

Gentran:Server[®] for iSeries
Communications Module

Installation Guide

Release 3.4

Sterling Commerce
An IBM Company

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Communications Module Installation

Introduction

Purpose This guide is designed to provide you with all the information needed to perform the installation of Gentran:Server for iSeries Communications Module Release 3.4 (the Communications Module).

What sections to read You will not need to use all sections in this guide. Use the table below to find the sections you need for your own installation and the order in which you should read them.

IF you are...	THEN use these sections...
New to Gentran products for iSeries,	<ol style="list-style-type: none">1. Before You Begin on page 2.2. Performing a New Installation on page 4).
Currently using one of the following: <ul style="list-style-type: none">• Gentran:Server for iSeries 3.1, 3.2, or 3.3,• Connect:Mailbox 3.1,	<ol style="list-style-type: none">1. Before You Begin on page 2.2. Converting to Release 3.4 on page 11)
Currently using Gentran:Server for iSeries Communications Module Release 3.4,	<ol style="list-style-type: none">1. Before You Begin on page 2.2. Performing a Cumulative Fix Install on page 22).

Before You Begin

Purpose All users should read this section carefully before beginning the installation and performing any necessary tasks. It contains important information about your operating system, other documents you need to read prior to installation, and system security.

OS/400 versions supported The Communications Module Release 3.4 provides support for the OS/400 versions that IBM supports. If you are using a version of OS/400 that IBM does not support, you must upgrade the operating system before installing Release 3.4.

Media formats available and volume IDs The Gentran:Server for iSeries Communications Module Release 3.4 installation CD-ROM has a Volume ID of C34CD.
In addition, save files are available for download. The ESD portal is used to install the product, and save files are available on Support On Demand for the cumulative fix process.

DASD requirements At a minimum, your system must have 58 MB available to install the Communications Module.

Naming conventions In this document, Gentran:Server for iSeries Communications Module Release 3.4 may be referred to as the Communications Module or Gentran:Server.

Other documents to review All users should read the *Communications Module Release Notes and Impact Information* before beginning their installation.

Customers who are upgrading from an earlier Gentran release should pay special attention to the “Impact Information” chapter. This chapter contains important information about changes and enhancements included in Gentran:Server for iSeries Communications Module Release 3.4.

Security All programs in Gentran:Server for iSeries Communications Module Release 3.4 have been compiled with the option USER PROFILE (*OWNER), with the OWNER of all objects defined as QPGMR. All data files have *PUBLIC authority *ALL granted. This eliminates any authority conflicts on the system. The best method of protecting the access to Gentran:Server for iSeries Communications Module Release 3.4 is to use the security measures in Environment Control in conjunction with iSeries security. (SEE the “Environment Control” chapter in the *User Guide* for more information about setting security.)

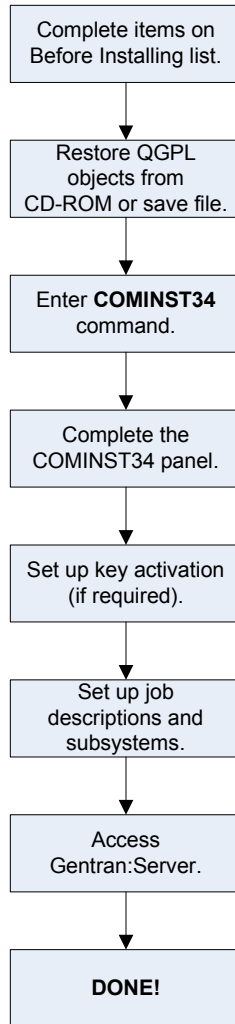
How to get further assistance If you are still not certain how to proceed with your installation or conversion after reviewing the install path below and the sections listed, please call Product Support at 1-800-GENTRAN.

Where to go next Use this table to decide which section you should read next.

IF you are...	THEN go to section...
A customer who is new to Gentran products for iSeries,	Performing a New Installation on page 4.
Currently using one of the following: <ul style="list-style-type: none"> • Gentran:Server for iSeries 3.1, 3.2, or 3.3, • Connect:Mailbox 3.1, 	Converting to Release 3.4 on page 11.
Reinstalling Gentran:Server for iSeries Communications Module Release 3.4,	Re-installation on page 10.
A current user of Gentran:Server for iSeries Communications Module Release 3.4,	Performing a Cumulative Fix Install on page 22.

Performing a New Installation

Purpose This section provides step-by-step procedures for installing Gentran:Server for iSeries Communications Module Release 3.4 and setting up job descriptions to enable you to use the job scheduler feature. The following diagram gives a high-level overview of the process you will use to install and set up the Communications Module.



Running the Installation

Important! Before Installing

- Installation must be done by the iSeries System Security Officer (QSECOFR) or a user with Security Officer privileges.
- Gentran:Server for iSeries Communications Module Release 3.4 uses the system-created library **QTEMP**. Make sure that QTEMP is before the Gentran libraries in your library list when accessing the Communications Module.
- Because the Communications Module installation procedures create numerous informational messages with severities of 0–10 in the job log, it is recommended that you change your job to limit messages logged to specific severities by entering the following command:

```
CHGJOB LOG(4 20 *SECLVL) LOGCLPGM(*YES)
```

Overview

The Gentran:Server for iSeries Communications Module Release 3.4 objects must be restored from CD-ROM or from save files downloaded from the ESD Portal, the installation command issued, and the Gentran Comm Install panel completed.

Install from CD-ROM or save file

Follow the steps in the table below to install the Communications Module from CD-ROM or save files.

Step	Action
1	Load the Gentran:Server CD-ROM or download the save files from the ESD portal.
2	<p>When restoring from CD-ROM, type the following command and press Enter.</p> <pre>RSTOBJ OBJ(*ALL) SAVLIB(QGPL) DEV(your device name) MBROPT(*ALL) ALWOBJDIF(*ALL) OPTFILE('/qtpl')</pre> <p>When restoring from save files, type the following command and press Enter. The SAVF value of <i>G34TEMP</i> represents the library where your save file resides.</p> <pre>RSTOBJ OBJ(*ALL) SAVLIB(QGPL) DEV(*SAVF) SAVF(G34TEMP/QGPLCOM34) MBROPT(*ALL) ALWOBJDIF(*ALL)</pre> <p>The system restores the installation objects (commands and programs) into the QGPL library. This is done interactively and locks your terminal until the job completes. If all objects were not restored, check the lower-level messages for information.</p>

Step	Action
3	<p>Type COMINST34 and press F4 (Prompt).</p> <p>Note: Optionally, you can use the SBMJOB command to submit the COMINST34 command to batch.</p> <p>System Response The Gentran Comm Install 3.4 (COMINST34) panel displays.</p>

Complete the COMINST34 panel

This figure illustrates the Gentran Comm Install 3.4 (COMINST34) panel with the Additional Parameters displayed.

```

Gentran Comm Install 3.4 (COMINST34)

Type choices, press Enter.

Device . . . . . _____ Name, *SAVF
Gentran:Server Libraries:
  Data Library . . . . . G34DTA Name
  Program Library . . . . . G34PGM Name
Bypass Program Lib Install? . . . *NO *YES, *NO
Version to Convert From . . . . . *NONE *NONE, 3.1, 3.2, MBX31
Run Interactively? . . . . . *YES *YES, *NO
Library for Save Files . . . . . _____ Name

Additional Parameters

Auxiliary Storage Pool . . . . . *SAVASP *SAVASP, 1, 2, 3, 4, 5, 6...
Validate Volume ID? . . . . . *YES *YES, *NO

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

The Field Descriptions are listed in the following table. Type the values for the device, library names, and choice for conversion, and press **Enter**.



NOTE

The figure above shows the COMINST34 panel after pressing **F10** (Additional Parameters) to show additional parameters. You do not need to press **F10** to reveal the additional parameters if you want the defaults shown in the above figure.

Field Descriptions

Review the following table for the Gentran Comm Install 3.4 (COMINST34) panel field descriptions.

Field Name	Description
Device	Enter the device name where the Gentran:Server CD-ROM is loaded or enter *SAVE if restoring from save files.
Gentran:Server Data Library	Do you want to use the default library name? <ul style="list-style-type: none"> ■ If YES, leave the default value, G34DTA, in the field. ■ If NO, enter the name of the library where you want Gentran:Server data to be loaded.
Gentran:Server Program Library	Do you want to use the default library name? <ul style="list-style-type: none"> ■ If YES, leave the default value, G34PGM, in the field. ■ If NO, enter the name of the library where you want Gentran:Server programs to be loaded.
Bypass Program Lib Install	When installing Gentran:Server Release 3.4 for the first time, specify *NO to ensure that the program library is installed. If you wish to create multiple data libraries on subsequent installs, type *YES .
Version to convert from	Type *NONE to specify that you will perform a new install.
Run interactively	Specify *YES to run interactively or *NO to submit to batch.
Library for Save Files	If restoring from save files, specify the library name where the save files reside.
Additional Parameters	
Auxiliary Storage Pool	Do you want to restore all libraries to the default, Auxiliary Storage Pool 1? <ul style="list-style-type: none"> ■ If YES, make no change to this field. ■ If NO, enter the storage pool name/number to be used.

Field Name	Description
Validate Volume ID?	<p>Specify whether the VOL parameter will be used when checking the CD-ROM prior to installation. The default, *YES, is recommended to ensure that the correct CD-ROM is being used for the installation.</p> <p>Note: You should only enter *NO when you need to override the volume ID that was determined so you can continue with the installation using the current CD.</p> <p>If you do enter *NO, you should verify with Gentran Product Support that you are using a valid CD-ROM before proceeding.</p> <p>Do you want the CD-ROM Volume ID checked during installation?</p> <ul style="list-style-type: none">■ If YES, make no change to this field.■ If NO, enter *NO.

Setting up Key Activations

**NOTE**

These steps are necessary only if you purchased the FTP, ASYNC, and/or LU62 add-on modules.

Purpose

Setting up key activations enables you to access all communication protocols in the Gentran:Server for iSeries Communications Module Release 3.4.

**CAUTION**

Be sure you have received the keys you purchased for the FTP, ASYNC, and/or LU62 add-ons. If you have not received the keys, contact Product Support at 1-800-GENTRAN.

Procedure

Use this procedure to activate the keys. Verify that the Gentran libraries are in your library list before you proceed.

Step	Action
For FTP functionality:	
1	Type ACTFTP on the command line and press F4 (Prompt).
2	Enter the FTP key provided by Sterling Commerce. Press Enter . Note: If there are any errors validating the key, a message is issued. Verify that you entered the correct key. Contact Product Support at 1-800-GENTRAN if you entered the correct key but received an error.
For ASYNC or LU62 functionality:	
1	Type ACTASCLU62 and press F4 (Prompt).
2	Enter the ASYNC and LU62 combination key. Press Enter . Note: If there are any errors validating the key, a message is issued. Verify that you entered the correct key. Contact Product Support at 1-800-GENTRAN if you entered the correct key but received an error.

Where to Go Next

Go to Setting up Job Descriptions and Subsystems on page 18.

Re-installation

Purpose If your installation completed abnormally or was cancelled, you may have to re-install the Gentran:Server for iSeries Communications Module Release 3.4.

Important! Before Re-installing You *must* delete these Gentran:Server libraries before re-installing. If you accepted the default library names during installation, delete the name shown in parentheses for each library below:

- Gentran:Server Data library (default name G34DTA)
- Gentran:Server Program library (default name G34PGM)

How to Re-install Delete the libraries listed in the Important! Before Installing section. Follow the steps in Performing a New Installation on page 4.

Converting to Release 3.4

Purpose This section is intended for customers who are currently using one of the following:

- Gentran:Server for iSeries Communications Module 3.1, 3.2, or 3.3
- Connect:Mailbox 3.1.0

and want to convert to Gentran:Server for iSeries Communications Module Release 3.4.

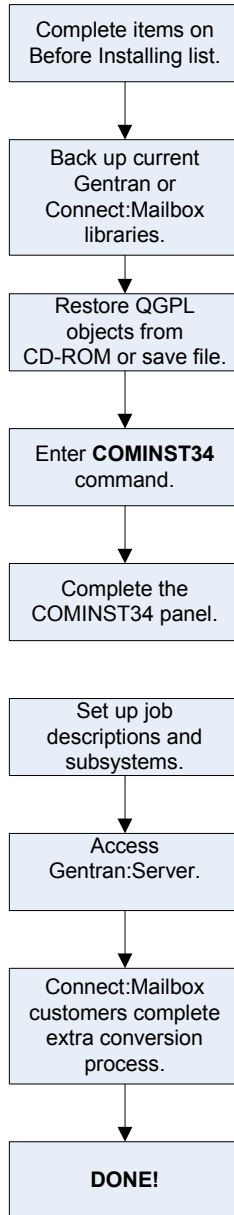


NOTE

If you have already started the installation and conversion to Gentran:Server for iSeries Communications Module Release 3.4 and had to cancel it, please go to Re-installation on page 10 for important instructions.

Process Overview

The following diagram gives a high-level overview of the process you will use to convert to Gentran:Server for iSeries Communications Module Release 3.4.



Important! Before Installing

- Back up your current Communications Module libraries or your Connect:Mailbox.
- Installation must be done by the iSeries System Security Officer (QSECOFR) or by a user with Security Officer privileges.
- Because the Gentran:Server for iSeries Communications Module Release 3.4 installation procedures create numerous informational messages with severities of 0–10 in the job log, it is recommended that you change your job to limit messages logged to specific severities by entering the following command:

```
CHGJOB LOG(4 20 *SECLVL) LOGCLPGM(*YES)
```

Recommendations for Installation

The following recommendation is from the iSeries Technical Support staff. Perform the installation when no users are signed on to the iSeries. Although it is not a requirement for the installation to be run on a dedicated system, it is recommended for decreasing installation time. In addition, running the installation alone eliminates any system performance impact for other users.



CAUTION

When converting data to Gentran:Server for iSeries Communications Module Release 3.4, users and batch jobs should not be running against your current Gentran:Server libraries or the integrity of the data between the files being converted may be lost.

Running the Installation

Purpose The Gentran:Server for iSeries Communications Module Release 3.4 objects must be restored from CD-ROM or from save files onto your system, the installation command must be issued, and the Gentran:Server Installation panel (COMINST34) must be completed as part of the conversion process.

Install from CD-ROM or save file Follow the steps in the table below to install the Communications Module from CD-ROM or save files.

Step	Action
1	Load the Gentran:Server CD-ROM or download the save files from the ESD Portal.
2	<p>When restoring from CD-ROM, type the following command and press Enter.</p> <pre data-bbox="678 909 1406 961">RSTOBJ OBJ(*ALL) SAVLIB(QGPL) DEV(your device name) MBROPT(*ALL) ALWOBJDIF(*ALL) OPTFILE('/qgpl')</pre> <p>When restoring from save files, type the following command and press Enter. The SAVF value of <i>G34TEMP</i> represents the library where your save file resides.</p> <pre data-bbox="678 1087 1414 1140">RSTOBJ OBJ(*ALL) SAVLIB(QGPL) DEV(*SAVF) SAVF(G34TEMP/QGPLCOM34) MBROPT(*ALL) ALWOBJDIF(*ALL)</pre> <p>The system restores the installation objects (commands and programs) into the QGPL library. This is done interactively and locks your terminal until the job completes. If all objects were not restored, check the lower level messages for information.</p>
3	<p>Type COMINST34 and press F4 (Prompt).</p> <p>Note: An option is available in the command to run the job interactively or submit it to batch.</p> <p>System Response The Gentran:Server Installation 3.4 (COMINST34) panel displays.</p>

Complete the COMINST34 panel

This diagram illustrates the Gentran:Server Install (COMINST34) panel.

```

Gentran Comm Install 3.4 (COMINST34)

Type choices, press Enter.

Device . . . . . _____ Name, *SAVF
Gentran:Server Libraries:
  Data Library . . . . . G34DTA Name
  Program Library . . . . . G34PGM Name
Bypass Program Lib Install? . . . *NO *YES, *NO
Version to Convert From . . . . . *NONE *NONE, 3.1, 3.2, MBX31
Run Interactively? . . . . . *YES *YES, *NO
Library for Save Files . . . . . _____ Name

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

Enter the values for the device, library names, and version to convert from, and press **Enter** (or **F10** for both dependent and additional parameters). The following screen displays.

```

Gentran Comm Install 3.4 (COMINST34)

Type choices, press Enter.

Device . . . . . _____ Name, *SAVF
Gentran:Server Libraries:
  Data Library . . . . . G34DTA Name
  Program Library . . . . . G34PGM Name
Bypass Program Lib Install? . . . *NO *YES, *NO
Version to Convert From . . . . . > 3.1 *NONE, 3.1, 3.2, MBX31
Run Interactively? . . . . . *YES *YES, *NO
Library for Save Files . . . . . _____ Name
Libraries to Convert From:
  From Data Library . . . . . _____ Character value
  From Program Library . . . . . _____ Character value

Additional Parameters

Auxiliary Storage Pool . . . . . *SAVASP *SAVASP, 1, 2, 3, 4, 5, 6...
Validate Volume ID? . . . . . *YES *YES, *NO

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

Additional parameters shown when Version to Convert From is 3.1, 3.2, 3.3, or MBX31

Enter the values for Data and Program libraries to convert from and, optionally, any additional parameters. Press **Enter** to run the install command.

Field Descriptions

This table includes a description for each field on the Communications Module Install 3.4 (COMINST34) panel.

Field Name	Description
Device	Enter the device name where the Gentran:Server CD-ROM is loaded or enter *SAVE if restoring from save files.
Gentran:Server Data Library	Do you want to use the default library name? <ul style="list-style-type: none"> ■ If YES, leave the default value, G34DTA, in the field. ■ If NO, enter the library where you want Gentran:Server data to be loaded.
Gentran:Server Program Library	Do you want to use the default library name? <ul style="list-style-type: none"> ■ If YES, leave the default value, G34PGM, in the field. ■ If NO, enter the library where you want Gentran:Server programs to be loaded.
Bypass Program Lib Install	When installing Gentran:Server Release 3.4 for the first time, specify *NO to ensure the program library is installed. If you wish to create multiple data libraries on subsequent installs, type *YES .
Version to Convert From	<ul style="list-style-type: none"> ■ If you are converting from Gentran:Server Communications Module 3.1, enter 3.1. ■ If you are converting from Gentran:Server Communications Module 3.2, enter 3.2. ■ If you are converting from Gentran:Server Communications Module 3.3, enter 3.3. ■ If you are converting from Connect:Mailbox 3.1.0, enter MBX31.
Run Interactively	Specify *YES to run interactively or *NO to submit to batch.
Library for Save Files	Specify the library name where the save files reside, if restoring from save files.
If you enter a value of MBX31 in the Version to Convert From parameter, the following additional fields display when you press Enter or F10.	
Libraries to Convert From: From Data Library	Enter the name of the data library from which you are converting. Data will be read and converted into the new Gentran:Server for iSeries Communications Module Release 3.4 libraries. Note: The installation program will not overwrite any files or data in this library; after conversion is complete, both old and new libraries will exist.

Field Name	Description
Libraries to Convert From: From Program Library	Enter the program library (for the older version).
Additional Parameters	
Auxiliary Storage Pool	<p>Do you want to restore all libraries to the default, Auxiliary Storage Pool 1?</p> <ul style="list-style-type: none"> ■ If YES, make no change to this field. ■ If NO, enter the storage pool name/number to be used.
Validate Volume ID?	<p>Specify whether the VOL parameter will be used when checking the CD-ROM prior to installation. The default, *YES, is recommended to ensure that the correct CD-ROM is being used for the installation.</p> <p>Note: You should only use *NO when you need to override the volume ID that was determined so you can continue with the installation using the current CD-ROM.</p> <p>If you do use *NO, you should verify with Gentran Product Support that you are using a valid CD-ROM before proceeding.</p> <p>Do you want the CD-ROM Volume ID checked during installation?</p> <ul style="list-style-type: none"> ■ If YES, make no change to this field. ■ If NO, enter *NO.

Setting up Job Descriptions and Subsystems

Purpose Once you have installed Gentran:Server for iSeries Communications Module Release 3.4, you should set up job descriptions for the batch processes that you will run with the Communications Module.

Procedure Follow the steps in the table below to set up job descriptions and subsystems.

Step	Action
1	<p>Modify the SCHEDULER and GENTRAN job descriptions (in the Gentran data library G34DTA) to include your application libraries. This enables the batch processes to find your application files.</p> <p>Note: You can create your own job descriptions to be used during processing instead of using the predefined Gentran:Server job descriptions. The new job descriptions must be specified in the Environment Control profile for the users running the jobs. (SEE the “Environment Control” chapter in the <i>User Guide</i> for more information on specifying job descriptions.)</p>
2	<p>Start the GENTRAN340 subsystem (the subsystem description is in the data library) to begin testing the Job Scheduler.</p> <p>Note: Once you have your Job Scheduler set up to run jobs on a regular basis, you <i>must</i> have this subsystem running whenever your system is up in order to execute the jobs.</p> <p>You can automate this process by having your iSeries System Administrator include the start of the subsystem in your iSeries startup job (the program specified in the system value QSTRUPPGM).</p>

Where to Go Next Once you have modified job descriptions, go to Setting Up Access to Gentran:Server on page 19.

Setting Up Access to Gentran:Server

Purpose Once you have set up the job descriptions, you need to have your System Administrator set up the library lists for users of the Gentran:Server for iSeries Communications Module Release 3.4. You should also test your access to each of the subsystems.

Procedure Follow the steps in this table to set up access to the Gentran:Server for iSeries Communications Module Release 3.4.

Step	Action
1	<p>Have your iSeries System Administrator assign the Gentran:Server data and program libraries to the interactive library lists for all users of the Communications Module. Make sure that QTEMP is before the Gentran:Server libraries in the library list.</p> <p>If you accepted the default library names during installation, the libraries you now have are:</p> <ul style="list-style-type: none"> ■ G34DTA ■ G34PGM
2	<p>Type <code>GO GENMAIN</code> on the command line to access the Gentran:Server main menu.</p> <p>Note: You must be the iSeries Security Officer (QSECOFR) or the user who installed the Communications Module to access the Communications Module until other user IDs are added to the Gentran:Server Environment Control subsystem.</p>
3	<p>Create user IDs.</p> <p>Note: See the “Environment Control” chapter in the <i>User Guide</i> for the procedure to set up new User IDs.</p>
4	<p>You may now use the Communications Module.</p>

Additional Steps for Connect:Mailbox Conversion

Purpose The following additional steps are necessary if you are converting from Connect:Mailbox 3.1.0. When creating a communications profile, both products create a lin/ctl/dev directory based on the profile entered. Because you cannot have duplicate lin/ctl/dev objects on an iSeries, it is not possible to create an instance of each product to run simultaneously. For this reason, you need a solution that provides the ability to run parallel tests in the old Connect:Mailbox environment and the new Gentran:Server for iSeries Communications Module Release 3.4 environment.

Procedure To be safe, create separate, uniquely named profiles under the new product and test all used scripts in advance. This allows the new product to run in parallel with the old.



NOTE

Because the line, controller, and device descriptions must be unique on the iSeries, there is no way to truly run in parallel without changing the names (thus making two independent sets of lin/ctl/dev objects). For some SNA objects, this will not be possible because OS/400 will not allow you to create duplicates, even under a different name.

Perform the following three-stage approach to your conversion:

Phase															
1	Identify every profile and script that is currently used in the Connect:Mailbox product.														
2	<table border="1"> <thead> <tr> <th>Step</th> <th>Action</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Run the Communications Module Release 3.4 conversion against the production environment, creating the new Gentran:Server for iSeries Communications system.</td> </tr> <tr> <td>2</td> <td>Under the new system, either recreate the profiles with different names by using the copy function from the EDIX400 FMT01 Work with Communications panel or rename the lin/ctl/dev directory within each profile.</td> </tr> <tr> <td>3</td> <td>Go into each profile that is used and press F10 to update.</td> </tr> <tr> <td>4</td> <td>Manually review each of the scripts and update if necessary. <i>See Communications Module Release Notes and Impact Information for more information about script changes.</i></td> </tr> <tr> <td>5</td> <td>Test each of the new profiles and scripts, parallel to old production system.</td> </tr> <tr> <td>6</td> <td>Note any manual changes to profiles and/or scripts required to make them work as they did with Connect:Mailbox 3.1.</td> </tr> </tbody> </table>	Step	Action	1	Run the Communications Module Release 3.4 conversion against the production environment, creating the new Gentran:Server for iSeries Communications system.	2	Under the new system, either recreate the profiles with different names by using the copy function from the EDIX400 FMT01 Work with Communications panel or rename the lin/ctl/dev directory within each profile.	3	Go into each profile that is used and press F10 to update.	4	Manually review each of the scripts and update if necessary. <i>See Communications Module Release Notes and Impact Information for more information about script changes.</i>	5	Test each of the new profiles and scripts, parallel to old production system.	6	Note any manual changes to profiles and/or scripts required to make them work as they did with Connect:Mailbox 3.1.
	Step	Action													
	1	Run the Communications Module Release 3.4 conversion against the production environment, creating the new Gentran:Server for iSeries Communications system.													
	2	Under the new system, either recreate the profiles with different names by using the copy function from the EDIX400 FMT01 Work with Communications panel or rename the lin/ctl/dev directory within each profile.													
	3	Go into each profile that is used and press F10 to update.													
	4	Manually review each of the scripts and update if necessary. <i>See Communications Module Release Notes and Impact Information for more information about script changes.</i>													
	5	Test each of the new profiles and scripts, parallel to old production system.													
6	Note any manual changes to profiles and/or scripts required to make them work as they did with Connect:Mailbox 3.1.														
3	Once the testing is complete, the Communications Module is ready for production.														
	<table border="1"> <thead> <tr> <th>Step</th> <th>Action</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Copy the newly created profiles back to their original names and do an F10 update, or leave them as is.</td> </tr> <tr> <td>2</td> <td>If the new production environment will be located on a different iSeries or if you would like to have it located in different libraries, run the conversion process again.</td> </tr> <tr> <td>Note:</td> <td>If you run the conversion process again, modify each profile and/or script as noted in Phase 2 (above) or copy the profiles from the old test environment.</td> </tr> </tbody> </table>	Step	Action	1	Copy the newly created profiles back to their original names and do an F10 update, or leave them as is.	2	If the new production environment will be located on a different iSeries or if you would like to have it located in different libraries, run the conversion process again.	Note:	If you run the conversion process again, modify each profile and/or script as noted in Phase 2 (above) or copy the profiles from the old test environment.						
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Performing a Cumulative Fix Install

In this section This section is designed to provide you with all the information needed to apply cumulative fixes to Gentran:Server for iSeries Communications Module Release 3.4.

- Prerequisites
- Applying cumulative fixes
- Recoverability

Prerequisites

Before you begin

Review this list of prerequisites required before applying cumulative fixes for Gentran:Server for iSeries Communications Module Release 3.4.

1. The Communications Module Release 3.4 provides support for OS/400 versions that IBM supports. If you are using a version of OS/400 that IBM does not support, you must upgrade the operating system before installing Release 3.4.
2. Gentran:Server for iSeries Communications Module Release 3.4 cumulative fix CD-ROM has a volume ID of C34CD. You can also apply the cumulative fix by downloading save files from Support On Demand.
3. To see a list of product changes, restore the README file first and review it before installing the cumulative fix. Descriptions of fixes display in descending order, grouped under a point release level with a production date. Your CD-ROM contains a point release level to use as a guideline in the README file.

If restoring from CD-ROM, type the following command and press **Enter** to restore the README file:

```
RSTOBJ OBJ(README) SAVLIB(G34FIXDTA) DEV(your-device-name)
OBJTYPE(*FILE) RSTLIB(your-chosen-library-name)
OPTFILE('/G34FDTA')
```

If restoring from save files, type the following command and press **Enter** to restore the README file:

```
RSTOBJ OBJ(README) SAVLIB(G34FIXDTA) DEV(*SAVF) SAVF(G34PGM/
G34FIXDTA) OBJTYPE(*FILE) RSTLIB(your-chosen-library-name)
```

You can work with the members in the README file to read about fixes specific to each product by using the WRKMBRPDM command.

4. When installing cumulative fixes, we recommend that no users access any part of the Communications Module (including the main menu) during the install to ensure that no object locks occur.
5. All programs in the Communications Module have been compiled with the option USER PROFILE (*OWNER), with the OWNER of all objects defined as QPGMR. All data files have *PUBLIC authority *ALL granted. This eliminates any authority conflicts on the system. The best method of protecting the access to the Communications Module is to use the security measures in the Environment Control subsystem in conjunction with iSeries security.

Applying Cumulative Fixes


Procedure Use this procedure to install the cumulative fixes.



NOTE

Installation must be done by the iSeries System Security Officer (QSECOFR) or by a user with *SECADM authority.

Step	Action
1	Back up your current Gentran:Server libraries.
2	If the scheduler subsystem GENTRAN340 is active, you need to end it before beginning the installation. Type the following command and press Enter : <code>ENDSBS (GENTRAN340) OPTION (*IMMED)</code>
3	Ensure the library QGPL is first in the user portion of your library list.
4	The Gentran:Server cumulative fix procedures create numerous informational messages with severities of 0–10 in the job log that you might want to avoid. Optionally, change your job to limit the messages logged to specific severities. Type the following command: <code>CHGJOB LOG(4 20 *SECLVL) LOGCLPGM(*YES)</code>
5	Load the Communications Module CD-ROM or download the save files from Support On Demand.
6	When restoring from CD-ROM, type the following command and press Enter . <code>RSTOBJ OBJ(*ALL) SAVLIB(QGPL) DEV(your device name) MBROPT(*ALL) ALWOBJDIF(*ALL) OPTFILE('/qgp1')</code> When restoring from save files, type the following command and press Enter . <code>RSTOBJ OBJ(*ALL) SAVLIB(QGPL) DEV(*SAVF) SAVF(G34PGM/QGPLCOM34) MBROPT(*ALL) ALWOBJDIF(*ALL)</code> Note: The system restores the cumulative fix objects (commands and programs) into the QGPL library. This is done interactively and locks your terminal until the job completes.
7	Check messages issued to ensure all objects were restored. If some objects were not restored, the iSeries issues message CPF3773 . Do not continue until all objects are restored.

Step	Action
8	<p>When the prompt returns, type COMFIX34 and press F4 (Prompt). The Gentran Comm Fix Install 3.4 (COMFIX34) panel displays.</p> <p> NOTE _____ Optionally, you can use the SBMJOB command to submit the COMFIX34 command to batch.</p> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; margin: 10px 0;"> <pre style="font-family: monospace; font-size: 0.9em;"> Gentran Comm Fix Install 3.4 (COMFIX34) Type choices, press Enter. Device _____ Name, *SAVF Gentran:Server Libraries: Program Library G34PGM Name Data Library G34DTA Name Run Interactively? *YES *YES, *NO Library for Save Files _____ Name Additional Parameters Apply fixes to Program Lib? . . *YES *YES, *NO Message Files: Merge Error File *YES *YES, *NO Merge Panel Label File *YES *YES, *NO Auxiliary Storage Pool *SAVASP *SAVASP, 1,2,3,4,5,6.. Validate Volume ID? *YES *YES, *NO Bottom F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display F24=More keys </pre> </div> <p>The COMFIX34 panel displays the recommended default values in the fields. See Field Descriptions below for detailed information about each field.</p>
9	<p>Complete the fields on the COMFIX34 panel and press Enter to continue the installation.</p>
10	<p>After the install completes, start the subsystem GENTRAN340 if you choose to use the Gentran Job Scheduler. Type the command:</p> <p style="text-align: center;">STRSBS GENTRAN340</p>

Field Descriptions

This table lists the fields on the Gentran Comm Fix Install 3.4 (COMFIX34) panel and a description of each.

Field	Description
Device	Enter the device name where the CD-ROM is loaded or enter *SAVF if restoring from save files.
Gentran:Server Libraries: Program Library	Enter your Gentran:Server program library name.
Gentran:Server Libraries: Data Library	Enter your Gentran:Server data library name.

Field	Description
Run Interactively	Enter *YES to run interactively. Enter *NO to submit the fix install to batch.
Library for Save Files	If restoring from save files, specify the library name where the save files reside.
Additional Parameters	
Apply fixes to Program Lib?	<p>No change is required if you want to apply the fixes to the program library.</p> <p>Enter *NO to bypass the program library. The value *NO should only be used when applying cumulative fixes to multiple data libraries. Initially, the COMFIX34 command should be run with the default value of *YES to apply the fixes to the common program library. It may then be run again with *NO to apply fixes to subsequent data libraries without reapplying the program fixes.</p>
Message Files: Merge Error File	<p>No change is required if you want to overlay the current Error file.</p> <p>Enter *NO if the current Error file should not be overwritten. This process renames the current Error file to GENERRSAV to manually merge users' changes into the current Error file at your convenience. When finished reviewing, delete the temporary message file GENERRSAV.</p>
Message Files: Merge Panel Label File	<p>No change is required if want to overwrite the current Panel Label file.</p> <p>Enter *NO if the current Panel Label file should not be overwritten. This process renames the current Panel Label file to GENLBLSAV to manually merge users' changes into the current Panel Label file at your convenience. When finished reviewing, delete the temporary message file GENLBLSAV.</p>
Auxiliary Storage Pool	No change is required if you do not want to change the default Auxiliary Storage Pool. All libraries are restored to Auxiliary Storage Pool 1 unless otherwise indicated.

Field	Description
Validate Volume ID?	<p>Specify whether the VOL parameter is used when checking the CD-ROM prior to installation. The default is *YES and is recommended to ensure that the correct CD-ROM is being used for installation.</p> <p>Note: You should only enter *NO when you need to override the volume ID that was determined so you can continue with the installation using the current CD-ROM.</p> <p>If you do enter *NO, you should verify with Product Support that you are using a valid CD-ROM before proceeding.</p>

Recoverability

Recovery options

When an object in the Gentran:Server data or program libraries cannot be allocated during the install process, the cumulative fix install checks for allocated objects and gives the user these options.

- **RETRY:** Verify the object has been de-allocated, then specify **R** to retry the allocation.
- **IGNORE:** Specify **I** to ignore this object. The cumulative fix procedure skips the allocated object and attempts to continue the install with the next object.



CAUTION

Using IGNORE is not recommended. If you use this option, you must update the skipped object manually when the installation is complete.

- **CANCEL:** Specify **C** to cancel the remainder of the installation. To complete the cumulative fix install, run the COMFIX34 procedure again.