

IBM Sterling Gentran Server for iSeries



Release Notes and Impact Guide

Version 3.6.06

IBM Sterling Gentran Server for iSeries



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Version 3.6.06

This edition applies to the 3.6.0.6 version of IBM Sterling Gentran:Server for iSeries and to all subsequent releases and modifications until otherwise indicated in new editions.

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IBM Sterling Gentran:Server for iSeries Release Notes and Impact Guide for 3.6.0.6

Important Information about Sterling Gentran:Server 3.6.0.6

This document describes the changes to IBM® Sterling Gentran:Server® for iSeries® for fixpack release 3.6.0.6, which contains the Repeating Data Elements feature. The Sterling Gentran:Server documentation set is not yet updated for this release; this document is the only information available for this release and it supplements the information in the *IBM Sterling Gentran:Server for iSeries User Guide* and *IBM Sterling Gentran:Server for iSeries Technical Reference Guide*.

Software Downloads

To download Sterling Gentran:Server version 3.6.0.6 from Fix Central:

<http://www-933.ibm.com/support/fixcentral/>

Important Links

The IBM product information website for Sterling Gentran:Server is:

<http://www.ibm.com/software/commerce/b2b/products/gentran/>

The Sterling Gentran:Server documentation is available at:

<http://www-01.ibm.com/support/docview.wss?uid=swg27023848>

Support for Sterling Gentran:Server

Sterling Gentran:Server software is supported by trained product support personnel who are available to help with product questions or concerns.

You can access the Sterling Gentran:Server Customer Support page (Support Portal) at:

http://www.ibm.com/support/entry/portal/Overview/Software/Other_Software/Sterling_Gentran:Server_for_iSeries

You can also call Customer Support at 1-800-IBM-SERV (1-800-426-7378).

To help us provide prompt service, we ask that you do the following:

- Attempt to recreate any problem that you encounter and record the exact sequence of events.
- When you call product support, you should be prepared to provide us with the information listed in the following table.

Table 1. Information to provide product support

Information	Description
Identification	Your company name, your name, telephone number and extension, your company's IBM customer number (ICN), and the problem management record (PMR) number (if the question refers to a previously reported issue)
System Configuration	<p>Sterling Gentran:Server version (and any patches or options installed) and information about any machines experiencing problems, including</p> <ul style="list-style-type: none"> • Operating system version • Point release <p>Also, please describe any recent changes in your hardware, software, or the configuration of your system.</p>
Error Messages	If possible, get a screen capture of any error messages and the point at which the error occurred, as well as any log files. (If you cannot get a screen capture, record the exact wording of the error.)
Attempted Solutions	Record any steps that you took attempting to resolve the problem and note all outcomes. Provide an estimate on how many times the problem occurred and whether it can be reproduced.

Download Information

Required Hardware and Software

This information assumes that you are downloading the product .zip file to a PC or workstation and then uploading it to your Sterling Gentran:Server system. The following items are required:

- Approximately 500 MB (total) free space on your PC hard drive for both the zipped (140 MB) and unzipped (350 MB) images.
- WinZip software
- Adobe Acrobat Reader (for documentation PDFs)

If you do not have Acrobat Reader, you can download a free version from the Adobe website.

Contents of the Documentation File

Use the WinZip software to expand the GSi36Doc.zip file into a Release 3.6 documentation folder. You should have the following documents:

- *Sterling Gentran:Server What's New*
- *Sterling Gentran:Server Installation Guide Release 3.6*
- *Sterling Gentran:Server Cumulative Fix Installation Guide Release 3.6*
- *Sterling Gentran:Server Communications Guide Release 3.6*
- *Sterling Gentran:Server Manager's Implementation Planner Release 3.6*
- *Sterling Gentran:Server Technical Reference Guide Release 3.6*
- *Sterling Gentran:Server User Guide Release 3.6*
- *Gentran:Viewpoint for iSeries for Gentran:Server Release 3.6*
- *EDI Complete, ANSI X12 Tutorial Guide for Sterling Gentran:Server Release 3.6*
- *EDI Complete, EDIFACT Tutorial Guide for Sterling Gentran:Server Release 3.6*

Contents of the Product File

Use the WinZip software to expand the GSi36.zip file. You should have the following Save files:

- G3X6DTA
- G3X6FIXDTA
- G3X6PGM
- G3X6FIXPGM
- G3X6SAMP
- G3X6SAMPFX
- G3X6TOOL
- QGPLG3X6

Moving Save Files

After downloading the files, you need to move them to Sterling Gentran:Server.

About this task

Complete the following steps to move the Save files from the download drive to Sterling Gentran:Server.

Procedure

1. For each item that you plan to install, create a Save file on your Sterling Gentran:Server. Use the following commands, where G3X6TEMP is the library where your Save files will reside (this is the library of your choice):

```
CRTSAVF FILE(G3X6TEMP/G3X6DTA)
CRTSAVF FILE(G3X6TEMP/G3X6PGM)
CRTSAVF FILE(G3X6TEMP/G3X6FIXDTA)
CRTSAVF FILE(G3X6TEMP/G3X6FIXPGM)
CRTSAVF FILE(G3X6TEMP/G3X6SAMP)
CRTSAVF FILE(G3X6TEMP/G3X6SAMPFX)
CRTSAVF FILE(G3X6TEMP/G3X6TOOL)
CRTSAVF FILE(G3X6TEMP/QGPLG3X6)
```

Note: G3X6SAMP and G3X6SAMPFX only need to be created if you are restoring the tutorial libraries. G3X6TOOL only needs to be created if you are restoring the tools library.

2. If you saved your files to a mapped network drive, complete the following steps:
 - a. Enter the following commands from an Sterling Gentran:Server command line (where G3X6TEMP is the library where your save files will reside):

```
CPYFRMSTMF FROMSTMF ('location of file/QGPLG3X6') TOMBR('QSYS.LIB/
G3X6TEMP.LIB/QGPLG3X6.FILE') MBROPT(*REPLACE)\
CPYFRMSTMF FROMSTMF ('location of file/G3X6DTA') TOMBR('QSYS.LIB/
G3X6TEMP.LIB/G3X6DTA.FILE') MBROPT(*REPLACE)\
CPYFRMSTMF FROMSTMF ('location of file/G3X6PGM') TOMBR('QSYS.LIB/
G3X6TEMP.LIB/G3X6PGM.FILE') MBROPT(*REPLACE)\
CPYFRMSTMF FROMSTMF ('location of file/G3X6FIXDTA') TOMBR('QSYS.LIB/
G3X6TEMP.LIB/G3X6FIXDTA.FILE') MBROPT(*REPLACE)\
CPYFRMSTMF FROMSTMF ('location of file/G3X6FIXPGM') TOMBR('QSYS.LIB/
G3X6TEMP.LIB/G3X6FIXPGM.FILE') MBROPT(*REPLACE)\
```

- b. If you are downloading the Sample (tutorial) library, enter the following commands:


```
CPYFRMSTMF FROMSTMF ('location of file/G3X6SAMP') TOMBR('QSYS.LIB/G3X6TEMP.LIB/G3X6SAMP.FILE') MBROPT(*REPLACE)\
CPYFRMSTMF FROMSTMF ('location of file/G3X6SAMPFX') TOMBR('QSYS.LIB/G3X6TEMP.LIB/G3X6SAMPFX.FILE') MBROPT(*REPLACE)\
```
- c. If you are downloading the Tools library, enter the following command:


```
CPYFRMSTMF FROMSTMF ('location of file/G3X6TOOL') TOMBR('QSYS.LIB/G3X6TEMP.LIB/G3X6TOOL.FILE') MBROPT(*REPLACE)\
```
3. If you saved your files to a PC hard drive, complete the following steps:
 - a. From a DOS prompt, enter ftp.
 - b. Type open and press **Enter**.
 - c. After the (to) parameter, enter the IP address for your Sterling Gentran:Server server.
 - d. Enter your Sterling Gentran:Server user profile and password as prompted.
 - e. After you are logged on, enter binary.

Note: If you do not enter this command, the file transfer will not be executed correctly.

- f. Enter the following commands to send the files to your Sterling Gentran:Server server (where G3X6TEMP is the library where your save files will reside):


```
put c:\location\of\the\savf\QGPLG3X6 G3X6TEMP/QGPLG3X6 (replace
put c:\location\of\the\savf\G3X6DTA G3X6TEMP/G3X6DTA (replace
put c:\location\of\the\savf\G3X6PGM G3X6TEMP/G3X6PGM (replace
put c:\location\of\the\savf\G3X6FIXDTA G3X6TEMP/G3X6FIXDTA (replace
put c:\location\of\the\savf\G3X6FIXPGM G3X6TEMP/G3X6FIXPGM (replace
```
- g. If you are downloading the Sample (tutorial) library, enter the following commands:


```
put c:\location\of\the\savf\G3X6SAMP G3X6TEMP/G3X6SAMP (replace
put c:\location\of\the\savf\G3X6SAMPFX G3X6TEMP/G3X6SAMPFX (replace
```
- h. If you are downloading the Tools library, enter the following command:


```
put c:\location\of\the\savf\G3X6TOOL G3X6TEMP/G3X6TOOL (replace
```
- i. Once completed, enter quit to exit your ftp session.

What to do next

Now follow the installation instructions included in the documentation download.

About Repeating Data Elements

Repeating Elements is a standards feature that became available with the ASCII X12 004030 and EDIFACT D 99B releases. This feature allows simple and composite elements to appear multiple times in a segment without each occurrence being explicitly defined in the segment layout.

The standards that were issued in December 2012 contain all of the necessary repeat structures. You can continue to use your current standards; however, if you wish to use repeating elements, you must download the newer versions. This reloads the versions with the appropriate repeat functions, allowing Sterling Gentran:Server to recognize the elements that contain repeats.

For examples of segments that contain Repeating Elements, review the following in the standards:

- DMG segment in ASCII X12 version 006040, transaction 810
- COM segment in the EDIFACT version D 10B, transaction INVOIC

Note: To use the Repeating Data Elements feature, you must be on Sterling Gentran:Server point release 3.6.0.6 or higher.

New Terms

Repeating Data Element

A simple data element or a composite data structure that repeats a specified number of times within a segment specification.

Repeat Value

The number of times a repeating data element can repeat. The maximum value that an element can repeat is 99 times. This repeat value is determined by the standard.

Repetition Separator

The delimiter that separates each simple data element or composite data structure found within a repeating data element.

Examples

Repeating Simple Data Element

A segment with a repeating simple data element could be represented as follows:

```
TAG*DE-1*DE-2*RDE-1|RDE-2|RDE-3|RDE-4*DE-4?
```

where * is the element separator, | is the repetition separator, ? is the segment terminator, and the repeat value is 4.

Null Repeat

The standards allow for certain occurrences of a repeat to be optional, causing a null repeat:

```
TAG*DE-1*DE-2*RDE-1||RDE-3|RDE-4*DE-4?
```

where || indicates a null repeat (RDE-2).

Dropped Trailing Repeats

The standards allow for trailing repeats to be dropped if they are not meaningful:

```
TAG*DE-1*DE-2*RDE-1|RDE-2*DE-4?
```

where RDE-3 and RDE-4 are dropped but the repeat value is still 4.

Repeating Composite Data Structure

A segment with a repeating composite data structure could be represented as follows:

```
TAG*DE-1*DE-2*CE1:CE2:CE3|CE1:CE2:CE3|CE1:CE2:CD3|CE1:CE2:CE3*DE-4?
```

where * is the element separator, | is the repetition separator, : is the sub-element or component separator, ? is the segment terminator, the repeat value is 4, and CE1:CE2:CE3 is the composite repeating data element.

How Repeating Data Elements are Processed

The Inbound and Outbound Editors validate the repetition separator to ensure that it contains a valid value.

The Repeating Indicator field on the Standards Transaction (EDIX120) screen must be set to Y for the transaction to be validated. If the transaction has a segment that has repeating data elements defined but a valid repetition separator is not found, an error will be generated and the transaction will be suspended.

ASCII X12 Processing

Before version 004020, the ISA11 was defined as the Interchange Control Standards Identifier (element type = ID, minimum length = 1, maximum length = 1). Beginning with version 004020, the definition of the ISA11 was changed to the Repetition Separator (element type = AN, minimum length = 1, maximum length = 1).

The Editors will look at how the ISA11 is defined in the standards (element type = AN or ID) when validating it. If the ISA11 is defined as an Element Type ID, the editor will continue to validate the value in the ISA11 against the standards code list. If the ISA11 is defined as an element type AN, the editors will validate to ensure that the ISA11 does not equal the element separator, sub-element separator, or segment terminator.

An error message will be generated if the ISA11 contains a value equal to one of the other delimiters.

EDIFACT Processing

As of UN/EDIFACT version D 99A, the UNA05 will contain the repetition separator. If the UNA segment is not used, an asterisk (*) will be used as the repetition separator for the UNOA and UNOB character sets. When the UNA segment is used, the editors will validate to ensure that the UNA05 does not equal the element separator, sub-element separator, segment terminator, or release character.

An error message will be generated if the UNA05 contains a value equal to one of the other delimiters.

Error Messages

The 3.6.0.6 release added three error messages.

The following error messages may be generated when you are using the Repeating Data Elements feature.

0113 Message: Transaction contains segment with repeating elements and repetition separator is invalid. Transaction suspended.

Explanation: Because the Repeat Indicator in the standards file for this transaction is Yes, the repetition separator (ISA11) must be non-alphabetic, nonnumeric, not located within the data, and not equal to any other separators or terminators.

Corrective Action: Contact the data originator to correct the data and retransmit.

0114 Message: Invalid Repetition Separator

Explanation: As of ASC X12, version 004030, a repetition separator is required in ISA11. Sterling Gentrans:Server checks ISA12 (interchange version) for a value greater than 00403. This message is generated if the repetition separator is missing or is equal to any other separators or terminators. The repetition separator must be non-alphabetic, non-numeric, and not located within data.

Corrective Action: Contact the data originator to correct the data and retransmit.

849 Message: Delimiter found in mapped EDI element. Spaces moved to invalid character.

Explanation: An EDI element is being mapped with a value that is used as a segment terminator, element separator, sub-element separator, or repetition separator within the interchange. The delimiter is replaced with a space to prevent discarding any data that follows the improper delimiter. Processing continues.

Corrective Action: Evaluate the data in error and correct or modify the assigned data.

Affected Screens

Several screens have been updated for the 3.6.0.6 release and one screen has been added.

The following screens have had fields added for the Repeating Data Elements feature:

- EDIX012 FMT02
- EDIX012 FMT05
- EDIX120
- EDIX140
- EDIX191
- EDIX193
- EDIX506
- EDIX508
- EDIX511
- EDIX513
- EDIX514
- EDIX524 panel of the EDIX526 screen
- EDIX525 panel of the EDIX526 screen

The Working with Repeating Elements screen (EDIX517) was added. "Mapping Repeating Elements" on page 15 contains detailed instructions for using this screen.

EDIX012 FMT02

On the Partner Control panel (EDIX012 FMT02), the Repetition Separator parameter was added.

```
EDIX012                               Partner Control                               MAZ 2013/01/09
FMT02                                  MAZUNA                                  13:13:15

Partner ID . . . . . MAZUNA
Partner Qualifier. . . . .
Partner Name . . . . . Marilyn's UNA Partner

Outbound envelope information for UNA segment
Component Element Separator. . . . UNA01 # or Hex 7B
Element Separator. . . . . UNA02 = or Hex 7E
Decimal Notation . . . . . UNA03 . (, or .)
Release Indicator. . . . . UNA04 ?
Repetition Separator . . . . . UNA05 ( or Hex 4D
Segment Terminator . . . . . UNA06 @ or Hex 7C
Outbound envelope syntax ID and version for UNB segment
Syntax ID. . . . . UNB01 UNOA                               Version. . . . . UNB01 4

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

EDIX012 FMT05

On the Partner Control panel (EDIX012 FMT05), the Repeat Sep parameter was added.

```
EDIX012                               Partner Control                               MAZ 2013/01/09
FMT05                                  MAZ PARTNER                               13:10:21

Partner ID . . . . . MAZ PARTNER
Partner Qualifier. . . . .
Partner Name . . . . . MARILYN'S TEST PARTNER name

Outbound envelope information for ISA segment
Authorization Qual . . . . . ISA01 ZZ Authorization. . ISA02 AUTHOCODE
Security Code Qual . . . . . ISA03 ZZ Security Code. . ISA04 SECURITYCD
Sender ID Qual . . . . . ISA05 Sender ID. . . . . ISA06 MAZ PARTNER
Receiver ID Qual . . . . . ISA07 ZZ Receiver ID. . . . . ISA08 MAZ PARTNER
Repeat Sep / Stds ID . . . . . ISA11 % or Hex 6C
Version. . . . . ISA12 00604
Use. . . . . D
Control Number . . . . . ISA13 300005965
Ack Requested. . . . . ISA14 0 (1=Yes,0=No)
Subelement Separator . . . . . ISA16 : or Hex 7A
Element Separator. . . . . * or Hex 5C
Segment Terminator . . . . . ? or Hex 6F

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

EDIX120

On the Standards Transaction panel (EDIX120), the Repeating Element flag was added to identify any documents that contain repeating elements.

```

EDIX120                      Standards Transaction                      MAZ 2013/01/08
CTL01                          16:27:19

Version ID . . . . . 006040

Position to Transaction Code . . . _____

Type option, press Enter.
 4=Delete 6=Print 11=Segments 30=Copy Transaction

Opt Tran Cd Rel Description
--- 810 0 INVOICE
Agency X Seg Cnt 93 Nte Float Ind N Prev Tran N
Next Tran Next Rel 0 Next Tran Next Rel
Func Grp IN Repeating Element Y

811 0 CONSOLIDATED SERVICE INVOICE/STATEMENT
Agency X Seg Cnt 136 Nte Float Ind N Prev Tran N
Next Tran Next Rel 0 Next Tran Next Rel
Func Grp CI Repeating Element Y

More...
F1=Help F4=Prompt F10=Update F12=Cancel F18=Grp/Tran Dir F24=More Keys
  
```

EDIX140

On the Standards Segment Element panel (EDIX1r0), the Repeat Occurrence (Rep) column was added. A 1 is displayed for those elements that have no repeats. A number greater than 1 is displayed when an element repeats. If it is a composite repeating element, only the first composite displays the repeat value.

```

EDIX140                      Standards Segment Element                      MAZ 2013/01/08
CTL01                          16:44:02

Version ID . . . . . 006040
Segment ID . . . . . DMG

Type option (and Information), press Enter.
 4=Delete 11=Condition 12=Seg Activity 13=Elem Def

Opt Seg Sub Man Com Ad Elem ***Group***
Seg Seg Ele Ele Ele In ID Dsg Ty Rg Rep Description Cd
1 C C 1250 1 DATE TIME PERIOD FORMAT QUA *
2 C C 1251 1 DATE TIME PERIOD
3 O O 1068 1 GENDER CODE
4 O O 1067 1 MARITAL STATUS CODE
5 1 C O 1109 C056 G C 10 RACE OR ETHNICITY CODE
6 2 C C 1270 C056 R C CODE LIST QUALIFIER CODE
7 3 C C 1271 C056 C INDUSTRY CODE
8 O O 1066 1 CITIZENSHIP STATUS CODE

More...

F1=Help F4=Prompt F5=Refresh F10=Update F12=Cancel F24=More Keys
  
```

EDIX191

On the Batch Standards Transaction Panel (EDIX191), the Repeating Element flag was added to identify any documents that contain repeating elements.

```

EDIX191          Batch Standards Transactions          MAZ 2013/01/24
CTL01                               9:33:05

Version ID . . . . . 006040

Position to Transaction Code . . .

Type option, press Enter.
  11=Segments

Opt Tran Cd Rel Description
          0 CONTROL TRANSACTION
Agency   X   Seg Cnt      26 Nte Float Ind Prev Tran
Next Tran Next Rel      Next Tran Next Rel
Func Grp Repeating Element N

          100 0 INSURANCE PLAN DESCRIPTION
Agency   X   Seg Cnt      43 Nte Float Ind Prev Tran N
Next Tran Next Rel      Next Tran Next Rel
Func Grp PG   Repeating Element Y

More...

F1=Help F12=Cancel F18=Grp/Tran Dir

```

EDIX193

On the Batch Standards Segment Element panel (EDIX193), the Repeat Occurrence (Rep) column was added. A 1 is displayed for those elements that have no repeats. A number greater than 1 is displayed when an element repeats. If it is a composite repeating element, only the first composite displays the repeat value.

```

EDIX193          Batch Standards Segment Element      MAZ 2013/01/24
CTL01                               9:36:27

Version ID . . . . . 006040
Segment ID . . . . . EB

Type option (and Information), press Enter.
  11=Condition 12=Seg Activity 13=Elem Def

Opt Seg Sub Man Com Ad Elem ***Group*** Description Cd
Seg Ele Ele Ele In ID Dsg Ty Rg Rep
  1 M M 1390 1 ELIGIBILITY OR BENEFIT INFO
  2 O O 1207 1 COVERAGE LEVEL CODE
  3 O O 1271 99 INDUSTRY CODE
  4 O O 1336 1 INSURANCE TYPE CODE
  5 O O 1204 1 PLAN COVERAGE DESCRIPTION
  6 O O 0615 1 TIME PERIOD QUALIFIER
  7 O O 0782 1 MONETARY AMOUNT
  8 O O 0954 1 PERCENTAGE AS DECIMAL

More...

F1=Help F12=Cancel

```

EDIX506

On the Work with Extended Mapping panel (EDIX506), the repeat occurrence (Rep Occ) column was added to display the repeat occurrence for that element. If nothing is displayed, the element does not repeat.

```

EDIX506                      Work with Extended Mapping                      MAZ 2013/01/24
FMT01      pgmlib: G3X6DEVPGM  dtalib: G3X6TSTDTA  ptr: 3.6.0.3          9:41:01

Position to Segment Seq. . . . .                For MAZ271      R

Type option (and Information), press Enter.
1=Create 2=Revise 3=Copy 4=Delete 5=View
  Seg   File   Rep   A   Seg
  Seg   Seg   Map   Occ Constant/Field  C  ID   Description
1900    10    0      F020.ELE1      D  EB   ELIGIBILITY OR B
1900    20    0      F020.ELE2      D  EB   COVERAGE LEVEL C
1900    30    0    1  F020.ELE3R1  D  EB   INDUSTRY CODE
1900    40    0    2  F020.ELE3R2  D  EB   INDUSTRY CODE
1900    50    0    3  F020.ELE3R3  D  EB   INDUSTRY CODE
1900    60    0    4  F020.ELE3R4  D  EB   INDUSTRY CODE
1900   1020  0      F020.ELE4      D  EB   INSURANCE TYPE C
1900   1030  0      F020.ELE5      D  EB   PLAN COVERAGE DE
1900   1040  0      F020.ELE6      D  EB   TIME PERIOD QUAL
More...

Parameters or command
==>
F1=Help  F3=Exit  F12=Cancel  F15=Sort  F24=More Keys

```

EDIX508 and EDIX513

On the Extended Mapping Outbound panel (EDIX508) and the Extended Inbound Mapping panel (EDIX513), the repeat occurrence was added next to the element number.

```

EDIX508                      Extended Outbound Mapping                      MAZ 2013/01/24
FMT01                      9:44:17
Segment ID . . . . . EB      Transaction ID . . . . . MAZ271
Area Code . . . . . D      Send or Receive. . . . . S
Element No/Repeat No. . . . . 40 2 Element ID . . . . . 1271
Segment Sequence . . . . . 1900 Mapping Number . . . . . 0
                                Mapping of Data Element
Element =
Or Value Op Value Op Value
Element = 'ind code 2'
If
And/Or Round Element. . . . . #Dec
Table ID . . . . . Type of Table. . . . .
Add to Hash Total #. . . . . Length (Minimum) . . . . . 1
Save in Constant # . . . . . Length (Maximum) . . . . . 30
Add 1 to Accumulator # . . . . . Group Reg Cd . . . . .
User Exit Routine. . . . . Related. . . . . N
Mandatory Code . . . . . 0 Type . . . . . AN
Element Group. . . . . Type . . . . .
Segment Description. . . . . ELIGIBILITY OR BENEFIT INFO
Element Description. . . . . INDUSTRY CODE

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

```

EDIX511 and EDIX514

On the Element Mapping Outbound panel (EDIX511) and the Element Inbound Mapping panel (EDIX514), the Repeat Occurrence (R) column was added after the description.

```

EDIX514                      Element Mapping Inbound                      2013/01/09
Tran ID. . . . . MAZ271      S/R. . . . . R
Seg ID . . . . . EB ELIGIBILITY OR BENEFIT INFORMA
Seg Seq. . . . . 1900      Mapping Number . . . 0
Area Code. . . . . D Field      Op Field/Constant
Cond . . . . .
Type option, press Enter.
1=Appl Fields  11=Ext Map  12=Subfield  13=Codes  14=Build Repeats
Mapping
Opt Target Field  Table ID  Ele No.  Sub Ele  X M T  Description  Rep  Ele Seg  Ele ID R
                No.  M C P
                1      M ID ELIGIBILITY OR B      10 1390
                2      O ID COVERAGE LEVEL C      20 1207
                3      O AN INDUSTRY CODE      1 30 1271
                3      O AN INDUSTRY CODE      2 40 1271
                3      O AN INDUSTRY CODE      3 50 1271
                3      O AN INDUSTRY CODE      4 60 1271
                3      O AN INDUSTRY CODE      6 80 1271
                4      O ID INSURANCE TYPE C      1020 1336
                5      O AN PLAN COVERAGE DE      1030 1204
                6      O ID TIME PERIOD QUAL      1040 615
                7      O R MONETARY AMOUNT      1050 782
                More...
F1=Help  F4=Prompt  F10=Update  F12=Cancel  F19=Apply Global  F24=More Keys

```

EDIX517

The Work With Repeating Elements panel (EDIX) was created to map the repeating elements. "Mapping Repeating Elements" on page 15 contains detailed instructions for using this screen.

```

EDIX517                      Work With Repeating Elements                      MAZ 2013/01/09
FMT01      pgmlib: G3X6DEVPGM  dtalib: G3X6TSTDIA  ptr: 3.6.0.3      13:28:56
Tran ID. . . . . MAZ271      S/R. . . . . R
Seg ID . . . . . EB ELIGIBILITY OR BENEFIT INFORMA
Area Code. . . . . D      Seg Seq. . . . . 1900
                        Max Repeats . . . . . 99
Type option (and Information), press Enter.
  1=Create  4=Delete

  Rep  M  T
Opt No  C  P  Description  Ele Seg  Ele ID
  01   M  ID  PRODUCT/SERVICE ID QUALIFIER  1110 0235

Parameters or command
===>
F1=Help  F12=Cancel

Bottom

```

EDIX524 and EDIX525

On the Inbound Split Screen Mapping panel (EDIX524) and Outbound Split Screen Mapping panel (EDIX525), the repeat occurrence (R) column was added after the description in the transaction element mapping portion of the screen.


```

EDIX526      CTL01      To Application Target Fields      2013/01/24  9:48:47
Application: MAZ271      S/R: R      1=Select
Opt  Rec Type  No  Field Name  Typ Len Cde Description
TEST271      5  F020.ELE1  AN   2  M  CCSERV
TEST271      10 F020.ELE2  AN   3  M  NAIVRE
TEST271      15 F020.ELE3R1 AN  30  M  VOYAGE
TEST271      20 F020.ELE3R2 AN  30  M  VOYAGE
TEST271      25 F020.ELE3R3 AN  30  M  VOYAGE
TEST271      30 F020.ELE3R4 AN  30  M  VOYAGE
More...

EDIX524      CTL01      From Transaction Element Mapping
Map: MAZ271      S/R: R 1=Select 11=Ext Map 12=Subfield 13=Codes 14=Fld Repeats
Seq ID: EB  ELIGIBILITY OR BENEFIT INFO      Seq. 1900 Area: D
Opt Target Field  Table ID  Ele Sub X M Ty Description      Rep  Seg  ID C
F020.ELE1        1         1     M ID ELIGIBILITY OR B      10 1390
F020.ELE2        2         2     O ID COVERAGE LEVEL C    20 1207
F020.ELE3R1      3         3     O AN INDUSTRY CODE      1  30 1271
F020.ELE3R2      3         3     O AN INDUSTRY CODE      2  40 1271
F020.ELE3R3      3         3     O AN INDUSTRY CODE      3  50 1271
F020.ELE3R4      3         3     O AN INDUSTRY CODE      4  60 1271
More...

F1=Help  F10=Update  F12=Cancel  F16=Pray Rcd  F17=Next Rcd  F24=More Keys

```

Affected Reports

Several reports have been updated for the 3.6.0.6 release.

The following are the reports that have had fields added for the Repeating Data Elements feature:

- EBDI036 – Online Standards File Report (132 Column)
- EBDI036B – Online Standards File Report (80 Column)
- EBDI052 – Mapping Report in Standard Sequence
- EBDI053 – Mapping Report in Application Sequence
- EBDI082 – Mapping Validation Report (for outbound)
- EBDI083 – Mapping Report in Extended Mapping Notes
- EBDI191 – Batch Standards file print
- EBDI192 – Selected transactions in use print

How to Tell if a Transaction Uses Repeating Elements

When viewing the online Standards Subsystem, the Transaction and the Segment Element screens will indicate if a transaction has any segments with repeating data elements.

Standards Transaction (EDIX120) Screen

If the Repeating Element field contains the value 'Y' on the Standards Transaction (EDIX120) screen, the transaction set specified contains a segment that has a repeating data element.

```

EDIX120                      Standards Transaction                      MAZ 2013/01/08
CTL01                          16:27:19

Version ID . . . . . 006040

Position to Transaction Code . . . _____

Type option, press Enter.
  4=Delete  6=Print  11=Segments  30=Copy Transaction

Opt Tran Cd Rel Description
--- 810 0 INVOICE
Agency X Seg Cnt 93 Nte Float Ind N Prev Tran N
Next Tran Next Rel 0 Next Tran Next Rel
Func Grp IN Repeating Element Y

--- 811 0 CONSOLIDATED SERVICE INVOICE/STATEMENT
Agency X Seg Cnt 136 Nte Float Ind N Prev Tran N
Next Tran Next Rel 0 Next Tran Next Rel
Func Grp CI Repeating Element Y

More...
F1=Help F4=Prompt F10=Update F12=Cancel F18=Grp/Tran Dir F24=More Keys

```

Standards Segment Element (EDIX140) Screen

If the field in the Rep (Repeat value) column on the Standards Segment Element (EDIX140) screen is greater than 1, the element is a repeating data element. In the following example, the DMG05 is a composite data structure with a repeat value of 10.

```

EDIX140                      Standards Segment Element                      MAZ 2013/01/08
CTL01                          16:44:02

Version ID . . . . . 006040
Segment ID . . . . . DMG

Type option (and Information), press Enter.
  4=Delete  11=Condition  12=Seg Activity  13=Elem Def

Opt Seg Sub Man Com Ad Elem ***Group***
  Seg Ele Ele Ele In ID Dsg Ty Rg Rep Description Cd
  1 C C 1250 1 DATE TIME PERIOD FORMAT QUA *
  2 C 1251 1 DATE TIME PERIOD
  3 O 1068 1 GENDER CODE
  4 O 1067 1 MARITAL STATUS CODE
  5 1 C O 1109 C056 G C 10 RACE OR ETHNICITY CODE
  6 2 C C 1270 C056 R C CODE LIST QUALIFIER CODE
  7 3 C C 1271 C056 C INDUSTRY CODE
  8 O 1066 1 CITIZENSHIP STATUS CODE

More...

F1=Help F4=Prompt F5=Refresh F10=Update F12=Cancel F24=More Keys

```

How to Set the Partner Profile with Repeating Data Elements

Use the Partner Control (EDIX012) screen to specify that repeating data elements can be used with the trading partner.

ASCII X12 (EDIX012 – FMT05)

When using the ISA segment as the interchange header option, the ISA11 (Repeat Sep/Std ID) must be populated with a valid repetition separator on the Partner Control (EDIX012 – FMT05) panel. When an ISA segment is generated, the repetition separator will be pulled from the partner profile.

```

EDIX012                               Partner Control                               MAZ 2013/01/09
FMT05                                                                           13:10:21

Partner ID . . . . . MAZ PARTNER
Partner Qualifier. . . . .
Partner Name . . . . . MARILYN'S TEST PARTNER name

Outbound envelope information for ISA segment
Authorization Qual . . . . . ISA01 ZZ Authorization. . ISA02 AUTHOCODE
Security Code Qual . . . . . ISA03 ZZ Security Code. . ISA04 SECURITYCD
Sender ID Qual . . . . . ISA05 Sender ID. . . . . ISA06 MAZ PARTNER
Receiver ID Qual . . . . . ISA07 ZZ Receiver ID. . . . . ISA08 MAZ PARTNER
Repeat Sep / Stds ID . . . . . ISA11 # or Hex 6C
Version. . . . . ISA12 00604
Use. . . . . D
Control Number . . . . . ISA13 300005965
Ack Requested. . . . . ISA14 0 (1=Yes,0=No)
Subelement Separator . . . . . ISA16 : or Hex 7A
Element Separator. . . . . * or Hex 5C
Segment Terminator . . . . . ? or Hex 6F

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

```

EDIFACT (EDIX012 – FMT02)

When using the UNA segment as the interchange header option, the UNA05 (Repetition Separator) must contain a valid repetition separator on the Partner Control (EDIX012 – FMT02) panel. When a UNA segment is generated, the repetition separator will be pulled from the partner profile.

```

EDIX012                               Partner Control                               MAZ 2013/01/09
FMT02                                                                           13:13:15

Partner ID . . . . . MAZUNA
Partner Qualifier. . . . .
Partner Name . . . . . Marilyn's UNA Partner

Outbound envelope information for UNA segment
Component Element Separator. . . . . UNA01 # or Hex 7B
Element Separator. . . . . UNA02 = or Hex 7E
Decimal Notation . . . . . UNA03 . (, or .)
Release Indicator. . . . . UNA04 ?
Repetition Separator . . . . . UNA05 ( or Hex 4D
Segment Terminator . . . . . UNA06 @ or Hex 7C
Outbound envelope syntax ID and version for UNB segment
Syntax ID. . . . . UNB01 UNOA Version. . . . . UNB01 4

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

```

Mapping Repeating Elements

After you have copied the desired segments into a map, use the Element Mapping Inbound (EDIX514) or Element Mapping Outbound (EDIX511) screen to map the data. A 1 is displayed in the R column for any elements that are repeating.

Before you begin

Before mapping to a repeating data element, only the first repeat of the repeating simple data element or composite data structure will appear on the Element

Mapping screens. If the repeating data element is a composite data structure, the 1 will carry down for each of the sub-elements of the composite group.

Note: For non-repeating elements, the element sequence numbers (Ele Seq column) are in increments of 10. For repeating elements, there is a gap in the sequence numbers, which allows a unique sequence number for all available repeats of the element or composite elements, as shown below.

```

EDIX514                      Element Mapping Inbound                      2013/01/09
Tran ID. . . . . MAZ271      S/R. . . . . R
Seg ID . . . . . EB  ELIGIBILITY OR BENEFIT INFORMA
Seg Seq. . . . . 1900      Mapping Number . . . 0
Area Code. . . . . D  Field      Op Field/Constant
Cond . . . . .
Type option, press Enter.
1=Appl Fields  11=Ext Map  12=Subfield  13=Codes  14=Build Repeats
Mapping
Opt Target Field  Table ID  Ele No.  Sub Ele  X M T  Description  Rep  Ele Seq  Ele ID  C
1  M ID ELIGIBILITY OR B  10 1390
2  O ID COVERAGE LEVEL C  20 1207
3  O AN INDUSTRY CODE  1 30 1271
4  O ID INSURANCE TYPE C  1020 1336
5  O AN PLAN COVERAGE DE  1030 1204
6  O ID TIME PERIOD QUAL  1040 615
7  O R MONETARY AMOUNT  1050 782
8  O R PERCENTAGE AS DE  1060 954
9  C ID QUANTITY QUALIFI  1070 673 Y
10 C R QUANTITY  1080 380
11 O ID YES/NO CONDITION  1090 1073
More...
F1=Help  F4=Prompt  F10=Update  F12=Cancel  F19=Apply Global  F24=More Keys

```

About this task

To map additional occurrences of a repeating data element, complete the following steps:

Procedure

1. On the EDIX511 (outbound mapping) or EDIX514 (inbound mapping) screen, type 14 (Build Repeats) in the Opt field next to the first occurrence of the repeating element.
In the Work With Repeating Elements (EDIX517) screen, you will see only the first repeat of the element or composite group.
2. The Work With Repeating Elements screen allows you to specify which occurrences of the repeating data element you want pulled into your map. On the control line, enter 1, the repeat number that you want to add, and press **Enter**. This adds that occurrence of the repeat to the subfile list.
3. Continue adding until you have included all occurrences of the repeating elements that you are going to use in your map.

Note: To remove a repeat occurrence, type 4 in the Opt field next to the occurrence you want to remove and press **Enter**. You can only enter up to the maximum number of repeats as defined by the standards.

4. Once complete, press **F12** to return to the previous Element Mapping panel.

Note: The repeat occurrences selected do not have to be in sequential order. Repeat occurrences may be skipped. It is valid to select repeat numbers 2, 5, and 9.

After you have pulled into the map the occurrences of a repeating data element, you can map each element/sub-element the same as any non-repeating data element using the Element Mapping panels, as shown below.

```

EDIX514                      Element Mapping Inbound                      2013/01/09
Tran ID . . . . . MAZ271          S/R . . . . . R
Seg ID . . . . . EB ELIGIBILITY OR BENEFIT INFORMA
Seg Seq. . . . . 1900          Mapping Number . . . 0
Area Code. . . . . D Field          Op Field/Constant
Cond . . . . .
Type option, press Enter.
1=Appl Fields  11=Ext Map  12=Subfield  13=Codes  14=Build Repeats
Mapping
Opt Target Field  Table ID  Ele No.  Sub Ele  X M T  Description  Rep  Ele Seg  Ele ID C
                               No.      M C P
1          M ID ELIGIBILITY OR B          10 1390
2          O ID COVERAGE LEVEL C          20 1207
3          O AN INDUSTRY CODE          1 30 1271
3          O AN INDUSTRY CODE          2 40 1271
3          O AN INDUSTRY CODE          3 50 1271
3          O AN INDUSTRY CODE          4 60 1271
3          O AN INDUSTRY CODE          6 80 1271
4          O ID INSURANCE TYPE C          1020 1336
5          O AN PLAN COVERAGE DE          1030 1204
6          O ID TIME PERIOD QUAL          1040 615
7          O R MONETARY AMOUNT          1050 782
More...
F1=Help  F4=Prompt  F10=Update  F12=Cancel  F19=Apply Global  F24=More Keys

```

Previous Enhancements

Additional changes have been made in previous Sterling Gentran:Server updates.

Lower Case Entries Allowed

In point release 3.6.0.5, lower case entries can now be added on the Partner Cross Reference panel and for the Sender/Receiver ID and Qualifier on the outbound envelope panels.

The following programs and files were modified for this fix:

- EDIX008 – File - Partner Cross Reference
- EDIX008 – Program - Partner Cross Reference
- EDIX012 – File - Partner Control Information
- EDIX012 – Program - Partner Control

New Standards

In fixpack release 3.6.0.4, new standards were published for the following versions:

- D 10B
- D 11A
- D 11B
- 005010X214
- 00603
- 006030
- 006031
- 006032
- 00604
- 006040

- 006040RAIL
- 006041
- 006042

The following standards that were added:

- 004000IR
- 004000S
- 004001UN
- 005000IR

Note: It is crucial to apply this cumulative fix and run the Standard Table Extract (EXTSTD) command if you plan on using any of the new standards listed above. The inbound and outbound editors required internal table size increases to accommodate the increase in segments and elements.

Java™ Translator Option

In fixpack release 3.6.0.2, a Java translator option was added. For more information about this option, see the white paper in the download section for the 3.6 fixes.

The following CL programs were modified for this fix:

- **EDCL605** – Main CL to update Message Center
- **EDCL605C** – Main CL to update Message Center for comm
- **STCL060** – ADD user file to OUTBOUND que/call EBDI060
- **STCL063** – EXTRACT from INBque; call EBDI063F/63L
- **STCL067** – ADD user file to INBOUND que/call EBDI067
- **STCL068** – EXTRACT From OUTque; call EBDI068F/68L

PRTCOM Update

In 3.6.0.2, the Print Comm Session Control (PRTCOM) program was rewritten to match the online screen.

Copy Function

In 3.6.0.2, a function was added to copy one or more batches of data from one communications queue to another. Option 34 was also added to the Work with Inbound Queue Control (EDIX407) and the Work with Outbound Queue Control (EDIX404) panels.

SAP File Tracking

In 3.6.0.1, file tracking was added to the SAP subsystem.

Number of Elements per Segment

In 3.6.0.1, the number of elements per segment was increased from 99 to 9999. If you were on the original point release and you apply a cumulative fix, it is crucial to run a new EXTSTD. Not running EXTSTD will cause problems during your translations.

The following files were modified for this enhancement:

- **GT55WRK** – EBDI055 work file for Map Summary Report

- **MSGDTL** – Detail file for Message Center
- **TRNELE** – Translation Segment Element Def
- **TRNOTE** – Translation Extended Map Notes
- **TRKPER** – Tracking Program Error File

The following CL programs were modified for this fix:

- **PRGMSGCTR2** – Purge Message Center File
- **PRTMAPNOTE** – Print Extended Mapping Notes
- **PRTNOMAP** – Prt elements with ext map but nothing mapped
- **PRTNOTECL** – Print Extended Mapping Notes
- **RTVMSG1** – Retrieve Message Center Files
- **RTVMSGCL2** – Retrieve Message Center
- **RTVVPT1** – Retrieve Document History Files

Documentation Affected

This information supplements the *IBM Sterling Gentran:Server for iSeries User Guide* and *IBM Sterling Gentran:Server for iSeries Technical Reference Guide*.

Technical Reference Guide

The following sections in the Technical Reference Guide are affected:

- Chapter 15, Programs and Command Names in the Transaction Mapping Subsystem section – EDIX517 Work with Repeating Elements should be added to the table.
- Chapter 16, System Messages – New error messages (See “Error Messages” on page 6.)
- Glossary – New terms (See “About Repeating Data Elements” on page 4.)

The following terms should be added to the Glossary in the Application Data Type section.

Table 2. New Application Time Formats

Time Format	Format	Packed?	Length
TB	hh mm ss - TIMSEP ' '	No	8
TE	hh.mm.ss - ISO/EUR TIMSEP ' '	No	8
TI	hh:mm:ss - HMS/JIS TIMSEP ':'	No	8
TU	hh:mm AM/PM - USA TIMSEP ':'	No	8

Table 3. New Alphanumeric Application Data Types

Term	Definition
V (variable)	Data type representing variable length fields.
VG (variable graphic)	Data type representing variable length graphic fields. You are not currently able to map to/from these types of fields.

User Guide

The following sections in the User Guide are affected:

- Chapter 3, Partner, "Use the Partner Panels" section – Sample screens for EDIX012 FMT02 and EDIX012 FMT05 should show the new repetition separator information
- Chapter 6, Transaction Mapping, "Use the Transaction Mapping Panels" section – Sample screens for EDIX506, EDIX508, EDIX511, EDIX513, EDIX514, EDIX524, and EDIX525 should show the repeat flag indicator.
- Chapter 6, Transaction Mapping, "Use the Transaction Mapping Panels" section – The procedure for mapping repeating elements should be added.
- Chapter 6, Transaction Mapping, "Reports" section – Sample screens for EBDI082 and EBDI083 should show the repeating element information.
- Chapter 7, Standards, "Use the Standards Panels" section – Sample screens for EDIX120, EDIX140, EDIX191, and EDIX193 should show the repeat flag indicator.
- Chapter 7, Standards, "Reports" section – Sample screens for EBDI036, EBDI191, and EBDI192 should show the repeat flag.

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