and translation audit files to an auditing file, such as a relational database table, so that you can use the records for auditing purposes.

Life Cycle event file — The file that contains a data manager's Life Cycle event records. The name of the event file is the data manager's name with a .v suffix.

Life Cycle event record — A record produced when a data manager processes a file. The record contains the date, time, name, and location of the data as it is passed through the data manager.

Life Cycle load programs — The programs **lcld** and **xlld**, which load and update the Life Cycle table with data manager event files.

Life Cycle table — The database table that holds your audit file records. Your EDI administrator creates this the table during the Life Cycle setup process and gives it public access.

line manager — A data manager designed specifically to start and stop Advanced Data Distribution sessions.

line manager flags — A prompt that establishes the type of data that a mailbox accepts.

line manager script — The script that initializes the line manager directories for operations.

log file — A file that contains a record of process activity and messages produced by that activity.

mailbag ID The 6-character, base-32 code that Sterling Gentran:Server generates to identify a session in which files were received and data files passed in the session. The code is used to track a file in Sterling Gentran:Server.

mailbox A directory and set of subordinate directories where files addressed to a specific mailbox owner are temporarily stored awaiting pickup. The mailbox owner can also send files to the mailbox.

mailbox file list A list of the inbound or outbound files in a mailbox.

mailbox ID The name that you give to a mailbox.

mailbox owner The trading partner, organization, or internal user who has access privileges to a mailbox.

mailbox session log A record of the activity that occurred during a mailbox owner's interactive session with the mailbox.

opmail The program that interfaces the Advanced Data Distribution communications operations and Sterling Gentran:Server scripts with the user's mailboxes.

personality The data manager type that determines how the data manager processes data.

PID Process identification number. In a log file, the unique system-generated number that identifies a single process.

port A hardware device on a computer or peripheral that allows data to flow in and out of the computer.

pullmbid	The program that retrieves the mailbag identification code from a file name.
queue	A dynamic list of files to be processed, picked up, or routed.
requeue	To move a file back into a directory.
script	A set of commands that controls processes or performs some action.
script manager	The Sterling Gentran:Server program that directs the script interpreter to execute the commands in a script.
state machine	A device, such as a script, that alters operation modes.
terminal handler	The handler that processes customized instruction sets.
trading partner	A company, division, or group with which you exchange business data electronically.
Trading Partnership	An arrangement with a specific trading partner to exchange information in a specific document type, described by a map file.
Trading Partnership code	A user-defined code that uniquely identifies a Trading Partnership record.

Trading Partnership record	The record that contains information about one of the Trading Partnerships you have established. The record include the Trading Partnership code, the translation map to be used when translating business documents for this trading partner, and whether an acknowledgment is to be generated.
tty handler	A UNIX terminal handler that controls the terminal port and transmissions.

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