

GENTRAN:Server®

**Application Integration:
HIPAA Compliance and
NCPDP User's Guide**

Version 6.0

Sterling Commerce
An IBM Company

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Introduction

Welcome Welcome to the GENTRAN:Server™ for UNIX® and GENTRAN:Server for Workstation *HIPAA Compliance and NCPDP User's Guide* for the Application Integration subsystem.

NCPDP is the National Council of Prescription Drug Programs standard for the electronic exchange of documents.

HIPAA refers to the federally mandated Health Insurance Portability and Accountability Act. This legislation requires that health care providers and insurers use the NCPDP standard for electronic transmissions.

The *HIPAA Compliance and NCPDP User's Guide* provides you with the information you need to develop maps that translate:

- ▶ Your application files to an NCPDP standard format for documents you send to your trading partners (outbound mapping)
- ▶ An NCPDP standard format to your application format for documents that you receive from your trading partners (inbound mapping)

We believe that you will find this software and the supporting materials easy to use and directly beneficial to your business.

What's in This Manual

Assumptions

This manual assumes that you are familiar with using a PC and with Microsoft[®] Windows functions, including the terminology used to describe:

- ▶ Mouse and cursor actions.
- ▶ Windows-specific attributes, such as dialog boxes, icons, windows, and buttons.

This manual also assumes that you are familiar with your internal application format, data mapping concepts, and the GENTRAN:Server for UNIX or Workstation product.

In addition, you should be familiar with the NCPDP Telecommunication Standard Format 5.0.

Description of contents

The *HIPAA Compliance and NCPDP User's Guide* is organized into chapters. This table describes the contents.

Chapter	Description
About This Guide	Introduces the content, organization, and conventions in this guide. This chapter also describes how to get technical support.
HIPAA Compliance Features	Describes the features of GENTRAN:Server designed to help you comply with HIPAA.
Introduction to Using NCPD with GENTRAN:Server	Introduces you to the GENTRAN:Server features that support mapping and translation of data that is in the NCPDP format.
Creating NCPDP Maps	Provides instructions for creating inbound NCPDP and outbound NCPDP maps.
Structuring an NCPDP Map	Explains how to define the components of an NCPDP batch file and provides instructions for creating special map components, such as repeating fields and binary segments.
Creating NCPDP Trading Partnership Records	Provides instructions for creating NCPDP Trading Partnership records.

(Continued on next page)

(Contd) Chapter	Description
Appendix A	Describes the fields in the batch records and transaction header segments.
Glossary	Defines the key terms used in this guide.
Index	Lists terms, concepts, functions, and processes to enable you to quickly find them in this guide.

**Online Help
System**

Additional documentation for GENTRAN:Server for UNIX is contained in the online Help system. The online Help documentation includes all the dialog box element definitions, detailed processing information, and all the “how to” information contained in this manual.

Related Publications

GENTRAN:Server documentation

This table describes additional documentation for the GENTRAN:Server software.

Document	Description
Upgrade and Conversion Guide	Instructions for upgrading from previous versions of GENTRAN:Server Workstation and GENTRAN:Server for UNIX. Also includes instructions for converting the files that are part of the upgrade.
GENTRAN:Server for UNIX Installation and Setup Guide	Instructions for installing the GENTRAN:Server software and performing setup tasks, such as setting up security.
GENTRAN:Server Workstation Installation Instructions	Instructions for installing the GENTRAN:Server Workstation software and performing setup tasks.
Getting Started Guide	Instructions for starting and exiting GENTRAN:Server and for setting preferences and default values. Also includes instructions for checking files in and out and saving files.
Application Integration User's Guide	Instructions for performing mapping and translation tasks.
NCPDP User's Guide	Instructions for mapping and translating NCPDP files with the Application Integration system.
XML User's Guide	Instructions for mapping and translating XML files with the Application Integration system. Note This guide is provided only if your organization has the GENTRAN:Server XML translation option.
ODBC User's Guide	Instructions for mapping and translating ODBC files with the Application Integration system. Note This guide is provided only if your organization has the GENTRAN:Server ODBC translation option.

(Continued on next page)

(Contd) Document	Description
GENCOD User's Guide	Instructions for mapping and translating GENCOD files with the Application Integration system and the Visual Mapper.
VDA User's Guide	Instructions for mapping and translating VDA files with the Application Integration system and the Visual Mapper.
Technical Reference Guide	Describes processes, lists command-line commands in alphabetical order, and describes file record layouts and data type formats.
Data Flow Administration Guide	<p>User instructions for configuring data flows using the GENTRAN:Server for UNIX software.</p> <p>Note This guide is provided only if you have the GENTRAN:Server EC Workbench or higher product level.</p>
Maintenance and Troubleshooting Guide	Instructions for maintaining your GENTRAN:Server installation. Also provides troubleshooting information to help determine the cause and solution of problems that may occur.
Advanced Data Distribution Guide	<p>Instructions for configuring and using the GENTRAN:Server Advanced Data Distribution product.</p> <p>Note This guide is provided only if you have GENTRAN:Server with Advanced Data Distribution.</p>
FTP Daemon User's Guide	Instructions for configuring and using the FTP Daemon tool with the Advanced Data Distribution product.
Online Help	Context-sensitive help screens describing the GENTRAN:Server dialog boxes for the mapping and translation features. Also includes procedures for using the mapping and translation and the data flow administration software.
Readme file	Information about recent enhancements included with this software release. This file is in the <i>/readme</i> directory on the Windows client computer.

(Continued on next page)

Other documentation

This table lists other documentation you may need to refer to when installing and setting up GENTRAN:Server.

Description	Source
Instructions for installing and using the operating system on your computer.	Your hardware vendor The computer manufacturer
Information about the NCPDP format	Publications from the National Council for Prescription Drug Programs, such as: <ul style="list-style-type: none"> ▶ Telecommunication Standard Implementation Guide for NCPDP ▶ Telecommunication Standard Specifications for NCPDP ▶ Batch Transaction Standard for NCPDP ▶ Batch Standard Batch Implementation Guide for NCPDP ▶ Data dictionary for NCPDP

How to Get Help

Introduction This topic explains how to contact Sterling Commerce Product Support if you need assistance with GENTRAN:Server.

Scope of Support Services Sterling Commerce Product Support can provide assistance and information for the following:

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

Unfortunately, Sterling Commerce 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 Sterling Commerce
- Scripts written by Sterling Commerce consultants or service partners

Try this first Before you call Sterling Commerce 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 *GENTRAN:Server Maintenance and Troubleshooting Guide* to learn if your specific problem has been addressed.

(Continued on next page)

Copy this page

Please feel free to 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 Product Support.

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

(Continued on next page)

The sequence of steps that led to the problem

What actions you have taken to try to diagnose or resolve the problem

How to contact support

To determine how to contact support for your geographical location, go to the Sterling Commerce home page (www.sterlingcommerce.com) and then go to **Customer Support** for GENTRAN.

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, names of files and file extensions, and to emphasize important information. Example GENTRAN:Server Getting Started Guide
Bold	Bold type is used for program names, menu names, button names, and entries you are to make on-screen. Example A password is a set of characters a user must enter to gain access to a system.

GENTRAN:Server HIPAA Support Features

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Overview

Introduction

The Health Insurance Portability and Accountability Act of 1996 (HIPAA) requires that various health care plans, and health care providers and clearinghouses meet certain data security and other types of mandates for electronic health care transactions.

Your GENTRAN:Server product provides features to help you meet HIPAA requirements. These are GENTRAN:Server's compliance features:

- Support for the electronic data interchange standards that HIPAA requires
- Provision for automatic logoff
- Provision for emergency access to the system

IMPORTANT

To comply with the HIPAA mandates listed above, you must implement the features as described in this guide. You will not be in compliance if you bypass or modify these features.

Turning on HIPAA features

When you install your GENTRAN:Server product, you must choose the HIPAA compliance option to enable the HIPAA features in the product.

Supported standards

GENTRAN:Server supports the national electronic data interchange (EDI) standards for electronic health care transactions adopted in HIPAA. These are:

- ANSI ASC X12N standards, Version 4010, for all transactions except retail pharmacy transactions. Certain ASC X12 transaction sets include binary segments. GENTRAN:Server is able to process binary segments that are part of a supported standard.
- NCPDP Telecommunications Standard, Version 5.1 (batch version). GENTRAN:Server is able to process repeating elements that are part of this standard.

Automatic logoff

The Health Insurance Portability and Accountability Act (HIPAA) requires software systems that display patient information to automatically exit when not in use. The purpose of this requirement is to prevent unauthorized persons from viewing and gaining access to the system.

(Continued on next page)

To help you protect the confidentiality of individual health information, GENTRAN:Server enables you to configure your system to automatically exit after a specified time has elapsed with no activity.

This feature is implemented differently in GENTRAN:Server Workstation and GENTRAN:Server for UNIX client/server products.

**Emergency
access**

HIPAA requires that software systems provide a means to by-pass security in emergency situations.

GENTRAN:Server for UNIX client/server products provide for emergency access.

Procedures

How to Set Up Security on a Workstation PC

Introduction

If you are running GENTRAN:Server for Workstation on a Windows NT or Windows 2000 platform, you can prevent unauthorized access through your Windows display options. These settings control security:

- ▶ Windows user ID with password
- ▶ Screen saver with password

CAUTION

You must configure both settings to protect your files.

Note

You may not be able to implement HIPAA security on systems that do not allow you to restrict access to drives and files.

Procedure

Use this procedure to set up security on a Windows NT or Windows 2000 computer.

Step	Action
1	<p>When you install your GENTRAN:Server for Workstation software, select the HIPAA compliance option.</p> <p>Reference See your <i>GENTRAN:Server for Workstation Installation Guide</i> for instructions.</p>
2	<p>Configure your Windows display options to require a logon with a user ID and password to access the computer.</p> <p>Reference See your Windows documentation and online help system for instructions on configuring these settings.</p> <p style="text-align: right;">(Continued on next page)</p>

(Contd) Step	Action
3	Configure the access options so that only authorized users can view and run GENTRAN:Server. Note To implement HIPAA security, your operating system must enable you to set up users and restrict access to files.
4	Configure your system's screen saver to protect your files. <ul style="list-style-type: none"> ▶ Select a screen saver ▶ Enable the password protection option and set a password for the screen saver ▶ Select the number of minutes your computer can remain idle before it displays the password-protected screen saver. Reference See your Windows documentation and online help system for instructions on configuring these settings.

System checks

Because you chose the HIPAA compliance option during installation, GENTRAN:Server will verify that you have set your computer's screen saver option with a password when you start certain programs.

If the screen saver with password is not set, the system blocks your access to programs capable of displaying patient information, such as the File Browser. GENTRAN:Server displays a message to remind you that you must set the screen saver option with a password.

If you turn off the screen saver with password option after you start GENTRAN:Server, the system halts and displays a reminder message. You cannot resume until you turn on the screen saver with password

(Continued on next page)

Regaining access

This table shows how to regain access to your system when you have security settings enabled.

IF...	THEN...	AND you must...
The Windows screen saver with password option is turned off when you start GENTRAN:Server	GENTRAN:Server displays an error message and prevents access.	enable the Windows screen saver with password option to gain access.
You turn off the screen saver with password option after you start GENTRAN:Server	GENTRAN:Server freezes activity and displays an error message.	enable the screen saver with password option to continue.
When the timeout value set in your screen saver expires	your computer monitor displays the screen saver configured for your computer along with a password dialog box.	type the password specified for your screen saver into the dialog box and click OK .

How to Set Up Security on a UNIX Host Server and Client PCs

Introduction

In GENTRAN:Server for UNIX, the security feature for the host server and the client machines are controlled at the environment level in Security Administration.

Security functions

When the security feature is enabled, a background process monitors the idle time when an authorized user accesses GENTRAN:Server programs that are capable of displaying patient information. When 15 minutes has elapsed without activity, the process causes the programs to exit (timeout).

The system locks the programs for the user who is logged on, but does not log off the user. Background jobs continue to run during timeout.

Procedure

Use this procedure to turn on security features in a GENTRAN:Server environment.

Step	Action
1	On the host server, start Security Administration.
2	Select Environment Administration from the Security Administration screen. System Response GENTRAN:Server displays the Environment Administration screen. (Continued on next page)

(Contd) Step	Action
3	<p>Move the focus to the HIPAA Compliant [Y/N] field and type Y to enable the security features.</p> <pre data-bbox="643 489 1399 743"> Environment Administration ----- Environment: ADD Root Directory: /qabox3/server60/ADD Standards/Codes: /qabox3/server60/ADD/stds/ Implement Guides: /qabox3/server60/ADD/igs/ App/DDF Files: /qabox3/server60/ADD/apps/ Maps: /qabox3/server60/ADD/maps/ Trading Partner: /qabox3/server60/ADD/tp/ EDI History Audit: /qabox3/server60/ADD/edihist/ Data: /qabox3/server60/ADD/data/ HIPAA Features[Y/N]: Y </pre> <p style="text-align: center;"><ESC>-Exit F1-Help F3-Delete F10-Save</p> <p>Note Enabling security here sets the security features for the GENTRAN:Server for UNIX client machines.</p>
4	Press F10 to save your changes.

Changing the idle time

The default value for idle time is 15 minutes. If you want to change this value, you must edit the auto_logout.cfg text file, which is in the EDI_ROOT directory. The valid values are from 1 to 480 minutes. If you set a value outside that range, the system uses 15 minutes.

Note

The timeout value applies to all users working in the environment.

Regaining access

If you receive a message that a task has been logged off because it has been idle too long, you must log off your session and then log on again to regain access.

How to Access GENTRAN:Server in an Emergency

Introduction This topic explains what to do in the event your GENTRAN:Server security administrator is unavailable or unable to access the system in an emergency situation.

Procedure To gain access to GENTRAN:Server in an emergency, you must call a Sterling Commerce support representative and explain the situation. The support representative will provide a solution.

Introduction to Using NCPDP with GENTRAN:Server

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Overview

Introduction

This chapter introduces you to the basic terminology and concepts you need to know before you create NCPDP maps. It also includes an overview of the process you must follow to handle and translate NCPDP-formatted files.

Key terms

This table describes key terms used in this chapter.

Term	Description
batch detail header record	The segment that contains the Transaction Reference Number.
batch header segment	The header segment that contains information to identify the batch file.
batch mode	A non-interactive way of processing data transactions that have been collected in advance and combined into a single batch file.
batch segment	A positional segment configured to be a batched type.
Batch Transaction Standard	A standardized file submission format that enables organizations to submit electronic transactions in a non-real-time mode.
delimited segment	A variable-length segment that uses separator characters to mark the beginning of groups, segments, or fields.
key fields	The fields in a data file that contain the values GENTRAN:Server uses to determine the Trading Partnership code.
NCPDP	National Council for Prescription Drug Programs
positional segment	A segment that contains fixed-length fields. In GENTRAN:Server you can use either the component length or separator characters to distinguish components in NCPDP data.
request (transaction)	A claim transaction that a pharmacy or other provider submits to an insurer or other processor.

(Continued on next page)

(Contd) Term	Description
response (transaction)	A reply to a request transaction.
separator characters	The characters used to distinguish the start and end of data components in a file.
transaction	A group of data segments that have related data elements or fields. The group makes up a business document, such as a claim for services. The type of transaction is identified by a transaction code, such as B1 for Billing and N3 for Information Reporting Rebill.
transaction header segment	The segment that identifies an NCPDP transmission.
transmission	The highest level of data transfer. A transmission may contain up to three identifying segments and one to four transactions, depending on the transaction type.
transmission-level segment	A segment that occurs once in a transmitted batch file.

Terms Used in the NCPDP Standard

Introduction This topic contains a brief summary of the terms and concepts used in the NCPDP Standard.

Reference

For detailed information about the NCPDP Telecommunication Standard, see the publications issued by the National Council for Prescription Drug Programs.

Transmissions A transmission refers to the entire file that is submitted electronically. It includes telecommunication routing information, identification, and other information that applies to the entire collection of data.

A transmission can contain up to three identifying segments and up to four transactions, depending on the transaction type. All transactions must be for the same patient.

Transactions A transaction is a collection of segments and their data fields that together comprise a business document, such as a claim for services. Within a transmission, transactions (except for Eligibility Verification transactions) are separated by the Group separator character.

Segments A segment is a collection of related data fields. Segments are separated with the segment separator character. They are identified by a segment identifier.

Segments can not occur multiple times within a transaction, but they can occur multiple times within a transmission.

Header segments

The transaction (request) header and response header segments contain fixed-length data fields that identify a transmission. These segments do not use separators to separate the fields in the segment. In these segments, each data field is transmitted at its maximum length positionally. Data fields not needed for a particular transmission are zero or space filled as appropriate.

(Continued on next page)

Other segments

The other (non-header) segments contain mandatory and optional fields. All data fields within these segments are separated from one another by a field separator character.

Fields A field is a basic unit of data. It is sometimes called a data element.

Mandatory fields

Mandatory fields are required units of data that must come first (before optional fields) within the appropriate segment. Each mandatory field is preceded by the field separator and the field's identifier. Mandatory fields may be truncated.

Optional fields

Optional fields are used at the discretion of the provider and the provider's trading partner or processor. Each optional field is preceded by the field separator and the field's identifier. Optional fields may be truncated.

You can place optional fields in any order in a segment, as long as the field is not designated as a qualifier or in a repeating group.

Qualifier fields A qualifier is a field that further defines or provides information about another data field. A qualifier field must be submitted before the field that is qualified.

Example

In a billing transaction (B1), the Patient ID Qualifier field defines the value of the Patient ID field as the patient's Social Security Number.

Field	Name	Value	Description of Value
331-CX	Patient ID Qualifier	01	Social Security Number
332-CY	Patient ID	123456789	Patient's SSN

(Continued on next page)

Separator characters

The specific separator characters used to distinguish groups, segments, and fields are fixed in the NCPDP Standard.

This table lists the separator characters.

Level of Separator	Decimal Representation	Hex Representation	Comment
Segment	30	1E	Separates segments from each other
Group	29	1D	Separates groups from each other
Field	28	1C	Separates fields from each other

Example

This example shows how separators are used in an NCPDP transaction.

```
61006650B112345678901074563663bbbbbbbbb19970920bbbbbbbbb<1E>
<1C>AM04<1C>C2987654321<1E><1C>AM01<1C>CX01<1C>CY12345
6789<1C>C419620615<1C>C51<1C>CAJOSEPH<1C>CBSMITH<1C>C
M123 MAIN STREET<1C>CNMY TOWN<1C>COCO<1C>CP34567
```

Supported NCPDP Version and Transactions

NCPDP version GENTRAN:Server supports version 5.1 of the NCPDP Telecommunications Standard.

Supported transactions

This table lists the NCPDP 5.1 transactions that GENTRAN:Server supports.

Transaction Code	Transaction Name
E1	Eligibility Verification
B1	Billing
B2	Reversal
B3	Rebill
P1	Prior Authorization Request and Billing
P2	Prior Authorization Reversal
P3	Prior Authorization Inquiry
P4	Prior Authorization Request Only
N1	Information Reporting
N2	Information Reporting Reversal
N3	Information Reporting Rebill
C1	Controlled Substance Reporting
C2	Controlled Substance Reporting Reversal
C3	Controlled Substance Reporting Reversal

Transaction Types: Requests and Responses

Introduction

The NCPDP standard has two main types of transactions:

- ▶ Requests, which are claim transactions that a pharmacy or other provider submits to an insurer or other processor
- ▶ Responses, which are replies to request transactions.

Structure of a request

This is the basic structure of a request:

- ▶ Header segment (for a request)
- ▶ Patient segment
- ▶ Insurance segment
- ▶ Transaction segment (up to four per transmission for transaction codes B1-B3, except for compounds, N1-N3, and C1-C3)
 - Claim segment
 - Pharmacy Provider segment
 - Prescriber segment
 - Coordination of benefits/Other payments segment
 - Workers' compensation segment
 - DUR/PPS segment
 - Pricing segment
 - Coupon segment
 - Compound segment
 - Prior authorization segment
 - Clinical segment

(Continued on next page)

Structure of a response

This is the basic structure of a response:

- ▶ Header segment (for a response)
- ▶ Message segment (for a response)
- ▶ Insurance segment (for a response)
- ▶ Transaction response (up to four per transmission)
- ▶ Response Status Segment
 - Response Claim segment
 - Response Pricing segment
 - Response DUR/PPS segment
 - Response Prior Authorization segment

Note

A response transmission contains an NCPDP response transaction for each request transaction received.

NCPDP Transaction Syntax

Introduction Transactions are a collection of segments separated by Segment separator characters. Transactions are separated within a transmission with a group separator character.

Transaction syntax This is an example of the syntax of a billing request transaction:

Transaction header segment

- Transaction header fields. Fixed-length without field separators. In this segment, each data element is transmitted at its maximum length positionally.

Segment separator

Insurance segment

- Required fields within segment, with field separators
- Optional fields within segment, with field separators

Segment separator

Patient segment

- Required fields within segment, with field separators
- Optional fields within segment, with field separators

Group separator

Segment separator

Claim segment

- Required fields within segment, with field separators
- Optional fields within segment, with field separators

Segment separator

Pricing segment

- Required fields within segment, with field separators
- Optional fields within segment, with field separators

(Continued on next page)

Truncation

GENTRAN:Server provides the ability to truncate delimited data elements. If your trading partner accepts variable-length fields, you can use truncation to suppress leading zeros in numeric fields and trailing spaces in alphanumeric fields. Truncation helps decrease transmission time.

Six Key Fields for Trading Partnership Code

Introduction For inbound translation, GENTRAN:Server looks for the values of six key fields in the transaction to determine the Trading Partnership code in an NCPDP batch transaction.

Key field table This table lists the six key fields and their locations.

Key Field	Location
Sender ID	Batch transaction header
Receiver ID	Batch transaction header
Version/Release Number	Transaction header segment
Transaction Code	Transaction header segment
Service Provider ID Qualifier	Transaction header segment
Service Provider ID	Transaction header segment

References

See the [Batch Transaction Header](#) topic in Appendix A of this guide for the layout of the header.

See the [Request Transaction Header Segment](#) and [Response Transaction Header Segment](#) in Appendix A for the layout of the transaction header segments.

NCPDP Batch Transmissions

Overview

Introduction GENTRAN:Server transmits NCPDP transactions in batch mode, using the NCPDP Batch Transaction Standard format.

NCPDP Batch Transaction Standard The NCPDP Batch Transaction Standard is a standardized file submission format that enables organizations to submit electronic pharmacy transactions in a non-real-time mode.

An NCPDP batch transaction has a uniform format that begins with a batch transaction header segment and ends with a trailer segment. The actual transactions are arranged in detail data records between these two segments.

Example

A pharmacy submitting claims to an insurer sends a batch file that contains one batch transaction header, a detail data record for each claim, and one batch trailer segment.

Parts of an NCPDP Batch Transmission

Batch transmission parts

These are the parts (records) in an NCPDP batch transmission:

- ▶ [Batch Transaction Header Segment](#) (segment identifier = 00)
- ▶ One or more [Batch Detail Data Records](#) (segment identifier = G1)
- ▶ [Batch Trailer Segment](#) (segment identifier = 99)

STX and ETX fields

Each part begins with a start-of-text STX field (hex 02) and ends with an end-of-text ETX field (hex 03). The Start- and End-of-text fields are also used to delimit the detail data records within the file.

Example

This example contains a batch header record, two incomplete detail data records, and a batch trailer record. The segment identifiers are in boldface type.

```
(STX)00T1289012345673674589022229876747199412011632T11DEABGHCF
YTEWQASDXZAQ3124(ETX)
```

```
(STX)G110000543219999993201.....(ETX)
```

```
(STX)G110000543229999993201.....(ETX)
```

```
(STX)9948767470000000004initial Test....(ETX)
```

Batch file error response

A batch transmission that does not have a detail data record is considered a response to a batch file error. A batch file error indicates that an entire batch file was rejected, usually because the file failed the processor's file integrity test.

Example

If the record counts in the header segment and the trailer segment do not match, the result is a batch file error.

Batch Transaction Header Segment

Introduction	Each batch file has one batch transaction header segment.
Type	The batch transaction header is a positional (fixed-length non-delimited) segment, 75 characters in length.
Contents	<p>The header contains information that identifies the batch file. This information includes:</p> <ul style="list-style-type: none">▶ Segment identifier▶ Batch Number field that contains the same value as the Batch Number field in the batch trailer segment▶ Creation date▶ Creation time▶ Sender ID▶ Receiver ID <p>Reference See Batch Transaction Header in Appendix A for a description of the fields in the batch transaction header.</p>
Key fields for inbound translation	<p>The Sender ID and Receiver ID in the batch transaction header are two of the six key fields used to determine the Trading Partnership code. The remaining key fields are in the Transaction Header Segment of the batch detail data record.</p> <p>Reference See the topic Six Key Fields for Trading Partnership Code in this chapter for a complete list of the six key fields.</p>

Batch Detail Data Record

Introduction A batch file contains one detail data record for each request or response transmission.

Contents A batch detail data record contains an actual NCPDP transmission. Each detail data record transmitted in the batch file must follow the format defined for the transaction in the NCPDP Telecommunication Standard.

Detail data records contain both fixed-length (positional) and variable-length fields.

A batch transmission can have up to 9,999,999,997 detail data records per file.

Transaction header segment

Each batch detail data record contains a [Transaction Header Segment](#) to identify the transaction set. The transaction header segment for the set begins in position 14 of a detail data record.

Reference

See [Batch Detail Data Record](#) in Appendix A for a description of the fields in the batch detail data record.

Transaction Header Segment

Introduction Each detail data record in a batch file has one transaction header segment that identifies the transaction. This topic explains the role of this segment.

Purpose The transaction header segment:

- Specifies the NCPDP version number
- Identifies the type of transaction

Examples

E1 for eligibility verification
B1 for a billing transaction

- Contains four of the six key fields that GENTRAN:Server uses to determine the Trading Partnership code for inbound translation.

Key fields for inbound translation

These are the key fields in the transaction header segment that GENTRAN:Server uses to find the Trading Partnership code:

- Version/Release # (of the NCPDP Standard)
- Transaction Code
- Service Provider ID Qualifier
- Service Provider ID

Segment structure and transaction type

The structure of the transaction header segment indicates whether the transaction is a request or response.

- A Request Transaction Header Segment is a fixed-length 56-character segment containing 9 fields.
- A Response Transaction Header segment is a fixed-length 31-character segment containing 7 fields.

The transaction header segment is the only segment that does not have a segment identifier. The Transaction Code field in this segment is used to identify the transaction.

(Continued on next page)

References

See [Request Transaction Header Segment](#) in Appendix A for a description of the fields in a Request Transaction Header segment.

See [Response Transaction Header Segment](#) in Appendix A for a description of the fields in a Response Transaction Header segment.

Batch Trailer Segment

Introduction Each batch file has one trailer segment. The trailer segment ends the batch file.

Segment type The batch trailer segment is a positional segment with a length of 56 characters.

Required field The trailer segment contains a Batch Number field that must have the same value as the Batch Number field in the batch transaction header segment.

Reference

See [Batch Trailer Record](#) in Appendix A for a description of the fields in the batch detail data record.

Creating NCPDP Maps

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Overview

Introduction

In this chapter This chapter explains how to create maps that translate data into or from an NCPDP format.

Key terms This table describes key terms used in this chapter.

Term	Description
inbound translation	The translation of an input file that is in an NCPDP standard format into an output file that is in another format
NCPDP template	A file that contains the NCPDP standard components for an NCPDP transaction (B1, B2, B3, etc.) and the batch transmission components.
outbound translation	The translation of an input file into an output file that is in a batch NCPDP standard format

Preparing for Mapping

The NCPDP Standard Templates

Introduction The Standards CD supplied with your GENTRAN:Server for UNIX or GENTRAN:Server for Workstation product has a folder that contains templates for creating NCPDP data definition files (DDFs).

Sterling Commerce provides these templates to help you develop your NCPDP maps quickly and efficiently.

Location The templates for NCPDP transactions are in the folder labelled NCPDP on your Standards CD.

NOTE

The NCPDP transactions exist only in the NCPDP templates; they are not in the Standards database on the Standards CD.

Template contents Each NCPDP template contains:

- ▶ All standard components for the NCPDP transaction (B1, B2, B3, etc.)
- ▶ The standard components required for batch transmissions (batch header, batch trailer)

How to Copy the NCPDP Templates

Introduction We recommend that you copy the folder that contains the NCPDP data definition files to a subdirectory in the folder that holds your file definitions (*.ddf files) so that you can access them when you need them.

Procedure Use this procedure to copy the folder.

Step	Action
1	Insert the Standards CD into your CD drive.
2	Locate the NCPDP Templates folder on the CD.
3	Use your system's copy function to copy the folder from the Standards CD to the destination directory.

Setting Up for NCPDP Translation

Introduction

This topic provides an overview of the tasks you must perform to set up your system to translate NCPDP data.

Stages in the set-up process

This table lists the stages in the process.

Stage	Description
1	Analyze the format of the NCPDP data. Reference See How to Analyze the NCPDP Data .
2	Create the NCPDP map. Reference See How to Create an Inbound NCPDP Map or How to Create an Outbound NCPDP Map .
3	Define the input and output sides of the map. Reference See the Structuring an NCPDP Map chapter for instructions on structuring the NCPDP side of the map. See the <i>GENTRAN:Server Application Integration User's Guide</i> for instructions on structuring the side of the map that is not an NCPDP format.
4	Create the NCPDP Trading Partnership record. Reference See the Creating NCPDP Trading Partnership Records chapter for Instructions.
5	Set translation options for NCPDP data. Reference See the Running Translation chapter in the <i>GENTRAN:Server Application Integration User's Guide</i> for instructions.

How to Analyze the NCPDP Data

Introduction Before you can create a map to translate data into a NCPDP standard format, you must analyze the NCPDP format that you want to use in the map. You will use the information you gather to create a Data Definition Format (DDF) file that defines the NCPDP format you expect to receive or send.

Reference

For more information about Data Definition Format files, see the *GENTRAN: Server Application Integration User's Guide*.

Procedure Use this procedure to analyze NCPDP data.

Step	Action
1	Obtain sample data that is in the NCPDP format you will send to or receive from the processor, intermediary, or provider (trading partner).
2	Analyze the sample data to determine the segment and element layouts and field lengths.
3	Find out which data elements the trading partner requires.
4	Determine the trading partner's ability to accept variable-length transactions and truncated data elements.
5	Determine the kind of data contained in each segment and element.
6	List the map components and layout information for your NCPDP Data Definition Format file.
7	When you build the NCPDP side of your map, add or delete optional fields and segments as necessary to accommodate your trading partner's requirements and those of your organization.

Creating an NCPDP Map

This section describes how to create an NCPDP map. It includes these topics:

[NCPDP Map Components](#)

[How to Create an Inbound NCPDP Map](#)

[Inbound NCPDP Translation Process](#)

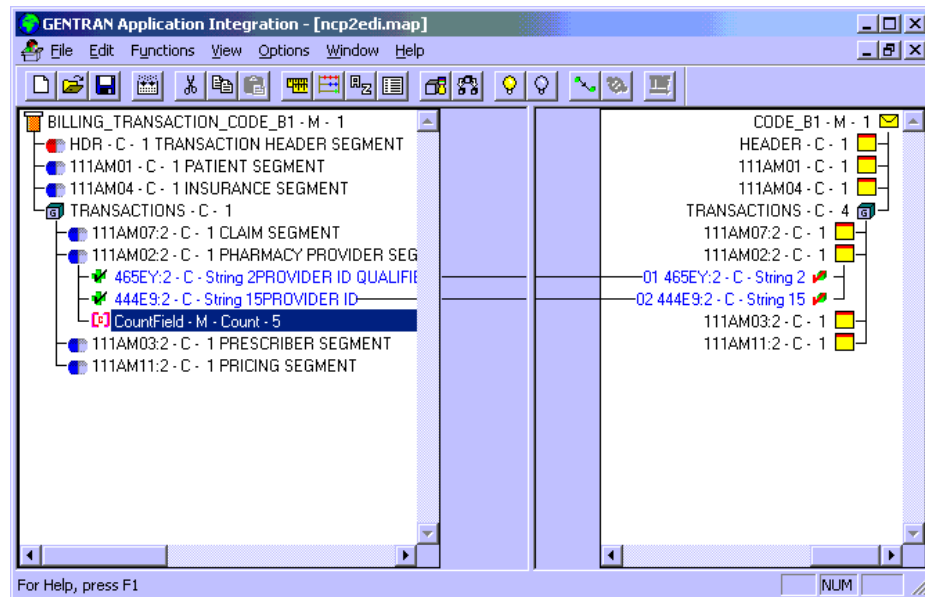
[How to Create an Outbound NCPDP Map](#)

[Outbound NCPDP Translation Process](#)

NCPDP Map Components




Example inbound NCPDP map

This illustration shows an example map that translates inbound data that is in NCPDP format into an application format.







Map component icons

This table describes the icons that GENTRAN:Server uses to visually represent the NCPDP map components:

Icon	Description
	The NCPDP File Format icon identifies the NCPDP file. The file object is the primary component. All other map components are subordinate to the file object.
	A group icon indicates a looping structure that contains related segments and groups that repeat in sequence until either the group data ends or the maximum number of times that the loop is allowed to repeat is exhausted.
	A segment icon identifies a segment. The left side of the icon is red if the segment is positional. The left side of the icon is blue if the segment is delimited.

(Continued on next page)

(Contd) Icon	Description
	A field icon represents the smallest piece of information defined in an NCPDP standard. Fields usually do not have useful meaning until they are combined into segments. Fields can be positional (blue icon) or delimited (green icon). A red indicates an NCPDP data record.
	A linked field icon represents a field that is linked to an element or field on the opposite side of the map.
	A counter field icon represents a counter field.
	A count field icon represents a count field.

How to Create an Inbound NCPDP Map

Introduction

After you analyze the NCPDP data you expect to receive from your trading partner, you are ready to create a map that will translate the NCPDP data into another format, such as your application format.

This topic explains how to create a map for translating data that is in an NCPDP standard format into another format.

Reference

For more detailed instructions about creating maps, see the *Creating a Map* section in the *Designing Your Map* chapter of the *GENTRAN: Server Application Integration User's Guide*.

The NCPDP DDF file

The input side of your map must be a data definition file (DDF) that describes the layout of the incoming file. We recommend that you use the appropriate DDF template that Sterling Commerce provided on your Standards CD. The Sterling Commerce DDF templates contain the batch header and batch trailer segments as well as the transaction segments.

Procedure

Use this procedure to create an NCPDP map.

Step	Action
1	Start the Application Integration mapper.
2	From the File menu, select New to start the New Map Wizard.
3	In the What kind of map are you creating field, select the option that has Standard as the input and has the appropriate output file. Example If your output file is in an application format, select Standard-to-Application as the kind of map you are creating.
4	In the What is the name of the map field, type the unique name of the map, omitting the .MAP extension.
5	Type your name if it differs from the user name that the system supplied.

(Continued on next page)

(Contd) Step	Action	
6	When prompted for the input format, use this table to determine your next step.	
	IF...	THEN...
	You want to use an NCPDP DDF file template that Sterling Commerce provided	Click Load the data format from a saved definition and then click the Browse button to locate the DDF in the directory that you use to store your NCPDP file definitions.
	You want to create a DDF file that defines the NCPDP layout	Click Create a new data format using the syntax and select NCPDP (National Council for Prescription Drug Programs) from the drop-down list.
7	When prompted for the output format, select the appropriate options. Reference See Defining the output format in the How to Create a New Map topic in the <i>GENTRAN: Server Application Integration User's Guide</i> if you need more information.	
8	Click Finish to begin editing your map.	
9	Did you select Create a new data format using the syntax in Step 6? <ul style="list-style-type: none"> ▶ If YES, continue with Step 10. ▶ If NO, go to Step 11. 	
10	Define the NCPDP DDF file, name it, and save it. Then continue with Step 11. References See the Structuring an NCPDP Map chapter for instructions.	
11	Do you need to define the output format? <ul style="list-style-type: none"> ▶ If YES, continue with Step 12. ▶ If NO, go to Step 13. <p style="text-align: right; color: red;">(Continued on next page)</p>	

(Contd) Step	Action
12	Define the output format. You can name it and save it to use in another map. Then continue with Step 13. References See the Designing Your Map chapter of the <i>GENTRAN:Server Application Integration User's Guide</i> for information about defining a format.
13	Complete the map by setting standard or extended rules and linking components on the input and output sides.
14	Save the map.
15	Compile the map to create a translation object. References See the Designing Your Map chapter of the <i>GENTRAN:Server Application Integration User's Guide</i> for information about compiling a map.

Inbound NCPDP Translation Process

Introduction This topic describes the process of translating an input file that is in a batch NCPDP standard format.

Assumptions The input file is a single NCPDP batch file with one batch header and one batch trailer.

Inbound process This table shows the process of inbound NCPDP translation.

Stage	Description	
1	The Iftran program reads the input file and determines that it is in an NCPDP standard format.	
2	The Iftran program validates the data in the batch header record, detail data records, and batch trailer record.	
	IF Iftran...	THEN the program...
	does not find errors	continues with Stage 3.
	finds errors	generates a translation error.
3	The Iftran program splits the NCPDP input file into transaction sets, one for each detail data record.	
4	The Iftran program uses the six key fields in the input data to locate the Trading Partnership code for each transaction set.	
5	The Iftran program passes the NCPDP transactions and Trading Partnership code to the translator. Note The system does not create audit records for NCPDP data.	
6	The translator reads the Trading Partnership record, locates the appropriate translation object (compiled map), and translates the NCPDP transactions.	
7	The translator directs the output files to the directories specified in the Trading Partnership record.	

How to Create an Outbound NCPDP Map

Introduction After you analyze the NCPDP format you send to your trading partner, you are ready to create a map that will translate your application (or other formatted) data into an NCPDP standard format.

This topic explains how to create a map for translating data into an NCPDP standard format.

Reference

For more detailed instructions about creating maps, see the Creating a Map section in the Designing Your Map chapter of the *GENTRAN: Server Application Integration User's Guide*.

The NCPDP DDF file

The output side of your map must be a data definition file (DDF) that describes the layout of the output file. We recommend that you use the appropriate DDF template that Sterling Commerce provided on your Standards CD. The Sterling Commerce DDF templates contain the batch header and batch trailer segments as well as the transaction segments.

Procedure

Use this procedure to create an outbound NCPDP map.

Step	Action
1	Start the Application Integration mapper.
2	From the File menu, select New to start the New Map Wizard.
3	When prompted for the kind of map, select the option that has the appropriate input file and "Standard" as the output. Example If your input file is in an application format, select Application-to-Standard as the kind of map you are creating.
4	When prompted for the input format, select the appropriate options. Reference See Defining the input format in the How to Create a New Map topic in the <i>GENTRAN: Server Application Integration User's Guide</i> if you need more information. (Continued on next page)

(Contd) Step	Action	
5	When prompted for the output format, use this table to determine your next step.	
	IF...	THEN...
	You want to use an NCPDP DDF file template that Sterling Commerce provided	Click Load the data format from a saved definition and then click the Browse button to locate the DDF in the directory you use to store your NCPDP file definitions.
	You want to create a DDF file that defines the NCPDP layout	Click Create a new data format using the syntax and select NCPDP (National Council for Prescription Drug Programs) from the drop-down list.
6	Click Finish to begin editing your map.	
7	Do you need to define or edit the input side of your map? <ul style="list-style-type: none"> ▶ If YES, continue with Step 8. ▶ If NO, go to Step 9. 	
8	Define or edit the input format. You can name it and save it to use in another map. Then continue with Step 13. References See the Designing Your Map chapter of the <i>GENTRAN:Server Application Integration User's Guide</i> for information about defining a format.	
9	Did you select Create a new data format using this syntax in Step 5? <ul style="list-style-type: none"> ▶ If YES, continue with Step 10. ▶ If NO, edit the NCPDP format as necessary and go to Step 11. 	
10	Define the NCPDP DDF file by inserting components and setting the properties. You can name it and save it to use in another map. Then continue with Step 11. References See the Structuring an NCPDP Map chapter for instructions.	
11	Complete the map by adding standard and extended rules and linking components on the input and output sides. <div style="text-align: right; color: red;">(Continued on next page)</div>	

(Contd) Step	Action
12	Save the map.
13	Compile the map to create a translation object. References See the Designing Your Map chapter of the <i>GENTRAN:Server Application Integration User's Guide</i> for information about compiling a map.

Outbound NCPDP Translation Process

Introduction This topic describes the process of translating an input file into an output file that is in a batch NCPDP standard format.

Assumptions The description of the outbound NCPDP translation process is based on these assumptions.

- The output file that the system produces is a single NCPDP batch file with one batch header and one batch trailer.
- Enveloping options are NOT selected. The batch file's batch header and trailer serve this function.

Outbound process

This table shows the process of outbound NCPDP translation.

Stage	Description
1	The Iftran program reads the input file, which is in an application format.
2	The Iftran program determines the Trading Partnership code for each transaction.
3	The Iftran program passes the input transactions and Trading Partnership codes to the translator.
4	The translator reads the Trading Partnership record, locates the appropriate translation object (compiled map), and translates the data.
5	The system uses the information in the Trading Partnership record to determine the values for the batch transaction header and trailer.
6	The system generates the batch transaction detail and transaction or response header segment for each transaction.
7	If the header is mapped, the system merges the mapped header with the generated header.

(Continued on next page)

(Contd) Stage	Description
8	The system produces the final NCPDP output file, which consists of a batch header record, multiple batch detail records, and one batch trailer record.
9	The translator sends the output file to the directory specified in the Trading Partnership record.

Structuring an NCPDP Map

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- ▶ Repeating Fields 107
- ▶ How to Create a Count Field 109
- ▶ How to Create a Counter Field 112

Overview

Introduction

Overview This chapter describes how to structure the NCPDP side of a map.

You can use the instructions in this chapter to:

- Modify the NCPDP components copied from a template.
 - Create all the NCPDP components in a map.
-

NCPDP Map Structure

Introduction

In GENTRAN:Server, an NCPDP map consists of an NCPDP File object, batch segment objects, positional segment objects, delimited segment objects, and field objects. The segments in the transaction portion of a transmission must be contained in a group.

Basic segments

These are the basic segments in a batch transmission. Note that you can have up to four transactions.

- ▶ Batch Header Segment
- ▶ Batch Detail Segment
- ▶ Transaction Header Segment
- ▶ Patient Segment
- ▶ Insurance Segment
- ▶ Transaction Segment
- ▶ Transaction Segment
- ▶ Transaction Segment
- ▶ Transaction Segment
- ▶ Batch Trailer Segment

Segment types

There are two types of segments: positional and delimited.

These are positional (fixed-length) segments:

- ▶ Batch Header Segment
- ▶ Batch Detail Segment
- ▶ Transaction Header Segment
- ▶ Batch Trailer Segment

All other segments in an NCPDP transmission are delimited (variable-length) segments.

(Continued on next page)

Field types

These are the types of fields that GENTRAN:Server supports for NCPDP transmissions:

- ▶ Number
 - ▶ String
 - ▶ Date/Time
-

Field Format Values

This table shows the NCPDP field format values that GENTRAN:Server supports.

Data Type	Data Format
Number	<ul style="list-style-type: none"> <li data-bbox="678 533 1427 625">▶ XNumeric (0 - 9) An unsigned numeric. Always right-justified and zero-filled. Corresponds to “N” format in the NCPDP Standard. <li data-bbox="678 638 1427 919">▶ Overpunch (0 - 9) A signed numeric with implied decimal position. The sign is internal and trailing; zero is always positive; field is always right-justified; and field contains a zero-filled dollar-cents amount with two positions to the right of the implied decimal point. All other positions are to the left of the implied decimal point. A dollar field with an Overpunch sign replaces the right-most digit in the field. Corresponds to “D” format in the NCPDP Standard. <p data-bbox="727 940 1427 1192">Note Overpunch signs are used in dollar fields to represent positive and negative dollar amounts without expanding the size of the field to hold a plus or minus character. The right-most (least significant) digit of a dollar field must be an Overpunch sign, not a digit. The signed value designates the positive or negative status of the numeric value.</p> <p data-bbox="727 1220 1427 1339">Example The dollar field of \$99.95 is represented as 999E with truncation. A negative dollar amount of \$2.50 is represented as 25} with truncation.</p> <p data-bbox="1133 1360 1427 1396" style="text-align: right; color: red;">(Continued on next page)</p>

(Contd) Data Type	Data Format
String	<p>A/N (alpha numeric) format in the NCPDP Standard. Syntax token that defines a range of characters that are valid for a given field. These tokens are predefined:</p> <ul style="list-style-type: none">▶ X = A - Z, a - z, 0 - 9 plus a set of characters▶ A = A - Z, a - z▶ J = A - Z, a - z, 0 - 9 plus a set of characters▶ N = 0 - 9 <p>Note To view a list of the defined syntax tokens, select Syntax Tokens from the Application Integration Edit menu. The system displays the Syntax Tokens dialog box, which displays the characters defined for each syntax token.</p>
Date/Time	<p>Date or time format.</p> <p>Examples</p> <ul style="list-style-type: none">▶ YYYYMMDD (used in NCPDP Standard)▶ YYMMDD▶ HHMMSS▶ HHMM

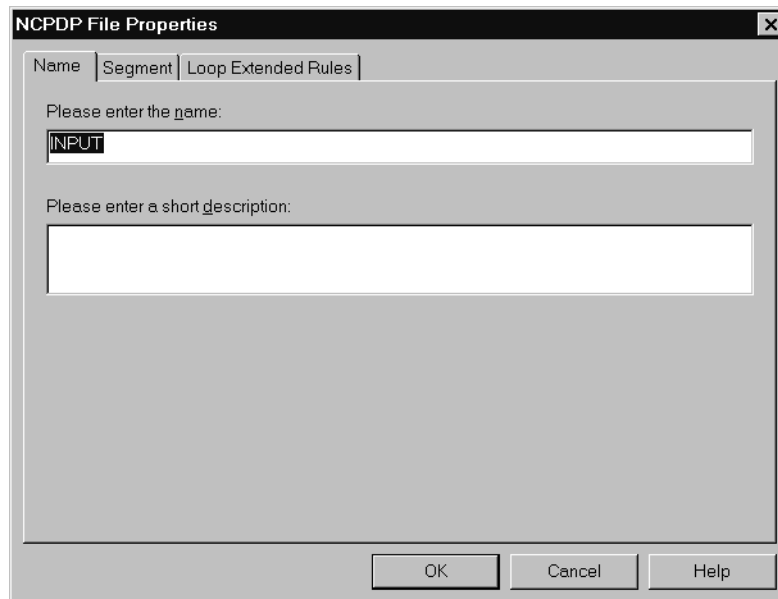
Dialog Boxes

NCPDP File Properties Dialog Box

Introduction

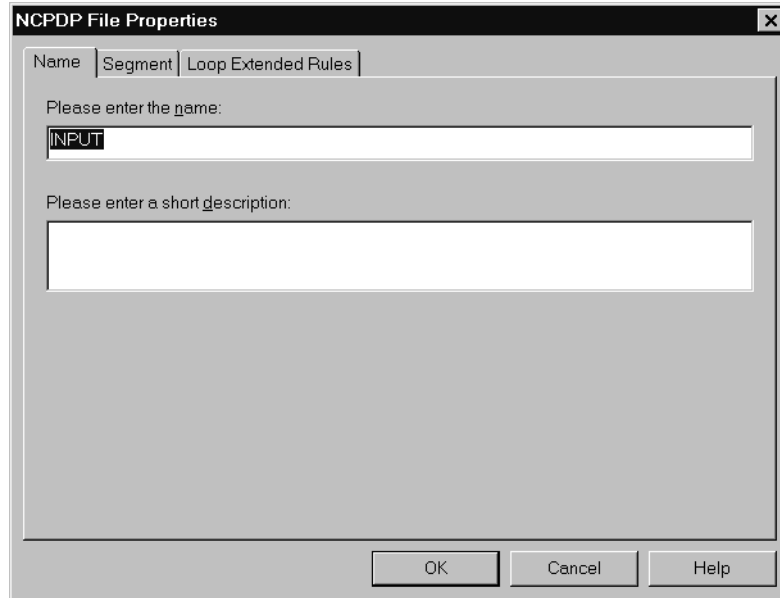
The NCPDP File Properties dialog box is used to define information that helps the translator identify different data structures in the input or output file. It has three tabs:

- ▶ [Name tab](#)
- ▶ [Segment tab](#)
- ▶ [Loop Extended Rules tab](#)



(Continued on next page)

Name tab The Name tab is used to define the name of the root map object. This illustration shows the Name tab.



The screenshot shows a dialog box titled "NCPDP File Properties" with three tabs: "Name", "Segment", and "Loop Extended Rules". The "Name" tab is selected. The dialog contains two text input fields. The first field is labeled "Please enter the name:" and contains the text "INPUT". The second field is labeled "Please enter a short description:" and is empty. At the bottom of the dialog are three buttons: "OK", "Cancel", and "Help".

Name tab fields and functions

This table lists the fields of the Name tab and their functions.

Field	Function
Please enter the name	Defines the name of the root map object.
Please enter a short description	Describes the root map object.

(Continued on next page)

Segment tab

The Segment tab is used to specify segment separators and other structural information. When NCPDP is on the input side of a map, the translator uses this information to identify and validate data structures. When NCPDP is on the output side of a map, the system uses the segment information to generate correct NCPDP data structures.

This illustration shows the Segment tab.

Segment tab fields and functions

This table lists the fields of the Segment tab and their functions.

Field	Function
<i>Positional Segments</i>	
Use Separators	Indicates that a separator character marks the beginning of a positional segment.

(Continued on next page)

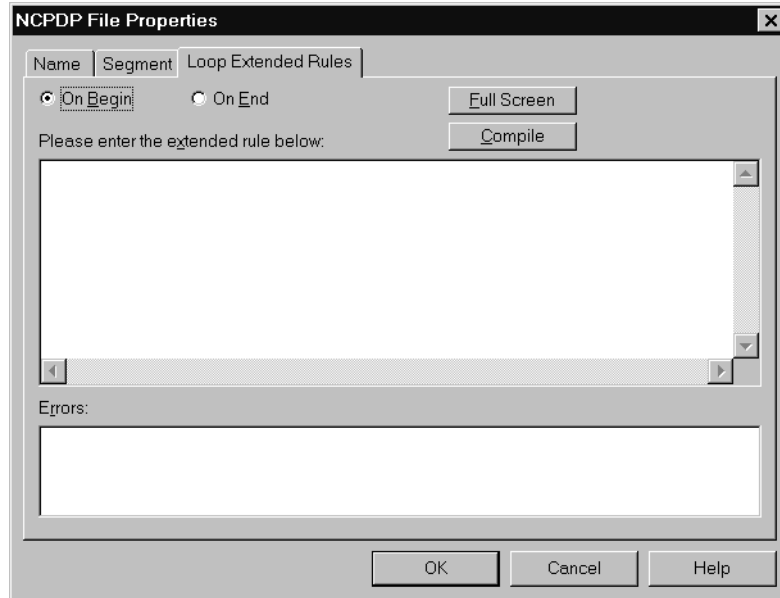
(Contd) (Contd)Field	Function
<i>Positional and Delimited Segments</i>	
Stream Segments	Turns streaming on and off. When this box is checked, each output segment follows another, without a carriage return or line feed to separate them.
Uppercase Strings	For outbound data, this option causes the system to convert all strings to uppercase characters. For inbound data, the system ignores this option.
<i>Delimited Segments</i>	
Specify Separators	Enables you to change the default separator characters used to delimit the data structures. IMPORTANT The NCPDP standard has required separator characters. When the User Separator option is checked, GENTRAN:Server displays these separators in the appropriate boxes. We strongly recommend that you do NOT change these values.
Segment	Specifies the character used to separate segments. The default character is Ox1E
Group	Specifies the character used to separate groups. The default character is Ox1D
Field	Specifies the character used to separate fields. The default character is Ox1C.
<i>Batch Segments</i>	
Start of Text (STX)	Specifies the value that marks the start of the batch record within the file. (Continued on next page)

(Contd) (Contd)Field	Function
End of Text (ETX)	Specifies the value that marks the end of the batch record within the file.
<i>Other fields</i>	
Field ID Length	Specifies the length of the field identifier. Default value is 2 for delimited segments.
Truncate data	Turns data truncation on and off. If this option is checked, the system removes leading zeros, fillers, padding, and spaces from data elements that are not mandatory.

(Continued on next page)

Loop Extended Rules tab

The Loop Extended Rules tab is used to create extended rules at the file object level.



Loop Extended Rules tab fields and functions

This table lists the fields of the Loop Extended Rules tab and their functions.

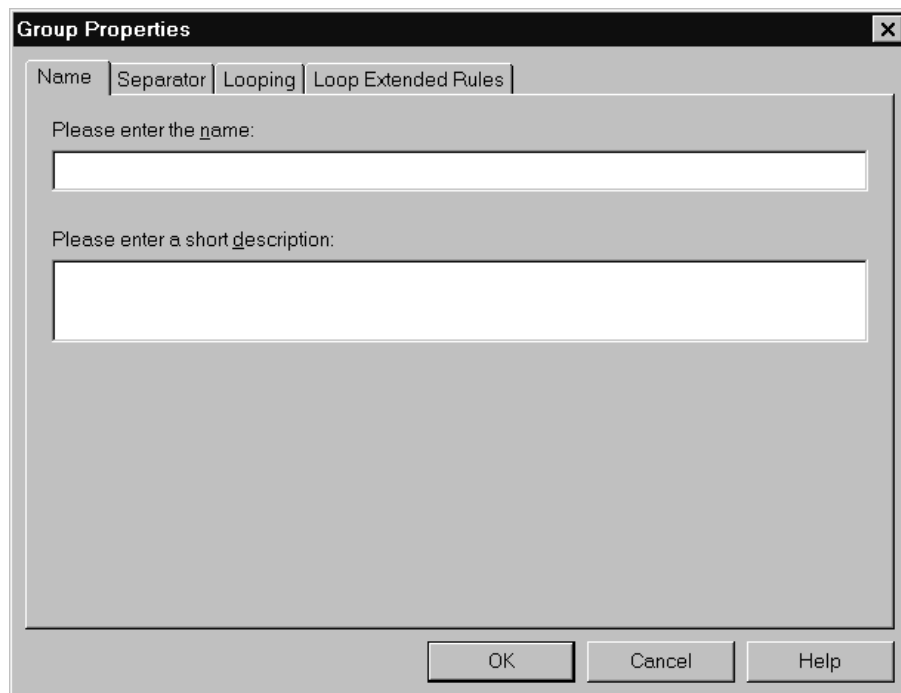
Field	Function
On Begin	Specifies that the extended rule is executed before the system processes the input or output side of the map.
On End	Specifies that the extended rule is executed after the system processes the input or output side of the map.
Full Screen	Maximizes the dialog box.
Compile	Compiles the extended rule. Displays any warnings or errors in the Errors list.
Extended rule	Defines the extended rule.
Errors	Displays any errors generated when you clicked Compile to compile the extended rule.

NCPDP Group Properties Dialog Box

Introduction The NCPDP Group Properties dialog box is used to define information about a group structure in the file. It has four tabs:

- ▶ [Name tab](#)
- ▶ [Separator tab](#)
- ▶ [Looping tab](#)
- ▶ [Loop Extended Rules tab](#)

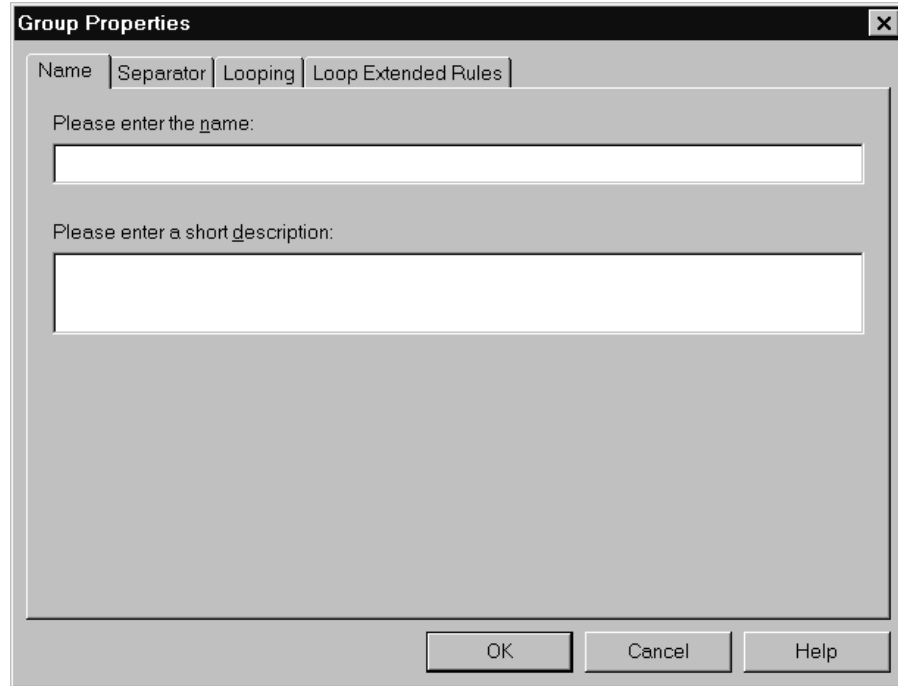
This illustration shows the Group Properties dialog box for an NCPDP group object.



(Continued on next page)

Name tab

The Name tab is used to define the name of the group map object. This illustration shows the Name tab.



The screenshot shows a dialog box titled "Group Properties" with a close button (X) in the top right corner. The "Name" tab is selected, and the other tabs are "Separator", "Looping", and "Loop Extended Rules". The dialog contains two text input fields: "Please enter the name:" and "Please enter a short description:". At the bottom, there are three buttons: "OK", "Cancel", and "Help".

Name tab fields and functions

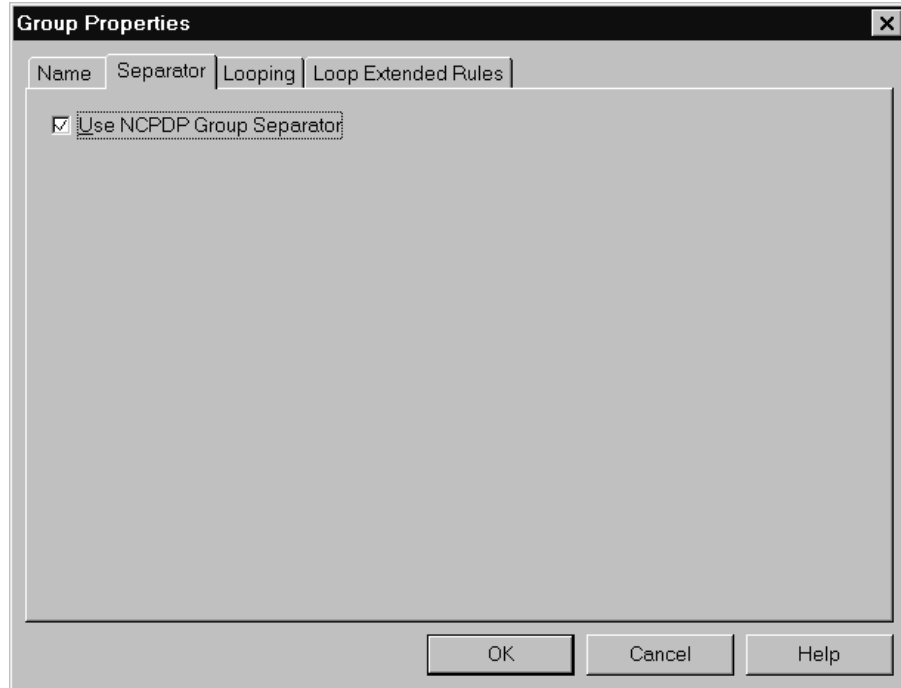
This table lists the fields of the Name tab and their functions.

Field	Function
Please enter the name	Defines the name of the group map object.
Please enter a short description	Describes the group map object.

(Continued on next page)

Separator tab

The Separator tab is used to indicate whether or not the NCPDP Group Separator is used in the file

**Separator tab fields and functions**

This table lists the fields of the Separator tab and their functions.

Field	Function
Use NCPDP Group Separator	<p>Turns use of the NCPDP Group Separator on and off.</p> <p>If the group is on the input side of a map, this option causes the system to expect a group separator in the input file at the beginning of each group.</p> <p>If the group is on the output side of a map, this option causes the system to insert a group separator in the output file at the beginning of each occurrence of the group.</p>

(Continued on next page)

Looping tab

The Looping tab is used to specify that the group is part of a repeating (looping) structure. This illustration shows the Looping tab.

Looping tab fields and functions

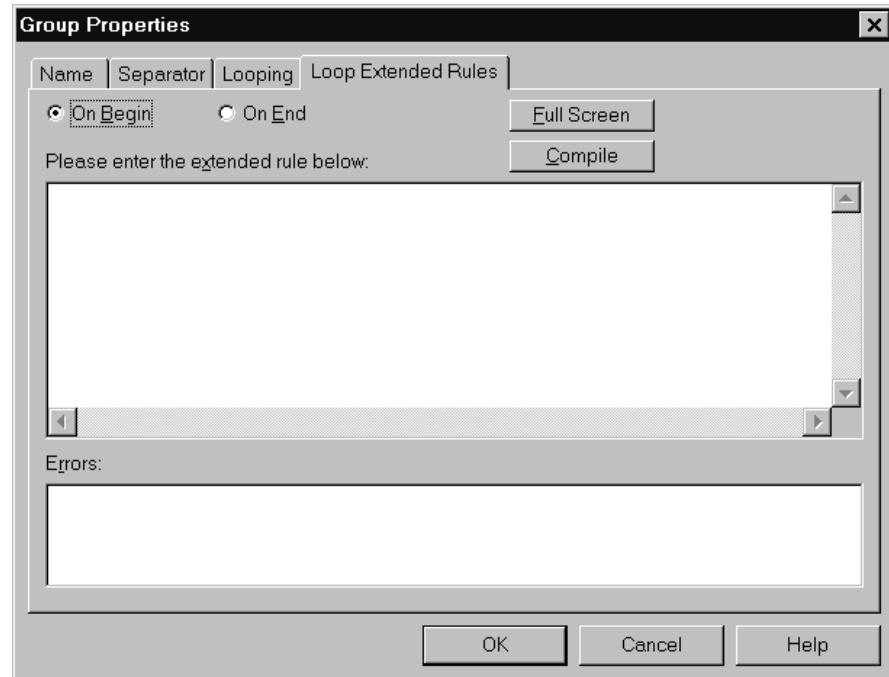
This table lists the fields of the Looping tab and their functions.

Field	Function
Minimum Usage	Specifies the minimum number of times the loop must be repeated.
Maximum Usage	Specifies the maximum number of times the loop can be repeated.
Promote records to parent	Indicates that the subordinate records and groups should be extracted and located in the parent group when the group is compiled.

(Continued on next page)

Loop Extended Rules tab

The Loop Extended Rules tab is used to set extended rules for the group. This illustration shows the Loop Extended Rules tab of the NCPDP Group Properties dialog box.



Loop Extended Rules tab fields and functions

This table lists the fields of the Loop Extended Rules tab and their functions.

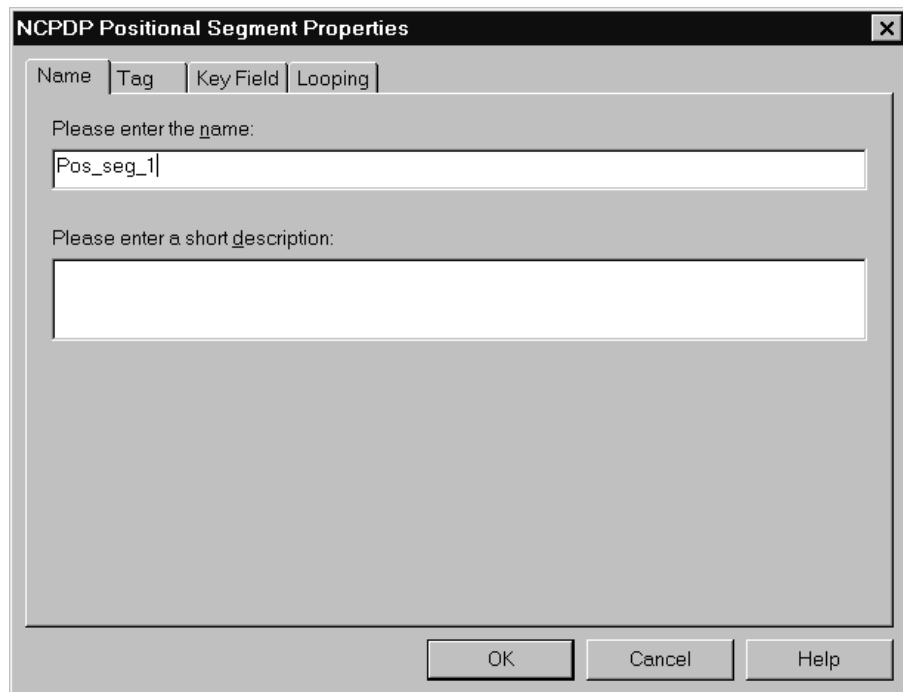
Field	Function
On Begin	Specifies that the extended rule is executed before the system processes each occurrence of the group.
On End	Specifies that the extended rule is executed after the system processes each occurrence of the group.
Full Screen	Maximizes the dialog box.
Compile	Compiles the extended rule. Displays any warnings or errors in the Errors list.
Extended rule	Defines the extended rule.
Errors	Displays any errors generated when you clicked Compile to compile the extended rule.

NCPDP Positional Segment Properties Dialog Box

Introduction The NCPDP Positional Segment Properties dialog box is used to define information about a positional segment. It has four tabs:

- ▶ [Name tab](#)
- ▶ [Tag tab](#)
- ▶ [Key Field tab](#)
- ▶ [Looping tab](#)

This illustration shows the NCPDP Positional Segment Properties dialog box.



The screenshot shows a dialog box titled "NCPDP Positional Segment Properties" with a close button (X) in the top right corner. The dialog has four tabs: "Name", "Tag", "Key Field", and "Looping". The "Name" tab is selected. The dialog contains two text input fields. The first field is labeled "Please enter the name:" and contains the text "Pos_seg_1". The second field is labeled "Please enter a short description:" and is currently empty. At the bottom of the dialog, there are three buttons: "OK", "Cancel", and "Help".

(Continued on next page)

Name tab The Name tab is used to define the name of the map object. This illustration shows the Name tab.

The screenshot shows a dialog box titled "NCPDP Positional Segment Properties" with a close button (X) in the top right corner. It features four tabs: "Name", "Tag", "Key Field", and "Looping". The "Name" tab is currently selected. Below the tabs, there are two input fields. The first is labeled "Please enter the name:" and contains the text "Pos_seg_1". The second is labeled "Please enter a short description:" and is currently empty. At the bottom of the dialog, there are three buttons: "OK", "Cancel", and "Help".

Name tab fields and functions

This table lists the fields of the Name tab and their functions.

Field	Function
Please enter the name	Defines the name of the positional segment.
Please enter a short description	Describes the positional segment.

(Continued on next page)

Tag tab

The Tag tab is used to define the segment identifier or transaction code associated with the positional segment. The translator uses the tag to correctly associate a segment in the input file with its corresponding map segment.

Note

You must define a tag for inbound-side positional segments. This option is not used for output-side positional segments.

This illustration shows the Tag tab.

Tag tab fields and functions

This table lists the fields of the Tag tab and their functions.

Field	Function
Transaction Code	<p>Used to specify a value that GENTRAN:Server can use to identify the segment in the input file.</p> <ul style="list-style-type: none"> ▶ For header segments, this box is used to specify the NCPDP Transaction Code associated with the positional segment. ▶ For batch segments, this box is used to specify the segment identifier. <p style="text-align: right; color: red;">(Continued on next page)</p>

(Contd) Field	Function
Position	For the input side of a map, specifies the character position in the data (starting from 1 or 0) that the Transaction Code or segment identifier occupies. Note This option is not used for segments on the output side of a map.
This is a batch segment	Indicates that the segment is a Batch Header Segment, Batch Detail Data Segment, or Batch Trailer Segment. When you check this option for a batch segment on the output side of a map, this option causes the translator to insert a start-of-text (STX) character at the beginning of the segment and an end-of-text (ETX) character at the end of the segment.

(Continued on next page)

Key Field tab

The Key Field tab is used to specify a second qualification in selecting a segment. (The segment name is the first qualification). This illustration shows the Key Field tab.

**Key Field tab fields and functions**

This table lists the fields of the Key Field tab and their functions.

Field	Function
Field	Specifies the key field for this segment. The translator uses this value in addition to the tag as criteria to use when it is matching a data segment from an input file to a map segment.
<i>Matching rules (input side of map only)</i>	
Use constant	Indicates that a constant is used as a matching rule. The drop-down list is used to select the constant. The Edit button is used to display the Map Constants dialog box.

(Continued on next page)

(Contd) Field	Function
Use codelist	Indicates that a codelist is used as a matching rule. The drop-down list is used to select the codelist. The Edit button is used to display the Code Lists dialog box.
Match record when key does not match	Instructs the system to ignore the specified key field when matching a data segment from the input file to a map segment.

(Continued on next page)

Looping tab

The Looping tab is used to specify that the segment is part of a repeating (looping) structure. This illustration shows the Looping tab.

The screenshot shows a dialog box titled "NCPDP Positional Segment Properties" with a close button (X) in the top right corner. It has four tabs: "Name", "Tag", "Key Field", and "Looping". The "Looping" tab is selected. Inside the dialog, there are two input fields: "Min Usage" with the value "0" and "Max Usage" with the value "1". To the right of these fields are three radio buttons: "Normal" (which is selected), "Loop Start", and "Loop End". At the bottom of the dialog are three buttons: "OK", "Cancel", and "Help".

Looping tab fields and functions

This table lists the fields of the Looping tab and their functions.

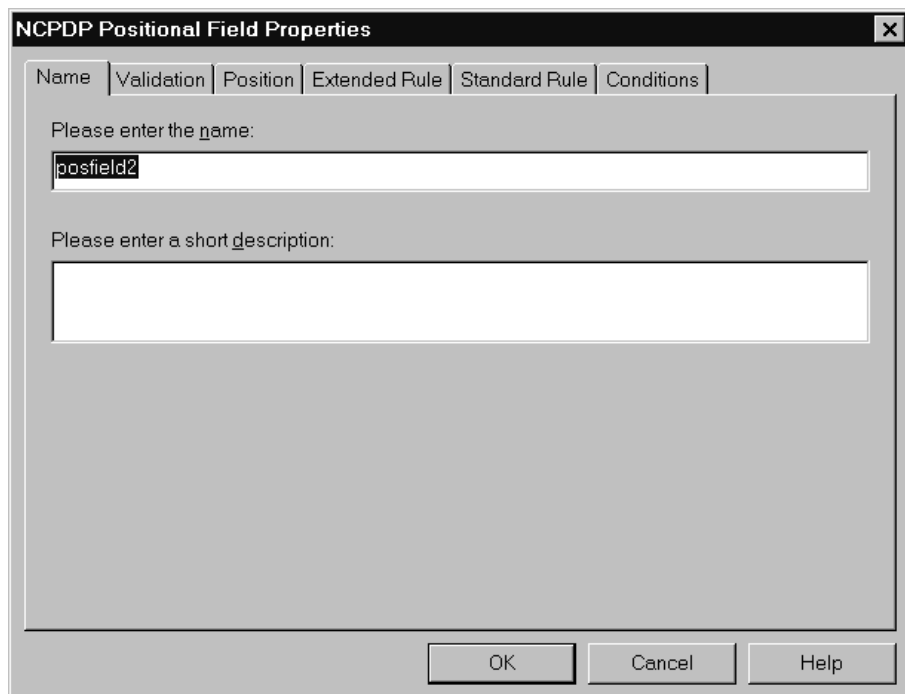
Field	Function
Minimum Usage	Specifies the minimum number of times the segment must be repeated.
Maximum Usage	Specifies the maximum number of times the segment can be repeated.
Normal	Not applicable to NCPDP.
Loop Start	Not applicable to NCPDP.
Loop End	Not applicable to NCPDP.

NCPDP Positional Field Properties Dialog Box

Introduction The NCPDP Positional Field Properties dialog box is used to define information about a positional field. It has four tabs:

- ▶ [Name tab](#)
- ▶ [Validation tab](#)
- ▶ [Position tab](#)
- ▶ [Extended Rule tab](#)
- ▶ [Standard Rule tab](#)
- ▶ [Conditions tab](#)

This illustration shows the NCPDP Positional Field Properties dialog box



(Continued on next page)

Name tab

The Name tab is used to define the name of the positional field. This illustration shows the Name tab.

The screenshot shows a dialog box titled "NCPDP Positional Field Properties" with a close button (X) in the top right corner. The dialog has six tabs: "Name", "Validation", "Position", "Extended Rule", "Standard Rule", and "Conditions". The "Name" tab is selected. Inside the dialog, there are two text input fields. The first is labeled "Please enter the name:" and contains the text "posfield2". The second is labeled "Please enter a short description:" and is currently empty. At the bottom of the dialog, there are three buttons: "OK", "Cancel", and "Help".

Name tab fields and functions

This table lists the fields of the Name tab and their functions.

Field	Function
Please enter the name	Defines the name of the map object.
Please enter a short description	Describes the map object.

(Continued on next page)

Validation tab

The Validation tab is used to set the field's data type, data format, and minimum and maximum length. This illustration shows the Validation tab.

Validation tab fields and functions

This table lists the fields of the Validation tab and their functions.

Field	Function
Check here if this field is mandatory	Indicates that this field is required.
Minimum (field length)	Specifies the minimum length of this field.
Maximum (field length)	Specifies the maximum length of this field.
Please choose the data type of this field	Specifies the field's data type: <ul style="list-style-type: none"> ▶ String ▶ Number ▶ Date/Time <p style="text-align: right; color: red;">(Continued on next page)</p>

(Contd) Field	Function
Please choose the format of the data in this field	Specifies the data format. The available formats are based on the data type. String: <ul style="list-style-type: none"> ▶ X Number: <ul style="list-style-type: none"> ▶ Overpunch ▶ N0 - N9 Date: <ul style="list-style-type: none"> ▶ YYYYMMDD
Data is read/written as raw bytes	Not used for NCPDP.
use little-endian byte ordering	Not used for NCPDP.
use big-endian byte ordering	Not used for NCPDP.
Width	Not used for NCPDP.

(Continued on next page)

Position tab

The Position tab is used to set information about the position of the field in the record. This illustration shows the Position tab.

Position tab fields and functions

This table lists the fields of the Position tab and their functions.

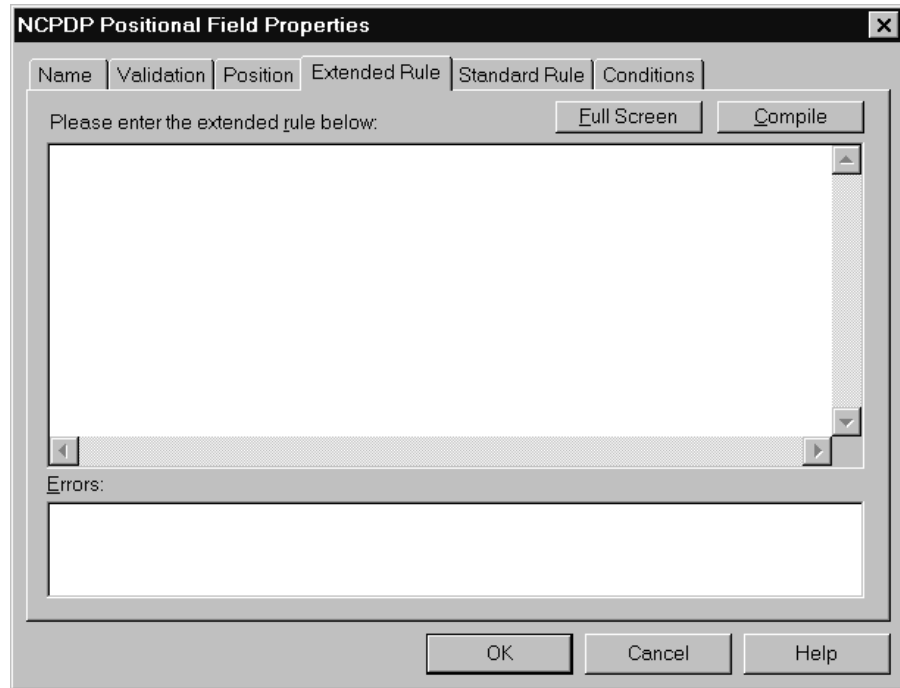
Field	Function
Enter the position where this field begins in the record (starting from 1)	Specifies the starting position of this field.
Enter the number of characters this field occupies in the record	Specifies the length of this field. (Continued on next page)

(Contd) Field	Function
Enter the character used in empty portions of the field	<p>Specifies the type of character used to occupy blank portions of the field.</p> <p>Using this field Type the character you want to use as the padding character. For example, type 0 (zero) to pad the field with zeros.</p> <p>Press the space bar to use a space in empty portions of the field. The system displays SP in the box.</p>
How is the field's data aligned in this record?	<p>Indicates how the data is aligned:</p> <ul style="list-style-type: none">▶ beginning of the field = left-aligned▶ middle of the field = centered▶ end of the field - right-aligned

(Continued on next page)

Extended Rule tab

The Extended Rule tab is used to specify an extended rule for this map object. This illustration shows the Extended Rule tab.

**Extended Rule tab fields and functions**

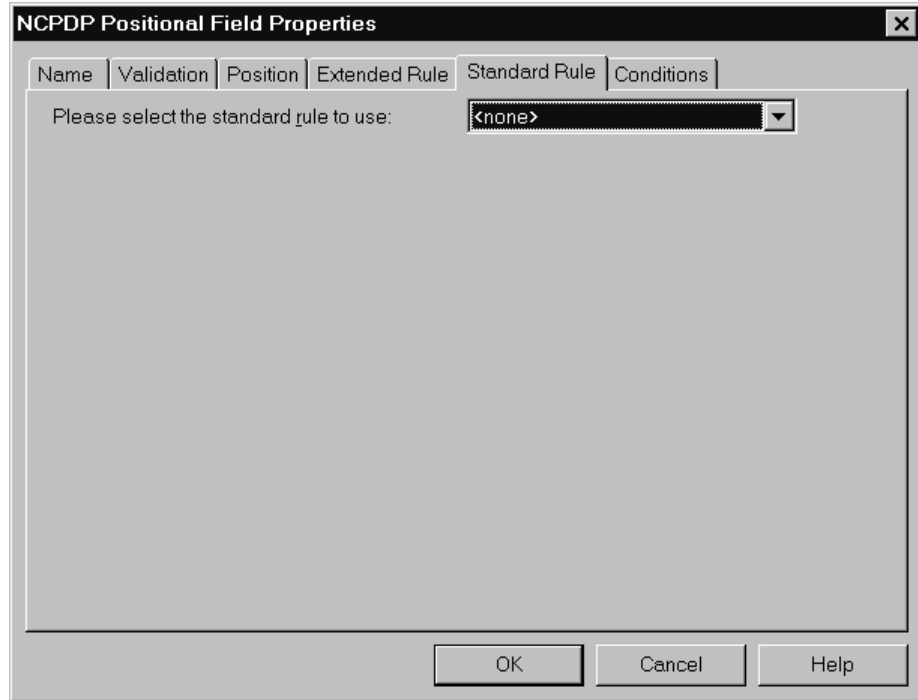
This table lists the fields of the Extended Rule tab and their functions.

Field	Function
Please enter the extended rule below	Enables you to enter the extended rule you want to use for this field.
Errors	Displays any errors that result when you compile this extended rule.
Full Screen	Maximizes the dialog box.
Compile	Compiles the extended rule. Displays any warnings or errors in the Errors list.

(Continued on next page)

**Standard Rule
tab**

The Standard Rule tab is used to specify a standard rule for this map object. This illustration shows the Standard Rule tab.

**Standard Rule
tab fields and
functions**

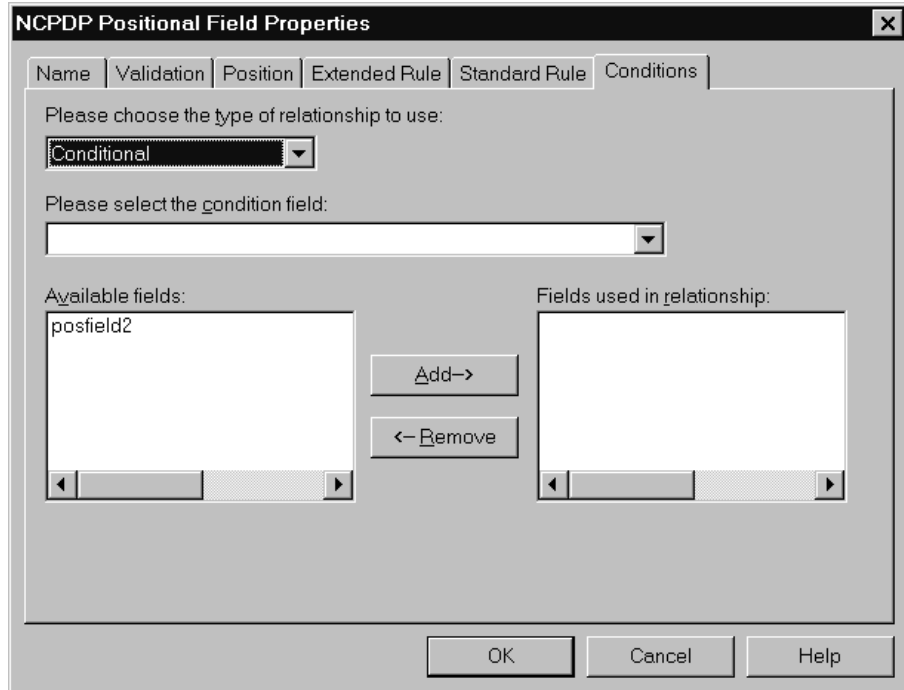
This table lists the fields of the Standard Rule tab and their functions.

Field	Function
Please select the standard rule to use	Specifies the standard rule to use for this field.

(Continued on next page)

Conditions tab

The Conditions tab is used to set relational conditions to connect fields together for syntax or compliance reasons. This illustration shows the Conditions tab.



(Continued on next page)

Conditions tab fields and functions

This table lists the fields of the Conditions tab and their functions.

Field	Function
Please choose the type of relationship to use	<p>Specifies the type of relationship between this field and another field.</p> <ul style="list-style-type: none"> ▶ Paired/Multiple. If any of the specified fields are present, then all fields must be present. ▶ Required. At least one of the specified fields must be present. ▶ Exclusion. No more than one of the specified fields may be present. ▶ Conditional. If the first Condition field is present, the rest of the fields must also be present. ▶ List Conditional. If the first Condition field is present, at least one of the specified fields must also be present.
Please select the condition field	<p>Used to select the first field from the Condition field list. This is the field on which the conditional relationship is based.</p> <p>Note This field is active only when the type of relationship is Conditional or List Conditional.</p>
Available fields	Lists the fields in the map that can be used in the relationship.
Fields used in relationship	Specifies the fields used in the relationship. You build this list by selecting fields in the Possible Fields list and then clicking the Add button.

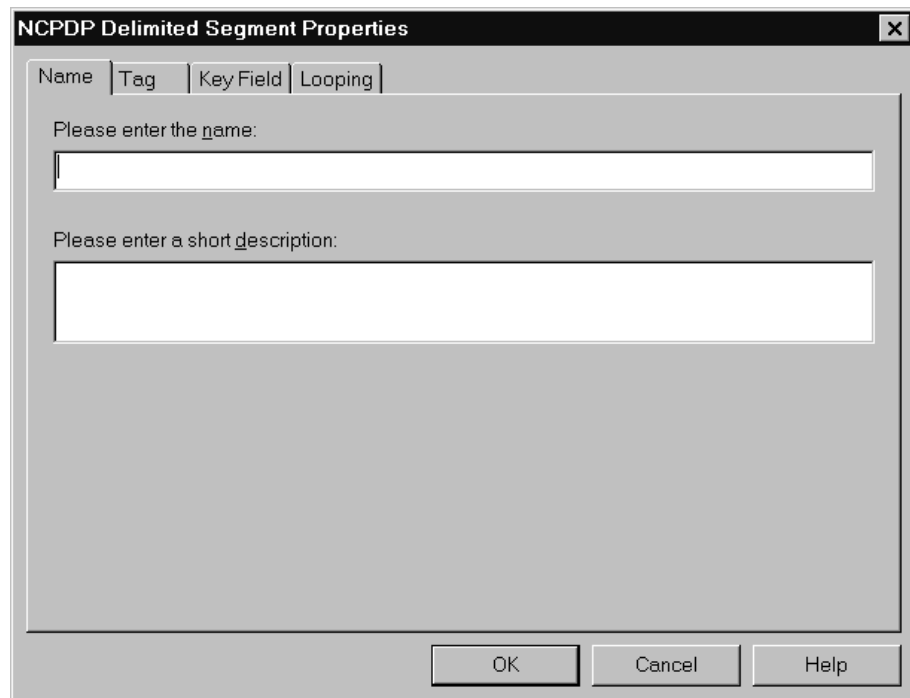
NCPDP Delimited Segment Properties Dialog Box

Introduction

The NCPDP Delimited Segment Properties dialog box is used to define information about a delimited segment. It has four tabs:

- ▶ [Name tab](#)
- ▶ [Tag tab](#)
- ▶ [Key Field tab](#)
- ▶ [Looping tab](#)

This illustration shows the NCPDP Delimited Segment Properties dialog box.



(Continued on next page)

Name tab

The Name tab is used to define the name of the delimited segment map object. This illustration shows the Name tab.

The screenshot shows a dialog box titled "NCPDP Delimited Segment Properties" with a close button (X) in the top right corner. The dialog has four tabs: "Name", "Tag", "Key Field", and "Looping". The "Name" tab is currently selected. Below the tabs, there are two text input fields. The first is labeled "Please enter the name:" and the second is labeled "Please enter a short description:". At the bottom of the dialog, there are three buttons: "OK", "Cancel", and "Help".

Name tab fields and functions

This table lists the fields of the Name tab and their functions.

Field	Function
Please enter the name	Defines the name of the map object.
Please enter a short description	Describes the map object.

(Continued on next page)

Tag tab

The Tag tab is used to define the segment identifier and segment ID value associated with the delimited segment in the map. This illustration shows the Tag tab.

The screenshot shows a dialog box titled "NCPDP Delimited Segment Properties" with a close button (X) in the top right corner. Below the title bar are four tabs: "Name", "Tag", "Key Field", and "Looping". The "Tag" tab is selected. The main area of the dialog contains two text input fields: "Field ID:" followed by an empty text box, and "Segment ID:" followed by an empty text box. At the bottom of the dialog are three buttons: "OK", "Cancel", and "Help".

Tag tab fields and functions

This table lists the fields of the Tag tab and their functions.

Field	Function
Field ID	Specifies the Field ID of the field that contains the segment identifier.
Segment ID	Specifies the Segment ID of the segment.

(Continued on next page)

Key Field tab

The Key Field tab is used to specify a second qualification in matching a segment in the input file with the segment in the map. (The segment name is the first qualification.) This illustration shows the Key Field tab.

**Key Field tab fields and functions**

This table lists the fields of the Key Field tab and their functions.

Field	Function
Field	Selects the field to be used as the key field in this segment.
Use constant	Indicates that a constant is used as a matching rule. The drop-down list is used to select the constant. The Edit button displays the Map Constants dialog box.
Use codelist	Indicates that a codelist is used as a matching rule. The drop-down list is used to select the codelist. The Edit button displays the Code Lists dialog box.
Match record when key does not match	Instructs the system to ignore the specified key field when matching a data segment from the input file to a map segment.

(Continued on next page)

Looping tab

The Looping tab is used to specify that the segment is part of a repeating (looping) structure. This illustration shows the Looping tab.

The screenshot shows a dialog box titled "NCPDP Delimited Segment Properties" with a close button (X) in the top right corner. It has four tabs: "Name", "Tag", "Key Field", and "Looping". The "Looping" tab is selected. Inside the dialog, there are two input fields: "Min Usage" with a value of "0" and "Max Usage" with a value of "1". To the right of these fields are three radio buttons: "Normal" (which is selected), "Loop Start", and "Loop End". At the bottom of the dialog are three buttons: "OK", "Cancel", and "Help".

Looping tab fields and functions

This table lists the fields of the Looping tab and their functions.

Field	Function
Minimum Usage	Specifies the minimum number of times the segment must be repeated.
Maximum Usage	Specifies the maximum number of times the segment can be repeated.
Normal	Not applicable to NCPDP.
Loop Start	Not applicable to NCPDP.
Loop End	Not applicable to NCPDP.

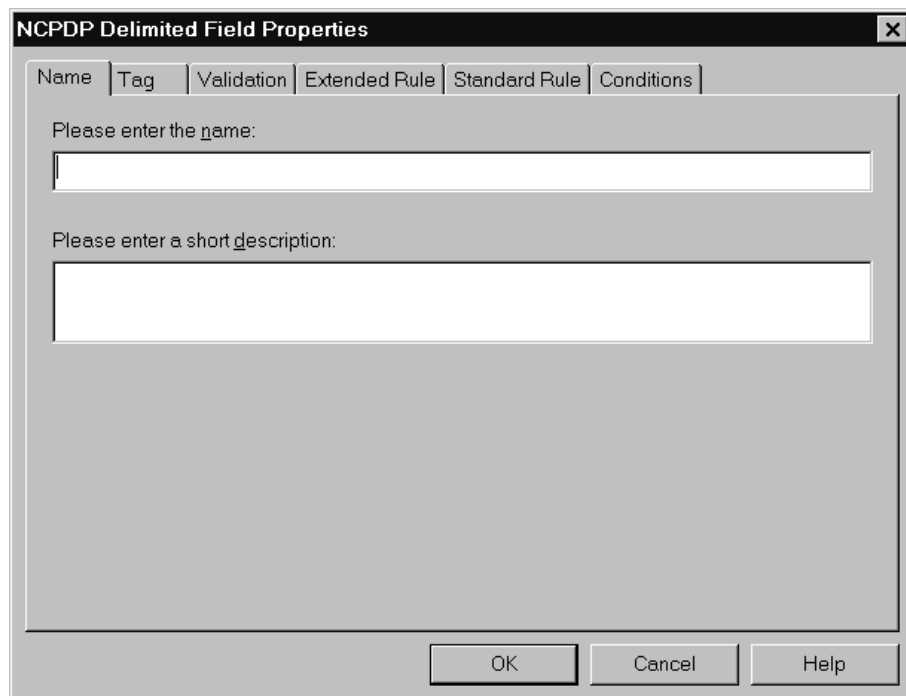
NCPDP Delimited Field Properties Dialog Box

Introduction

The NCPDP Delimited Field Properties dialog box is used to define information about a delimited field. It has six tabs:

- ▶ [Name tab](#)
- ▶ [Tag tab](#)
- ▶ [Validation tab](#)
- ▶ [Extended Rule tab](#)
- ▶ [Standard Rule tab](#)
- ▶ [Conditions tab](#)

This illustration shows the NCPDP Delimited Field Properties dialog box.



(Continued on next page)

Name tab

The Name tab is used to define the name of the delimited field map object. This illustration shows the Name tab.

The screenshot shows a dialog box titled "NCPDP Delimited Field Properties" with a close button (X) in the top right corner. The dialog has six tabs: "Name", "Tag", "Validation", "Extended Rule", "Standard Rule", and "Conditions". The "Name" tab is currently selected. Below the tabs, there are two text input fields. The first is labeled "Please enter the name:" and the second is labeled "Please enter a short description:". At the bottom of the dialog, there are three buttons: "OK", "Cancel", and "Help".

Name tab fields and functions

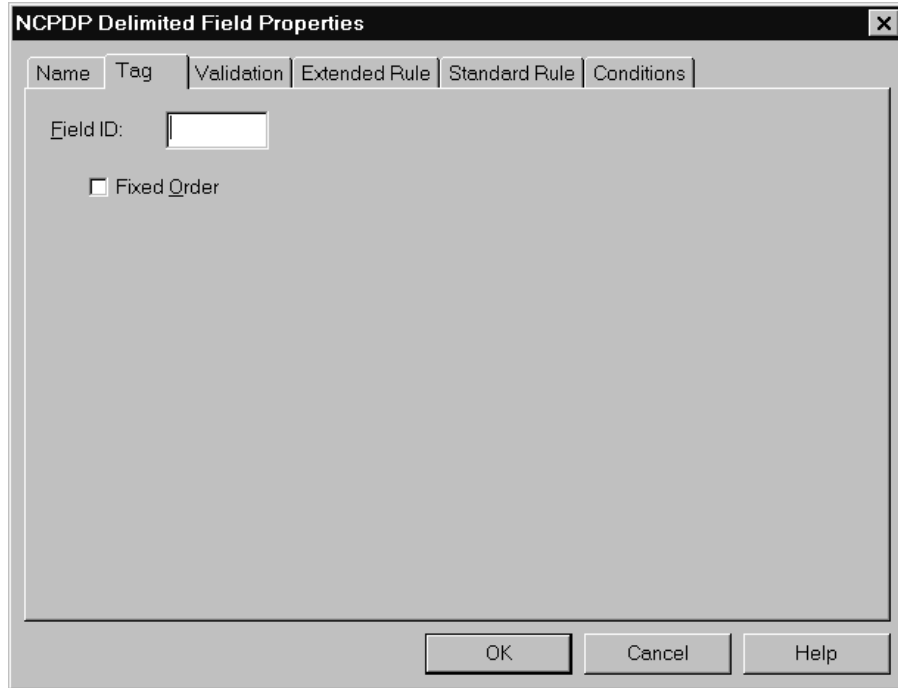
This table lists the fields of the Name tab and their functions.

Field	Function
Please enter the name	Defines the name of the map object.
Please enter a short description	Describes the map object.

(Continued on next page)

Tag tab

The Tag tab is used to define the field identifier associated with the delimited field. This illustration shows the Tag tab.

**Tag tab fields and functions**

This table lists the fields of the Tag tab and their functions.

Field	Function
Field ID	Specifies the field identifier for this field.
Fixed Order	Indicates that this field must occur in the order specified within the segment.

(Continued on next page)

Validation tab

The Validation tab is used to set the field's data type, format, and minimum and maximum lengths. This illustration shows the Validation tab.

Validation tab fields and functions

This table lists the fields of the Validation tab and their functions.

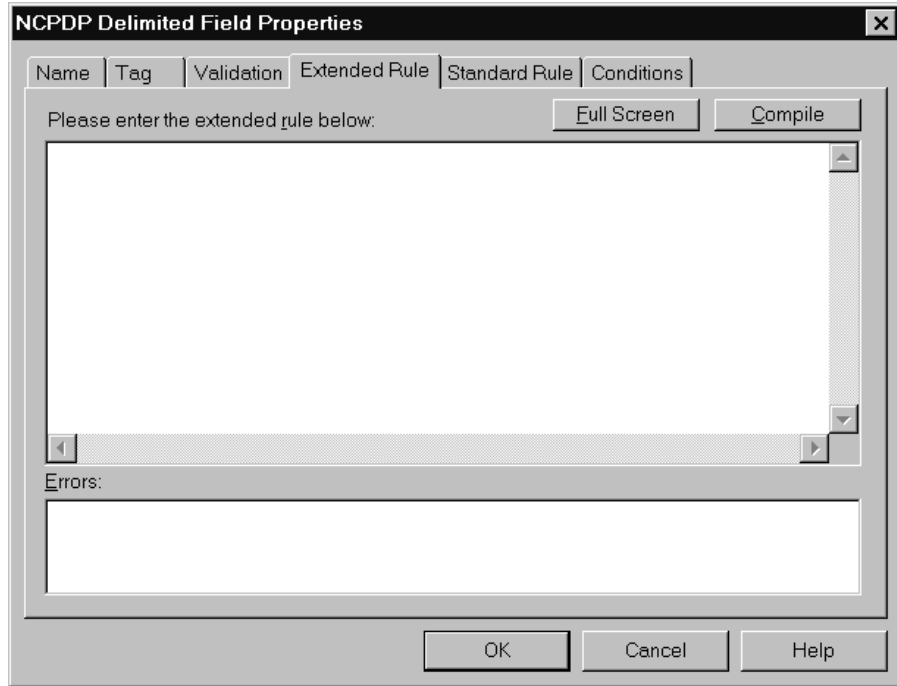
Field	Function
Check here if this field is mandatory	Indicates that this field is required.
Minimum (field length)	Specifies the minimum length of this field.
Maximum (field length)	Specifies the maximum length of this field.
Please choose the data type of this field	Specifies the field's data type: <ul style="list-style-type: none"> ▶ String ▶ Number ▶ Date/Time
Please choose the format of the data in this field	Specifies the data format. <p style="text-align: right; color: red;">(Continued on next page)</p>

(Contd) Field	Function
Data is read/written as raw bytes	Not applicable to NCPDP.
use little-endian byte ordering	Not applicable to NCPDP.
use big-endian byte ordering	Not applicable to NCPDP.
Width	Not applicable to NCPDP.

(Continued on next page)

Extended Rule tab

The Extended Rule tab is used to specify an extended rule for this field. This illustration shows the Extended Rule tab.



Extended Rule tab fields and functions

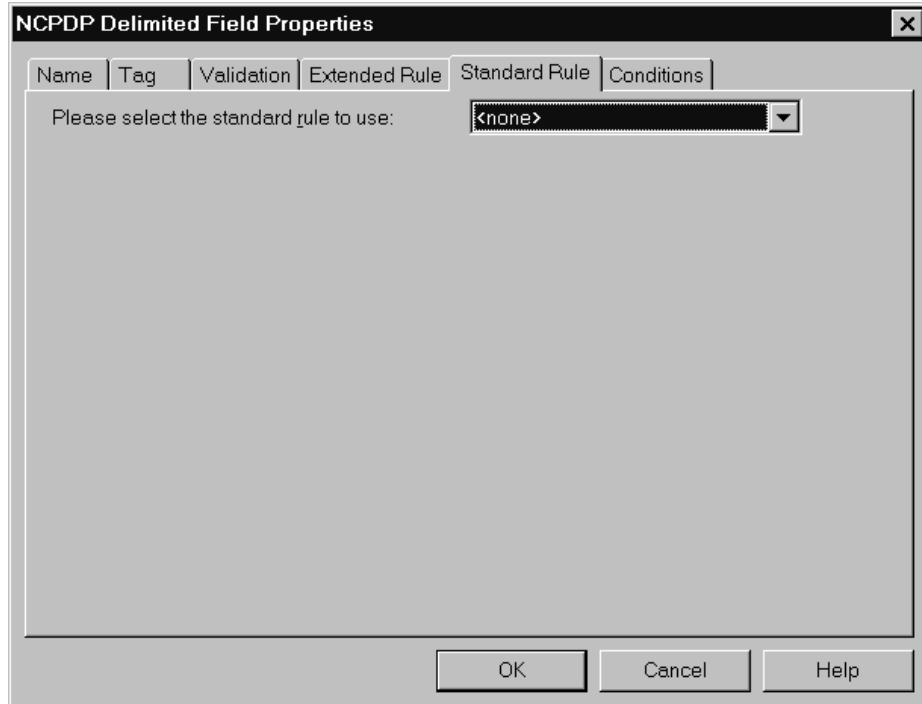
This table lists the fields of the Extended Rule tab and their functions.

Field	Function
Please enter the extended rule below	Enables you to enter the extended rule you want to use for this field.
Errors	Displays any errors that result when you compile this extended rule.

(Continued on next page)

**Standard Rule
tab**

The Standard Rule tab is used to specify a standard rule for this map object. This illustration shows the Standard Rule tab.

**Standard Rule
tab fields and
functions**

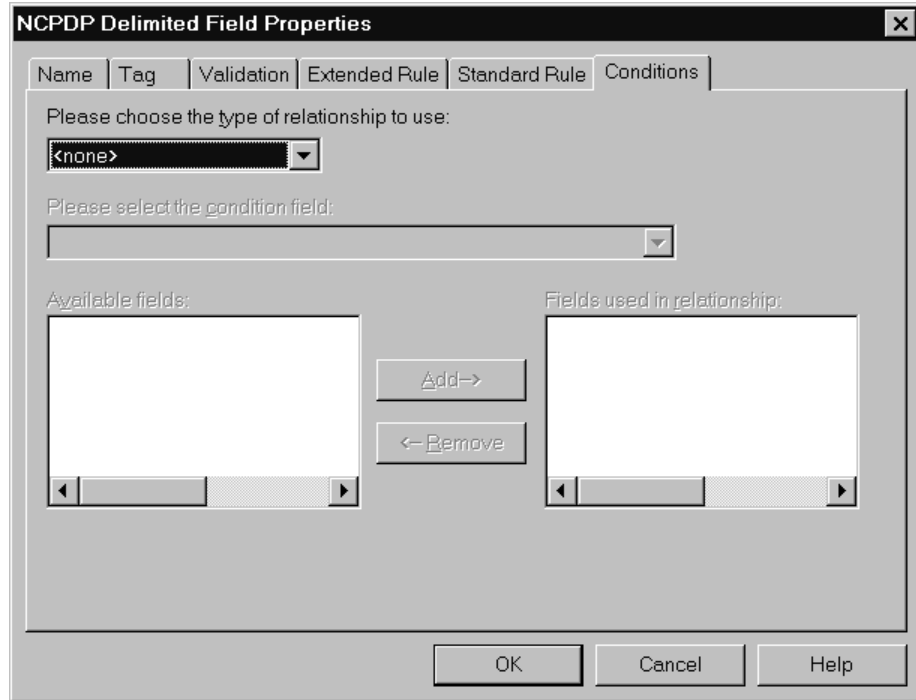
This table lists the fields of the Standard Rule tab and their functions.

Field	Function
Please select the standard rule to use	Specifies the standard rule to use for this field.

(Continued on next page)

Conditions tab

The Conditions tab is used to select relational conditions to connect fields for syntax or compliance reasons. This illustration shows the Conditions tab.

**Conditions tab fields and functions**

This table lists the fields of the Conditions tab and their functions.

Field	Function
Please choose the type of relationship to use	Selects the type of relationship between this field and another field.
Please select the condition field	Specifies the other field in the relationship.
Available fields	Lists the fields that can be used in the relationship.
Fields used in relationship	Specifies the fields used in the relationship.

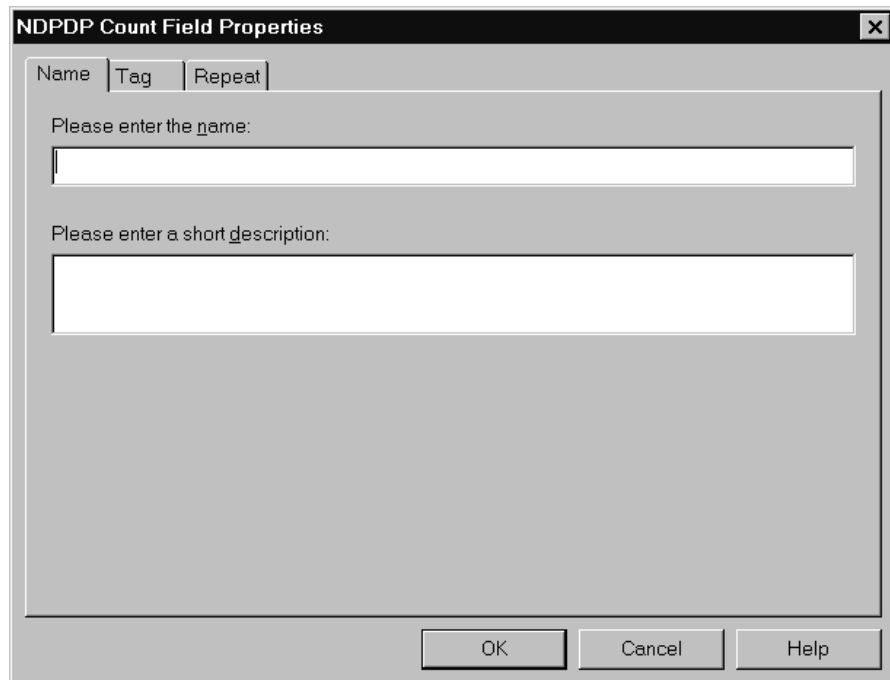
NCPDP Count Field Properties Dialog Box

Introduction

The Count Properties dialog box is used to set the properties of a count field. It has three tabs:

- ▶ [Name tab](#)
- ▶ [Tag tab](#)
- ▶ [Repeat tab](#)

This illustration shows the NCPDP Count Field Properties dialog box.



(Continued on next page)

Name tab The Name tab is used to define the name of the count field. It is also used to describe the field. This illustration shows the Name tab.

The screenshot shows a dialog box titled "NCPDP Count Field Properties" with a close button (X) in the top right corner. It has three tabs: "Name", "Tag", and "Repeat". The "Name" tab is selected. Below the tabs, there are two text input fields. The first is labeled "Please enter the name:" and the second is labeled "Please enter a short description:". At the bottom of the dialog, there are three buttons: "OK", "Cancel", and "Help".

Name tab fields and functions

This table lists the fields of the Name tab and their functions.

Field	Function
Please enter the name	Defines the name of the count field.
Please enter a short description	Describes the count field.

(Continued on next page)

Tag tab

The Tag tab is used to define the field identifier associated with the count field. This illustration shows the Tag tab.

Tag tab fields and functions

This table lists the fields of the Tag tab and their functions.

Field	Function
Field ID	Specifies the field identifier for this field.
Fixed Order	Indicates that this field must occur in the order specified within the segment.

(Continued on next page)

Repeat tab

The Repeat tab is used to set the minimum and maximum times that this count field can repeat (loop). This illustration shows the Repeat tab.

Repeat tab fields and functions

This table lists the fields of the Repeat tab and their functions.

Field	Function
Minimum Usage	Specifies the minimum number of times this field repeats.
Maximum Usage	Specifies the maximum number of times this field repeats.
Treat this field as a repeating field	Indicates that this field is a repeating (looping) field.

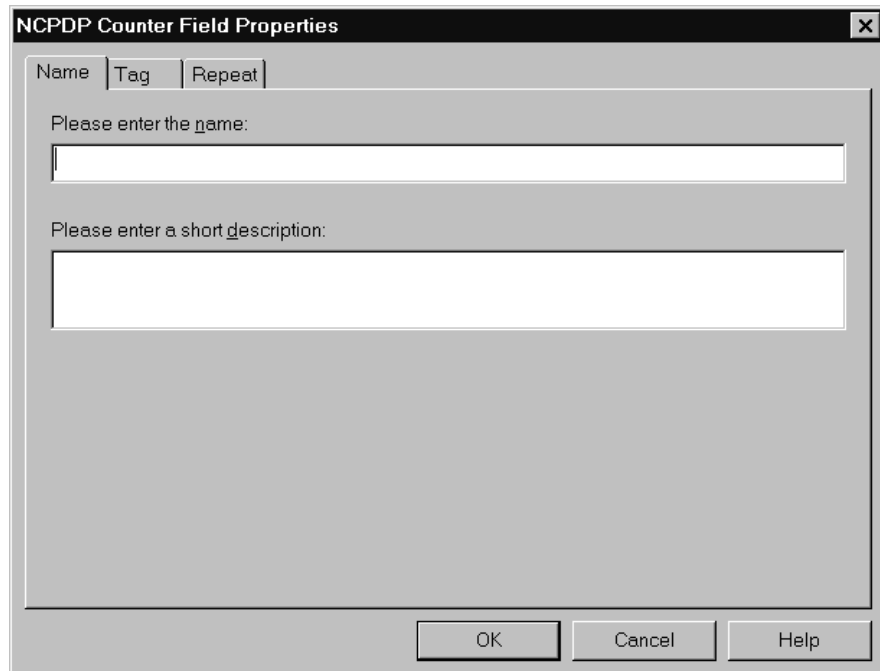
NCPDP Counter Field Properties Dialog Box

Introduction

The Counter Field Properties dialog box is used to set the properties of a counter field. It has four tabs:

- ▶ [Name tab](#)
- ▶ [Tag tab](#)
- ▶ [Repeat tab](#)

This illustration shows the NCPDP Counter Field Properties dialog box.



(Continued on next page)

Name tab The Name tab is used to define the name of the counter field. It is also used to describe the field. This illustration shows the Name tab.

The screenshot shows a dialog box titled "NCPDP Counter Field Properties" with a close button (X) in the top right corner. The dialog has three tabs: "Name", "Tag", and "Repeat". The "Name" tab is selected. Below the tabs, there are two text input fields. The first is labeled "Please enter the name:" and the second is labeled "Please enter a short description:". At the bottom of the dialog, there are three buttons: "OK", "Cancel", and "Help".

Name tab fields and functions

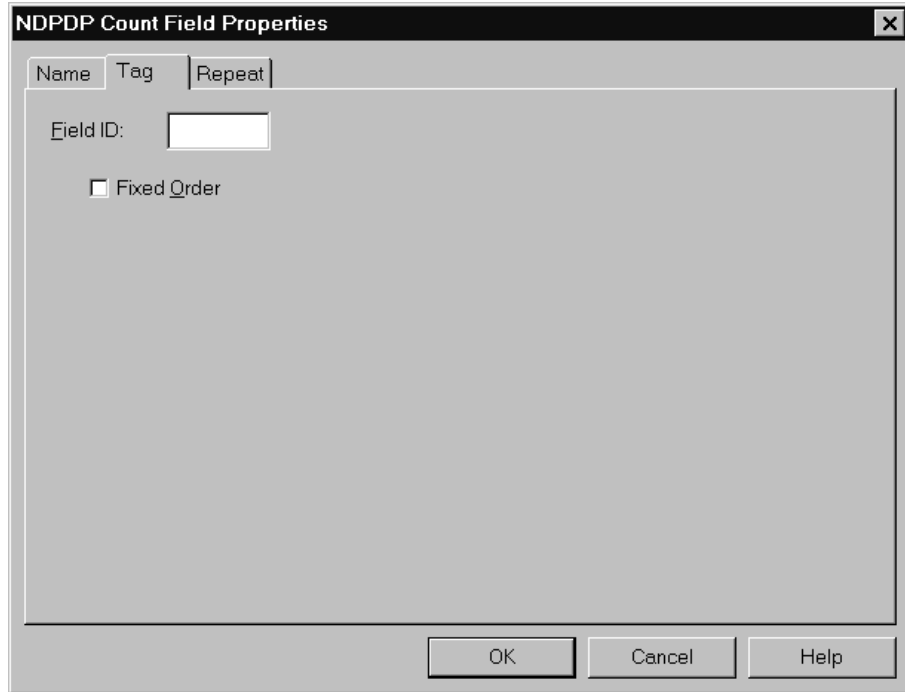
This table lists the fields of the Name tab and their functions.

Field	Function
Please enter the name	Defines the name of the counter field.
Please enter a short description	Describes the map object.

(Continued on next page)

Tag tab

The Tag tab is used to define the field identifier associated with the counter field. This illustration shows the Tag tab.

**Tag tab fields and functions**

This table lists the fields of the Tag tab and their functions.

Field	Function
Field ID	Specifies the field identifier for this field.
Fixed Order	Indicates that this field must occur in the order specified within the segment.

(Continued on next page)

Repeat tab

The Repeat tab is used to set the minimum and maximum times that this counter field can repeat (loop). This illustration shows the Repeat tab.

Repeat tab fields and functions

This table lists the fields of the Repeat tab and their functions.

Field	Function
Minimum Usage	Specifies the minimum number of times this field repeats.
Maximum Usage	Specifies the maximum number of times this field repeats.
Treat this field as a repeating field	Indicates that is field is a repeating (looping) field.

Procedures

Defining an NCPDP Batch File

Introduction

This topic describes the two methods of creating the map components for an NCPDP batch file:

- Loading components from a template
 - Manually creating the components
-

Loading an NCPDP Template

Introduction The simplest way to create the NCPDP side of your map is to load the appropriate NCPDP template that Sterling Commerce supplied with your GENTRAN:Server product. Each template contains the required batch components as well as the transaction components. After you load the template, you can add, cut, and modify components to meet your needs.

Reference

See [How to Copy the NCPDP Templates](#) topic in the chapter [Creating NCPDP Maps](#).

Procedure Use this procedure to copy components from a template.

Step	Action
1	Start the NCPDP map in the Application Integration mapper.
2	When prompted for the format, click Load the data format from a saved definition and then click the Browse button to locate the appropriate NCPDP DDF template. Reference See the Creating NCPDP Maps chapter for instructions.
3	Complete the NCPDP map by modifying components as necessary and linking input fields to output fields. Note To modify a map component, right-click the map component you want to modify and select Properties from the shortcut menu to display the properties dialog box for the component. Reference See the Structuring Your Map section in the Designing your Map chapter of the <i>GENTRAN:Server Application Integration User's Guide</i> for detailed instructions on modifying map components.
4	Save your changes.
5	Compile the map to create a translation object.

Manually Creating NCPDP Map Components

Introduction This table describes the process of defining the NCPDP components in a map. Each stage in this process table has a link to the instructions you need to complete the stage.

Process This table describes the process for manually creating NCPDP map components.

Stage	Description
1	Set the NCPDP File Properties. Reference See How to Configure NCPDP File Properties for instructions.
2	Create the batch header. Reference See How to Create the Batch Header Segment for instructions.
3	Create the groups. Reference See How to Create a Group for instructions.
4	Create the batch detail segment. Reference See How to Create the Batch Detail Data Segment for instructions.
5	Create the transmission header segment. Reference See How to Create a Transaction Header Segment for instructions.
6	Create the transmission segments. Reference See How to Create the Batch Trailer Segment for instructions.
7	Create the transaction groups. Reference See How to Create a Group for instructions.

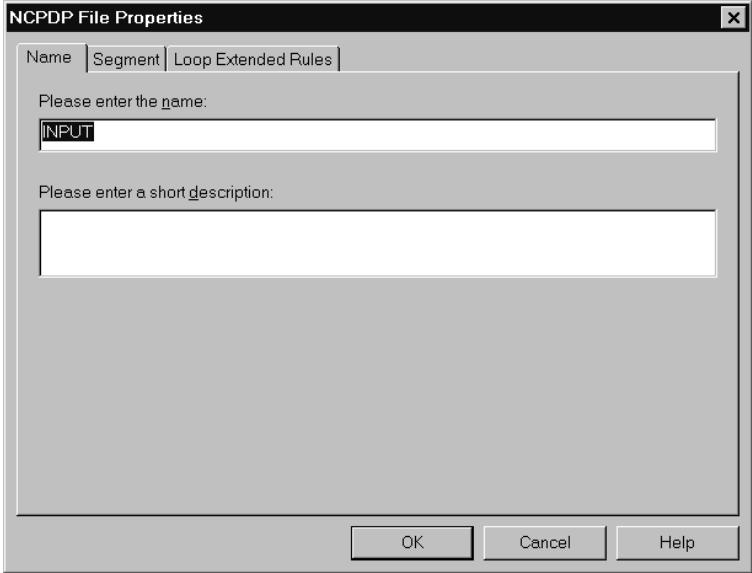
(Continued on next page)

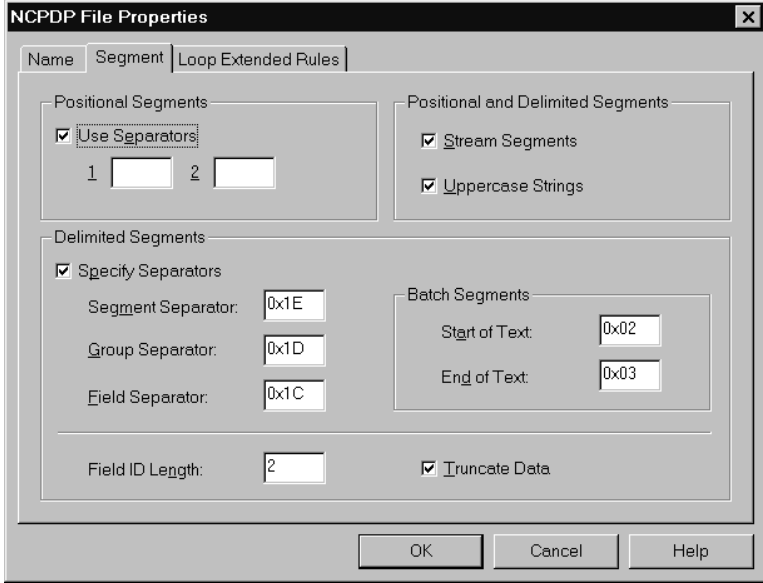
(Contd) Stage	Description
8	<p>Create the transaction segments (for example, Patient segment, Insurance segment) within the groups.</p> <p>Reference See How to Create a Positional Segment and How to Create a Delimited Segment for instructions.</p>
9	<p>Create the fields.</p> <p>Reference See How to Create a Positional Field, How to Create a Delimited Field, and How to Create a Count Field, and How to Create a Counter Field for instructions.</p>
10	<p>Create the batch trailer.</p> <p>Reference See How to Create the Batch Trailer Segment for instructions.</p>

How to Configure NCPDP File Properties

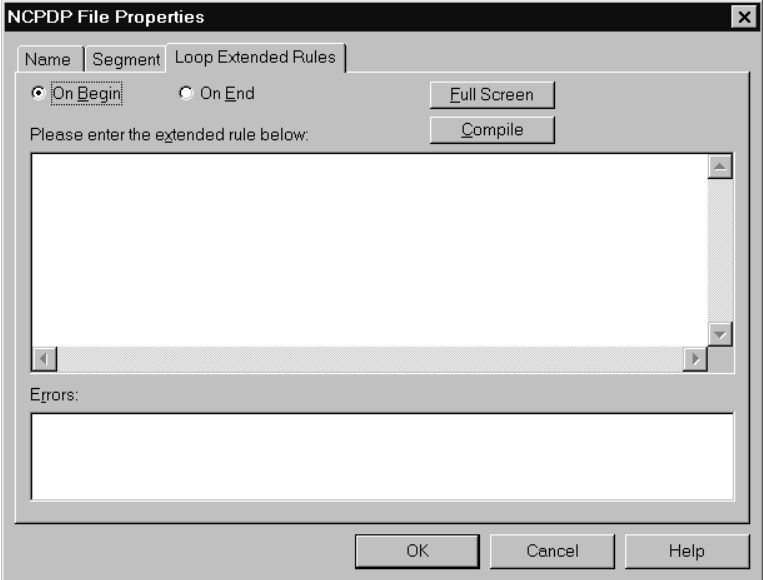
Introduction This topic explains how to set properties at the file level of the NCPDP side of a map. When the NCPDP File object is on the input side of the map, the translator uses the properties to parse and validate input data. When the NCPDP file object is on the output side, the translator uses the properties to structure the output.

Procedure Use this procedure to set the NCPDP File Properties.

Step	Action
1	<p>Right-click the NCPDP file icon and select Properties from the shortcut menu.</p> <p>System Response The system displays the NCPDP File Properties dialog box.</p> 
2	<p>On the Name tab, type the name and description of the root NCPDP map object.</p> <p style="text-align: right; color: red;">(Continued on next page)</p>

(Contd) Step	Action							
3	<p>Select the Segment tab to choose settings that enable the translator to either identify and validate data structures in the NCPDP input file or structure the NCPDP output file.</p> 							
4	<p>In the Positional Segments portion of the tab, indicate whether the positional segments are delimited with separators.</p> <table border="1" data-bbox="634 1205 1421 1820"> <thead> <tr> <th data-bbox="634 1205 1032 1262">IF you...</th> <th data-bbox="1032 1205 1421 1262">THEN...</th> </tr> </thead> <tbody> <tr> <td data-bbox="634 1262 1032 1381">do not want to delimit positional segments</td> <td data-bbox="1032 1262 1421 1381">leave the Use Separators check box blank. (This is the default setting for NCPDP.)</td> </tr> <tr> <td data-bbox="634 1381 1032 1820">want to delimit positional segments (use separators to mark the beginning of the segment)</td> <td data-bbox="1032 1381 1421 1820"> click the Use Separators check box and then type the separator characters in box 1 and 2. Example If you want to delimit positional segments with a carriage return and line feed, specify the carriage return character in box 1 and the line feed character in box 2. (Continued on next page) </td> </tr> </tbody> </table>		IF you...	THEN...	do not want to delimit positional segments	leave the Use Separators check box blank. (This is the default setting for NCPDP.)	want to delimit positional segments (use separators to mark the beginning of the segment)	click the Use Separators check box and then type the separator characters in box 1 and 2. Example If you want to delimit positional segments with a carriage return and line feed, specify the carriage return character in box 1 and the line feed character in box 2. (Continued on next page)
IF you...	THEN...							
do not want to delimit positional segments	leave the Use Separators check box blank. (This is the default setting for NCPDP.)							
want to delimit positional segments (use separators to mark the beginning of the segment)	click the Use Separators check box and then type the separator characters in box 1 and 2. Example If you want to delimit positional segments with a carriage return and line feed, specify the carriage return character in box 1 and the line feed character in box 2. (Continued on next page)							

(Contd) Step	Action
5	<p>If the File object is on the input side of the map, do you expect each input segment to follow another, without a carriage return or line feed to separate them? If the File object is on the output side of the map, do you want output segments structured this way?</p> <ul style="list-style-type: none"> ▶ If YES, select the Stream Segments check box. (You should select this option.) ▶ If NO, continue with the next step. <p>Note If you do not select this option, GENTRAN:Server assumes that each segment starts with a carriage return or line feed.</p>
6	<p>Do you want the translator to change mixed-case characters to all uppercase characters?</p> <ul style="list-style-type: none"> ▶ If YES, select the Uppercase Strings check box. ▶ If NO, continue with the next step.
7	<p>In the Delimited Segments portion of the Segment tab, check the Specify Separators check box.</p> <p>System Response The system displays the default separator characters for NCPDP data in the appropriate boxes.</p>
8	<p>In the Batch Segments portion of the Segment tab, accept the default values in the Start of Text and End of Text boxes. These values mark the beginning and ending of the batch segment within the file.</p>
9	<p>Accept the Field ID Length setting (2) as the length of the field identifiers.</p>
10	<p>Do you want the system to truncate the output data, removing leading zeros, fillers, padding, and leading spaces?</p> <ul style="list-style-type: none"> ▶ If YES, select the Truncate Data check box on the Segments tab. ▶ If NO, continue with the next step. <p>Note Make sure that your trading partner accepts truncated data.</p> <p style="text-align: right; color: red;">(Continued on next page)</p>

(Contd) Step	Action
11	<p>Do you want to set extended rules at the File level?</p> <ul style="list-style-type: none"> ▶ If YES, click the Loop Extended Rules tab and continue with the next step. ▶ If NO, click OK to save your changes and exit the NCPDP File Properties dialog box.
12	<p>On the Loop Extended Rules tab, click either On Begin or On End to indicate when you want the extended rule executed (before the system processes the file or after processing).</p> 
13	Type the extended rule in the Please enter the extended rule below area.
14	Click Compile to compile the extended rule.
15	Resolve any errors displayed in the Errors portion of the dialog box.
16	Repeat step 14 and 15 until the rule compiles without errors.
17	Click OK to save your changes.

How to Create the Batch Header Segment

Introduction

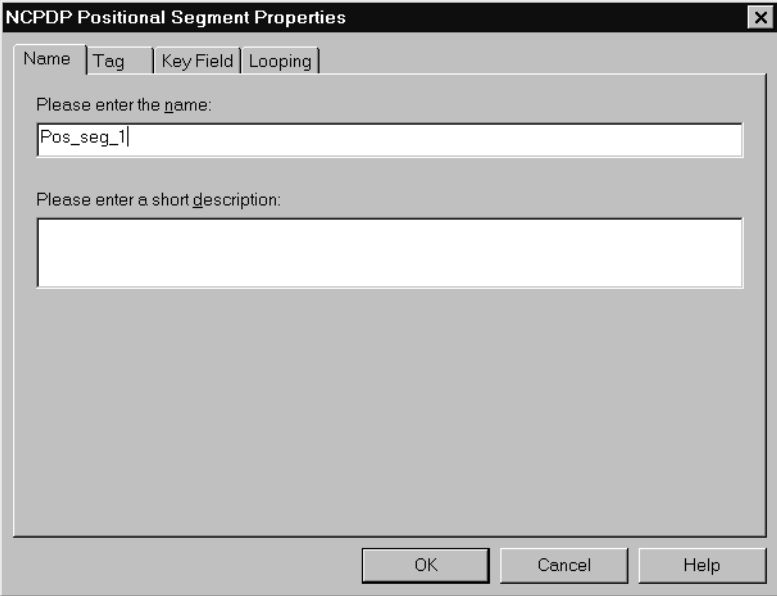
The batch header segment is a positional segment that contains the Sender ID and Receiver ID. Each file can have only one batch header segment.

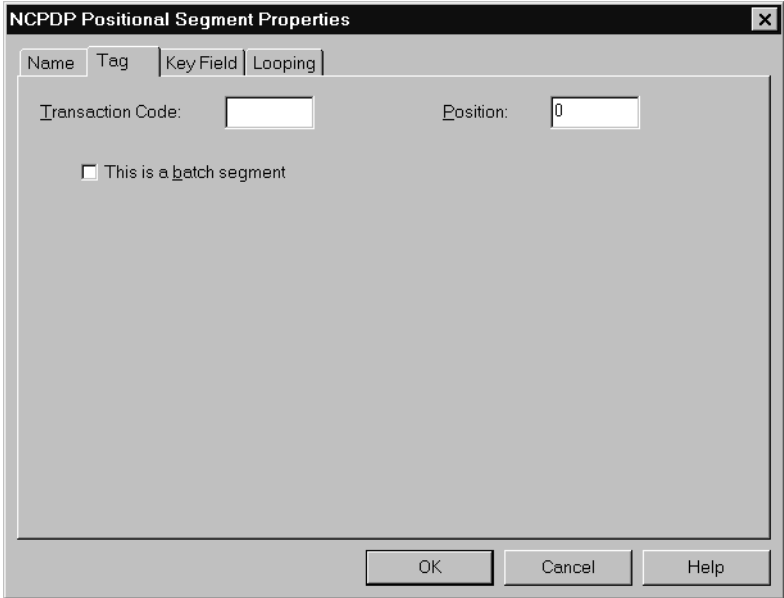
Note

For inbound transmissions, you must map the Batch Number field in the batch header. This is necessary because you must use the same value in the Batch Response Header segment.

Creating a batch header segment

Use this procedure to create the batch header segment in the NCPDP side of a map.

Step	Action
1	<p>Right-click the NCPDP file icon and select Create Sub/Positional Segment from the shortcut menu.</p> <p>System Response The system displays the NCPDP Positional Segment Properties dialog box.</p>  <p style="text-align: right; color: red;">(Continued on next page)</p>

(Contd) Step	Action
2	Type the segment name in the first box on the Name tab. Example Batch Header
3	Type a description of the segment in the second box on the Name tab and then click OK to save your changes. Example Batch Header Segment
4	Click the Tag tab. 
5	Complete the fields on the Tag tab: <ul style="list-style-type: none"> ▶ Type 00 in the Transaction Code box. This is the segment identification code for a batch header. ▶ Type 0 (the default value) in the Position box. This is the position of the segment identifier within the segment. ▶ Click the check box labeled This is a batch segment. <p>IMPORTANT You must define the tag for an input segment.</p>
6	Click OK to save your changes.
7	Continue with How to Create the Batch Detail Data Segment .

How to Create the Batch Detail Data Segment

Introduction The batch detail data segment is a positional segment that contains the Transaction Reference Number.

Fields in the Batch Detail Data Segment

In a GENTRAN:Server NCPDP map, this segment contains only two fields:

- Segment Identifier
- Transaction Reference Number

In your map, the NCPDP Data Record described in the NCPDP Standard for a Detail Data Record follows the Batch Detail Data Segment. The Data Record begins with a Transaction Header Segment.

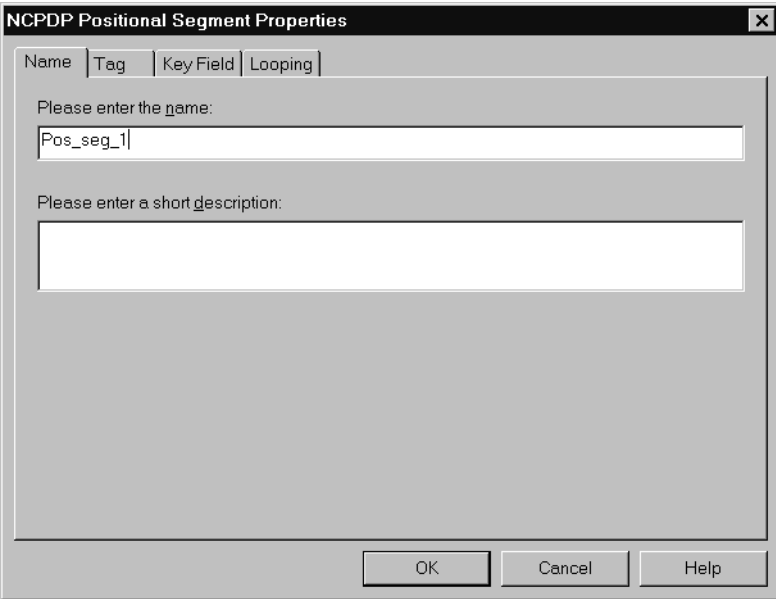
For inbound transmissions, you must map the Transaction Reference Number field. This is because you have to use the same number when you send the outbound response.

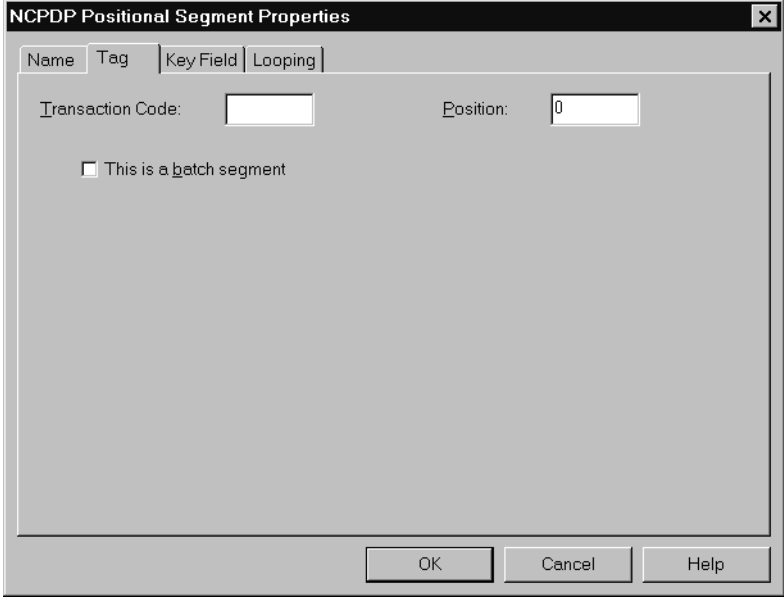
Reference

See [How to Create a Transaction Header Segment](#) for instructions.

(Continued on next page)

Procedure Use this procedure to create a positional segment in the NCPDP side of a map.

Step	Action
1	<p>Right-click the icon for the batch header segment and select Insert/ Positional Segment from the shortcut menu.</p> <p>System Response The system displays the NCPDP Positional Segment Properties dialog box.</p> 
2	<p>Type the segment name in the first box on the Name tab.</p> <p>Example Batch Detail</p>
3	<p>Type a description of the segment in the second box on the Name tab and then click OK to save your changes.</p> <p>Example Batch Detail Segment</p> <p style="text-align: right; color: red;">(Continued on next page)</p>

(Contd) Step	Action
4	Click the Tag tab. 
5	Complete the fields on the Tag tab: <ul style="list-style-type: none">▶ Type G1 in the Transaction Code box. This is the segment identification code for a batch detail segment.▶ Type 0 (the position of the segment identifier within the segment) in the Position box.▶ Click the check box labeled This is a batch segment.
6	Click OK to save your changes.
7	Continue with How to Create a Transaction Header Segment .

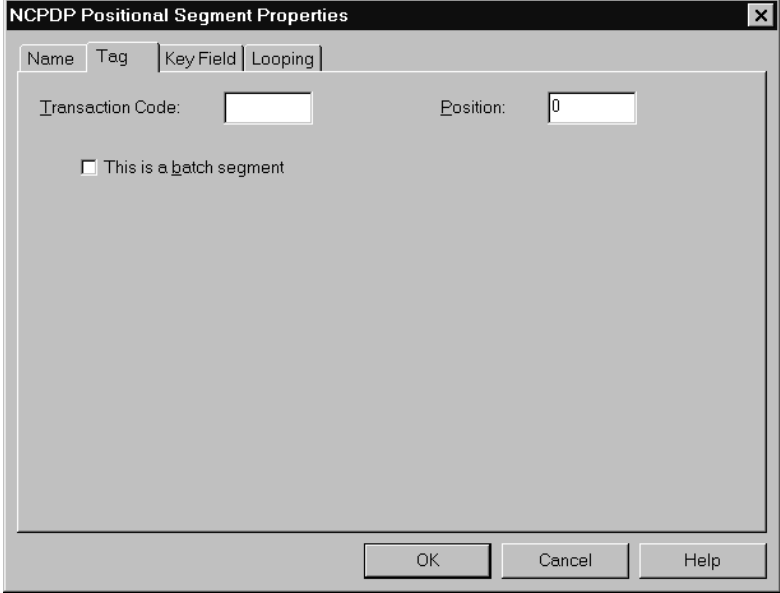
How to Create a Transaction Header Segment

Introduction A Transaction Header segment is a positional segment that indicates if the transaction is a request or response. This header segment contains four of the six key fields that GENTRAN:Server uses to determine the Trading Partnership code for inbound translation.

Location Each Batch Detail Data record has only one transaction header. In your map, the Transaction Header segment immediately follows the Batch Detail Data segment.

Procedure Use this procedure to create a Transaction Header segment in the NCPDP side of a map.

Step	Action
1	Right-click the icon for the batch detail data segment and select Insert/Positional Segment from the shortcut menu. System Response The system displays the NCPDP Positional Segment Properties dialog box.
2	Type the segment name in the first box on the Name tab. Example Transaction Header
3	Type a description of the segment in the second box on the Name tab and then click OK to save your changes. Example Transaction Header Segment <div style="text-align: right; color: red;">(Continued on next page)</div>

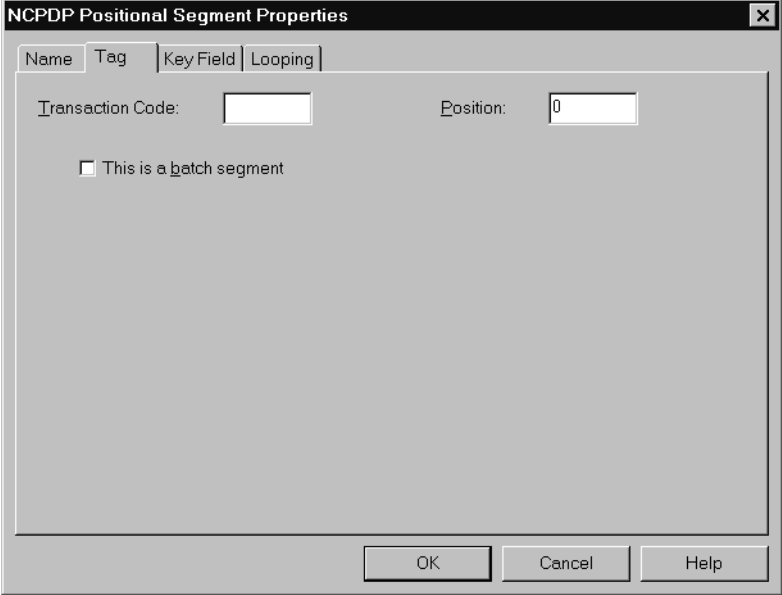
(Contd) Step	Action
4	<p>Click the Tag tab.</p> 
5	<p>Complete the fields on the Tag tab:</p> <ul style="list-style-type: none"> ▶ Type the NCPDP transaction code (E1, B1, B2, etc.) in the Transaction Code box. ▶ Type the starting position of the Transaction Code in the Position box.
6	Click OK to save your changes.
7	Continue with How to Create the Batch Trailer Segment to create the Patient Segment, Billing Segment, and other segments you need to describe the layout of the data.

How to Create the Batch Trailer Segment

Introduction The Batch Trailer segment is a positional segment that contains the total number of segments in the batch, including the Batch Header and Batch Trailer segments. This segment also contains a message field that can be used to include information about the batch transmission. Each file can have only one Batch Trailer segment.

Procedure Use this procedure to create the batch header segment in the NCPDP side of a map.

Step	Action
1	Right-click the last icon on the NCPDP side of the map and select Insert/Positional Segment from the shortcut menu. System Response The system displays the NCPDP Positional Segment Properties dialog box.
2	Type the segment name in the first box on the Name tab. Example Batch Trailer
3	Type a description of the segment in the second box on the Name tab and then click OK to save your changes. Example Batch Trailer Segment <div style="text-align: right; color: red;">(Continued on next page)</div>

(Contd) Step	Action
4	<p>Click the Tag tab.</p> 
5	<p>Complete the fields on the Tag tab:</p> <ul style="list-style-type: none"> ▶ Click the check box labeled This is a batch segment. ▶ Type 99 in the Transaction Code box. This is the segment identification code for a batch trailer. ▶ Type the starting position of the Segment Identifier in the Position box.
6	Click OK to save your changes.
7	Continue with How to Create the Batch Detail Data Segment .

How to Create a Group

Introduction In an NCPDP map, a transaction is represented by a map group.

A group contains related segments, groups, or both that repeat in sequence until either the data ends or the maximum number of times that the loop is allowed to repeat is exhausted. The system permits up to four repetitions.

Group separator character

In NCPDP transmissions, a group separator character denotes the start of a transaction (except for Eligibility Verification transactions). You can choose to have GENTRAN:Server insert the NCPDP group separator character when you create or modify a map group.

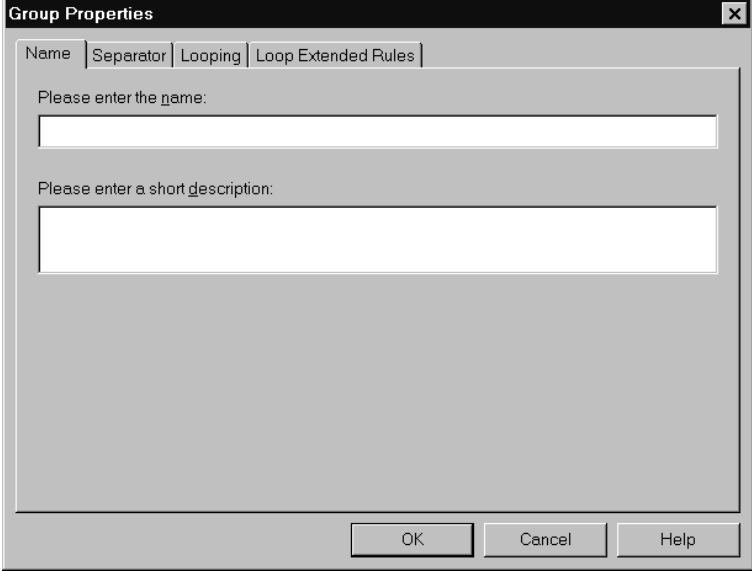
Reference


See [Separator characters](#) for information about the group separator character.

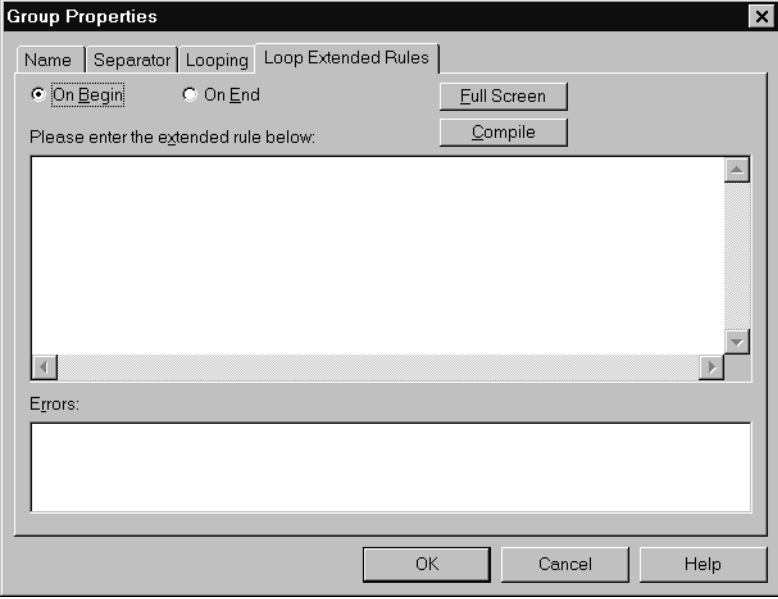
Procedure Use this procedure to create a group in a map.

Step	Action
1	Select the map component that precedes the group you are creating in the file layout.
2	From the Edit menu select Create Sub or Insert , depending on the level.

(Continued on next page)

(Contd) Step	Action
3	<p>Select Group from the submenu.</p> <p>System Response The system displays the Group Properties dialog box (The Name tab is displayed by default.)</p> 
4	<p>In the first box on the Name tab, type the name of the group, such as the transaction name.</p> <p>WARNING Do not use spaces or dashes (-) in the group name. You can use the underscore (_) to separate words.</p>
5	<p>In the second box on the Name tab, type a description of this group; then click OK.</p>
6	<p>Do you want GENTRAN:Server to insert the NCPDP group separator before the data in this group?</p> <ul style="list-style-type: none"> ▶ If YES, click the Separator tab and click the Use NCPDP Group Separator check box; then click OK. ▶ If NO, continue with the next step. <p style="text-align: right;">(Continued on next page)</p>

(Contd) Step	Action
7	<p>Select the Looping tab to access looping options.</p>  <p>The screenshot shows a dialog box titled "Group Properties" with a close button (X) in the top right corner. It has four tabs: "Name", "Separator", "Looping", and "Loop Extended Rules". The "Looping" tab is selected. Inside the dialog, there are two input fields: "Minimum Usage" with the value "0" and "Maximum Usage" with the value "1". To the right of these fields is a checkbox labeled "Promote records to parent" which is currently unchecked. At the bottom of the dialog are three buttons: "OK", "Cancel", and "Help".</p>
8	<p>In the Minimum Usage box, type the minimum number of times the loop must be repeated.</p> <p>Note For a conditional loop, the minimum usage should always be 0 (zero). For a mandatory loop, the minimum usage should be 1 or greater.</p>
9	<p>In the Maximum Usage box, type the maximum number of times the loop can be repeated.</p>
10	<p>Is this a single iteration group?</p> <ul style="list-style-type: none"> ▶ If YES, continue with Step 11. ▶ If NO, GO TO Step 12.
11	<p>Do you want to specify that the subordinate records and groups should be extracted and located in the parent group when the group is compiled?</p> <ul style="list-style-type: none"> ▶ If YES, select Promote records to parent; then click OK. ▶ If NO, click OK and continue with the next step. <p style="text-align: right; color: red;">(Continued on next page)</p>

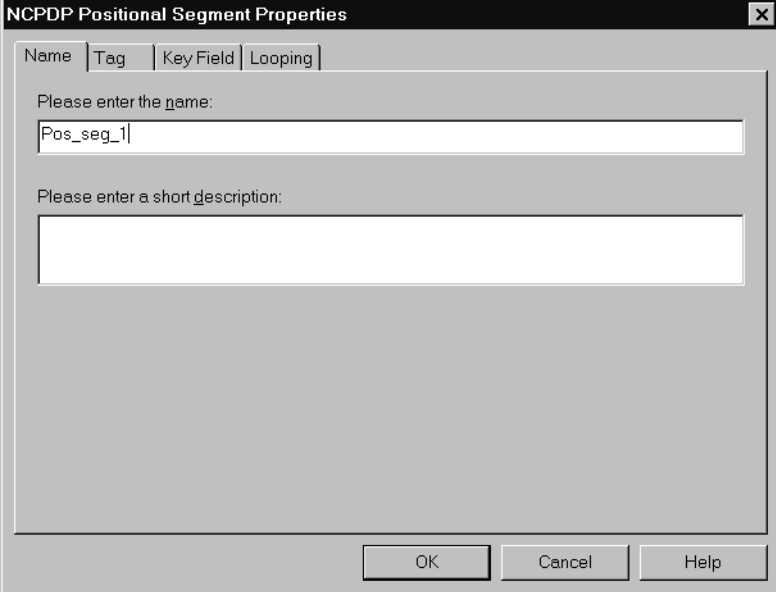
(Contd) Step	Action
12	<p>Do you want to specify an extended rule for this group?</p> <ul style="list-style-type: none">▶ If YES, click the Loop Extended Rules tab and enter the extended rule. Click OK to save your changes.▶ If NO, continue with the next step. 
13	Click OK to create the group.

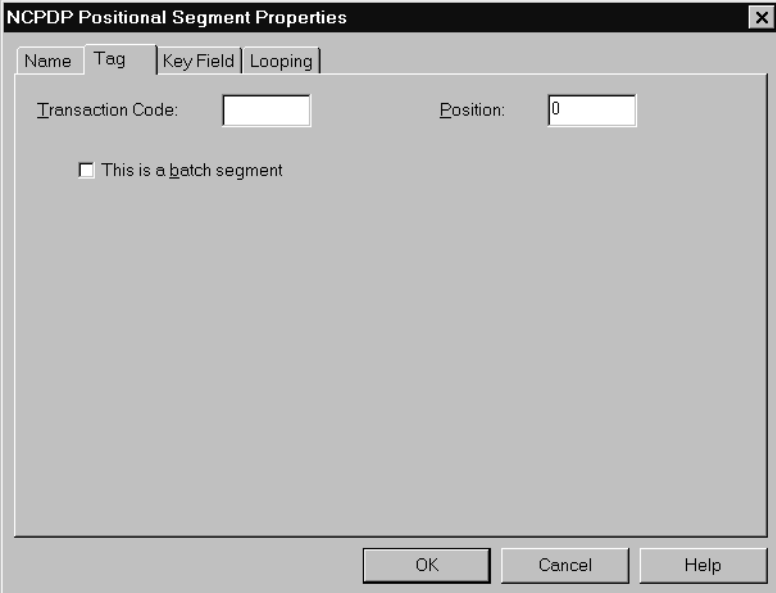
How to Create a Positional Segment


Introduction The fields in positional segments are always in fixed positions and do not require separators. The NCPDP Positional Segment Properties tab enables you to specify identifying value for a positional segment, loops usage and type, and constants.

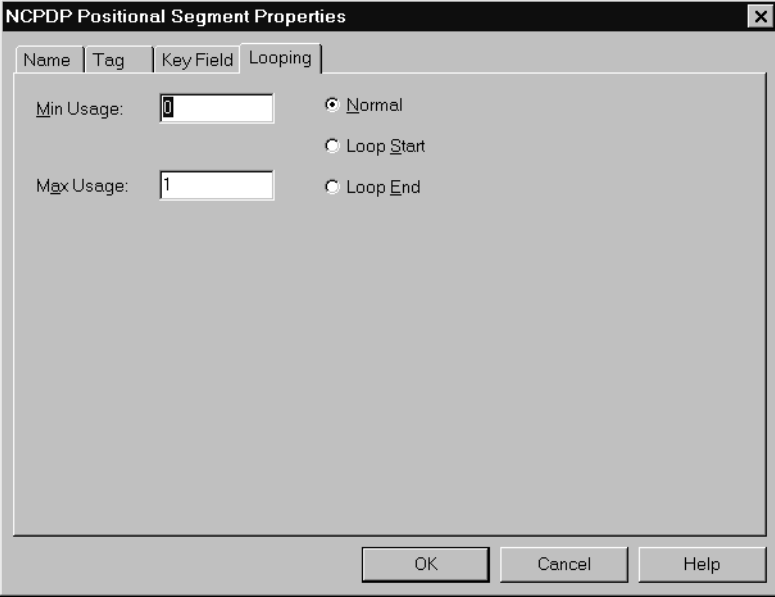
Procedure Use this procedure to create a positional segment in the NCPDP side of a map.

Step	Action
1	Select the map component which precedes the segment you are creating.
2	From the Edit menu select either Create Sub or Insert , depending on the level of the selected map component.
3	Select Positional Segment from the submenu. System Response The system displays the NCPDP Positional Segment Properties dialog box. (Continued on next page)

(Contd) Step	Action
4	<p>Type the segment name in the first box on the Name tab.</p> <p>Note If a segment occurs more than once in a map it is identified by its name <ID>. The second and subsequent occurrences are identified by <ID>:n, where n is the number of the occurrence in the map.</p> 
5	<p>Type a description of the segment in the second box on the Name tab.</p> <p>Note Use this box to provide a brief explanation of the segment so that you can differentiate it from similar segments.</p> <p style="text-align: right;">(Continued on next page)</p>

(Contd) Step	Action
6	<p>Do you want to specify an identification tag for this segment?</p> <ul style="list-style-type: none">▶ If YES, select the Tag tab and then type the segment identification code <TAG> in the Tag box. Continue with the next step.▶ If NO, continue with next step. <p>IMPORTANT You must define the tag for an input segment.</p>  <p>(Continued on next page)</p>

(Contd) Step	Action
7	<p>Do you want to use a key field?</p> <ul style="list-style-type: none"> ▶ If YES, select the Key Field tab and then complete the appropriate fields. ▶ If NO, continue with the next step. 
8	<p>Is the segment a looping structure?</p> <ul style="list-style-type: none"> ▶ If YES, select the Looping tab. ▶ If NO, accept the defaults and continue with Step 10. <p style="text-align: right; color: red;">(Continued on next page)</p>

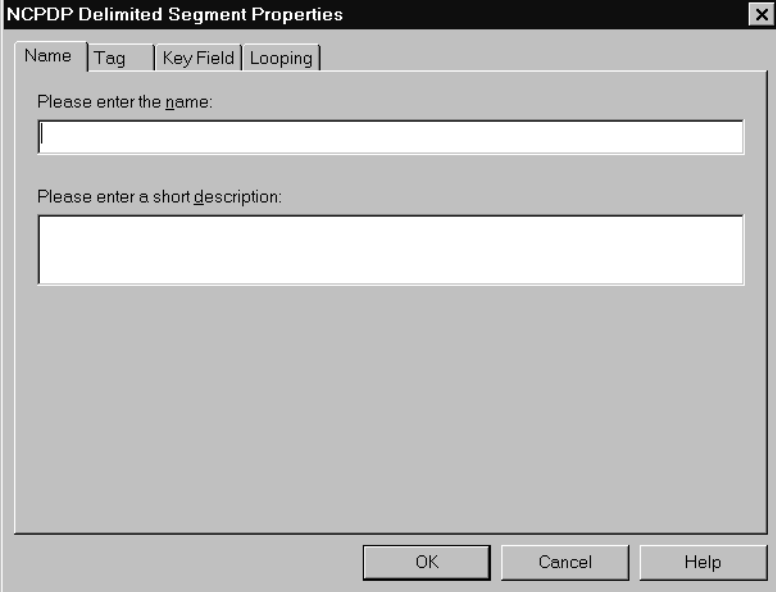
(Contd) Step	Action
9	<p>In the Min Usage box, type the minimum amount of times the segment must repeat.</p> <p>Note If the Min Usage box contains a 0 (zero), the segment is conditional. If the Min Usage box contains a 1 or greater, the segment is mandatory.</p> 
10	<p>Do you want the segment to repeat (loop)?</p> <ul style="list-style-type: none"> ▶ If YES, type the maximum amount of times it can repeat in the Max Usage box. ▶ If NO, continue with the next step.
11	Click OK to save changes to the segment.

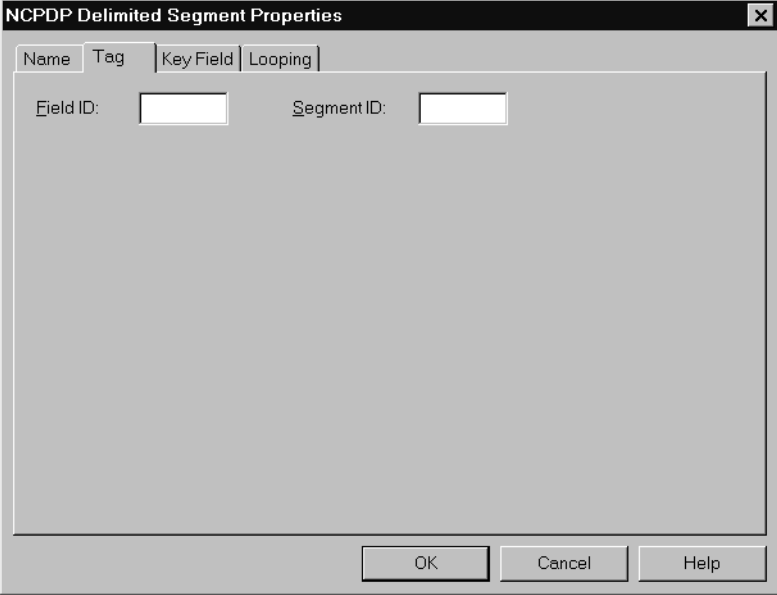
How to Create a Delimited Segment


Introduction The Patient, Insurance, Claim, Pharmacy Provider, and other transaction-level segments are delimited segments. Delimited segments and their fields require separators because their lengths are variable. The NCPDP Delimited Segment Properties dialog box enables you to create a delimited segment.

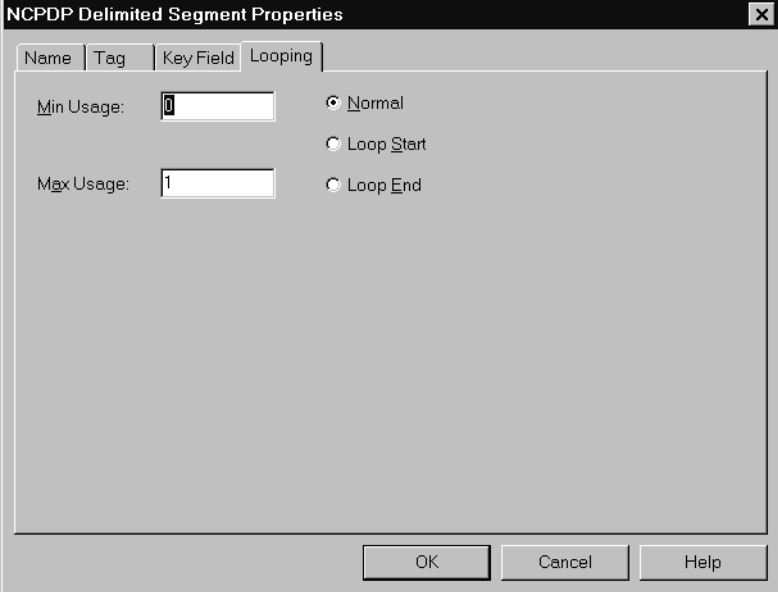
Procedure Use this procedure to create a delimited segment in the NCPDP side of a map.

Step	Action
1	Right-click on the map component that precedes the segment you are creating.
2	From the drop-down menu, select either Create Sub or Insert , depending on the level of the selected map component.
3	Select Delimited Segment from the submenu. System Response The system displays the NCPDP Delimited Segment Properties dialog box. (Continued on next page)

(Contd) Step	Action
4	<p>Type the segment name in the first box on the Name tab.</p> <p>Note If a segment occurs more than once in a map it is identified by its name <ID>. The second and subsequent occurrences are identified by <ID>:n, where n is the number of the occurrence in the map.</p> 
5	<p>Type a description of the segment in the second box on the Name tab.</p> <p>Note Use this box to provide a brief explanation of the segment so that you can differentiate it from similar segments.</p>
6	<p>Click the Tag tab.</p> <p style="text-align: right; color: red;">(Continued on next page)</p>

(Contd) Step	Action
7	<p>Type the field identifier in the Field ID box and then type the segment identifier in the Segment ID box.</p>  <p>(Continued on next page)</p>

(Contd) Step	Action
8	<p>Do you want to use a key field?</p> <ul style="list-style-type: none"> ▶ If YES, select the Key Field tab and then complete the appropriate fields. ▶ If NO, continue with the next step. 
9	<p>Is the segment a looping structure?</p> <ul style="list-style-type: none"> ▶ If YES, select the Looping tab and continue with the next step. ▶ If NO, accept the defaults and go to Step 12. <p style="text-align: right; color: red;">(Continued on next page)</p>

(Contd) Step	Action
10	<p>In the Min Usage box, type the minimum amount of times the segment must repeat.</p> <p>Note If the Min Usage box contains a 0 (zero), the segment is conditional. If the Min Usage box contains a 1 or greater, the segment is mandatory.</p> 
11	<p>Do you want to specify the maximum number of times the segment can repeat?</p> <ul style="list-style-type: none"> ▶ If YES, type the maximum amount of times it can repeat in the Max Usage box and then continue with the next step. ▶ If NO, continue with the next step.
12	Click OK to save changes to the segment.

How to Create a Positional Field

Introduction

There are two ways to add positional fields to a map.

- ▶ If you have only one field to add, use the **Create Sub** function. This topic contains the procedure for using this function.
- ▶ If you need to add multiple positional fields to a record, use the **Positional Field Editor**. Create the fields for the first record, and then proceed with each sequential record.

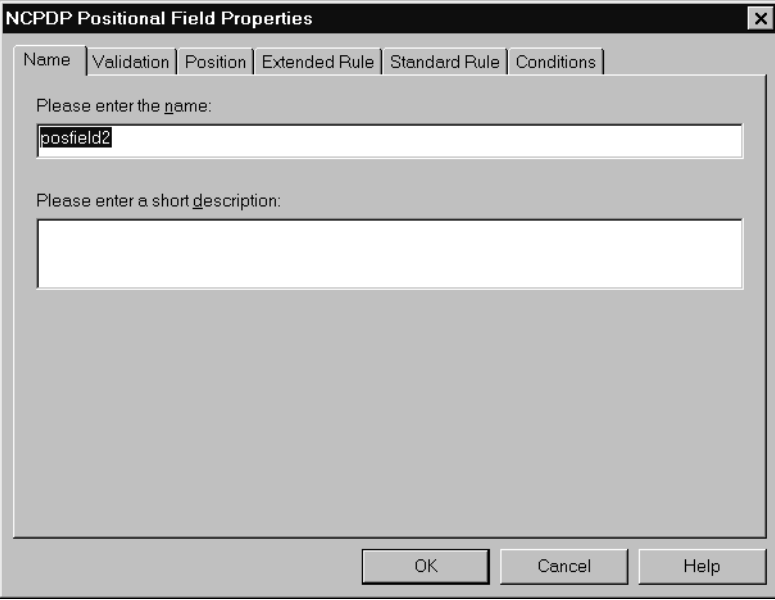
Reference

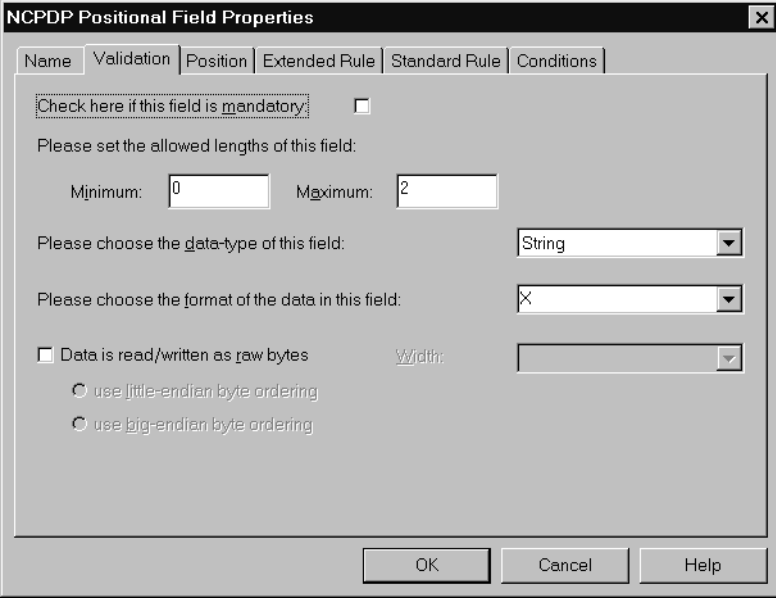
See [Positional Field Editor](#) for instructions on using the Positional Field Editor to create multiple fields.

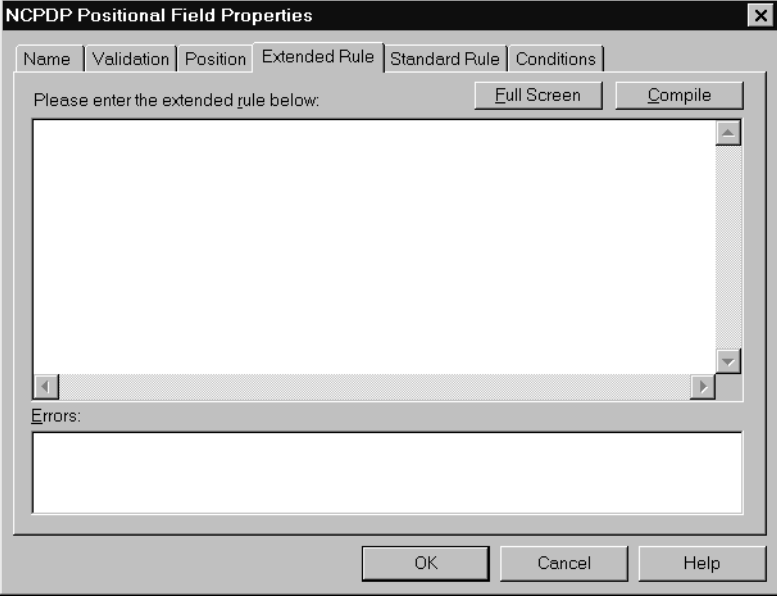
Create sub procedure

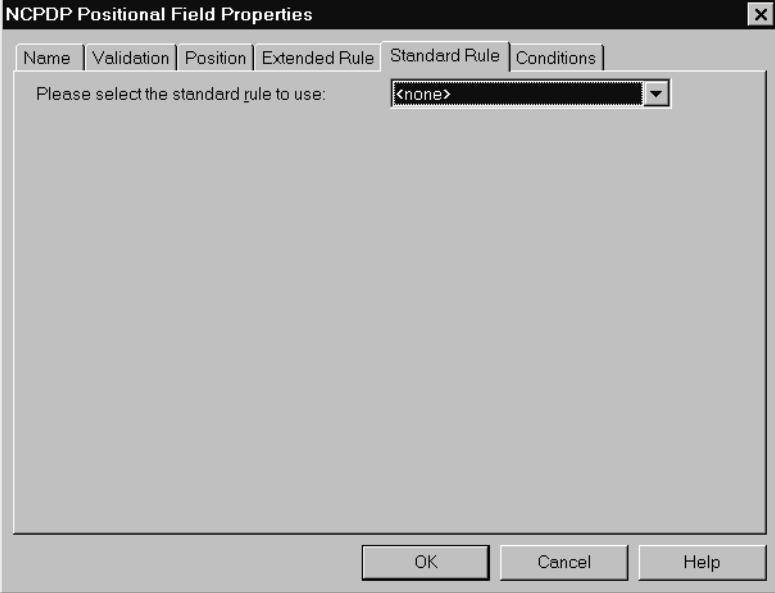
Use this procedure to create a positional field in the NCPDP side of a map.

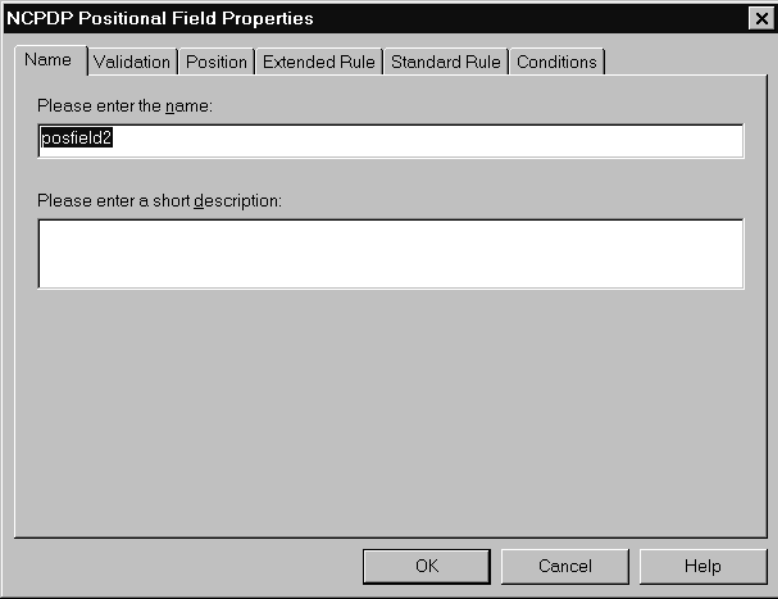
Step	Action
1	Select the positional segment that precedes the positional field you are creating.
2	Select Create Sub from the Edit menu.
3	Select Positional Field from the Create Sub menu. System Response The system displays the NCPDP Positional Field Properties dialog box. <div style="text-align: right; color: red;">(Continued on next page)</div>

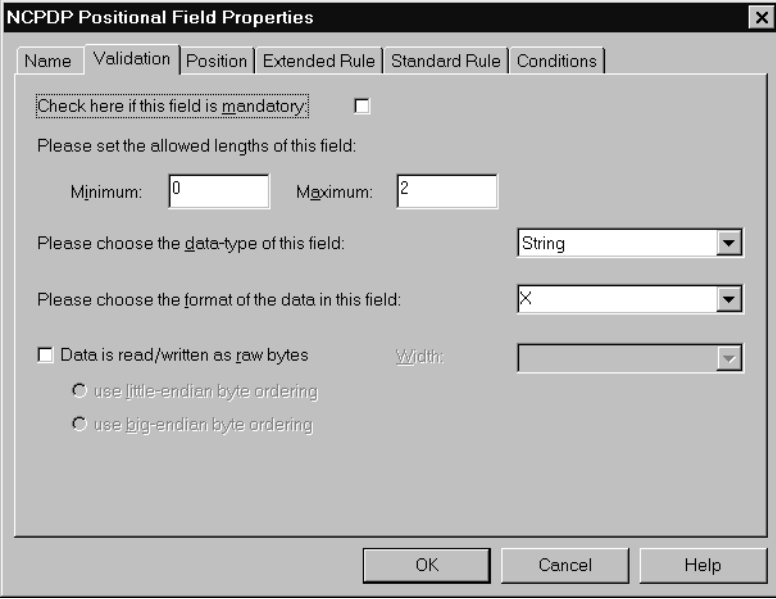
(Contd) Step	Action
4	<p>Type the name of the positional field in the first box on the Name tab.</p> <p>Warning Do not use spaces or dashes in the Name box. You can use the underscore symbol (<u> </u>) to separate words.</p>  <p>(Continued on next page)</p>

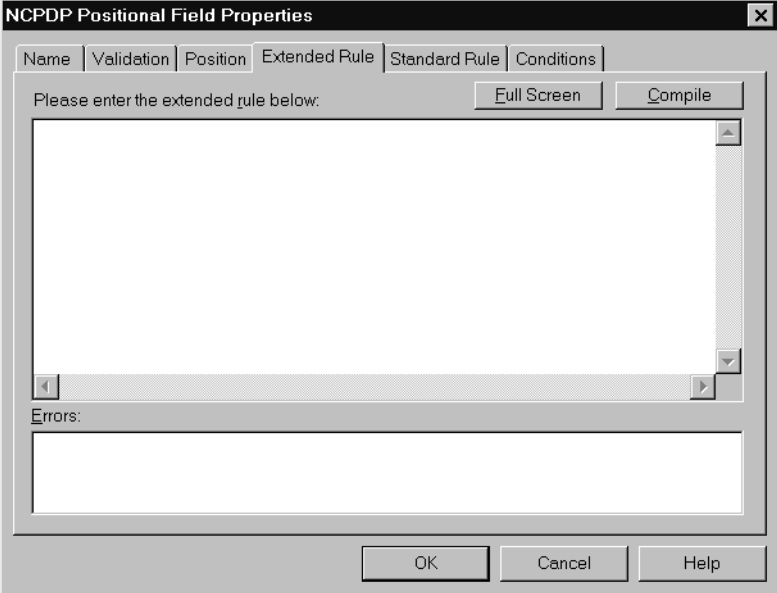
(Contd) Step	Action
5	<p>Do you want to specify validation information for this field?</p> <ul style="list-style-type: none"> ▶ If YES, click the Validation tab and enter the information; then continue with the next step. ▶ If NO, continue with the step.  <p style="text-align: right; color: red;">(Continued on next page)</p>

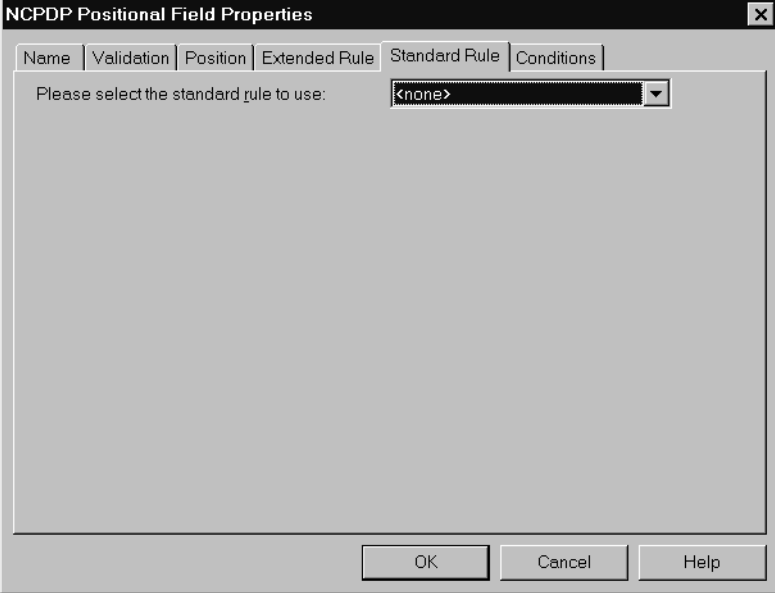
(Contd) Step	Action
6	<p>Do you want to specify an extended rule for this map component?</p> <ul style="list-style-type: none">▶ If YES, click the Extended Rule tab and enter the rule; then continue with the next step.▶ If NO, continue with the step.  <p style="text-align: right; color: red;">(Continued on next page)</p>

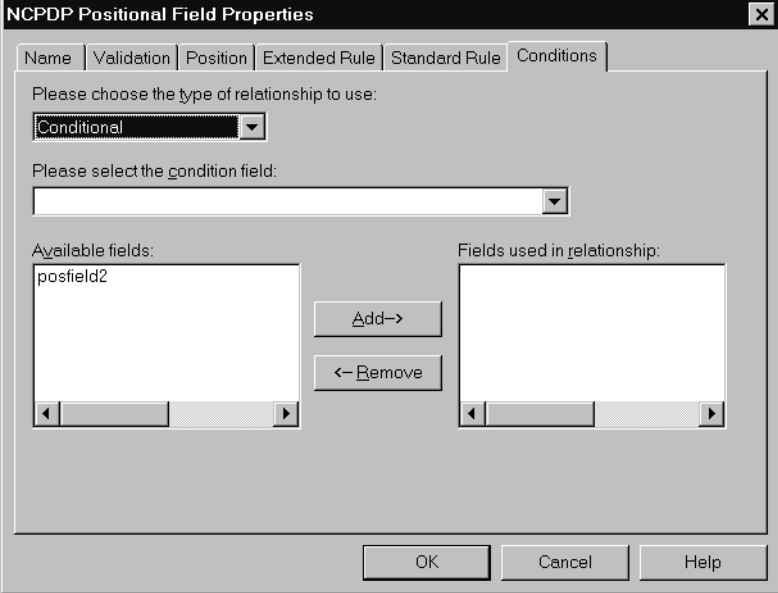
(Contd) Step	Action
7	<p>Do you want to specify a standard operation rule for this map component?</p> <ul style="list-style-type: none">▶ If YES, click the Standard Rule tab and enter the rule; then continue with the next step.▶ If NO, continue with the step.  <p>(Continued on next page)</p>

(Contd) Step	Action
4	<p>Type the name of the positional field in the first box on the Name tab.</p> <p>Warning Do not use spaces or dashes in the Name box. You can use the underscore symbol (<u> </u>) to separate words.</p>  <p>(Continued on next page)</p>

(Contd) Step	Action
5	<p>Do you want to specify validation information for this field?</p> <ul style="list-style-type: none"> ▶ If YES, click the Validation tab and enter the information; then continue with the next step. ▶ If NO, continue with the step.  <p style="text-align: right; color: red;">(Continued on next page)</p>

(Contd) Step	Action
6	<p>Do you want to specify an extended rule for this map component?</p> <ul style="list-style-type: none">▶ If YES, click the Extended Rule tab and enter the rule; then continue with the next step.▶ If NO, continue with the step.  <p>(Continued on next page)</p>

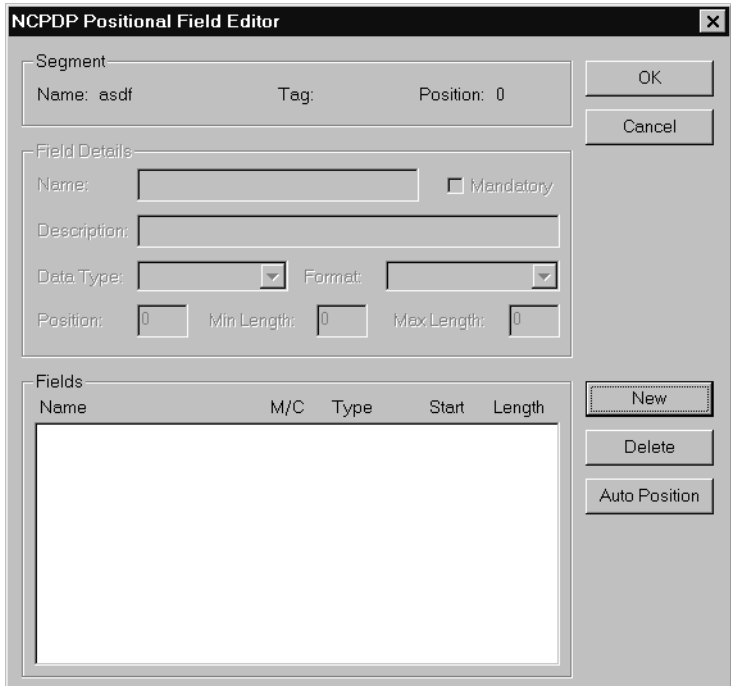
(Contd) Step	Action
7	<p>Do you want to specify a standard operation rule for this map component?</p> <ul style="list-style-type: none">▶ If YES, click the Standard Rule tab and enter the rule; then continue with the next step.▶ If NO, continue with the step.  <p>(Continued on next page)</p>

(Contd) Step	Action
8	<p>Do you want to set conditional relationships between this field and another positional field?</p> <ul style="list-style-type: none"> ▶ If YES, click the Conditions tab and set the conditions; then continue with the next step. ▶ If NO, continue with the step. 
9	Click OK to save the properties for this field.

(Continued on next page)

Positional Field Editor

Use this procedure to create positional fields for a record.

Step	Action
1	<p>Right-click the positional segment and select Edit Fields from the shortcut menu.</p> <p>System Response The system displays the Positional Field Editor dialog box.</p> 
2	<p>Is the field you are creating the first field in the record?</p> <ul style="list-style-type: none"> ▶ If YES, click New and continue with the next step. ▶ If NO, highlight the field that precedes the field you are creating in the record layout and click New. <p>System Response The system displays a highlight bar in the Fields section where the new field is positioned.</p> <p>Note You need to fill in the field values in the Field Details section.</p> <p style="text-align: right; color: red;">(Continued on next page)</p>

(Contd) Step	Action
3	<p>In the Name box, type the field name.</p> <p>Notes</p> <ul style="list-style-type: none"> ▶ Each application field must have a unique name. It is useful to tag the end of the fields that occur in multiple records with a suffix that identifies the record that contains it. ▶ Do not use spaces or dashes (-) in the field name. You can use the underscore (_) to separate words.
4	<p>Do you want to designate the field as mandatory (must be present)?</p> <ul style="list-style-type: none"> ▶ If YES, select the Mandatory check box. ▶ If NO, continue with the next step.
5	<p>In the Description box, type a description of the field.</p> <p>Note Use the description to provide a brief explanation of the field so that you can differentiate it from similar fields.</p>
6	<p>From the Data Type list, select the type of the field.</p> <p>Note Valid values are:</p> <ul style="list-style-type: none"> ▶ String = alpha (A/N) ▶ Number = signed numeric (D/overpunch) or unsigned numeric (N) ▶ Date/Time = date or time element (DATE)
7	<p>From the Format list, select the field format.</p> <p>Note The choices for this field depend on the type of field you selected from the Data Type list. If you choose Number or Date/Time in the Data Type box, you can select the data format from the Format list. If you selected String from the Data Type box, you should type a syntax token to denote that this field must be formatted as the specified syntax token dictates. (The default syntax token is X.)</p> <p>Reference See Field Format Values for more information on selecting your data format.</p> <p style="text-align: right;">(Continued on next page)</p>

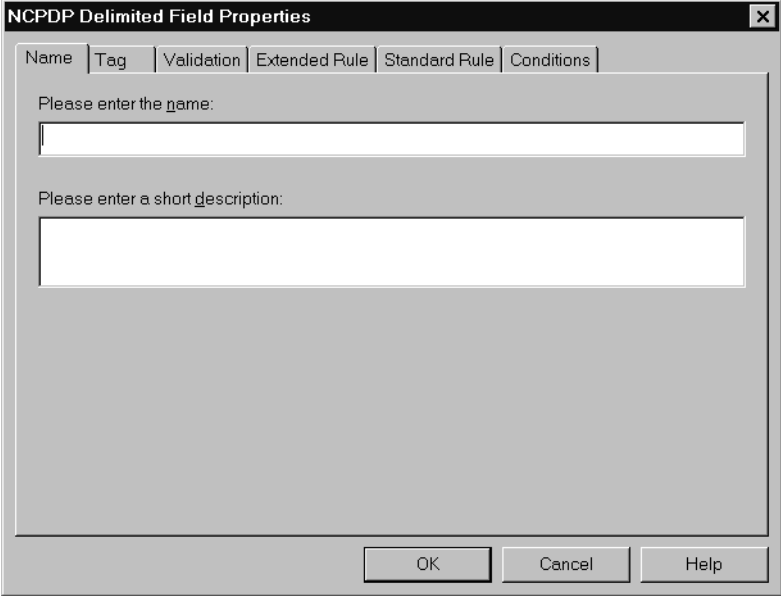
(Contd) Step	Action
8	<p>Do you want to indicate the exact position of the field in the record?</p> <ul style="list-style-type: none"> ▶ If YES, type the starting position of the field in the Start Pos box. ▶ If NO, continue with the next step. <p>Notes You want to specify field start positions if, for example, you are using only a few fields but you want them positioned exactly in the record.</p> <p>The alternative to specifying the start position of each field is to add the fields sequentially in the record and then use the Auto Position function.</p> <p>Reference See Step 13 below for more information on the Auto Position function.</p>
9	In the Min Length box, type the minimum number of characters that is acceptable for this field.
10	In the Max Length box, type the maximum length of the field.
11	<p>Click New.</p> <p>System Response The system adds the field and creates a new field with blank values ready for you to identify.</p>
12	<p>Create the rest of the fields according to your record layout.</p> <p>Note Click Delete to stop adding fields.</p> <p style="text-align: right; color: red;">(Continued on next page)</p>

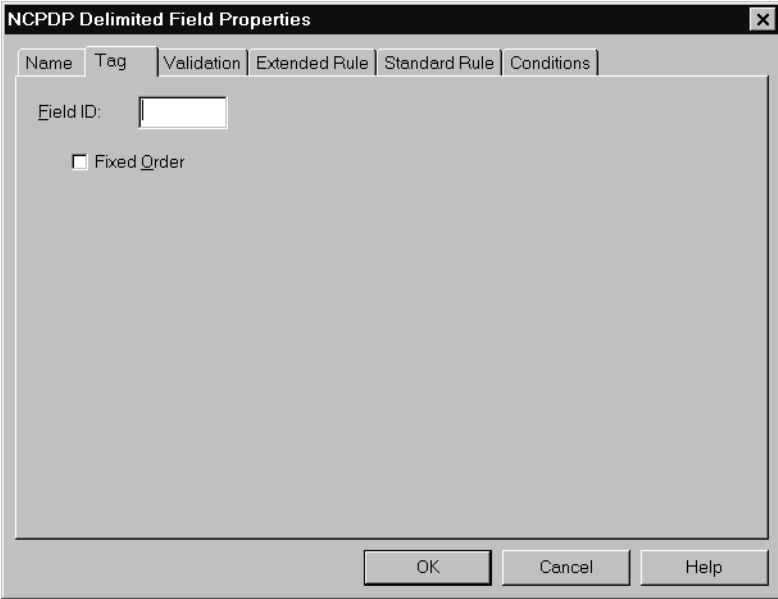
(Contd) Step	Action
13	<p>After adding the last field, do you want the system to automatically position the fields in the record?</p> <ul style="list-style-type: none"> ▶ If YES, click Auto Position. <p>Note This option automatically calculates the start position in the record of each field. The system bases the start positions on the assumption that each field is positioned directly after the previous field and is of the length specified in the Max Length box.</p> <p>Click Yes to acknowledge the warning message that fields are sequenced in order.</p> <p>Warning Use the Auto Position function only if you define a record tag, and if you define every field in the record in the sequence that each field occurs.</p> <p>Reference See the <i>GENTRAN:Server Application Integration User's Guide</i> for more information on defining record tags.</p> <ul style="list-style-type: none"> ▶ If NO, continue with the next step
14	<p>Are you completely finished adding fields to the record?</p> <ul style="list-style-type: none"> ▶ If YES, click Close. ▶ If NO, repeat Steps 2 through 13. <p>Note Repeat this procedure to add fields to the other records you defined.</p> <p>References See the <i>GENTRAN:Server Application Integration User's Guide</i> for more information on mapping a constant to a field.</p>
15	<p>Do you want to define Trading Partnership code rules for this application or definition file?</p> <ul style="list-style-type: none"> ▶ If YES, see the chapter Defining Trading Partnership Rules for Application Files in the <i>GENTRAN:Server Application Integration Guide</i> for instructions. ▶ If NO, continue with another task.

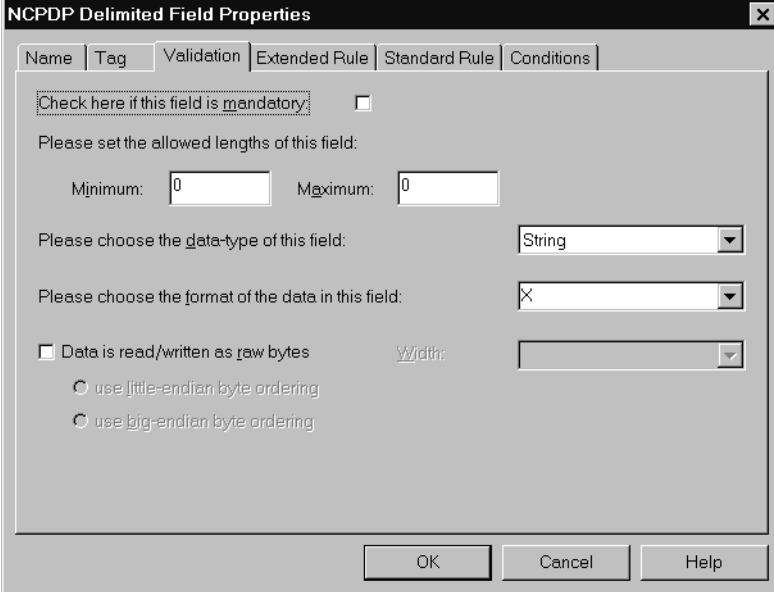
How to Create a Delimited Field

Introduction Each NCPDP delimited segment contains a group of logically-related data fields, separated by the field delimiter character. This topic explains how to create a delimited field.

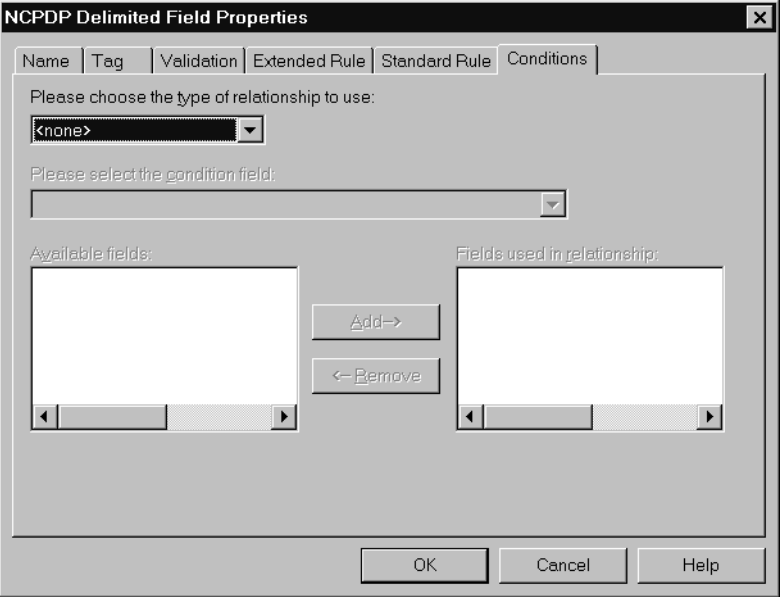
Procedure: Use this procedure to create a delimited field.

Step	Action
1	Right-click on the map object that precedes the delimited field you are creating.
2	<p>Depending on the level of the map object you selected, click either Create Sub or Insert from the drop-down menu and then click Delimited Field on the submenu.</p> <p>System Response The system displays the NCPDP Delimited Field Properties dialog box.</p>  <p style="text-align: right; color: red;">(Continued on next page)</p>

(Contd) Step	Action
3	Type the name of the field in the first box on the Name tab. Warning Do not use spaces or dashes in the Name box. You can use the underscore symbol (_) to separate words.
4	Type the description of the field in the second box on the Name tab. Tip Use the description to provide a brief explanation of the field so that you can differentiate it from similar fields.
5	Click the Tag tab and continue with the next step. 
6	Type the field identifier in the Field ID box.
7	Do you want to designate that the order of this field is fixed? <ul style="list-style-type: none"> ▶ If YES, click the Fixed Order check box. ▶ If NO, continue with the next step.
8	Click the Validation tab and continue with the next step. <div style="text-align: right; color: red;">(Continued on next page)</div>

(Contd) Step	Action
9	<p>Is the field mandatory (must be present)?</p> <ul style="list-style-type: none"> ▶ If YES, click the Check here if this field is mandatory check box on the Validation tab. ▶ If NO, continue with the next step. 
10	<p>Specify the minimum and maximum length of the element by typing values in the Minimum and Maximum boxes.</p> <p>Note If the data is less than the minimum length, the system generates a compliance error during translation.</p>
11	<p>Select the type of the field from the Data Type list.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> ▶ String = alpha element (A/N) ▶ Number = signed numeric (D/overpunch) or unsigned numeric (N) ▶ Date/Time = date or time element (DATE) <p style="text-align: right; color: red;">(Continued on next page)</p>

(Contd) Step	Action
12	<p>Select the format of the field from the Format list.</p> <p>Note The choices for this field depend on the value you selected from the Data Type list. If you choose Number or Date/Time in the Data Type box, you can select the data format from the Format list. If you selected String from the Data Type box, you should type a syntax token to denote that this field must be formatted as the specified syntax token dictates. The default syntax token is X.</p> <p>Reference See Field Format Values for more information about data formats.</p>
13	<p>Do you want to specify an extended rule for this field?</p> <ul style="list-style-type: none"> ▶ If YES, click the Extended Rule tab and enter the rule; then continue with the next step. ▶ If NO, continue with the step.
14	<p>Do you want to specify a standard operation rule for this field?</p> <ul style="list-style-type: none"> ▶ If YES, click the Standard Rule tab and enter the rule; then continue with the next step. ▶ If NO, continue with the step.
15	<p>Do you want to set conditional relationships between this field and another field?</p> <ul style="list-style-type: none"> ▶ If YES, click the Conditions tab and continue with the next step. ▶ If NO, continue with Step 18. <p style="text-align: right; color: red;">(Continued on next page)</p>

(Contd) Step	Action
16	<p>Select the conditional relationship from the Please choose the type of relationship to use drop-down box.</p> 
17	<p>Is the type of relationship Conditional or List Conditional?</p> <ul style="list-style-type: none"> ▶ If YES, select the first field in the relationship from the Please select the condition field drop-down list. ▶ If NO, continue with the next step.
18	<p>Select the fields that you want to use in the relationship from the Available Fields list and click the Add button to add them to the Fields used in relationship list.</p>
19	<p>Click OK to save the changes to the field.</p>

Repeating Fields

Introduction

Repeating fields within a segment occur as logical groups and must be submitted as a set. Only fields that are designated as repeating fields (looping fields) in the NCPDP Telecommunication Standard can be repeated. Count and counter fields identify repeating fields.

- A **count field** is used to specify the total number of repetitions of the fields in a grouping. All repeating fields must have a count field that accompanies the repeating field in the transaction.
- A **counter field** identifies a specific repeating loop in a series of loops, in sequential order. It is synonymous with occurrence number. Counter fields may occur multiple times with their associated repeating fields.

Example

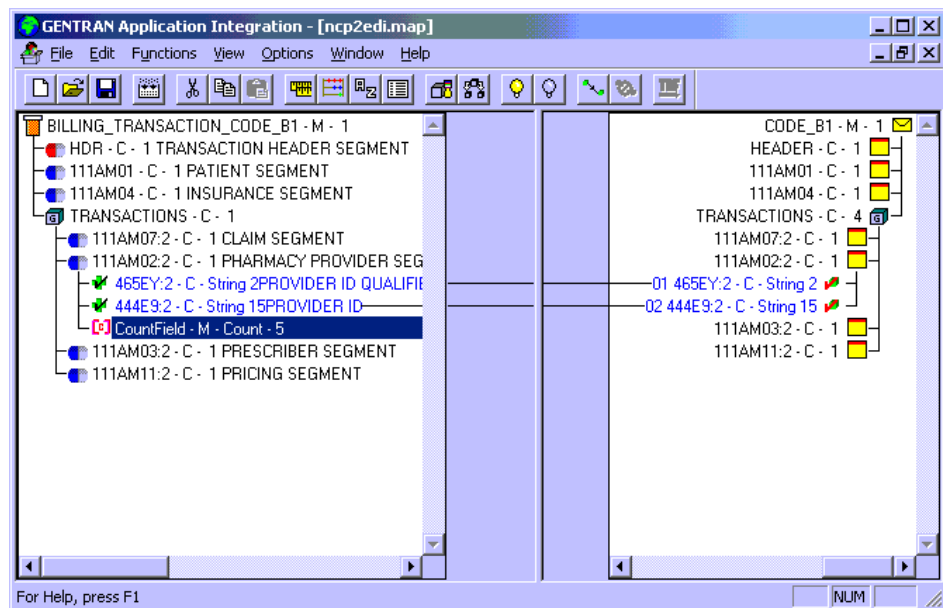
In a repetition of four, the first occurrence of the field or set/logical grouping is preceded by a counter field with a value of 1. The second occurrence of that field or grouping is preceded by a counter with a value of 2, and so on.

Reference

See your *NCPDP Telecommunication Standard Implementation Guide* for information about how the standard uses count and counter fields.

Example count field in map

This example shows a count field in an NCPDP map.

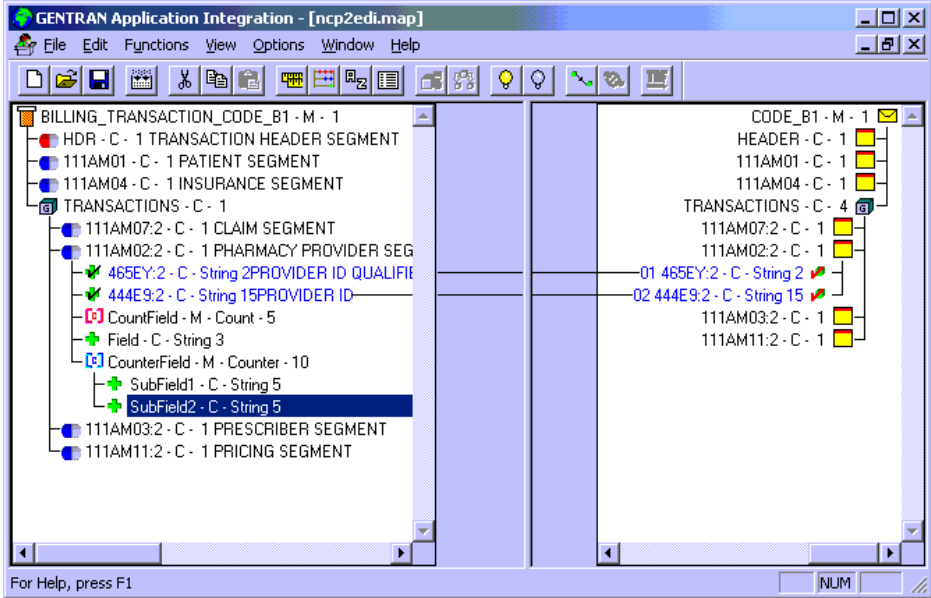


(Continued on next page)

Example counter field in map

This example shows a counter field in an NCPDP map.

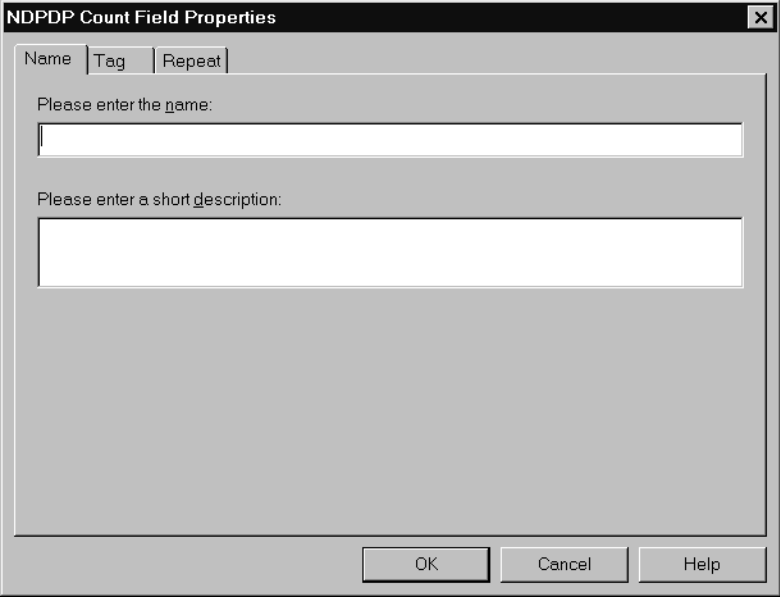
This counter field has two subfields. The second subfield is selected.




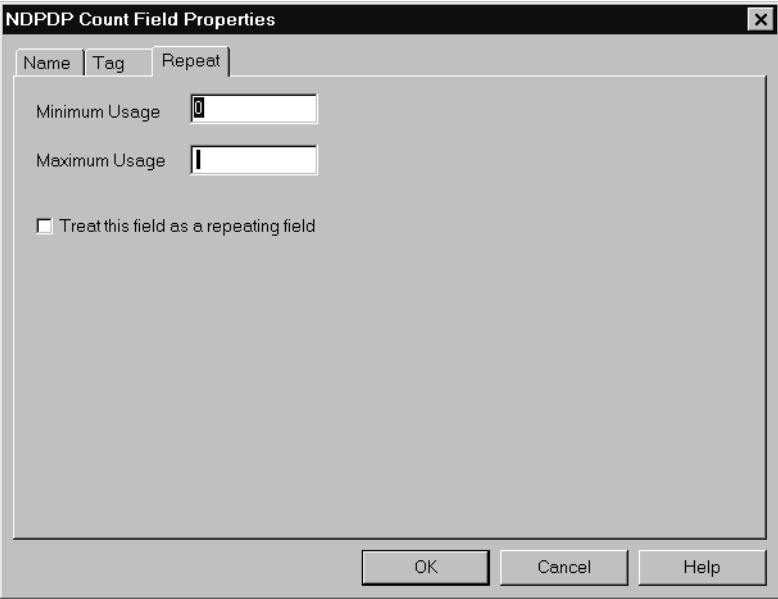
How to Create a Count Field

Introduction Count and counter fields are repeating fields. A **count field** is used to specify the total number of repetitions that follow of the fields in a grouping.

Procedure: Use this procedure to create a count field.

Step	Action
1	Right-click on the map object that precedes the count field you are creating.
2	<p>Depending on the level of the map object you selected, click either Create Sub or Insert from the drop-down menu and then click Count Field on the submenu.</p> <p>System Response The system displays the NCPDP Count Field Properties dialog box with the Name tab selected.</p>  <p>(Continued on next page)</p>

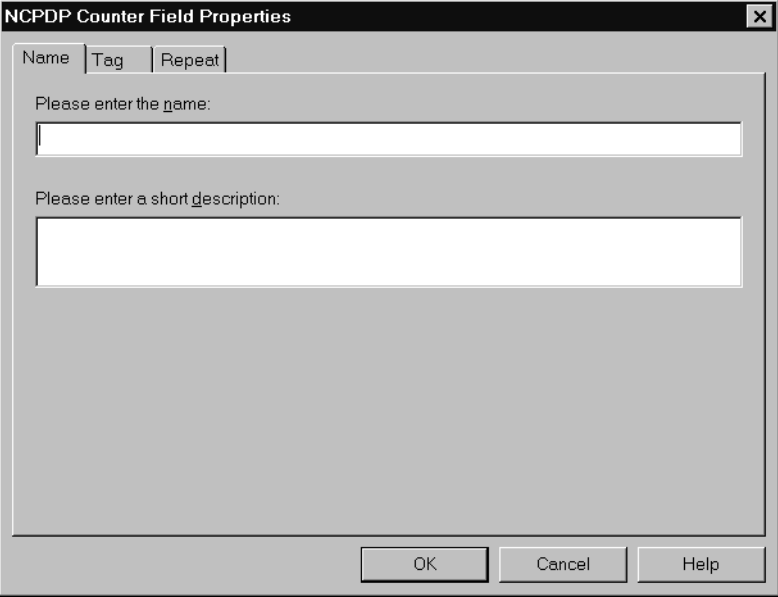
(Contd) Step	Action
3	Type the name of the field in the first box on the Name tab. WARNING Do not use spaces or dashes in the Name box. You can use the underscore symbol (_) to separate words.
4	Type the description of the field in the second box on the Name tab; then click OK . Tip Use the description to provide a brief explanation of the field so that you can differentiate it from similar fields.
5	Click the Tag tab and continue with the next step. 
6	Type the field identifier in the Field ID box.
7	Do you want to designate that the order of this field is fixed? • If YES, click the Fixed Order check box; then click OK . • If NO, click OK and continue with the next step. (Continued on next page)

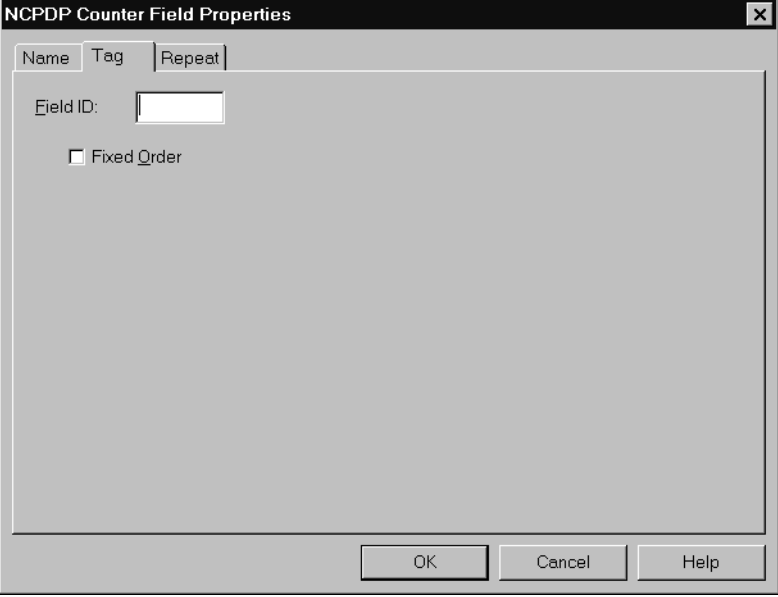
(Contd) Step	Action
8	<p>Click the Repeat tab and continue with the next step.</p> 
9	<p>Specify the minimum and maximum number of times that the field can repeat by typing values in the Minimum Usage and Maximum Usage boxes. The default value for Maximum Usage is 1.</p>
10	<p>If this field is part of a loop, click the Treat this field as a repeating field check box. This option enables you to link this field to a field that is at a different nesting level.</p> <p>Note When you link fields on the input side of your map to fields on the output side, the Application Integration mapper normally requires that you link a single-occurring field to a field that is at the same level of nesting. The Treat this field as a repeating field option allows you to link fields that are in different nesting levels. If you do not check this option, you must link this field to a field that is at the same nesting level.</p>
11	<p>Click OK to save the changes to the field.</p>

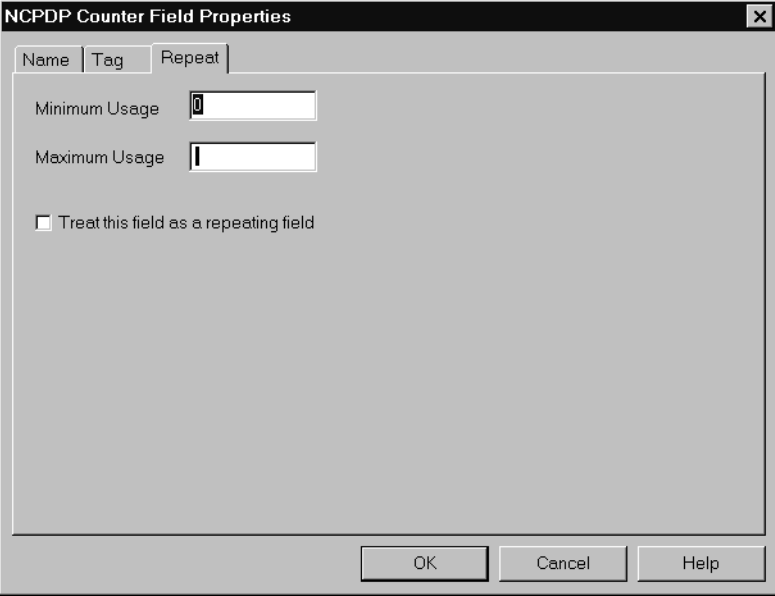
How to Create a Counter Field

Introduction Count and counter fields are repeating fields. A **counter field** identifies a specific loop in a series of loops, in sequential order. Counter fields may occur multiple times with their associated repeating fields.

Procedure: Use this procedure to create a counter field.

Step	Action
1	Right-click on the map object that precedes the counter field you are creating.
2	<p>Depending on the level of the map object you selected, click either Create Sub or Insert from the drop-down menu and then click Counter Field on the submenu.</p> <p>System Response The system displays the NCPDP Counter Field Properties dialog box with the Name tab selected.</p>  <p style="text-align: right; color: red;">(Continued on next page)</p>

(Contd) Step	Action
3	Type the name of the field in the first box on the Name tab. WARNING Do not use spaces or dashes in the Name box. You can use the underscore symbol (_) to separate words.
4	Type the description of the field in the second box on the Name tab; then click OK . Tip Use the description to provide a brief explanation of the field so that you can differentiate it from similar fields.
5	Click the Tag tab and continue with the next step. 
6	Type the field identifier in the Field ID box.
7	Do you want to designate that the order of this field is fixed? <ul style="list-style-type: none"> ▶ If YES, click the Fixed Order check box; then click OK. ▶ If NO, click OK and continue with the next step. <p style="text-align: right; color: red;">(Continued on next page)</p>

(Contd) Step	Action
8	<p>Click the Repeat tab and continue with the next step.</p> 
9	<p>Specify the minimum and maximum number of times that the field can repeat by typing values in the Minimum Usage and Maximum Usage boxes. The default value for Maximum Usage must be 1.</p> <p>Note if the value in the Minimum Usage is greater than 1, then the Counter field is mandatory.</p>
10	<p>If this field is part of a loop, click the Treat this field as a repeating field check box. This option enables you to link this field to a field that is at a different nesting level.</p> <p>Note When you link fields on the input side of your map to fields on the output side, the Application Integration mapper normally requires that you link a single-occurring field to a field that is at the same level of nesting. This option allows you to link fields that are in different nesting levels. If you do not check this option, you must link this field to a field that is at the same nesting level.</p>
11	<p>Click OK to save the changes to the field.</p>

Creating NCPDP Trading Partnership Records

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Overview

Introduction

In this chapter

This chapter describes how to create Trading Partnership records for the trading partners with whom you exchange NCPDP files.

Key terms

This table describes key terms used in this chapter.

Term	Description
processor	The entity that processes a claim made for prescriptions or services.
Receiver ID	The code that identifies the processor who receives the batch file. The processor or switch receiving the file assigns the Receiver ID. This ID reflects valid enrollment between trading partners for batch file submission.
Sender ID	The code that identifies the provider who sends (to a processor or switch) a batch file that contains claims or other NCPDP transactions. The processor or switch usually assigns the provider's Sender ID. This ID reflects valid enrollment between trading partners for batch file submission.

NCPDP Trading Partnership Records

Required Trading Partnership records

For NCPDP trading partnerships, you must create:

- An Interchange Organization record
- A Group Organization record
- A Trading Partnership record for each inbound document you expect to receive
- A Trading Partnership record for each outbound document you expect to send

Reference

See the Working with Trading Partnerships chapter in the *GENTRAN:Server Application Integration User's Guide* for general information about these records.

Supplementary records

For outbound Trading Partnership records, you must also create these supplementary records:

- Batch Transaction information (header, detail, and trailer segments)
 - Transaction Header information for Requests and Responses
-

Trading Partnership Dialog Boxes

In this section

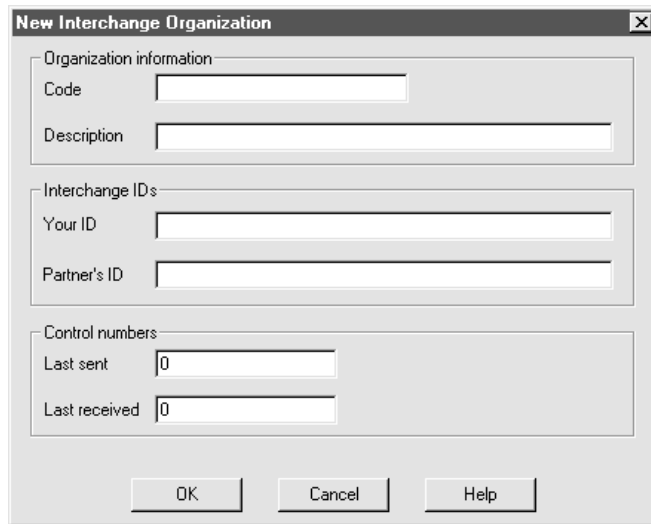
This section describes the dialog boxes used to create NCPDP Trading Partnership records.

It includes:

- ▶ [Interchange Organization Dialog Box](#)
 - ▶ [Group Organization Dialog Box](#)
 - ▶ [Trading Partnership Editor Dialog Boxes](#)
 - ▶ [Batch Transaction Information Dialog Box](#)
 - ▶ [NCPDP Transaction Request Header Information Dialog Box](#)
 - ▶ [NCPDP Transaction Response Header Information Dialog Box](#)
-

Interchange Organization Dialog Box

Illustration This illustration shows the Interchange Organization dialog box.



Fields and functions This table describes the fields of the New Interchange Organization dialog box and their functions.

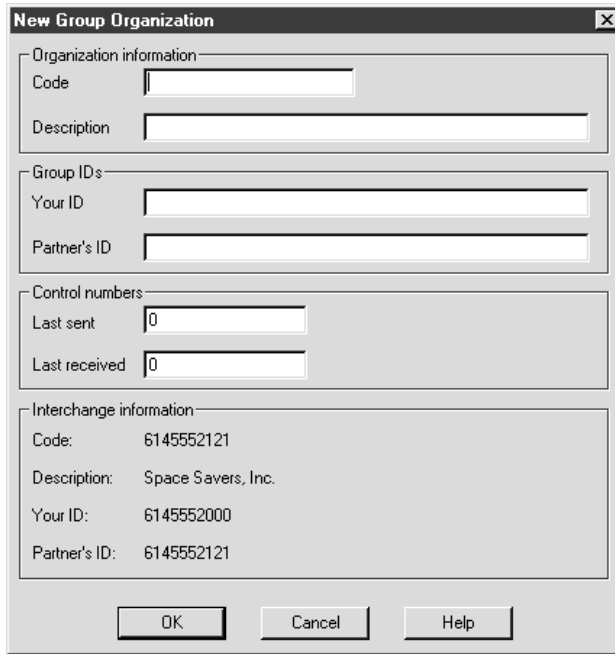
Field	Function
<i>Organization Information</i>	
Code	Defines a unique organization code.
Description	Describes the Interchange Organization.
<i>Interchange IDs</i>	
Your Interchange ID	Defines your unique interchange identifier that is inserted into the Interchange envelope when the data is translated.
Partner's Interchange ID	Defines your trading partner's unique interchange identifier that is inserted into the Interchange envelope when the data is translated.

(Continued on next page)

(Contd) Field	Function
<i>Control Numbers</i>	
Last Sent Control Numbers	Initializes the counter used for NCPDP batch numbers. (Outbound only)
Last Received Control Numbers	Initializes the counter used for NCPDP batch numbers for business documents that you receive from this trading partner.

Group Organization Dialog Box

Illustration This illustration shows the New Group Organization dialog box.



Fields and functions This table describes the fields of the New Group Organization dialog box and their functions.

Field	Function
<i>Organization information</i>	
Organization Code	Defines a unique Group Organization code that is inserted into the Group envelope when the data is translated.
Organization Description	Describes the Group Organization.
<i>Group IDs</i>	
Your ID	Defines the Service Provider ID Qualifier that is inserted into the group envelope when the data is translated.

(Continued on next page)

(Contd) Field	Function
Partner's ID	Defines your trading partner's unique Service Provider ID that is inserted into the group envelope when the data is translated.
<i>Control numbers</i>	
Last Sent Control Numbers	Initializes the counter used for control numbers for your business documents.
Last Received Control Numbers	Initializes the counter used for control numbers for business documents that you receive from this trading partner.
<i>Interchange information</i>	
Code	Displays the interchange organization code associated with this group.
Description	Displays the description of the Interchange Organization.
Your ID	Displays your unique interchange identifier that is inserted into the Interchange envelope when the data is translated.
Partner's ID	Displays your trading partner's unique interchange identifier that is inserted into the Interchange envelope when the data is translated.

Trading Partnership Editor Dialog Boxes

Introduction The Trading Partnership Editor dialog box contains several tabs.

Note

GENTRAN:Server displays a different set of tabs for inbound and outbound trading partnerships.

Trading Partnership tab

This illustration shows an example of the Trading Partnership tab of the Trading Partnership Editor dialog box.

The screenshot shows a dialog box titled "Trading Partnership" with a close button (X) in the top right corner. The dialog is divided into three main sections:


- Trading partnership information:** Contains two text input fields. The "Code" field contains "299932" and the "Description" field contains "Werther apo genG3".
- Translation information:** Contains a "Translation type" dropdown menu set to "Standard to Application", a "Map name" text input field containing "B1XBillApp" with a help icon to its right, a "Map description:" label, and a "File Definition filename" text input field with a help icon to its right.
- Identification:** A read-only area displaying four rows of information:
 - Your interchange ID: 3372288199
 - Partner's interchange ID: 7382918283
 - Your group ID: 883829
 - Partner's group ID: 9939284

At the bottom of the dialog, there are four buttons: "< Back", "Next >", "Cancel", and "Help".

(Continued on next page)

Fields and functions

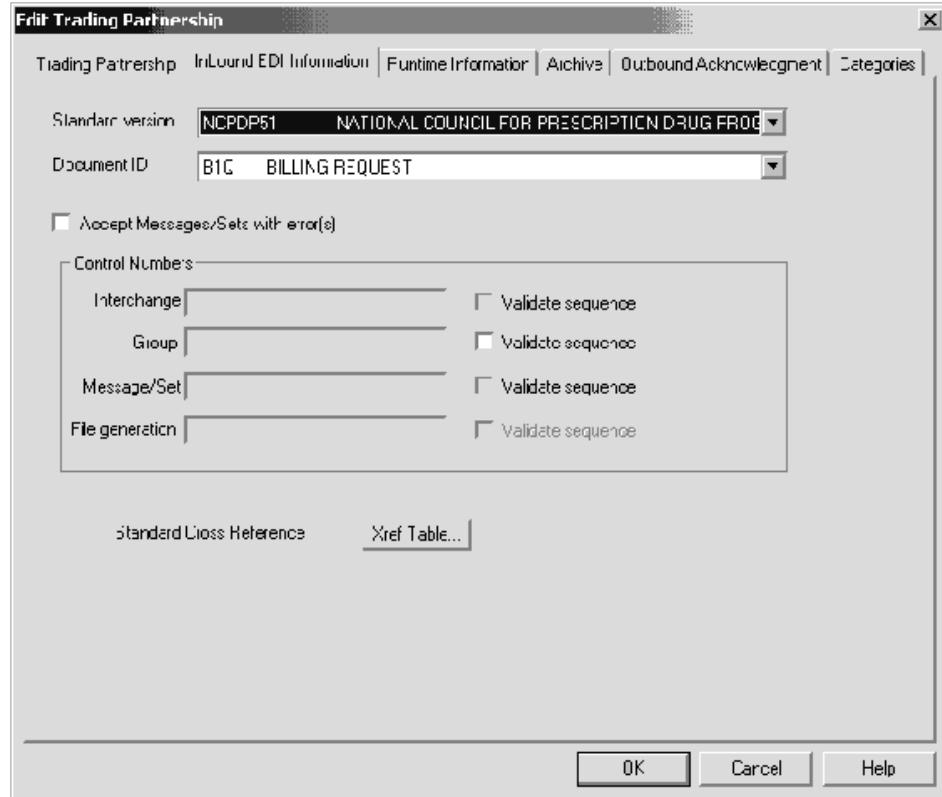
This table lists the fields of the Trading Partnership tab of the Trading Partnership Editor dialog box and their functions.

Field	Function
Trading Partnership Code	Defines a unique code for the Trading Partnership. The translator uses this code when creating the segment envelope. (maximum of 15 characters)
Trading Partnership Description	Provides a brief description of the Trading Partnership. (maximum of 30 characters)
Translation Type	Defines the type of translation for the Trading Partnership. Note The Translation Type box is view only. You can select a translation type only when creating a new Trading Partnership.
Map Name	Defines the compiled map (translation object) to use when translating data for the Trading Partnership. Only translation objects (TPL files) are valid selections. Note To search for a specific compiled map, click the Map Search icon to the right of the Map Name text box. 
Map description	Displays the GENTRAN:Server product and version used to generate the map.
File Definitions filename	Specifies the file definition (.DDF file) that the map uses if the input file is an application file. If the input file is not an application file, this box is disabled. The browser associated with this box displays all the file definitions that reside in the App/DDF Files directory. Note This field links the Trading Partnership record to the file definition. You must complete this box when the input side of the map is an application format.

(Continued on next page)

Inbound EDI Information tab

This illustration shows an example of the Inbound EDI Information tab on the Trading Partnership Editor dialog box.



Fields and functions

This table lists the fields of the Inbound EDI Information tab of the Trading Partnership Editor dialog box and their functions.

Field	Function
Standard version	Lists the available EDI standards and versions. This is a key field that GENTRAN:Server uses to identify the Trading Partnership record. Note The Trading Partnership Editor accepts a dollar sign (\$) as a wildcard indicator for this field.

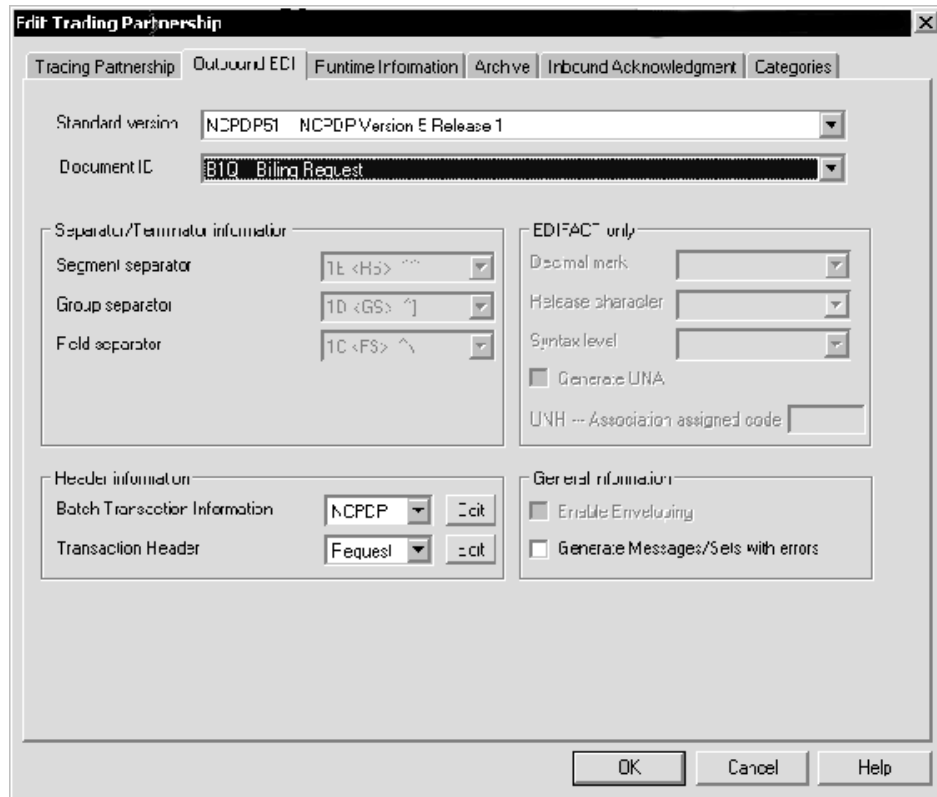
(Continued on next page)

(Contd) Field	Function
Document ID	<p>Lists the available NCPDP transactions (EDI document types) that you may translate. This is a key field that GENTRAN:Server uses to identify the Trading Partnership record.</p> <p>Note</p> <p>The Trading Partnership Editor accepts a dollar sign (\$) as a wildcard indicator for this field.</p>
Accept Messages/Sets with error(s)	<p>Enables you to accept messages or transaction sets containing compliance errors from your trading partner.</p>
<i>Control Numbers</i>	
Interchange	<p>Initializes the counter used for control numbers for business documents that you receive from your trading partner.</p> <p>Note</p> <p>If you click Maintain globally on the Runtime Information tab, this field is unavailable.</p>
Validate sequence	<p>Checks the Interchange control numbers to ensure that they are in sequence.</p>
Group	<p>Initializes the counter used for control numbers for business documents that you receive from this trading partner.</p> <p>Note</p> <p>If you click Maintain globally on the Runtime Information tab, this field is unavailable.</p>
Validate sequence	<p>Checks the Group control numbers to ensure that they are in sequence.</p>
Message/Set	<p>Initializes the counter used for control numbers for business documents that you receive from this trading partner.</p>
Validate sequence	<p>Checks the Message or Transaction Set control numbers to ensure that they are in sequence.</p>
File generation	<p>Appends a file generation number to the end of the out filename for TRADACOMs standards.</p> <p style="text-align: right;">(Continued on next page)</p>

(Contd) Field	Function
Validate sequence	Checks the File generation control numbers to ensure that they are in sequence.
Xref Table	Displays the Standard Cross Reference dialog box.

Outbound EDI tab

This illustration shows an example of the Outbound EDI tab of the Trading Partnership Editor dialog box.



(Continued on next page)

Fields and functions

This table lists the fields of the Outbound EDI tab of the Trading Partnership Editor dialog box and their functions.

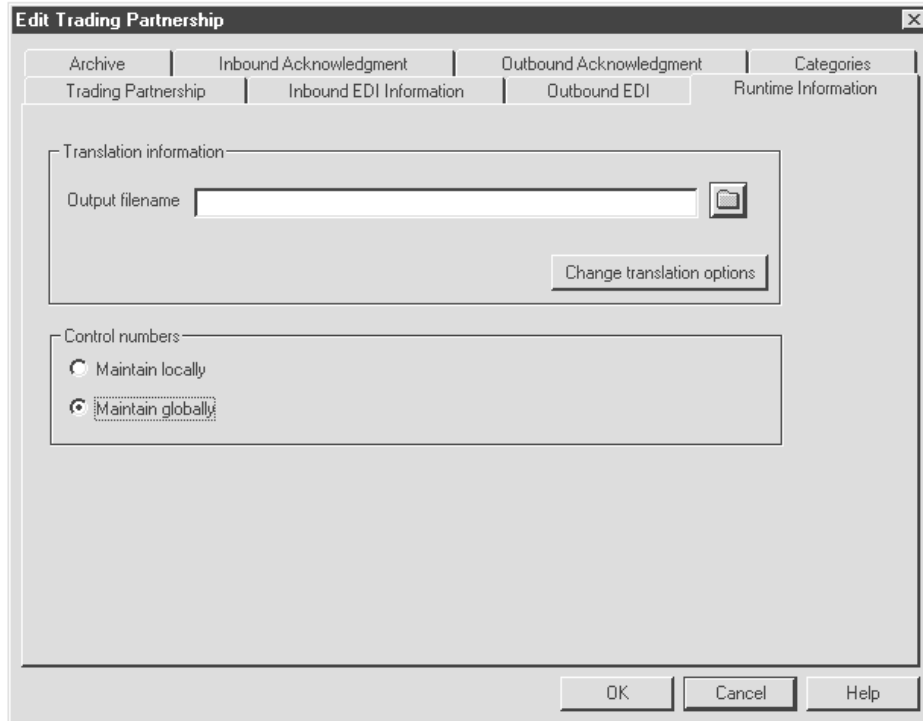
Field	Function
Standard version	Lists the available EDI standards and versions. This is a key field that GENTRAN:Server uses to identify the Trading Partnership record. Note The Trading Partnership Editor accepts a dollar sign (\$) as a wildcard indicator for this field.
Document ID	Lists the available NCPDP transaction types that you may translate. This is a key field that GENTRAN:Server uses to identify the Trading Partnership record. Note The Trading Partnership Editor accepts a dollar sign (\$) as a wildcard indicator for this field.
<i>Separator/Terminator Information</i>	
Segment separator	Displays the NCPDP character used to separate segments.
Group separator	Displays the NCPDP character used to separate groups.
Field separator	Displays the NCPDP character used to separate fields.
<i>Header Information</i>	
Batch Transaction Information	Defines the type of header segment used for the Interchange envelope.
Transaction Header	Defines whether the Transaction Header is a Request or Response. Default value is based on the Document ID.
<i>EDIFACT only (Disabled for NCPDP Trading Partnerships records)</i>	
Decimal mark	This option is not available for NCPDP Trading Partnerships.
Release character	This option is not available for NCPDP Trading Partnerships.

(Continued on next page)

(Contd) Field	Function
Syntax level	This option is not available for NCPDP Trading Partnerships.
Generate UNA	This option is not available for NCPDP Trading Partnerships.
UNH---Association assigned code	This option is not available for NCPDP Trading Partnerships.
<i>General information</i>	
Enable enveloping	This option is not available for NCPDP Trading Partnerships.
Generate Messages/ Sets with errors	Enables you to create output that contains errors.

Runtime Information tab

This illustration shows an example of the Runtime Information tab of the Trading Partnership Editor dialog box.



(Continued on next page)

Fields and functions

This table lists the fields of the Runtime Information tab of the Trading Partnership Editor dialog box and their functions.

Field	Function
Output filename	Defines the name of the file in which GENTRAN:Server will store the translated data.
Change translation options	Displays the Translation Options dialog box, which enables you to override (for this Trading Partnership) the default translation option that appends or does not append T or P to the file name.
Maintain locally	Enables you to maintain control numbers at the Trading Partnership level. This is the default setting. Note The Maintain globally/locally options are displayed when the output file is an EDI standard.
Maintain globally	Enables you to maintain control numbers for an entire organization. Note The Maintain globally/locally options are displayed when the output file is an EDI standard.

Archive tab

All options are disabled on this tab for NCPDP Trading Partnerships

Inbound Acknowledgment tab

All options on this tab are disabled for NCPDP Trading Partnerships.

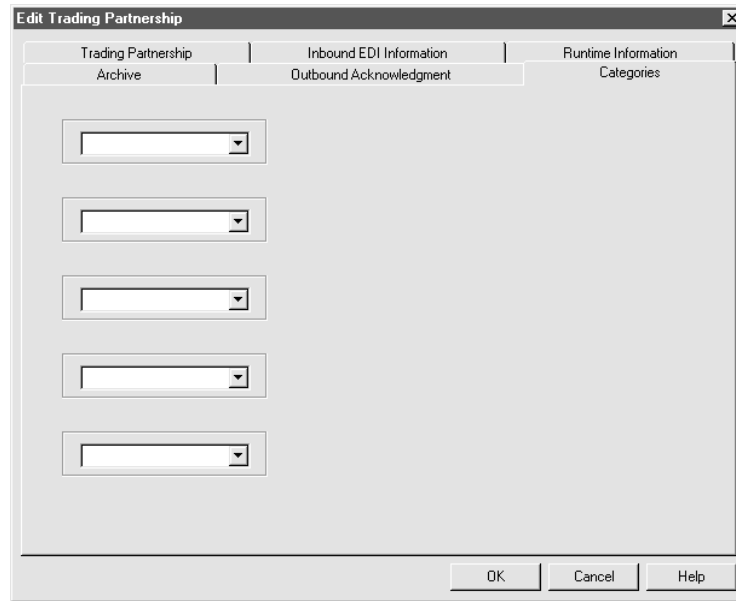
Outbound Acknowledgment tab

All options on this tab are disabled for NCPDP Trading Partnerships.

(Continued on next page)

Categories tab

This illustration shows an example of the Categories tab of the Trading Partnership Editor dialog box.

**Fields and functions**

The fields on the Categories tab are specific to your organization. Each field represents a category type that you can assign to the current Trading Partnership.

You must define the categories on the User Defined Category Types dialog box.

Batch Transaction Information Dialog Box

Illustration This illustration shows the Batch Transaction Information dialog box.

Fields and functions

This table shows the fields of the Batch Transaction Information dialog box and their functions.

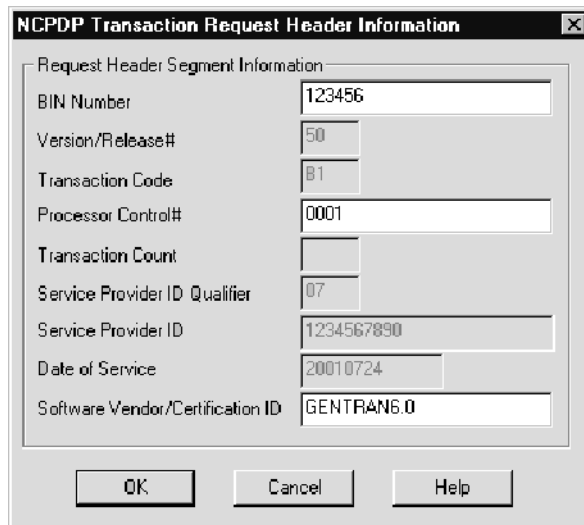
Field	Function
Header Segment Information	
Segment Identifier	Displays the segment identifier for the header segment. The code for an NCPDP File Control header is 00.
Transmission Type	Identifies the type of transmission. <ul style="list-style-type: none"> • T = Transaction (a request). Used when a provider is submitting a batch file. • R = Response (a response). Used to denote that a file returned to the HIPAA provider contains responses to claims. • E = Error. Used when the processor or switch has rejected the entire batch file because the file failed the integrity test.
Sender ID	Displays the identifier that the receiving processor or switch assigns. This ID reflects valid enrollment between trading partners for batch file submission. <p style="text-align: right; color: red;">(Continued on next page)</p>

(Contd) Field	Function
Batch Number	<p>The batch identifier that the sender assigns. It must match the trailer batch number. The maximum size is 7 characters.</p> <p>Notes The batch number on a response batch file should be the same batch number that was used in the request batch file originally sent from the HIPAA provider. This ties the Request batch file to the Response batch file.</p> <p>This box is available only if you maintain control numbers locally and the Transmission Type is T or E.</p>
Creation Date	<p>Displays the date that the batch file was created. The date format is CCYYMMDD.</p>
Creation Time	<p>Displays the time that the batch file was created. The time format is HHMM.</p>
File Type	<p>Indicates the type of file.</p> <ul style="list-style-type: none"> ▶ P = Production ▶ T = Test
Version/Release #	<p>Identifies the two-character NCPDP version or release number of the header data.</p>
Receiver ID	<p>Displays the processor's identification code.</p>
Detail Segment Information	
Segment Identifier	<p>Displays the code used to identify the detail data segment. The code for a detail data record is G1.</p>
Transaction Ref#	<p>Defines the reference number that the sender (e.g., a pharmacy) assigns to uniquely identify a claim within a transmitted file. The maximum size is 10 characters.</p> <p>Note The processor who receives the request file and builds the response file must include the claim's transaction reference number with each detail data record response. This enables the provider to match the response with claim originally submitted.</p>
Trailer Segment Information	
Segment Identifier	<p>Displays the code used to identify the trailer segment. The code for a trailer segment is 99.</p> <p style="text-align: right; color: red;">(Continued on next page)</p>

(Contd) Field	Function
Batch Number	Displays the batch number that the sender assigns. This is the same batch number used in the batch header segment.
Record Count	Displays the total number of records in the batch file, including the header and trailer records.
Message	Defines the informational message to be included in the trailer segment. Can be used to explain the reasons why the entire batch file was rejected, include information about testing, or list any other information that needs to be sent regarding the batch. The maximum size is 35 characters.

NCPDP Transaction Request Header Information Dialog Box

Illustration This illustration shows the NCPDP Transaction Request Header Information dialog box.



Fields and functions This table shows the fields of the NCPDP Transaction Request Header Information dialog box and their functions.

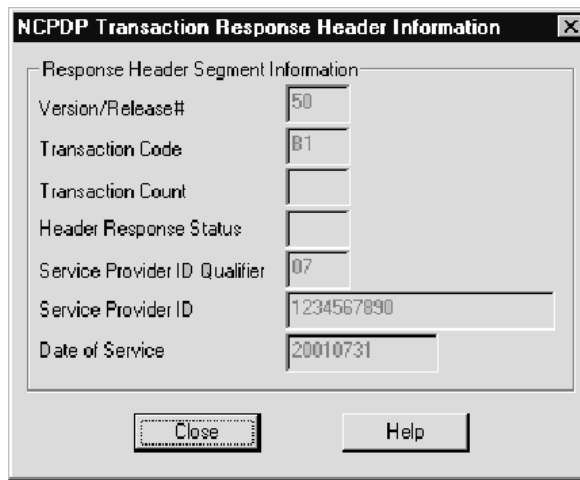
Field	Function
BIN Number	Defines the issuer ID or bank ID number used for network routing.
Version/Release#	Identifies the two-character NCPDP version or release number of the header data.
Transaction Code	Displays the NCPDP Transaction Code, which indicates the type of document or claim.
Processor Control#	Defines the processor control number.
Transaction Count	Displays the number of transactions included in the transmission.

(Continued on next page)

(Contd) Field	Function
Service Provider ID Qualifier	Displays the code that qualifies the Service Provider ID. Reference See your NCPDP Data Dictionary for values.
Service Provider ID	Displays the ID assigned to the pharmacy or service provider.
Date of Service	Displays the date that the prescription was filled or professional service was rendered.
Software Vendor/ Certification ID	Defines the ID that the processor assigned to identify the source of the software.

NCPDP Transaction Response Header Information Dialog Box

Illustration This illustration shows the NCPDP Transaction Response Header Information dialog box.



Fields and functions This table shows the fields of the NCPDP Transaction Request Header Information dialog box and their functions.

Field	Function
Version/Release#	Identifies the two-character NCPDP version or release number of the header data.
Transaction Code	Displays the NCPDP Transaction Code, which identifies the type of document or claim.
Transaction Count	Displays the number of transactions included in the transmission.
Header Response Status	Displays the status of the transmission. <ul style="list-style-type: none"> ▶ A = Accepted ▶ R = Rejected

(Continued on next page)

(Contd) Field	Function
Service Provider ID Qualifier	Displays the code that qualifies the Service Provider ID. Reference See your NCPDP Data Dictionary for values.
Service Provider ID	Displays the ID assigned to the pharmacy or service provider.
Date of Service	Displays the date that the prescription was filled or professional service was rendered.

Procedures

How to Create Inbound NCPDP Trading Partnership Records

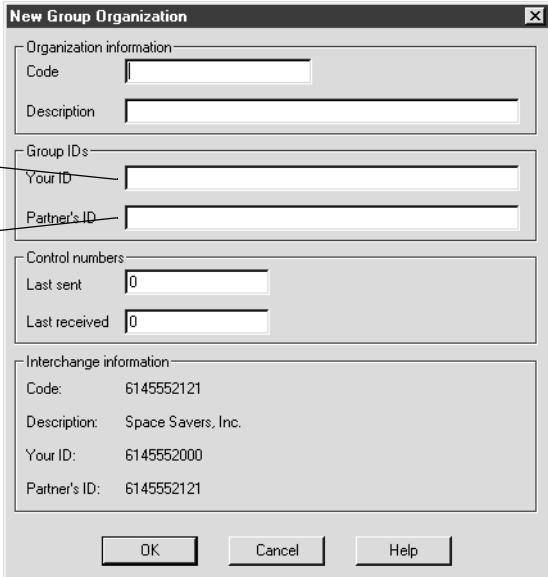
Introduction This topic briefly describes how to create a Trading Partnership record when the translation input is in an NCPDP standard format.

Reference
 See the Working with Trading Partnerships chapter in the *GENTRAN:Server Application Integration User's Guide* for detailed instructions on creating Trading Partnership records.

Procedure Use this procedure to create a Trading Partnership record.

Step	Action
1	Start the Trading Partnership editor.
2	<p>Create the Interchange Organization record, if it doesn't exist.</p> <p>Note The Control numbers fields are used for batch numbers in NCPDP trading partnership records.</p> <div data-bbox="852 1329 1409 1776" style="border: 1px solid gray; padding: 5px; margin: 10px auto; width: fit-content;"> <p>New Interchange Organization [X]</p> <p>Organization information</p> <p>Code <input type="text"/></p> <p>Description <input type="text"/></p> <hr/> <p>Interchange IDs:</p> <p>Your ID <input type="text"/></p> <p>Partner's ID <input type="text"/></p> <hr/> <p>Control numbers:</p> <p>Last sent <input type="text" value="0"/></p> <p>Last received <input type="text" value="0"/></p> <p style="text-align: right;"> <input type="button" value="OK"/> <input type="button" value="Cancel"/> <input type="button" value="Help"/> </p> </div> <p style="margin-left: 20px;"><i>NCPDP batch numbers</i> →</p>

(Continued on next page)

(Contd) Step	Action	
3	Create the Group Organization record (if it doesn't exist), using these values in the Group IDs fields.	
	Field	Value
	Your ID	Type the Service Provider ID Qualifier.
	Partner's ID	Type the Service Provider ID.
	 <p><i>Service Provider ID Qualifier</i></p> <p><i>Service Provider ID</i></p>	
4	Start the Trading Partnership wizard.	
5	Complete the series of dialog boxes in the Trading Partnership wizard. Note the field requirements for the following dialog boxes.	
	Trading Partnership	
	Field	Value
	Map name	Specify the name of the NCPDP map.
	File Definition filename	Specify the name of the NCPDP input DDF file (only if you used a DDF file to create the map). <i>(Continued on next page)</i>

(Contd) Step	Action	
	Inbound EDI tab	
	Field	Value
	Standard Version	Select an NCPDP version from the drop-down list.
	Document ID	Specify the NCPDP transaction code. Select one from the list or enter it in the Document ID box. Note “Q” at the end of the document ID indicates that the document is a request. “R” indicates that the document is a response.
6	Click Finish to save the Trading Partnership record.	

How to Create Outbound NCPDP Trading Partnership Records

Introduction

This topic briefly describes how to create a Trading Partnership record when the output of translation is in an NCPDP standard format.

Reference

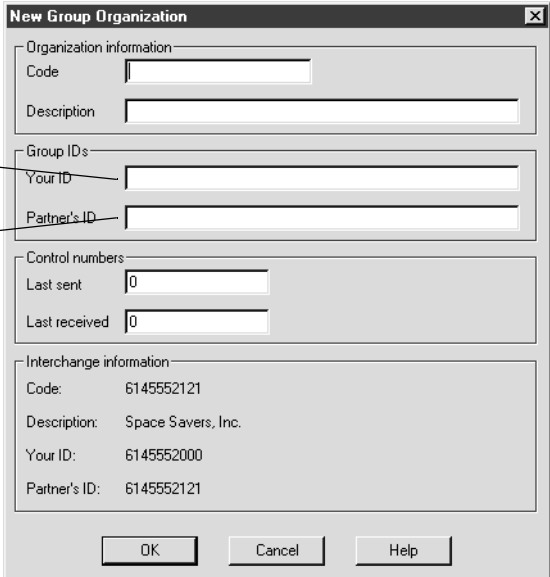
See the Working with Trading Partnerships chapter in the *GENTRAN:Server Application Integration User's Guide* for detailed instructions on creating Trading Partnership records.

Procedure

Use this procedure to create a Trading Partnership record.

Step	Action
1	Start the Trading Partnership editor.
2	<p>Create the Interchange Organization record, if it does not exist.</p> <p>Note The Control numbers fields are used for batch numbers in NCPDP trading partnership records.</p> <div data-bbox="850 1192 1411 1640" style="border: 1px solid gray; padding: 5px;"> <p>New Interchange Organization [X]</p> <p>Organization information</p> <p>Code <input type="text"/></p> <p>Description <input type="text"/></p> <hr/> <p>Interchange IDs</p> <p>Your ID <input type="text"/></p> <p>Partner's ID <input type="text"/></p> <hr/> <p>Control numbers</p> <p>Last sent <input type="text" value="0"/></p> <p>Last received <input type="text" value="0"/></p> <p style="text-align: right;">OK Cancel Help</p> </div> <p><i>NCPDP batch numbers</i> →</p>

(Continued on next page)

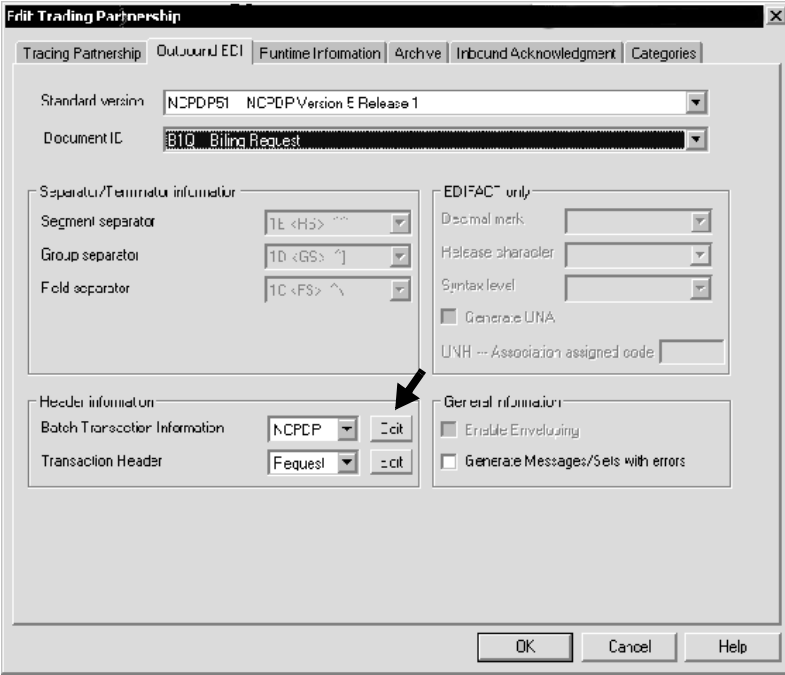
(Contd) Step	Action	
3	Create the Group Organization record, if it does not exist. Use the following values in the Group IDs fields.	
	Field	Value
	Your ID	Type the Service Provider ID Qualifier.
	Partner's ID	Type the Service Provider ID.
	 <p><i>Service Provider ID Qualifier</i></p> <p><i>Service Provider ID</i></p>	
4	Start the Trading Partnership wizard.	
5	Complete the series of dialog boxes in the Trading Partnership wizard. Note the field requirements for the following dialog boxes.	
	Trading Partnership	
	Field	Value
	Map name	Specify the name of the NCPDP map.
	File Definition filename	Specify the name of the NCPDP input DDF file (only if you used a DDF file to create the map). <i>(Continued on next page)</i>

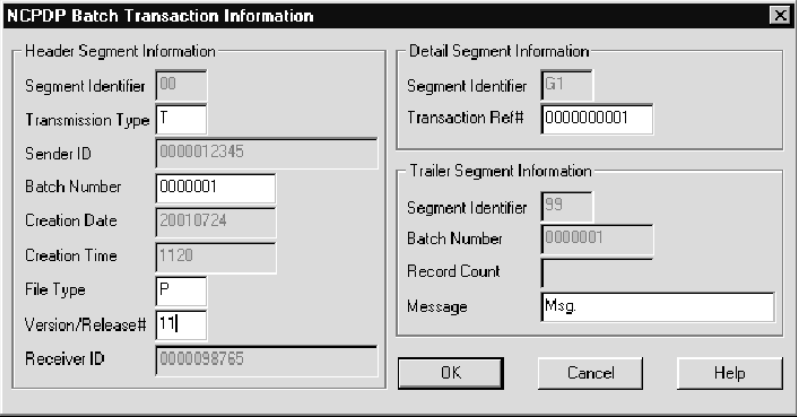
(Contd) Step	Action	
	Outbound EDI	
	Field	Value
	Standard Version	Select the current NCPDP version from the drop-down list.
	Document ID	Specify the NCPDP transaction code. Select one from the list or enter it in the Document ID box.
	Batch Transaction Header	<p>NCPDP is displayed in the box when you choose an NCPDP standard.</p> <p>Reference To change the settings for the Batch Header, click Edit and then see the How to Set Batch Transaction Information topic for detailed instructions.</p>
Transaction Header	<p>Either Request or Response is displayed in this box, based on the value in the Document ID box.</p> <p>Reference If you want to change the settings for the Transaction Header, click Edit and then see the How to Configure the Transaction Request Header topic for detailed instructions.</p> <p>Note You can view, but you cannot edit, a response transaction header. See How to View the Transaction Response Header.</p>	
6	Click Finish to save the Trading Partnership record.	

How to Set Batch Transaction Information

Introduction This topic describes how to define Batch Transaction information used for outbound NCPDP files that you send to this trading partner. There are three segments to define: Header segment, Detail segment, and Trailer segment.

Procedure Use this procedure to configure the batch transaction information for this Trading Partnership.

Step	Action
1	<p>On the Outbound EDI dialog box or tab, click the Edit box that is next to the Batch Transaction Information box.</p>  <p>(Continued on next page)</p>

(Contd) Step	Action
	<p>System Response The system displays the NCPDP Batch Transaction Information dialog box.</p> 
2	<p>Do you want to change the transmission type?</p> <ul style="list-style-type: none"> ▶ If YES, type the correct value in the Transmission Type box and then continue with the next step. The valid values are: <ul style="list-style-type: none"> — T = Transaction (a request) — R = Response (a response) — E = Error ▶ If NO, continue with the next step.
3	<p>Do you want to change the batch number?</p> <ul style="list-style-type: none"> ▶ If YES, type the correct value in the Batch Number box and then continue with the next step. ▶ If NO, continue with the next step. <p>Notes The Batch Number box is available only if the control numbers are maintained locally and the transmission type is T or E.</p> <p>The batch number in the batch trailer is always the same as the batch number in the batch header.</p> <p style="text-align: right; color: red;">(Continued on next page)</p>

(Contd) Step	Action
4	<p>Do you want to change the file type?</p> <ul style="list-style-type: none"> ▶ If YES, type the correct value in the File Type box and then continue with the next step. The valid values are: <ul style="list-style-type: none"> — P = Production — T = Test ▶ If NO, continue with the next step.
5	<p>Do you want to change the version release number?</p> <ul style="list-style-type: none"> ▶ If YES, type the correct value in the Version/Release# box and then continue with the next step. ▶ If NO, continue with the next step.
6	<p>Do you want to change the transaction reference number?</p> <ul style="list-style-type: none"> ▶ If YES, type the correct value in the Transaction Ref# box and then continue with the next step. ▶ If NO, continue with the next step.
7	<p>Do you want to change the text of the message in the trailer segment?</p> <ul style="list-style-type: none"> ▶ If YES, type the new message in the Message box and then continue with the next step. ▶ If NO, continue with the next step.
8	<p>Click OK to save your changes.</p> <p>System Response The system returns to the Outbound EDI dialog box.</p>

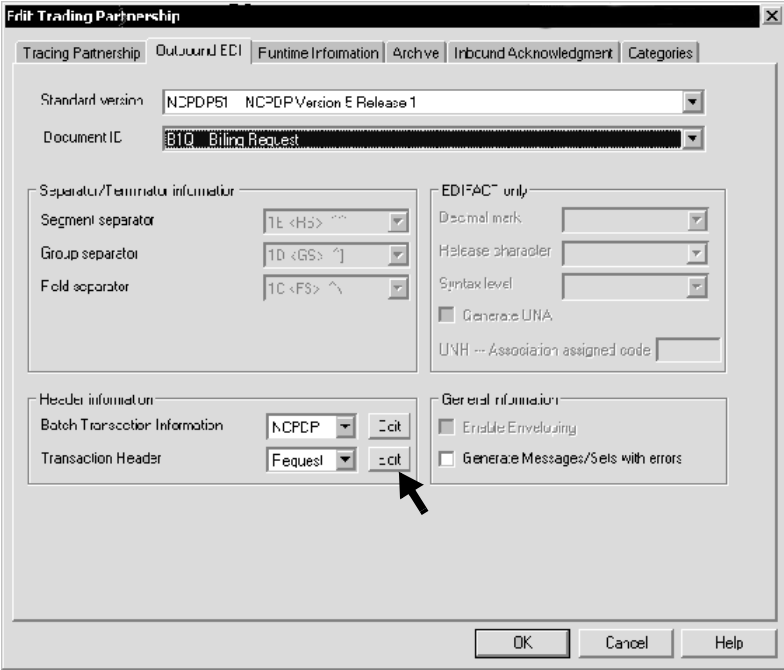
How to Configure the Transaction Request Header

Introduction This topic describes how to configure the settings of the transaction header used for outbound NCPDP request transactions that you send to this trading partner.

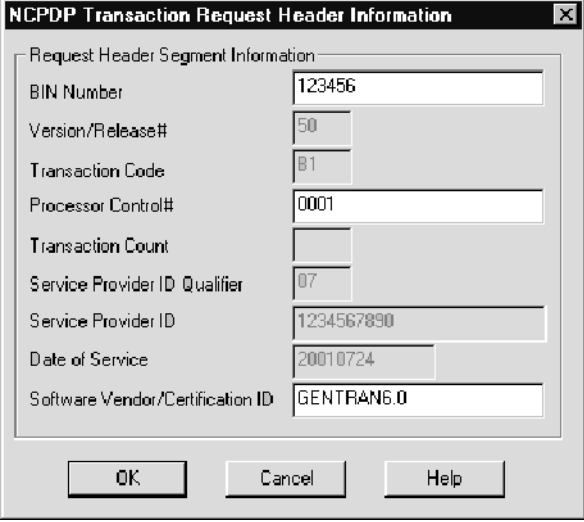
Note

You can use this procedure to view the settings for a response transaction header, but you cannot change them. See [How to View the Transaction Response Header](#) for information.

Procedure Use this procedure to configure the transaction request header information for this Trading Partnership.

Step	Action
1	<p>On the Outbound EDI dialog box or tab, click the Edit box that is next to the Transaction Header box.</p>  <p>The screenshot shows the 'Edit Trading Partnership' dialog box with the following settings:</p> <ul style="list-style-type: none"> Standard version: NCPDP51 NCPDP Version E Release 1 Document ID: B10 Billing Request Separator/Terminator information: <ul style="list-style-type: none"> Segment separator: TE <H5> ^ Group separator: TD <GS> ^ Fold separator: TC <FS> ^ EDI/AC only: <ul style="list-style-type: none"> Decimal mark: [empty] Release character: [empty] Syntax level: [empty] Generate UNA: <input type="checkbox"/> UNH -- Association assigned code: [empty] Header information: <ul style="list-style-type: none"> Batch Transaction Information: NCPDP [Edit] Transaction Header: Request [Edit] (highlighted with arrow) General information: <ul style="list-style-type: none"> Enable Enveloping: <input type="checkbox"/> Generate Messages/Sets with errors: <input type="checkbox"/>

(Continued on next page)

(Contd) Step	Action
	<p>System Response The system displays the NCPDP Transaction Request Header Information dialog box.</p> 
2	<p>Do you want to change the BIN number?</p> <ul style="list-style-type: none"> ▶ If YES, type the correct value in the BIN Number box and then continue with the next step. The valid values are: ▶ If NO, continue with the next step.
3	<p>Do you want to change the processor control number?</p> <ul style="list-style-type: none"> ▶ If YES, type the correct value in the Processor Control# box and then continue with the next step. ▶ If NO, continue with the next step.
4	<p>Do you want to change the value for the software vendor or certification ID?</p> <ul style="list-style-type: none"> ▶ If YES, type the correct value in the Software Vendor/Certification ID box and then continue with the next step. The valid values are: ▶ If NO, continue with the next step.
5	<p>Click OK to save your changes.</p> <p>System Response The system returns to the Outbound EDI dialog box.</p>

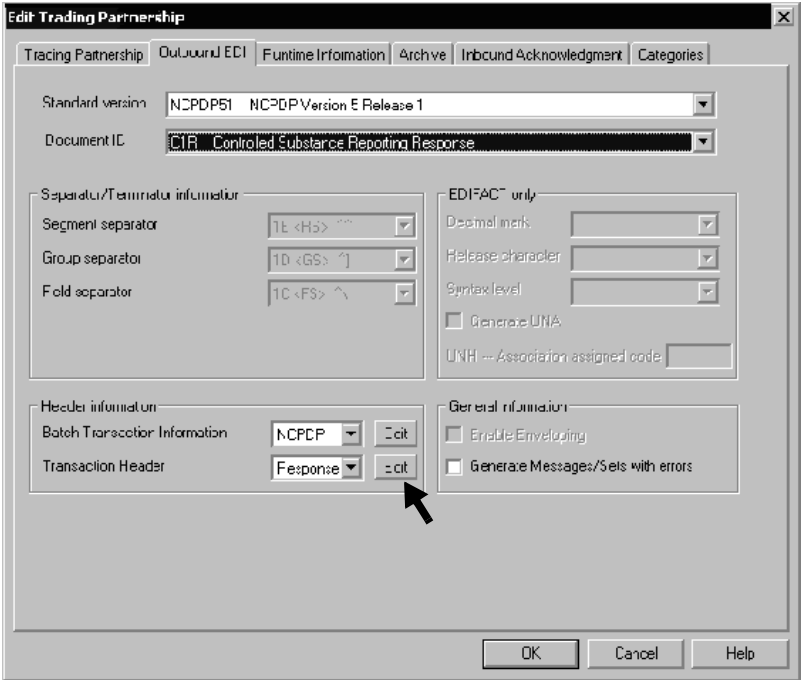
How to View the Transaction Response Header

Introduction This topic describes how to view the settings of the transaction header used for outbound NCPDP response transactions that you send to this trading partner.

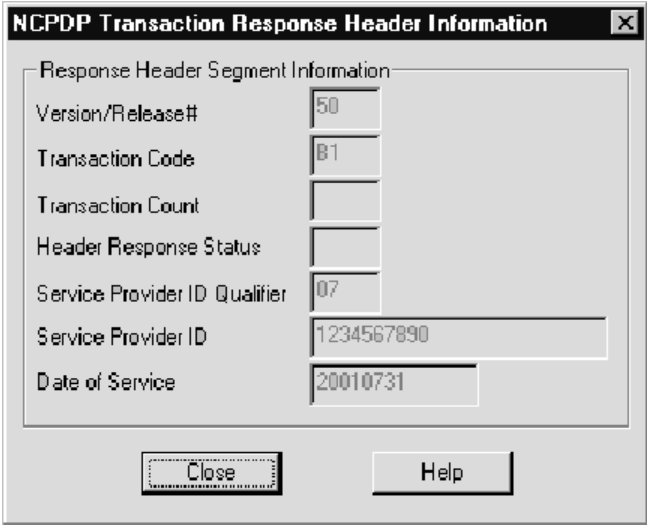
Note

You can view the settings for a Transaction Response Header, but you cannot change them.

Procedure Use this procedure to view the Transaction Response Header information for this Trading Partnership.

Step	Action
1	<p>On the Outbound EDI dialog box or tab, click the Edit box that is next to the Transaction Header box.</p>  <p>The screenshot shows the 'Edit Trading Partnership' dialog box with the following details:</p> <ul style="list-style-type: none"> Standard version: NCPDP51 NCPDP Version 5 Release 1 Document ID: CTR - Controlled Substance Reporting Response Separator/Terminator information: <ul style="list-style-type: none"> Segment separator: TE <H3> ~ Group separator: TD <GS> ^ Fold separator: FC <FS> ^ EDI/FACT only: <ul style="list-style-type: none"> Decimal mark: [dropdown] Release character: [dropdown] Syntax level: [dropdown] Generate UNA: <input type="checkbox"/> UNH -- Association assigned code: [text box] Header information: <ul style="list-style-type: none"> Batch Transaction Information: NCPDP [Edit] Transaction Header: Response [Edit] General information: <ul style="list-style-type: none"> Enable Enveloping: <input type="checkbox"/> Generate Messages/Sets with errors: <input type="checkbox"/>

(Continued on next page)

(Contd) Step	Action
	<p>System Response The system displays the NCPDP Transaction Response Header Information dialog box.</p> 
<p>2</p>	<p>Click Close to exit the dialog box.</p> <p>System Response The system returns to the Outbound EDI dialog box.</p>

Batch Transaction Sets

Contents

▶ Batch Transaction Header	2
▶ Batch Detail Data Record	3
▶ Batch Trailer Record	4
▶ Request Transaction Header Segment	5
▶ Response Transaction Header Segment	6

Batch Transaction Header

Format: fixed-length (non-delimited)

Length: 75 characters

Segment ID: 2-characters (00)

Field	Field Name	Type	Length	Key Field	Value
880-K4	Text Indicator	A/N	1		Start of text (STX) = X'02'
701	Segment Identifier	A/N	2		00
880-K6	Transmission Type	A/N	1		T = Transaction R = Response E = Error
880-K1	Sender ID	A/N	24	Yes	Defined by processor or switch
806-5C	Batch Number	N	7		Number that the sender assigns. Matches Batch Number in Trailer. To be returned in Response or Error file from processor/switch
880-K2	Creation Date	N	8		Format = CCYYMMDD
880-K3	Creation Time	N	4		Format = HHMM
702	File Type	A/N	1		P = Production T = Test
102-A2	Version/Release Number	A/N	2		Version/release number of Header data
880-K7	Receiver ID	A/N	24	Yes	Identifier defined by processor or switch
880-K4	Text Indicator	A/N	1		End of text (ETX)-X'03'

Batch Detail Data Record

Format: variable-length (contains both fixed- and variable-length fields)

Segment ID: 2-character segment ID (G1)

Field	Field Name	Type	Length	Key Field	Value
880-K4	Text Indicator	A/N	1		Start of text (STX) = X'02'
701	Segment Identifier	A/N	2		G1
880-K5	Transmission Reference Number	A/N	1		Reference number that the provider assigns to the batch transmission
	NCPDP Data Record		Varies		
880-K4	Text Indicator	A/N	1	Yes	End of text (ETX)-X'03'

Batch Trailer Record

Format: fixed-length

Length: 56 characters

Segment ID: 2-character (99)

Field	Field Name	Type	Length	Key Field	Value
880-K4	Text Indicator	A/N	1		Start of text (STX) = X'02'
701	Segment Identifier	A/N	2		99
806-5C	Batch Number	N	7		Number that the sender assigns to the batch. Matches Batch Number in Header.
751	Record Count	N	10		Total number of enrollment segments in the entire file
504-F4	Message	A/N	35		Free-form message
880-K4	Text Indicator	A/N	1	Yes	End of text (ETX)-X'03'

Request Transaction Header Segment

Format: fixed-length

Length: 56 characters

Field	Field Name	Type	Length	Key Field	Value
101-A1	BIN Number	9(6)	6		Card issuer ID or bank ID number used for network routing.
102-A2	Version/ Release#	X(2)	2	Yes	01,03,31...51 (51 is version 5.1)
103-A3	Transaction Code	X(2)	2	Yes	E1, B1, B2, B3, C1, C2, C3, N1, N2, N3, P1, P2, P3, P4
104-A4	Processor Control #	X(10)	10		Control number assigned by the processor
109-A9	Transaction Count	X(1)	1		Blank or 1, 2, 3, 4
202-B2	Service Provider ID Qualifier	X(2)	2	Yes	01, 02, ..., 13, 14, 99 (07 is NCPDP Provider ID)
201-B1	Service Provider ID	X(15)	15	Yes	Pharmacy number or provider identifier
401-D1	Date of Service	9(8)	8		Format = CCYYMMDD
110-AK	Software Vendor/ Certification ID	X(10)	10		Identifier that the switch or processor assigns to identify the software source

Response Transaction Header Segment

Format: fixed-length

Length: 31 characters

Field	Field Name	Type	Length	Key Field	Value
102-A2	Version/ Release#	X(2)	2	Yes	01,03,31...51 (51 is version 5.1)
103-A3	Transaction Code	X(2)	2	Yes	E1, B1, B2, B3, C1, C2, C3, N1, N2, N3, P1, P2, P3, P4
109-A9	Transaction Count	X(1)	1		Blank or 1, 2, 3, 4
501-F1	Header Response Status	X(1)	1		A = Accept R = Reject
202-B2	Service Provider ID Qualifier	X(2)	2	Yes	01, 02, ..., 13, 14, 99 (07 is NCPDP Provider ID)
201-B1	Service Provider ID	X(15)	15	Yes	Pharmacy number or provider identifier
401-D1	Date of Service	9(8)	8		Format = CCYYMMDD

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