Gentran Integration Suite

Windows Non-Cluster Upgrade

Version 4.3

Sterling Commerce



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Introduction

Use the Gentran Integration Suite 4.3 Windows Non-Cluster Upgrade Guide to upgrade the Gentran Integration Suite software in a non-clustered (single node) Windows environment. This guide includes the pre-upgrade and post-upgrade processes. It also includes information for using DB2, Microsoft SQL Server, MySQL, and Oracle databases with Gentran Integration Suite.

For new installations, use the Gentran Integration Suite 4.3 Windows Non-Cluster Installation Guide.

Pre-Upgrade Information

Before You Begin Upgrading

Before you begin upgrading to Gentran Integration Suite 4.3, be aware of the following prerequisite tasks and considerations:

- ◆ Standard Tasks and Considerations on page 6
- ◆ Special Tasks and Considerations on page 7
- ♦ Creating a Process Output Log on page 8
- ◆ Copying a Microsoft SQL Server 2000 Database on page 8
- ♦ Copying a Microsoft SQL Server 2000 Database to an SQL Server 2005 Database on page 9

Also, at several points in the upgrade process, you will be asked to download a file from https://support.sterlingcommerce.com. After logging in at this web page, click on the following links to reach the file: **Product Support** > Gentran Integration Suite > Gentran Integration Suite **Product Updates/Downloads**.

Note: If you are upgrading from Gentran Integration Suite 4.1 to 4.3, you must apply Gentran Integration Suite 4.1 Build 1990.

Standard Tasks and Considerations

Before you begin upgrading, be aware of all of the following standard tasks and considerations:

- 1. You must have a new license file to use the new licensed features of your upgraded installation.
- 2. Read through this entire document so that you have a clear understanding of what the upgrade requires.
- 3. Download the following information from the Gentran Integration Suite 4.3 library page http://www.sterlingcommerce.com/Documentation/GIS43/homepage.htm.
 - ◆ Release Notes
 - System Requirements

With each release, Sterling Commerce introduces leading edge technology to improve and enhance its software. Review the *System Requirements* to confirm that your system and databases meet the requirements, and also to manage any necessary upgrades or changes before upgrading.

- 4. Archive and purge any unneeded data before upgrading.
 - Archived data can only be restored from the same version and patch of Gentran Integration Suite from which it was archived. If you need to restore archived data that was archived prior to performing the upgrade, then you must have a running instance of Gentran Integration Suite that matches the version and patch from which the archive was taken.
- 5. Back up your database. Export your business processes, trading partners, maps, etc.
- 6. Review and note the adapters, business processes, and other configurations in your current version. This will help identify any need for updating transport messages, third-party adapters, or configurations to adapters, such as the File System and Command Line Adapters.
- 7. If you have edited a pre-defined business process, be aware that the upgrade process overwrites pre-defined business processes. Your customized business process is preserved in the system, but it is no longer the default process.
- 8. If you have edited any property files (.properties or .properties.in), be aware that the upgrade process overwrites these property files, unless these changes were made using the customer_overrides.properties file. Your previous property file edits might not be applicable in Gentran Integration Suite 4.3.
- 9. *Always* install and test your upgrade in a non-production environment before upgrading your production environment.

Special Tasks and Considerations

Before you begin upgrading, be aware of the following special tasks and considerations, depending on your type of upgrade:

- ♦ If you are using Oracle 8i with Gentran Integration Suite 4.0, upgrade to Oracle 9i before upgrading to Gentran Integration Suite 4.3.
- ♦ If you import Oracle 9 or Oracle 10 database while upgrading to Gentran Integration Suite 4.3, import the database without the indexes. For example, if you are using the Oracle import (imp) tool, you should use the INDEXES=N option. If you attempt upgrading to Gentran Integration Suite 4.3 with indexes, the upgrade will fail.

Note: If you had created any custom indexes in Oracle database, add them after performing the upgrade as they are not imported.

- ◆ If you have LDAP (Lightweight Directory Access Protocol) configuration information in the security.properties file, this information will automatically be moved to the authentication_policy.properties file.
- ◆ If your version of Gentran Integration Suite is integrated with the JBossTM, WebLogic[®], or WebSphere[®] application server.

Gentran Integration Suite version 4.3 is installed without integration to an application server and does not require an application server for installation or at runtime. However, Gentran Integration Suite still supports integration with JBoss, WebLogic, and WebSphere. After you upgrade to 4.3, you can restore integration with your application server if desired. To do so, use the Gentran Integration Suite EJB Adapter. For more information, refer to the documentation for the EJB Adapter.

Creating a Process Output Log

A log of process activity during the upgrade will help if troubleshooting is required. Output is automatically logged to upgrade.log. Use this procedure to generate a separate output log for each process you want to log.

In Windows, you must redirect the standard output and standard error of each command to create a log file. Do the following:

1. To redirect the standard output and standard error to create a log file, type a command similar to the following:

```
process.cmd > processoutput.log 2>&1
```

where process is the name of the command and processoutput is the name of the output log.

The log-writing process time varies, depending on the size of your database and your system hardware.

Caution: In Windows, if you attempt to view the log while it is being written, the upgrade.cmd script stops running and does not create a log of the upgrade process.

2. After you complete the command, you can review the output log using any text editor (for example, Microsoft Notepad).

Copying a Microsoft SQL Server 2000 Database

Before upgrading, it is recommended that you first make a backup of your Microsoft SQL Server 2000 database. One way to accomplish this is to make a separate copy of your existing database so that you can preserve your current system. Your existing Gentran Integration Suite instance will no longer function if you upgrade your existing database without making a copy.

Note: If you are moving from a SQL Server 2000 database to a SQL Server 2005 database, refer to *Copying a Microsoft SQL Server 2000 Database to an SQL Server 2005 Database* on page 9.

Caution: This is an optional procedure, and it is the customer's responsibility to perform it. Sterling Commerce Customer Support cannot help with this procedure.

You can use SQL Server Data Transformation services (DTS) to make a copy of your current database.

1. Drop all of the objects from the Gentran Integration Suite 4.3 database. This includes tables, indexes, views, and procedures.

Caution: Before you import rows into populated tables, you must drop these tables from the Gentran Integration Suite 4.3 database to eliminate the old data. If you do not, the new data is appended to the existing tables.

- 2. Start the DTS wizard and choose your current database as the source database and the new 4.3 database as the destination database.
- 3. Select Copy all of the objects and data between SQL databases.
- 4. Select **Run immediately** to complete the wizard.

The current database is copied to the new 4.3 database.

5. Change ownership of objects copied to the new Gentran Integration Suite 4.3 user.

6. Log in to SQL Query Analyzer and run the following script in the Gentran Integration Suite 4.3 database:

```
use name_of_GIS_database
go
declare @curown varchar(256), @newown varchar(256)
select @curown = 'current_owner', @newown = 'new_owner'
select 'exec sp_changeobjectowner '+ ''''
+ @curown + '.'
+ obj.name + ''','''
+ @newown + ''''
from sysobjects obj
where uid =
(Select uid from sysusers where name = @curown) and type in ('U', 'V', 'P')
and @newown in (select name from sysusers)
order by obj.name
```

- Change name_of_GIS_database to the name of the new Gentran Integration Suite 4.3 database.
- Change current_owner to the name of the user who currently owns objects in the copied database.
- Change new_owner to the name of the current DBO of the new 4.3 database.

No other values should be changed in the script.

An output script is generated which, when executed, will change the ownership of all of the tables.

7. Copy the output script and run it on the Gentran Integration Suite 4.3 database.

Copying a Microsoft SQL Server 2000 Database to an SQL Server 2005 Database

Before upgrading, it is recommended that you first make a backup of your Microsoft SQL Server 2000 database. One way to accomplish this is to make a separate copy of your existing database so that you can preserve your current system. If you are moving from a Microsoft SQL Server 2000 database to an SQL Server 2005 database, use the following procedure. Your existing Gentran Integration Suite instance will no longer function if you upgrade your existing database without making a copy.

Note: If you are copying a SQL Server 2000 database to another SQL Server 2000 database, refer to *Copying a Microsoft SQL Server 2000 Database* on page 8.

Caution: This is an optional procedure, and it is the customer's responsibility to perform it. Sterling Commerce Customer Support cannot help with this procedure.

- 1. Perform a full database backup to the file system on the source SQL 2000 server of the source database.
- 2. Copy the resultant backup (.bak) file from the file system on the source server file system to the file system on the SQL 2005 server.
- 3. Connect to the SQL 2005 database server as a Windows authenticated user with administrative privileges on the database server using SQL Server Management Studio 2005.
- 4. Make sure that the destination database is not in use (disconnect any connected applications).

- 5. Restore the backup of the SQL 2000 database over the existing SQL 2005 database, using the Tasks|Restore|Database wizard. The restore will be from a "device," the file created above. Specify on the Options tab the correct locations for the data and log files (since the locations in the backup may not be the same as the correct locations for files on the on SQL 2005 database server); also check the box to specify that the existing database is to be overwritten. Confirm that the restore is reported successful.
- 6. Check to make sure that existing users in the database match existing users on the server using the command sp_change_users_login 'report'. If no rows are returned, go to step 8.
- 7. If rows are returned, execute the command sp_change_users_login 'update_one', 'username', 'username' substituting the unlinked login name in each execution to correct links between existing users in the restored database and existing logins on the server.
- 8. Examine the users of the database using the SQL Studio or sp_helpuser. If the login (existing on the server) who will be working with this database is not currently a user of the restored database, add that login as a user of the database by executing the following commands (login_name and user_name should generally be the same):

```
USE database_name

Go

EXEC sp_grantdbaccess ' login_name ', ' user_name '

Go

EXEC sp_addrolemember 'db_owner', ' username '

Go

CHECKPOINT

Go

USE master

Go

EXEC sp_defaultdb ' username ', ' database_name '

Go
```

Note: The spaces in the quoted strings in the SQL commands should not be included in the final procedure, as spaces are significant to the proc and the commands will fail if they are there (i.e., EXEC sp_grantdbaccess 'login_name', 'user_name' should be EXEC sp_grantdbaccess 'login_name', 'user_name').

- 9. Examine the user tables in the SQL 2005 database to determine which schema they currently are in. Using the SQL Studio, the schema will be the prefix before each table listed in the Table tree. [This assumes that we will not change the schema of the user objects from whatever it is now even if it's a schema name with the same name as a user other than the user who will be accessing the data.]
- 10. Execute the following command in the SQL 2005 database to ensure that the default schema for the user who will interact with the database matches the schema containing the restored user objects. If the objects are in the dbo schema, use dbo as the schema_name.

```
USE database_name
Go
ALTER USER user_name WITH DEFAULT_SCHEMA = schema_name
Go
```

Managing Database Passwords

A password is used by the application to connect to its database. The password is stored as clear text in a property file on the system. If the security policies at your company require you to encrypt these passwords, you can do so after you install Gentran Integration Suite. Encrypting these passwords is optional.

Database Password Encryption Methods

Database passwords are encrypted using one of two methods, OBSCURED or ENCRYPTED. The encryption method is decided by the value of the encryptionPrefix in propertyEncryption.properties or propertyEncryption.properties_platform_security_ext file.

Encrypting Database Passwords (Windows)

To encrypt the database password:

- 1. Stop the Gentran Integration Suite.
- 2. Navigate to \install_dir\install\bin.
- 3. Enter enccfgs.cmd.
- 4. Enter setup.cmd.
- 5. Enter deployer.cmd.
- 6. Enter startWindowsService.cmd to start the Gentran Integration Suite.

Decrypting Database Passwords (Windows)

To decrypt a password in Windows:

- 1. Stop the Gentran Integration Suite.
- 2. Navigate to \install_dir\install\properties.
- 3. Open the sandbox.cfg file.
- 4. Copy encrypted password from the database_PASS property. Use the text that appears after the database_PASS= text. For example, if database_PASS= OBSCURED:123ABCxyz321, you would copy the text OBSCURED:123ABCxyz321. (OBSCURED is the encryption method for the password.)
- 5. Navigate to \install_dir\install\bin.
- 6. Enter **decrypt_string.cmd encrypted_password**. For encrypted_password, use the text that you copied in Step 4.
 - You are prompted for the Sterling Integrator passphrase.
 - Your decrypted password appears.
- 7. Navigate to \install_dir\install\properties.

- 8. Edit the sandbox.cfg file to replace the encrypted password with the password that was returned in Step 6.
- 9. You need to decrypt the entry for **YANTRA_DB_PASS**. Repeat Steps 4 to 8 to decrypt YANTRA_DB_PASS.

Note: You should also decrypt any custom database pool passwords present in the customer_overrides.properties file or any other properties file.

- 10. Navigate to \install_dir\install\bin.
- 11. Enter setupfiles.cmd.
- 12. Enter deployer.cmd.
- 13. Enter startWindowsService.cmd to start the Gentran Integration Suite.

Verifying System and Database Compatibility

To verify system compatibility and prepare for the upgrade, perform the following tasks:

- 1. Review Gentran Integration Suite *Release 4.3 System Requirements* document. Your system must meet the minimum requirements that are documented, while your database and JDBC driver versions must match the documented requirements. Complete any necessary upgrades or changes in preparation for the upgrade.
- 2. Collect information on any third-party libraries used for adapter configuration that were added to your current release. You must add each of these libraries to release 4.3 later in the upgrade process.
- 3. Locate any configuration file changes for the JDBC adapter or the Lightweight JDBC adapter in your current release. Later in the upgrade process, you will copy these changes to release 4.3.
- 4. Record your performance tuning configuration. You will restore these settings later in the upgrade process.

Preparing Your System for the Upgrade

Verify your system compatibility as previously described before continuing with this procedure.

- 1. Back up Gentran Integration Suite and your current database.
 - **Caution:** If there are problems with your upgraded system, the only way to ensure that you can roll back to your previous version is to back up Gentran Integration Suite and your database.
- 2. To avoid upgrade failures in Windows, shut down all software that performs non-system processes, including processes that:
 - Scan files and directories for viruses
 - Back up file systems
 - Monitor software (for example, HP OpenView)

Disable pop-up windows

After you successfully back up Gentran Integration Suite and your database, you are ready to upgrade the software. Before you begin, see Gentran Integration Suite 4.3 Release Notes.

Preserving Customer Changes During Updates

You can preserve your custom changes to system resources (like workflow definitions and maps) when you update your system. During updates, the system can identify when you make a custom change versus when the system makes a change through an upgrade or patch.

When a patch, installation or upgrade is performed, a baseline record of system resources is created. This baseline is not affected by any subsequent customer changes. When another patch is installed, the resources in this baseline are compared to the resources in the existing system. If a baseline and existing resource are not the same, that means that the existing resource was customized, and is not overwritten by the patch.

During an update, the baseline is updated with new system resource information, but not with custom changes to resources.

A report shows what has changed in the system that customer-specific changes did not permit to get set as defaults. This report is used in conjunction with the user interface to verify that customer overrides are not getting overwritten by the patch.

The report includes the following resource types:

- **♦** Workflow definitions
- ♦ Maps
- **♦** Schema
- **♦** Template

Upgrading in a Windows Non-Clustered Environment

Preinstallation Setup Checklist for a Windows Non-Clustered Environment

The following topics will assist you with preinstallation tasks when planning an upgrade installation of Gentran Integration Suite in a Windows non-clustered environment:

- ♦ Checklist for Windows Preinstallation on page 14
- ♦ Checking System Requirements on page 17
- ♦ Installing the Java 2 Software Development Kit on page 17
- ◆ Downloading the JCE Distribution File on page 18
- ◆ Determining Port Numbers on page 18
- ♦ Obtaining a License File on page 18

Checklist for Windows Preinstallation

The preinstallation checklist for the Windows environment identifies the prerequisite tasks you must complete before installing Gentran Integration Suite.

Note: When creating a name, such as an account name, permissions name, profile name, or database name, follow these conventions:

- Use any valid alphanumeric characters and -, :, \$, &, or _.
- Do not use spaces or apostrophes.

You may want to make a copy of the following checklist and use it to record the information you collect for installing Gentran Integration Suite:

Step	Description	Your Notes
1	Verify that your system meets the hardware and software requirements specified for this release. See <i>Checking System Requirements</i> on page 17.	
2	Verify that your system has the patches required by Java™ for the Windows environment. See the vendor's Java Web site for more information.	
3	For systems with multiple IP addresses, verify that the IP address on which Gentran Integration Suite resides is accessible by any client computer that is running a browser interface. Caution: If you do not verify the IP addresses, your system may not operate properly after installing Gentran Integration Suite.	
4	Verify that all client computers are using Microsoft Internet Explorer 5.x or later.	
5	If you are using a non-English environment, confirm that you are using the appropriate character set.	
6	Determine and record information about the Java 2 Software Development Kit (JDK). See Installing the Java 2 Software Development Kit on page 17. Version of the JDK.	
	 Absolute path to the JDK files and patches. The path name cannot include spaces. 	
7	Obtain the JCE distribution file and record the absolute path to the zipped file. See <i>Downloading the JCE Distribution File</i> on page 18.	
8	Determine and record the initial port number to be used by Gentran Integration Suite. See <i>Determining Port Numbers</i> on page 18.	

Step	Description	Your Notes
9	If you are using a SQL Server 2000/2005 database or an Oracle database, determine and record information about your database server. Be aware that this information is case sensitive.	
	Database vendor	
	Database user name and associated password	
	Database (catalog) name	
	Database host name	
	Database host port number	
	 Absolute path and file name for the JDBC driver 	
	 Version of the JDBC driver 	
10	Determine and record information to set up default system alerts from Gentran Integration Suite:	
	 The Administrative e-mail address to which system alert messages are sent. 	
	Note: It is recommended that you not change the Administrative e-mail address during an upgrade. If you change this address, you will have to update adapters, business processes and other items that include this information.	
	 The SMTP Server IP address used for sending alert messages. 	
11	Determine and record the directory in which you plan to install Gentran Integration Suite.	
	 The installation directory must not exist because the installation process creates it. 	
	 The installation directory must have adequate free disk space. 	
	The name of the directory cannot include spaces and must be less than 30 characters long. Using a directory name of more than 30 characters could create an installation that is impossible to delete.	
12	Determine and record the passphrase you want to use for Gentran Integration Suite system.	
	During installation, you must enter the passphrase twice.	
13	Obtain the license file and record the absolute path and file name to the license file. Be sure that the path name and the file name do not contain any spaces. See <i>Obtaining a License File</i> on page 18.	

Step	Description	Your Notes
14	Determine whether Gentran Integration Suite is using an application server (JBoss™, WebLogic® or WebSphere®).	
	Gentran Integration Suite does not require an application server for installation or at runtime.	
	Gentran Integration Suite supports integration with JBoss and WebLogic during the installation. You can also integrate with WebSphere, JBoss, or WebLogic after installing version 4.3 by using the Gentran Integration Suite EJB Adapter. This does not represent a WebLogic server for deploying the Application Console.	

Checking System Requirements

Before you begin, verify that your system meets the hardware and software requirements specified for this release. The hardware requirements listed are the minimum required to run Gentran Integration Suite. Your system requirements will exceed these if you are running other applications on the same machine as Gentran Integration Suite. For current information, see the *System Requirements* posted on Gentran Integration Suite Documentation Library:

http://www.sterlingcommerce.com/Documentation/GIS43/homepage.htm

The installation strictly enforces the following system requirements:

- ◆ Operating system version (must match requirement exactly)
 The minimum patch level for the operating system is enforced, but you can apply higher patch levels.
- ◆ JDK version (must match requirement exactly)
- ◆ Disk space

The disk space is a minimum for the installation. The system should be separately sized to handle whatever load is going to be put on the system.

Installing the Java 2 Software Development Kit

You must install the Java 2 Software Development Kit (JDK) and the patches specific to your system. To determine which JDK version and patches you need, see the *System Requirements*. After you install the JDK, record the path to the JDK for future reference.

Caution: Two registry keys written by the installation of the Sun JDK version 1.5.0-11 are faulty and include an invalid value for the JavaHome key (the Java JDK location). If the Gentran Integration Suite installation cannot find the Java JDK location using the registry settings, you are prompted for the location of the Java JDK directory. Once the installation is complete, the registry will be updated with the correct JDK location.

Downloading the JCE Distribution File

The Java Cryptography Extension (JCE) is a set of Java packages from Sun Microsystems, Inc. that provides a framework and implementations for encryption, key generation and key agreement, and Message Authentication Code (MAC) algorithms.

Note: If you are installing Gentran Integration Suite outside of the United States, check to see if you can get the JCE unlimited strength jurisdiction policy files. The unlimited strength jurisdiction policy files can only be exported to countries to which the United States permits the export of higher-level encryption.

To obtain this file for the Sun JDK 1.5:

- 1. Open your browser and navigate to http://java.sun.com/javase/downloads/index_idk5.jsp.
- 2. At the bottom of the page, locate *Java Cryptography Extension (JCE) Unlimited Strength Jurisdiction Policy Files 5.0* and click the **Download** button.
- 3. Download the jce_policy-1_5_0.zip file to your system.
- 4. Once the file resides on your system, note the exact directory and file name for this zipped file. You will need this information during the installation process.

Determining Port Numbers

During installation, you are prompted to specify the initial port number for Gentran Integration Suite. For other ports, you can accept the default port number suggested by the installation program, or you can specify a different port number. To specify a port number, follow these guidelines:

- ♦ Gentran Integration Suite requires a range of 100 consecutive open ports between 1025 and 65535.
- ♦ The initial port number represents the beginning port number in the range.
- ♦ The port range starts with the initial port number and ends with the number that equals the initial port number plus 100. All ports in this range must be available for Gentran Integration Suite. For example, if you specify 10100, then you need to make sure that 10100 through 10199 are not used by any other applications on your system.

After your installation, refer to *install_dir*\properties\sandbox.cfg for all of the port assignments.

Obtaining a License File

After your company signed the sales contract with Sterling Commerce, Sterling Commerce created a license file containing information about your company, your system, and the packages (components), such as services, maps, and adapters, your company selected to use.

The license file contains a license that is associated with your specific operating system and the IP address of your system. The license provides access, for 20 years from the date of issue, to Gentran Integration Suite packages your company selected and is independent of your maintenance fee. Because the license is independent of your maintenance fee, the schedule for renewing your license and license file may be different than the maintenance fee schedule.

You must download the license file before you can install Gentran Integration Suite. Follow these steps:

- 1. Point your Web browser to http://www.productupdates.stercomm.com.
- 2. Review the Welcome to Sterling Commerce Product Update page and click Next.
- 3. Review the Authenticate page and click **Next**.
- 4. Type the License File Key, which is case-sensitive, and click **Next**. If the system displays the Retrieve Registration dialog box and you are upgrading, you may retrieve your registration information by entering your previous License File Key. If you are not upgrading, then click **Next**.
- 5. Verify the registration information and click **Next**.
- 6. On the Server Details page, update the fields and click **Next**.
 - If the operating system, application server, or database server version is not listed in the respective lists, type the version in the respective **Description of Other**.
 - All IP addresses assigned to the server in which you are installing Gentran Integration Suite should be listed in the license file.
- 7. Verify the list of packages and the type of license selected for each package and click **Next**. If the list of packages selected or the type of license selected is *not* correct, then contact Customer Support to correct the information.
- 8. Scroll to the bottom of the Review and Download Package License File page and click **Finish and Download**.
- 9. Click Save in the File Download dialog box.
- 10. Accept the default location for the license file or navigate to the location where you will store the license file. Note the absolute path of the file location on the Preinstallation Checklist. You will need the absolute path to install Gentran Integration Suite.
- 11. Click Save.
- 12. Close your Web browser.

Upgrading in a Non-Clustered Windows Environment

Installing Gentran Integration Suite in a non-clustered Windows environment includes the following tasks:

- ◆ Upgrading in Windows on page 19
- ♦ Upgrading with MySQL to a Different Server on page 20
- ◆ Installing the JDBC Driver in SQL Server on page 21
- ◆ Running the Upgrade Program in Windows on page 22

Upgrading in Windows

To upgrade to Gentran Integration Suite version 4.3, follow the installation instructions in this section. These steps include special instructions for upgrading. Before running the upgrade program, refer to the *Pre-Upgrade Information* section. After running the upgrade program, refer to the *Post-Upgrade Processes* section.

Caution: It is important to remember that upgrading to 4.3 involves a full installation of Gentran Integration Suite. You need to prepare for an upgrade the same way that you would prepare for an installation.

Caution: Before the upgrade, you should always make a backup of your production database. If you make a separate copy of your database in order to preserve your existing database, then perform the upgrade on the copy of the production database.

This upgrade does not overwrite your current Gentran Integration Suite directory structure on disk. Instead, it creates a new installation of Gentran Integration Suite 4.3 that will point to and upgrade the database of your current installation of Gentran Integration Suite (unless you are using MySQL). This means your original instance will no longer be operational after performing the upgrade. After the upgrade, you will be starting your Gentran Integration Suite instance only from the newly created directory structure.

If you are using MySQL, a new MyQSL database will be created in Gentran Integration Suite 4.3 and information will be copied from the MySQL database in your previous version of Gentran Integration Suite to the new database.

Note: When you copy your database, if you encounter *Data Overflow* or *Invalid Time Format* errors while copying the WORKFLOW CONTEXT table, run this query:

```
UPDATE WORKFLOW_CONTEXT SET ENTERQ = NULL, EXITQ = NULL where ENTERQ IS NOT NULL OR EXITO IS NOT NULL
```

It is also recommended that you thoroughly test this process in a test or development environment prior to implementing in a production environment.

Note: If you need to patch your system before continuing the upgrade, it is recommended that you fully test the patch prior to performing the upgrade. If you are running a patch less than 4.0.3-5, you **MUST** patch to version 4.0.3-5 or higher before continuing the upgrade.

Caution: This upgrade changes the administrative password to the default password. After the upgrade, change the password back to the administrative password to minimize security risks. This is the Admin password for logging into the UI (/dashboard or /ws).

Upgrading with MySQL to a Different Server

In the following situations, you need to run a special script when you are upgrading from an installation of Gentran Integration Suite with the MySQL database:

- ♦ When upgrading from a different machine than the machine where you are installing Gentran Integration Suite 4.3.
- ♦ When upgrading from an operating system that is not supported on Gentran Integration Suite 4.3 (for example, Windows 2000).

Before installing Gentran Integration Suite 4.3 in these situations, follow this procedure:

- Download the following script from the *absolutePath*\extra directory on your installation CD to the *install_dir*\bin directory of your existing installation of Gentran Integration Suite: exportMySQL4DB.cmd.in
- 2. In that bin directory, run the setupfiles.cmd command to process the exportMySQL4DB.cmd.in file.

3. In that bin directory, run the following command:

```
exportMySQL4DB.cmd absolutePath\install_dir
```

The export file dump.dat is created in absolutePath\install_dir.

- 4. FTP the dump.dat file in binary mode to the machine where you are installing Gentran Integration Suite 4.3.
- 5. Run the installation.

When prompted for the location of your previous installation, choose **remote**.

6. Select the dump.dat export file that you transferred in step 4.

Installing the JDBC Driver in SQL Server

Gentran Integration Suite requires the correct Microsoft SQL Server driver. See *System Requirements* for supported version information. The supported version of the JDBC driver builds the correct Gentran Integration Suite directory structure.

Refer to one of the following sections for your Microsoft SQL Server version:

- ♦ Installing the JDBC Driver in SQL Server 2000 on page 21
- ♦ Installing the JDBC Driver in SQL Server 2005 on page 22

Installing the JDBC Driver in SQL Server 2000

Go to the Microsoft web site to download this driver, any appropriate patches, and the following .jar files. Be sure to place all the .jar files in the same directory.

- → msbase.jar
- → mssqlserver.jar
- → msutil.jar files

After you obtain the JDBC driver file and .jar files, record the absolute path to their location on your system. You must supply this absolute path when you install Gentran Integration Suite. When you select these files during the installation, you can use one of the following methods:

Note: It is recommended that you use the first method (select all three files), because the second method (select a combined jar file) generates warning messages that might be confusing.

- ◆ In the browse window, select all three files by holding down the **Ctrl** key and clicking each file name.
- ♦ In the browse window, select a combined jar file, which you create using the following method:
 - a. Make a new directory in which you will work, and copy the separate jar files to this directory.
 - b. For each of the separate jar files, issue the following command:

```
jar -xvf jar_file_name
```

- c. After all of the jars have been expanded, remove the META-INF directory that will be located in the working directory.
- d. Create a new jar file by issuing the following command:

```
jar -cvf combinedJarName.jar *
```

Installing the JDBC Driver in SQL Server 2005

Go to the Microsoft web site to download the driver and any appropriate patches.

- 1. Download sqljdbc_version_language.exe to a temporary directory.
- 2. Run sqljdbc version language.exe.
- 3. When prompted, enter an installation directory to which you will unpack zip file that contains the driver. It is recommended that you unpack the zip file in your **Program Files** directory with the default directory **Microsoft SQL Server 2005 JDBC Driver**. You will access this directory path during the installation of Gentran Integration Suite.

Note: Make sure that you specify the full path to the installation directory. For example, C:\Program Files\Microsoft SQL Server 2005 JDBC Driver.

After the package unpacks, you can find out more information about using this driver by opening the JDBC Help System in the *absolutePath*\sqljdbc_*version*\language\help\default.htm file. This will display the help system in your Web browser.

4. When the Gentran Integration Suite installation asks for the location of the JDBC drivers, specify the extracted jar file created after unpacking the archive (usually named sqljdbc.jar). The JDBC driver version is the same as the version of the drivers downloaded from Microsoft.

Configuring Snapshot for Microsoft SQL Server 2005

The snapshot feature in Microsoft SQL Server 2005 allows you to view a read-only copy of the database even when it is locked. It is recommended to configure snapshot feature as it reduces deadlocks. Run the following command to enable snapshot feature:

ALTER DATABASE db name SET READ COMMITTED SNAPSHOT ON;

Running the Upgrade Program in Windows

Note: The following instructions assume that you received an installation CD for Gentran Integration Suite. If you downloaded Gentran Integration Suite or a Service Pack (SP) from the Electronic Software Distribution (ESD) Portal, unzip the downloaded file to an empty directory. Do *not* change the directory structure of the newly unzipped files. The directory containing the unzipped files is an electronic image of an installation CD. Use this directory wherever there is a reference to the installation CD in the following instructions. Ignore any instructions to place the installation CD in a drive.

To upgrade Gentran Integration Suite in a non-clustered Windows environment, refer to your preinstallation checklist and follow the steps below.

Note: To install more than one instance of Gentran Integration Suite on the same Windows server, you must install the second instance in a different directory and use a different initial port number. This second port number must be at least 100 higher or lower than the first port number.

Note: During the installation, various messages are displayed, including some warning messages. These warning messages require no action on your part and are included so that helpful data is recorded in the log file.

Note: Before your upgrade installation, shut down your base installation. This will free up the port number that you used in your base installation.

- 1. Close all open Windows programs and any command prompt windows.
- 2. Insert Gentran Integration Suite installation CD in the appropriate drive.
- 3. On the installation CD, navigate to the **windows\install** folder.
- 4. Double-click **setupfiles.exe**. Then click **Next** to start the installation program.
- 5. Review the license agreement, and click **Yes** to accept the terms.
- 6. The installation program searches for the JDK, using the registry settings. If the program cannot find the JDK location using the registry settings, you are prompted for the location of the JDK directory. Use the **Browse** button to search for the directory. For more information, refer to the caution information in *Installing the Java 2 Software Development Kit* on page 17.

Click Next.

- 7. You are prompted to choose an installation directory for Gentran Integration Suite. Click **Browse** and navigate to the folder you want to use as the installation directory. This directory is referred to as *install_dir* in subsequent prompts.
- 8. You are prompted to browse to the location of the license file. Select the license file, and click **Next**. If you have not installed a license file, you can minimize this window, obtain the license file, and then return to the installation process.
- 9. You are prompted to browse to the location of the JCE distribution file. Select the JCE distribution file, and click **Next**. The program verifies the path name.
- 10. A screen appears with the following four checkboxes:
 - ◆ I want to install a cluster node 2 or higher

This option is not used for non-clustered upgrades.

◆ I want to upgrade from a prior version

Select this checkbox for this upgrade installation.

◆ I want to enable FIPS mode

Select this checkbox if you are enabling the Federal Information Processing Standards (FIPS) mode.

 I want GIS to automatically create the database schema (Required for upgrades and MySQL)

This checkbox is selected by default. Make sure that it is selected, as the option of manually creating the database schema is not supported on the Windows environment. This box must be selected when you are upgrading.

Note: When more than one attempt is made to upgrade an existing MySQL database from a previous installation, the upgrade will fail. To avoid the failure, you must rename the XMLSCHEMAS table back to SCHEMAS in the MySQL database to be exported from the previous installation to the new installation.

- 11. The system displays a command window. Leave the command window open. You can minimize the command window, but do not close it or the installation program cannot prompt you for information or display status messages.
- 12. The system displays a message window listing information you will need in subsequent steps. Click **OK** to continue.
- 13. You are prompted about overriding the host IP address for this installation.
 - To accept the default host IP address, click **Next**.
 - To specify another host IP address, enter the IP address you want to use. Click **Next**.

Note: If you are installing Gentran Integration Suite on VMware, you should provide the IP address of the virtual machine and not of the VMware host. For example, if 10.251.124.160 is the IP address of the VMware server and 10.251.124.156 is the IP address of the Windows 2003 server it is hosting, you should use 10.251.124.160 as the IP address to install Gentran Integration Suite.

14. Type the administrative e-mail address to which you want system alert messages to be sent. Click **Next**.

Note: It is recommended that you not change the Administrative e-mail address during an upgrade. If you change this address, you will have to update adapters, business processes and other items that include this information.

- 15. Type the SMTP mail server host name that you want to use for alert messages. Click Next.
- 16. Type your system passphrase that you want to use in both the Passphrase box and the Confirm box. Use the same passphrase you used for your previous Gentran Integration Suite installation. Click **Next**.
- 17. Type the initial port number for Gentran Integration Suite server. Use the same initial port number you used for your previous Gentran Integration Suite installation. Click **Next**.

The installation creates subsequent ports based on the initial port number. These port assignments are written to <code>install_dir/properties/sandbox.cfg</code>.

- 18. Select the database you want to use and click **Next**.
 - If you select Microsoft SQL Server 2000 or 2005, enter the following information and click **Next**:
 - Database host name
 - Database host port number
 - Database name
 - User ID
 - Password
 - Password confirmation
 - (Microsoft SQL 2005 only) Database schema user

If you select Oracle, you are asked whether the Oracle instance is being used for an upgrade.
 Answer Yes and refer to the *Pre-Upgrade Information* section before you answer subsequent prompts.

Enter the following information and click **Next**:

- Database host name
- Database host port number
- Database name
- User ID
- Password
- Password confirmation
- If you select MySQL, you will be prompted for the location of your previous Gentran Integration Suite installation.

The following question appears:

Is the previous MySQL located on this machine or a different machine?

- If the previous MySQL is on this machine, type 1 to choose the **This machine** option. The installation will continue like a normal installation.
- If the previous MySQL is on a different machine, type 2 to choose the **Different machine** option.

If your previous MySQL is on a different machine, and you have not already exported your previous version's MySQL data file and relocated it to this machine, you must do so before continuing the installation process. To complete the database export process, refer to *Upgrading with MySQL to a Different Server* on page 20. You may return to this prompt when the export is complete, or type **quit** to exit.

After you choose the **Different machine** option, wait until the *Continue*, *export is complete* message appears, and then press **Enter** to continue with the installation.

- 19. If you selected Oracle or either version of Microsoft SQL Server as your database, verify that you have the required JDBC drivers installed.
 - a. Verify that you have the required JDBC driver file copied to a local folder on your computer. Use a descriptive name for this folder that will help you later access the driver.
 - b. Browse to the location of the JDBC driver file. Select the file and click **Open**. For more information about how to select the file for Microsoft SQL Server, refer to *Installing the JDBC Driver in SQL Server* on page 21.
 - c. In the **Version Number** field, type **x_x** and click **Next**. Refer to *System Requirements* for the actual version number.
- 20. Click **Yes** to proceed with the upgrade.
- 21. The upgrade completes automatically. When the upgrade is finished, the system places an icon on your Windows desktop and displays a message that Gentran Integration Suite was successfully installed. Click **OK**. Click **Next**. Click **Finish**.

If you encounter problems or errors during installation, see the section *Troubleshooting: Windows Environment*.

Note: After performing the upgrade, refer to Installing the Current Maintenance Patch in Windows (Non-Cluster) on page 27 to install the latest patch.

Installing the Current Maintenance Patch in Windows (Non-Cluster)

Patches contain cumulative fixes for a specific version of Gentran Integration Suite. Because each patch contains the fixes from previous patches, you only need to install the most recent patch.

Note: During patch installation, the dbVerify utility compares the list of standard indexes with those present in the database and drops the custom indexes. You should recreate the custom indexes after the patch installation is complete.

To help you determine which patch to use, the files are named using the following naming convention:

si_43_build_build number.jar (for example, si_43_build_4307.jar)

Information about a patch is located in a PDF file with a similar name. The naming convention for PDF files containing information about a particular patch is:

si_43_build_build number_patch_info.pdf (for example, si_43_build_4307_patch_info.pdf)

Both the .jar and the .pdf files are available on the Sterling Commerce Support on Demand Web site, at https://support.sterlingcommerce.com. You should periodically check the web site to verify that you have the most recent patch.

Note: The patch installation may use one or more patch property override files. These files will be named *propertyFile_patch*.properties. Do not alter these files.

Additionally, property changes made directly in .properties or .properties.in files may be overwritten during the patch installation. Properties overridden using the customer_overrides.properties file are not affected.

To install the latest patch for Gentran Integration Suite in a non-clustered Windows environment, follow the steps below.

- 1. Go to the Sterling Commerce Support on Demand Web site, at https://support.sterlingcommerce.com.
- 2. Download the most recent patch file for your version of Gentran Integration Suite and record the absolute path to the downloaded file. If you use FTP, use Binary mode. Do not rename the file. Make sure that you download the file to your local machine (for example, to your installation bin directory), and not to a network drive. Use the full path to your local machine when you install the patch.
- 3. If you are using a database other than MySQL, verify that the database server is up and ready to accept connections.
- 4. Stop Gentran Integration Suite.
- 5. Perform a full backup of Gentran Integration Suite installation directory, including all subdirectories. Also back up your database.
- 6. If your database password is encrypted, decrypt the password. For more information about decrypting database password, refer *Decrypting Database Passwords (Windows)* on page 11.
- 7. If you edited any property files, update the customer_overrides.properties file with these changes. This will keep the edited property files from being overwritten with the contents of the associated initialization (*.properties.in) files during the patch installation. Please refer to the documentation on configuring overrides to properties files.

- 8. Close all command prompt windows.
- 9. Install the patch using the following steps:
 - a. Open a command prompt window.
 - b. Change to the directory where Gentran Integration Suite is installed and run the following command:

```
installDir\bin
```

c. Run the following command to install the patch:

```
InstallService.cmd
<path>\si_<version>_sp_0_patch_<number>_<app_server>.jar
where:
<path> = Fully qualified path to maintenance patch file
<version> = Gentran Integration Suite Version
<number> = Patch number
<app_server> = Application Server
Example: InstallService.cmd c:\patch\si_22_sp_0_patch_1_jboss.jar
```

Information about the patch installation is automatically logged to the *install dir*\logs\InstallService.log file.

If the patch attempts to modify the database schema and the modification fails, you will receive an error message about the failure. The message provides the error message code from the database and the SQL command that failed. The failure information is also logged to the system.log file and to the patch.log file.

- 10. If you decrypted the database password, re-encrypt the password. For more information about encrypting database password, refer *Encrypting Database Passwords (Windows)* on page 11.
- 11. Restart Gentran Integration Suite.

If you are using a perimeter server in a DMZ, see *Installing Patches in a Perimeter Server Non-Clustered Windows Environment* on page 35.

Running a DB2 Schema Change Script

After you install Gentran Integration Suite, Release 4.3 build 4316 or later, run the $fix_db2_schema.sql$ script. If you are using DB2 as a remote host for Gentran Integration Suite, running $fix_db2_schema.sql$ script applies new schema changes and fixes SQL exception error that may occur during large file transfers.

To run fix_db2_schema.sql script:

- 1. Install Gentran Integration Suite, Release 4.3 build 4316 or later.
- 2. Apply the new schema changes by running fix_db2_schema.sql script.

```
cd <install_dir>\bin db_execFile.cmd -i
<install_dir>\bin\sql\fix_db2_schema.sql -o <output_file> -j -s -p
```

The script will:

- Rename the affected tables and indexes
- Recreate the affected tables and indexes with the correct datatypes.

- Migrate the data from the renamed tables to the recreated tables.
- 3. After verifying the changes, run drop statements to drop the old tables.

The old tables can remain in the system, but occupies additional database space. The fix_db2_schema.sql script contains commented statements to drop the affected tables. It is recommended to run these statements manually after verifying that data was migrated successfully.

Installing a Hot-Fix (Non-Cluster)

After you install or upgrade Gentran Integration Suite, you may need to install a hot-fix. A *hot-fix* is one or more fixes applied to a specific existing patch.

Before Installing a Hot-Fix

Before you can install a hot-fix developed for your company, you must have completed the following:

- ◆ Received the case ID number from Sterling Commerce Customer Support
- ◆ Created a full backup of Gentran Integration Suite
- ◆ Created a full backup of your database

Hot-Fix Installation

To install a hot-fix on the Windows host system:

- 1. Is the password encrypted? If **Yes**, decrypt the password. For more information about decrypting database password, refer *Decrypting Database Passwords (Windows)* on page 11.
- 2. Open a command line session. Click the Windows **Start** menu and select **Programs** > **Accessories** > **Command Prompt**.
- 3. At the command line, type ftp theworld.stercomm.com.
- 4. Type your user name and password. If you do not know your user name and password, contact Sterling Commerce Customer Support.
- 5. Type bin and press **Enter** to select Binary as your transfer mode.
- 6. At the FTP prompt, type get ccaseid. jar, where caseid is the ID you received from Customer Support.
- 7. Shut down Gentran Integration Suite.
- 8. Open a command prompt and change the directory to *install_dir*\bin.
- 9. Type InstallService path to ccaseid. jar\ccaseid. jar to install the hot-fix.
- 10. If you decrypted the password in step 1, re-encrypt the password. For more information about encrypting database password, refer *Encrypting Database Passwords (Windows)* on page 11.
- 11. In the command prompt, change the directory to *install_dir*\bin.

- 12. Type the uninstallWindowsService.cmd command and log off. This removes previous Gentran Integration Suite Windows services from the Windows cache.
- 13. At the command prompt, type your user name and password.
- 14. Change the directory to *install_dir*\bin.
- 15. Type the installWindowsService.cmd command to install Gentran Integration Suite Windows services.
- 16. Restart Gentran Integration Suite.
- 17. In the <code>install_dir</code>\bin directory, run the <code>dump_info.cmd</code> command to verify that the hot-fix was successfully installed. The successful running of <code>dump_info.cmd</code> will display the Gentran Integration Suite version number.

Hot-Fix Package Delivery Method

The hot-fix package delivery method has changed effective Gentran Integration Suite, Release 4.3 Build 4324 onwards. The hot-fix package will be delivered as a jar file that contains only the files that were modified. However, the installation procedure for a hot-fix remains the same. Refer to *Hot-Fix Installation* on page 29 for hot-fix installation procedure.

The following list describes the features of the new hot-fix package model:

- ◆ Modified components are packaged as an installable file (jar).
- ♦ Hot-fix version is maintained in the hotfix.properties file. It does not update the SI_VERSION table. Run dumpinfo.cmd command to display the hot-fix version. You can also verify the hot-fix version in Gentran Integration Suite Support user interface page.
- ♦ Size of the hot-fix package is small.
- ♦ Hot-fix must be installed on the same build version that was used to build it. For example, if a test system is on Gentran Integration Suite, Release 4.3 Build 4324 and the hot-fix is built for 4324, it can be installed on that test system. However, if the production system is on Gentran Integration Suite, Release 4.3 Build 4323, you must apply Gentran Integration Suite, Release 4.3 Build 4324 prior to applying the hot-fix.
- ◆ You can locate the hot-fix read me file in the Gentran Integration Suite root (*install_dir*) directory. For example, *install_dir*\hotfix_readme.txt.
- ♦ If you have Sterling File Gateway installed in your environment, the hot-fix for Sterling File Gateway is installed automatically.

Performing Checksum using DB Checksum Tool

A checksum is a simple redundancy check used to detect errors in data. In Gentran Integration Suite 4.3, a verification process is used to compare the checksum between the existing default resource and the resource added after applying a patch or upgrading. The DB Checksum tool, a resource difference tool generates a granular report of the changes in the system that was not permitted to be set as defaults.

The DB Checksum tool generates the difference in resource checksum between the default resource and the latest system resource from the database.

To run DB Checksum tool, do the following:

- 1. Navigate to the <install_dir>\bin directory.
- 2. Run the following command from the *<install_dir>\bin directory*:

where:

- -d is the mode to dump the difference of resource checksum between the default resource and latest system resource.
- -i is the resource type integer (optional).
 - 1 is WFD
 - 2 is MAP
 - 3 is SCHEMA
 - 4 is SII
 - 5 is TEMPLATE
- -r is the resource name (optional). For example, wfd, map, schema, sii, or template.
- -o is the file name to output all the messages (optional).
- -g is the file name that lists all the ignored resources (optional).
- -h is the help screen.
- 3. The DB Checksum tool performs the relevant checksum operation based on the command options and generates the output message.

Installing a Perimeter Server in a Non-Clustered Windows Environment

Installing a Gentran Integration Suite perimeter server in a non-clustered Windows environment includes the following tasks:

- ♦ Setting Up Perimeter Servers with Gentran Integration Suite on page 31
- ◆ Installing a Perimeter Server in a More Secure Network (Windows Non-Clustered) on page 32
- ◆ Installing a Perimeter Server in a Less Secure Network (Windows Non-Clustered) on page 33
- ◆ Installing Patches in a Perimeter Server Non-Clustered Windows Environment on page 35
- ♦ Starting and Stopping Perimeter Servers in Windows on page 36
- ♦ Reducing Perimeter Server Security Vulnerabilities on page 36

Setting Up Perimeter Servers with Gentran Integration Suite

Using a perimeter server with Gentran Integration Suite is optional.

A *perimeter server* is a software tool for communications management that is installed in a DMZ. The perimeter server manages the communications flow between outer layers of your network and TCP-based transport adapters. A perimeter server can solve problems with network congestion, security, and scalability, especially in high-volume, Internet-gateway environments. A perimeter server requires a corresponding perimeter client.

Gentran Integration Suite installation program installs a perimeter client and a local mode server. The local mode server is useful for testing purposes or in environments that do not require a secure solution. However, if you require high-volume, secure connections, you must install a perimeter server in a remote zone, either a more secure or less secure network than your integration server.

When you install a perimeter server, use these guidelines:

- ♦ Licensing for a perimeter server is determined by the licensing restrictions on the corresponding B2B adapters in Gentran Integration Suite.
- ◆ Each perimeter server is limited to two TCP/IP addresses: internal interface and external interface. *Internal interface* is the TCP/IP address that the perimeter server uses to communicate with Gentran Integration Suite. *External interface* is the TCP/IP address that the perimeter server uses to communicate with trading partners.

To use additional TCP/IP addresses, install additional perimeter servers.

- ◆ You may have multiple perimeter servers installed on the same computer interacting with one instance of Gentran Integration Suite. To install a perimeter server on a computer with an existing instance, install the new perimeter server in a different installation directory.
- ◆ The combination of internal TCP/IP address and port must be unique for all perimeter servers installed on one computer.
 - If a perimeter server is installed using the wildcard address, then all ports must be unique.
 - If a perimeter server is installed using the wildcard address, then its port is not available for use by adapters that use the server or any other perimeter server on that computer.
 - The internal and external interface may use the same TCP/IP address. However, the port used by the perimeter server is not available to the adapters that use the server.

Installing a Perimeter Server in a More Secure Network (Windows Non-Clustered)

To install a perimeter server in a Windows non-clustered environment:

- 1. Close all open Windows programs.
- 2. Insert Gentran Integration Suite installation CD into the appropriate drive.
- 3. Open a DOS command window.
- 4. Copy the ps_2000.jar installation files from the installation CD to your home directory or base directory. If you are using FTP to copy the file, be sure your session is set to binary mode.

5. To begin the installation, enter the absolute path to the following jar file:

```
absolutePath\bin\java -jar install_dir\packages\ps_2000.jar
```

The program verifies the operating system and required patch level and the location and version of the JDK.

- 6. Enter the name for the installation directory.
- 7. If there is an existing installation in the directory you specify, you can update it using the same settings.

At the prompt *There is an existing install at that location, update it while keeping existing settings?*, if you type **yes** and press **Enter**, the installation will proceed without additional entries.

Note: If you want to change any of the settings, you must use a new directory, or delete the old installation before performing the new installation. You cannot overwrite an existing installation, and you cannot use an existing directory that does not contain a valid installation. The existing installation must be Gentran Integration Suite 4.3 or later.

The program verifies the amount of available disk space.

8. At the prompt *Is this server in a less secure network than the integration server?*, type **No** and press **Enter**.

For more information about making the perimeter more secure, refer to *Reducing Perimeter Server Security Vulnerabilities* on page 36.

- 9. At the prompt *Will this server need to operate on specific network interfaces?*, if you type **yes** and press **Enter**, the program returns a list of the available network interfaces available on your host. Select the interfaces for the server to use.
- 10. Enter the TCP/IP address or DNS name that the integration server (Gentran Integration Suite) will listen on for the connection from this server.
- 11. Verify the TCP/IP address or DNS name.
- 12. Enter the port that the integration server (Gentran Integration Suite) will listen on for the connection from this server. The port number must be higher than 1024.
- 13. Enter the local port that the perimeter server will use for the connection to the integration server (Gentran Integration Suite). The port number must be higher than 1024, except specify a port of zero if you want the operating system to select any unused port.
- 14. Verify the port.

When the perimeter server is installed, the following message is displayed:

Installation of Perimeter Service is finished

- 15. Change to the installation directory.
- 16. Enter installPS.cmd to install this perimeter server as a Windows Service.
- 17. Enter startPSService.cmd to start the perimeter server.

Installing a Perimeter Server in a Less Secure Network (Windows

Non-Clustered)

To install a perimeter server in a Windows non-clustered environment:

- 1. Close all open Windows programs.
- 2. Insert Gentran Integration Suite installation CD into the appropriate drive.
- 3. Open a DOS command window.
- 4. Copy the ps_2000.jar installation files from the installation CD to your home directory or base directory. If you are using FTP to copy the file, be sure your session is set to binary mode.
- 5. To begin the installation, enter the absolute path to the following jar file:

```
absolutePath\bin\java -jar install_dir\packages\ps_2000.jar
```

The program verifies the operating system and required patch level and the location and version of the JDK.

- 6. Enter the name for the installation directory.
- 7. If there is an existing installation in the directory you specify, you can update it using the same settings.

At the prompt *There is an existing install at that location, update it while keeping existing settings?*, if you type **yes** and press **Enter**, the installation will proceed without additional entries.

Note: If you want to change any of the settings, you must use a new directory, or delete the old installation before performing the new installation. You cannot overwrite an existing installation, and you cannot use an existing directory that does not contain a valid installation. The existing installation must be Gentran Integration Suite 4.3 or later.

The program verifies the amount of available disk space.

- 8. At the prompt *Is this server in a less secure network than the integration server?*, type **Yes** and press **Enter**.
- 9. At the prompt *Will this server need to operate on specific network interfaces?*, if you type **yes** and press **Enter**, the program returns a list of the available network interfaces available on your host. Select the interfaces for the server to use.
- 10. Enter the TCP/IP address or DNS name for the internal interface to use to communicate with the integration server (Gentran Integration Suite.). Press **Enter** to use a wildcard for this address.
- 11. Verify the TCP/IP address or DNS name for the internal interface.
- 12. Enter the TCP/IP address or DNS name for the external interface to use to communicate with trading partners. Press Enter to use a wildcard for this address.
- 13. Verify the TCP/IP address or DNS name for the external interface.
- 14. Enter the port that the perimeter server will listen on for the connection from integration server (Gentran Integration Suite). The port number must be higher than 1024.
- 15. Verify the port.

When the perimeter server is installed, the following message is displayed:

Installation of Perimeter Service is finished

16. Change to the installation directory.

- 17. Run the installPS.cmd command to install this perimeter server as a Windows Service.
- 18. Run the startPSService.cmd command to start the perimeter server.

Installing Patches in a Perimeter Server Non-Clustered Windows Environment

Remote perimeter servers are not automatically updated by a service pack or patch. You must reinstall the perimeter server using the new perimeter server installation file supplied with the service pack or patch.

To update a remote perimeter server in a non-clustered Windows environment:

- 1. Update your installation of Gentran Integration Suite 4.3 with the latest maintenance patch. Obtain the maintenance patch file from the Sterling Commerce Support on Demand Web site, at https://support.sterlingcommerce.com. These patch files have a name that identifies a build number. For example, si_43_build_4307.jar. For more information, refer to *Installing the Current Maintenance Patch in Windows (Non-Cluster)* on page 27.
- 2. Locate the perimeter server patch file (ps_version_number.jar file) in the install_dir\packages directory of your installation of Gentran Integration Suite 4.3. These patch files have a name that identifies a version number. For example, ps 2006.jar.
- 3. Copy the perimeter server patch file to the home directory or base directory on the remote server.
- 4. Stop the perimeter server using the stopPs.cmd command.
- 5. To begin the installation of the perimeter server patch file, type absolutePath\bin\java -jar ps_version_number.jar.
 - absolutePath is the directory name where the Java version is installed.
 - The program verifies the operating system and required patch level and the location and version of the JDK.
- 6. Type the full path to the installation directory of the perimeter server. If you do not want to change any settings for your perimeter server, specify the same directory where the remote perimeter server was originally installed.
- 7. At the prompt *There is an existing install at that location, update it while keeping existing settings?*, if you type **yes** and press **Enter**, the installation will proceed without additional entries.

Note: If you want to change any of the settings for your perimeter server, you must use a new directory, or delete the old installation before performing the new installation. You cannot overwrite an existing installation, and you cannot use an existing directory that does not contain a valid installation. The existing installation must be Gentran Integration Suite 4.3 or later.

When the updated perimeter server is installed, the following message is displayed:

Installation of Perimeter Service is finished

- 8. Change to the installation directory.
- 9. Run the startupPs.cmd command to start the perimeter server.

Starting and Stopping Perimeter Servers in Windows

To start a perimeter server in Windows, use the startPSService.cmd command, or use the Services Control Panel.

To stop a perimeter server in Windows, use the stopPSService.cmd command, or use the Services Control Panel. To remove this perimeter server's definition as a Windows Service, use the uninstallPSService.cmd command.

Reducing Perimeter Server Security Vulnerabilities

When Gentran Integration Suite is deployed with a remote perimeter server in a more secure network zone, there is a security vulnerability. An intruder may compromise the host where the proxy resides, and take over the persistent connection to the perimeter server residing in the more secure zone. If this happens, the perimeter server will relay all the intruder's network requests past the firewall into this internal zone.

To prevent an intrusion, limit the activities the remote perimeter server can perform on behalf of the proxy to specifically those activities that the proxy needs to do for its operation.

Control these limitations by a configuration residing in the secure network zone with the remote perimeter server, inaccessible by the proxy that could become compromised.

Granting Permissions for Specific Activities By a Perimeter Server

- 1. Install a remote perimeter server, choosing the option for a more secure network zone. Refer to the full perimeter server installation instructions, as described in *Installing a Perimeter Server in a More Secure Network (Windows Non-Clustered)* on page 32.
- 2. At the installation prompt *Is this server in a less secure network than the integration server?*, select **No**, which is the option for a more secure network zone.
- 3. In the perimeter server installation directory there will be a text file named restricted policy that must be customized. Its initial contents are:

```
// Standard extensions get all permissions by default grant codeBase
"file:${{java.ext.dirs}}/*" {permission java.security. AllPermission;};

grant {
    // Grant all permissions needed for basic operation.

    permission java.util.PropertyPermission "*", "read";

    permission java.security.SecurityPermission "putProviderProperty.*";

    permission java.io.FilePermission "-", "read,write";
    permission java.io.FilePermission ".", "read";

    // Needed to allow lookup of network interfaces.
    permission java.net.SocketPermission "*", "resolve";
};

grant {
    // Adjust for your local network requirements.
```

```
// Needed to connect out for the persistent connection. Do not remove this.
   permission java.net.SocketPermission "localhost:12002", "connect";
   // For each target FTP Server that a FTP Client Adapter will connect to in passive
mode
    // permission java.net.SocketPermission "ftphost:21", "connect"; // Control
connection.
   // permission java.net.SocketPermission "ftphost:lowPort-highPort", "connect"; //
Passive data connections.
   // For each target FTP Server that a FTP Client Adapter will connect to in active
mode.
    // permission java.net.SocketPermission "ftphost:21", "connect"; // Control
connection.
    // permission java.net.SocketPermission "localhost:lowPort-highPort", "listen";
// Active data port range.
    // permission java.net.SocketPermission "ftphost", "accept"; // Active data
connections.
    // For each target HTTP Server that an HTTP Client Adapter will connect to.
    // permission java.net.SocketPermission "htttphost:443", "connect";
    // For each target C:D snode that the C:D Server Adapter will connect to.
    // permission java.net.SocketPermission "snode:1364", "connect"
};
```

4. Edit this file to add permission lines for each back-end server that you intend to allow the proxy to access. There are commented out examples for each type of server.

The first two grant sections are required for correct perimeter server operation. Do not modify these sections.

Example

The following example grants permission to a target FTP Server:

Note: In the example, servers are configured to listen on the following ports: 33001 (for FTP), 33002 (for HTTP), and 1364 (for C:D). These port numbers can be edited.

```
//
  // permission java.net.SocketPermission "10.117.15.87:33002", "connect";
  // 10.117.15.87 indicates IP of the HTTP Server for which the permission is granted
by PS for communicating with client //

  // For each target C:D snode
  //
  // permission java.net.SocketPermission "snode:1364", "connect";
  // 10.117.15.87 indicates IP of the Connect Direct Node for which the permission
is granted by PS for communication //
```

- 5. Turn on restrictions. In the install directory is the perimeter server settings file:
 - remote_perimeter.properties.
 - Edit it to change the "restricted" setting to a value of true.
- 6. In the future, any attempt by the perimeter server to access disallowed network resources will be rejected and logged in the perimeter server log written to the perimeter server installation directory.

Performing DNS Lookup on Remote Perimeter Server

By default, a perimeter server performs DNS lookup in the main server JVM. If you have limited DNS in your secure area, you can configure the remote perimeter server to look up trading partner addresses in the DMZ.

To enable DNS lookup to occur at the remote perimeter server, edit the perimeter properties file to change the following parameter:

Note: Do not edit the properties files. Make all the changes in the customer_overrides.properties file.

Property Name	Description	
<pre><psname>.forceRemote DNS</psname></pre>	e Enables remote DNS resolution for the perimeter server, where <pre>psname</pre> is the name of the perimeter server. Valid values:	
	 true - enable remote DNS resolution 	
	◆ false - disable remote DNS resolution	

Postinstallation in a Non-Clustered Windows Environment

After installing Gentran Integration Suite, you should complete the following tasks:

- ◆ Starting Gentran Integration Suite in Windows on page 39
- ◆ Accessing Gentran Integration Suite on page 39
- ♦ Validating the Installation on page 40
- ♦ Downloading Gentran Integration Suite Tools on page 41
- ◆ Performing Initial Administrative Setups in Gentran Integration Suite on page 41
- ◆ Stopping Gentran Integration Suite on page 41

Starting Gentran Integration Suite in Windows

To start Gentran Integration Suite in a non-clustered Windows environment, double-click the Gentran Integration Suite icon on your Windows desktop. Gentran Integration Suite starts running.

Note: It may take several minutes for Gentran Integration Suite components to initialize and start up.

If Gentran Integration Suite does not start or if you receive a message about an invalid or corrupt license file, go to the *Troubleshooting: Windows Environment* section.

When startup is finished, a message like the following is displayed:

Open your Web browser to http://host:port/(interface), where host:port is the host and port number where Gentran Integration Suite resides on your system, and (interface) is the interface used by Gentran Integration Suite (for example, admin or dashboard).

Make a note of the URL address so you can access Gentran Integration Suite later.

Accessing Gentran Integration Suite

To log in to Gentran Integration Suite the first time, follow these steps:

- 1. Be sure that Gentran Integration Suite is started and running.
- 2. Open a browser window and enter the address displayed at the end of startup.
- 3. The login page for Gentran Integration Suite displays.
- 4. Type the default user ID (**admin**) and password (**password**). The default login is at an administrative level. One of your first tasks as an administrator is to change the administrative password and to register other users with other levels of permission.

Technical Note: Changes to Network Interface Bindings

To increase the security of the Administrator Console user interface, Gentran Integration Suite version 4.3 binds only to specific network interfaces. By default, previous versions had been bound to all network interfaces. After installing, if the URL for Gentran Integration Suite returns *Page cannot be displayed*, you can adjust property settings to correct the problem.

- 1. On the server where Gentran Integration Suite resides, edit the noapp.properties.in file.
 - a. Locate the **admin_host** parameter. The default settings are as follows:

hostname1 is the name of primary network interface, the one given highest priority by Gentran Integration Suite.

localhost is the name of the network interface on the server where Gentran Integration Suite resides.

Default entries

```
admin_host.1 = hostname1
admin_host.2 = localhost
```

b. Correct the parameters.

If no interface is being displayed, edit *hostname1* so that it correctly identifies the primary network interface that accesses Gentran Integration Suite.

If an additional network interface needs to access Gentran Integration Suite, add an additional *admin_host* entry, as shown below.

Edited entries

```
admin_host.1 = hostname1
admin_host.2 = localhost
admin host.3 = hostname2
```

- 2. Stop Gentran Integration Suite.
- 3. Run the setupfiles.cmd utility located in the *install dir*\bin directory.
- 4. Restart Gentran Integration Suite.

For the Dashboard user interface, Gentran Integration Suite version 4.3 provides unrestricted binding to network interfaces through the perimeter server. To restrict access to the Dashboard user interface, you can adjust property settings so that only one network interface accesses Gentran Integration Suite.

- 1. On the server where Gentran Integration Suite resides, edit the perimeter.properties.in file.
 - a. Locate the **localmode.interface** parameter. The default setting is unrestricted, as shown below.

```
Unrestricted Setting (Default)
```

```
localmode.interface=*
```

b. To restrict access to the Dashboard, enter the network interface that you want Gentran Integration Suite to support.

Restricted Setting

```
localmode.interface=hostname1
```

- 2. Stop Gentran Integration Suite.
- 3. Run the setupfiles.cmd utility located in the *install dir*\bin directory.
- 4. Restart Gentran Integration Suite.

Validating the Installation

After you install, start, and log in to Gentran Integration Suite the first time, you can validate the installation by testing a sample business process. Follow these steps:

- 1. Open a browser window and enter the address for Gentran Integration Suite. This address was displayed at the end of startup.
- 2. Enter your user login and password.
- 3. From the **Administration** menu, select **Business Processes** > **Manager**.
- 4. In the Process Name field, type **Validation_Sample_BPML** and click **Go!**
- 5. Click execution manager.
- 6. Click **execute**.

7. Click **Go!** You see the *Status: Success* message in the upper left side of the page.

Downloading Gentran Integration Suite Tools

Gentran Integration Suite includes tools that run on a desktop or personal computer. After you install, start, and access Gentran Integration Suite, you can install the following tools by downloading them from within Gentran Integration Suite:

Note: MESA Developer Studio and Reporting Services are optional features that are purchased separately from Gentran Integration Suite. These features each require a separate license in addition to your license for Gentran Integration Suite.

- ◆ Map Editor and associated standards
- ♦ Graphical Process Modeler
- ♦ Web Template Designer
- ♦ (If licensed) MESA Developer Studio plug-ins, including:
 - MESA Developer Studio Software Development Kit (SDK)
 - MESA Developer Studio Skin Editor
- ♦ (If licensed) Reporting Services, which requires MESA Developer Studio if you want to use the plug-ins to create fact models and custom reports.

Conflicting IP addresses can cause problems when you download a desktop tool. See the *Troubleshooting: Windows Environment* section.

Performing Initial Administrative Setups in Gentran Integration Suite

At this point, your installation is complete, and you can run Gentran Integration Suite. If you are installing Gentran Integration Suite for the first time, you need to perform some initial administrative setups before users can use Gentran Integration Suite. For example, the system administrator for Gentran Integration Suite must register users and grant permissions.

Also, it is recommended that you run several performance reports so that benchmarks are established for tuning the system in the future. For more information about preparing your Gentran Integration Suite system for effective performance tuning, refer to the performance tuning methodology information in the *Performance and Tuning Guide*.

Stopping Gentran Integration Suite

To stop Gentran Integration Suite in a non-clustered Windows environment, follow these steps:

- 1. Open Gentran Integration Suite.
- 2. From the **Administration** menu, select **Operations > System > Troubleshooter**.
- 3. Click **Stop the System** and wait for shutdown to complete.

Uninstalling Gentran Integration Suite from a Non-Clustered Windows Environment

When you uninstall Gentran Integration Suite, the following components are affected:

- ◆ Gentran Integration Suite application is automatically removed from the server.
- ◆ The MySQL database is automatically removed from the server (if you are using MySQL).

Additionally, you may perform the following tasks:

- ◆ Manually remove the JDK that was installed
- ◆ Manually remove any desktop tools that were downloaded
- ◆ Free any database space in Oracle or SQL Server databases

Note: This uninstallation procedure applies to Gentran Integration Suite 4.3, and not the version of Gentran Integration Suite from which you are upgrading.

To uninstall Gentran Integration Suite from a Windows environment, follow these steps:

- 1. Stop Gentran Integration Suite and wait for shutdown to complete.
- 2. Navigate to the *install_dir*\bin directory.
- 3. Run the uninstallWindowsService.cmd command to remove the following Windows services:
 - Gentran Integration Suite
 - Opsserver
 - Noapp server
 - WebDay server
 - MySQL server

You should receive a message stating that the services were successfully removed. To verify their removal, open the Services window:

- a. Select Start > Settings > Control Panel > Administrative Tools (Windows 2000) or Start > Administrative Tools (Windows 2003).
- b. Click Services.

If the services were not removed, you must delete them from the Windows registry:

- a. Go to the Windows registry.
- b. Locate HK_LOCAL_MACHINE\System\Current Control Set\Services.
- c. Delete the keys for Gentran Integration Suite and Opsserver. These registry keys start with Gentran Integration Suite.
- d. Reboot to apply the registry changes.

- 4. If the JDK is not being used by another application, remove it.
 - a. Select Start > Settings > Control Panel (Windows 2000) or Start > Control Panel (Windows 2003).
 - b. Select Add/Remove Programs (Windows 2000) or Add or Remove Programs (Windows 2003).
 - c. Select **Java 2 SDK Runtime Environment Standard Edition v**<*version number>* and click **Remove**.
 - d. Select **Java 2 SDK Standard Edition v**<*version number>* and click **Remove**.
 - e. Close all windows and return to your desktop.
- 5. Remove the product installation folder from the Windows path:
 - a. In your Windows desktop, right-click My Computer.
 - b. Select **Properties**.
 - c. Click the **Advanced** tab.
 - d. Click Environment Variables.
 - e. In the System variables window, select **Path**.
 - f. Click Edit.

The system displays the Edit System Variable dialog box.

g. Delete the following entries located in Variable Value.

```
<install_dir>\SI\lib\jnipass\1_0\windows;
```

<install_dir>\mysql2\SI\packages\lib\jni;

<install_dir>\mysql2\SI\packages\lib\jni\windows2000

- h. Click OK.
- i. Close all windows to return to your desktop.
- 6. Delete the folder where Gentran Integration Suite was installed, including all subfolders. For example, delete *C:\SterlingCommerce* and its subfolders.
- 7. If you use an Oracle or SQL Server database, these remain intact even after you remove Gentran Integration Suite from the server. If you no longer want to reference the data, contact your database administrator about removing the unwanted tables and recovering the database space where Gentran Integration Suite resided.
- 8. After you remove Gentran Integration Suite from the server, you can remove Eclipse and any tools that were downloaded to the desktop:

Note: You can remove Eclipse plug-ins without removing Eclipse. Refer to the Eclipse on-line help for information about removing the plug-ins.

Note: MESA Developer Studio and Reporting Services are optional features that are purchased separately from Gentran Integration Suite. These features each require a separate license in addition to your license for Gentran Integration Suite.

Map Editor and associated standards

Refer to the *Map Editor Guide* for information about removing the Map Editor.

Graphical Process Modeler

Refer to the *Graphical Process Modeler Guide* for information about removing the Graphical Process Modeler.

Web Template Designer

Refer to the Web Extensions Guide for information about removing the Web Template Designer.

• (If licensed) MESA Developer Studio plug-ins, including the Software Development Kit (SDK) and Skin Editor.

To remove these items, follow this procedure:

- a. Using Windows Explorer, locate the installation directory of Eclipse (For example, C:\Program Files\eclipse).
- b. Navigate to the features directory and delete the folders for anything from Sterling Commerce, gisstudio, skineditor, and servicesdk.
- c. Navigate to the plugins directory and delete the folders for anything from Sterling Commerce, gisstudio, skineditor, and servicesdk.
- (If licensed) Reporting Services, which requires MESA Developer Studio if you want to use the plug-ins to create fact models and custom reports.

Troubleshooting: Windows Non-Clustered Environment

Situation	Message or Symptom	Explanation/Resolution
Installing	You encounter errors or problems during installation.	Explanation
		Installation creates two log files, one for the first (bootstrap) phase and a second for the actual installation phase.
		Resolution
		Examine the log files generated during installation:
		 install_dir\bootstrap.log
		install_dir\SI\installSI.log
Installing	During installation, you select the destination directory and the installation program stops running.	Explanation
		The command window was closed after you selected the destination directory.
		Resolution
		Delete the destination directory and re-start the installation process. Do not close the command window.
Installing	You started the installation program but realize that the license file has not been downloaded.	Resolution
		Minimize the installation window, obtain the license file, and then continue with the installation procedure.
		then continue with the installation procedure.

Situation	Message or Symptom	Explanation/Resolution
Installing	During installation, you identify the initial port number and then see the message: Port number is already in use.	Resolution Choose one: Use a different port number. Stop the service that is using the port number that you want to use.
Installing	During installation, you enter database information and see the message: Information is incorrect.	Explanation One or more of the criteria for the database is incorrect. Resolution Click Back to redisplay the dialog box that asks for the database information. Correct the error and click Next.
Installing	Installation appears to complete successfully, but Gentran Integration Suite services are not installed.	You may have reinstalled Gentran Integration Suite on a Windows server and chosen the same initial port. Resolution If this is the case, either reinstall Gentran Integration Suite in a different directory using a different port, or follow the steps below to uninstall the existing Gentran Integration Suite services prior to reinstalling Gentran Integration Suite. 1 Navigate to the install_dir\bin directory. 2 Run the stopWindowsService.cmd command and wait for all Gentran Integration Suite Windows services to stop. 3 Run the uninstallWindowsService.cmd command and log off. This cleanly removes the old Windows services from Windows cache and verifies that there are no scheduled jobs running in the background. 4 Delete the install_dir directory. 5 You can now install the new version of Gentran Integration Suite at the same port.
Installing	After installing Gentran Integration Suite, a gisInstall.* subdirectory is left in the current working directory. This can cause the file system to become full.	Explanation The Java installer is not allowed to delete the gisInstall.*/platform_core_2000.jar because it is "in use" by the JVM. Resolution Manually delete the leftover gisInstall.* subdirectory on Windows after each installation attempt.
Starting	If Gentran Integration Suite does not start, examine the log file in <install_dir>\S/Vogs for an invalid or corrupt license file.</install_dir>	Resolution Obtain the license file. Then restart Gentran Integration Suite.

Situation	Message or Symptom	Explanation/Resolution
Installing a desktop tool or resource	Cannot download any of the following: Note: MESA Developer Studio and Reporting Services are optional features that are purchased separately from Gentran Integration Suite. These features each require a separate license in addition to your license for Gentran Integration Suite. Map Editor and associated standards Graphical Process Modeler Web Template Designer (If licensed) MESA Developer Studio plug-ins (Software Development Kit (SDK), Skin Editor) (If licensed) Reporting Services, which requires MESA Developer Studio if you want to use the plug-ins to create fact models and	Explanation When you install Gentran Integration Suite, system files are created that contain an internal IP address. If you install Gentran Integration Suite behind a firewall, and your firewall is configured to accept an external IP address from a client computer, you may not be able to download the desktop tools and resources. The firewall will reject the IP address from a client residing outside of the firewall. Resolution Modify the system files that contain the invalid IP address. Follow these steps: 1 Navigate to the install_dir\bin directory. 2 Enter the following command followed by the external IP address: patchJNLP.cmd external_IP address 3 Stop Gentran Integration Suite. 4 Restart Gentran Integration Suite.
Accessing	custom reports. Attempts to access the URL for Gentran Integration Suite display the message: Page cannot be displayed.	See Technical Note: Changes to Network Interface Bindings on page 39.

Post-Upgrade Processes

Adding Third-Party Libraries

If you added third-party libraries to configure adapters for the previous release, you need to add each of the libraries again after you complete the upgrade process for release 4.3. See the documentation for each third party adapter you use.

Configuring Services and Adapters

You may need to reconfigure services and adapters after an upgrade. During an upgrade, packages for services and adapters are reprocessed to update the service configurations.

After an upgrade, the configurations of default adapters and services are re-set to their default configurations. This includes directory paths, which are restored to their default paths. You need to reconfigure those adapters and services, which include, but are not limited to:

- ◆ All default FTP adapters
- ◆ All default SFTP adapters
- ♦ OdetteFTP Adapter
- ◆ SAP Suite Adapter
- ♦ SWIFTNet Client Service
- ♦ SWIFTNet Server Adapter

If you modified the standard configuration for a service or adapter, you may need to reconfigure or reactivate the service or adapter following an upgrade. You may also need to reconfigure adapters that used directories or scripts in the installation directory of your previous release.

Examples of services and adapters that commonly need to be reconfigured following an upgrade include:

- ◆ SyncEngine HTTP Server adapter
- ♦ Federation adapter
- ◆ FTP adapter
- ◆ System services, like the Alert service and the BP Fault Log adapter

These are just examples. Always check the configuration of your adapters following an upgrade.

The following adapters need special consideration following an upgrade:

- ♦ JDBC Adapter and Lightweight JDBC Adapter on page 48
- ♦ File System Adapter and Command Line2 Adapters on page 50

JDBC Adapter and Lightweight JDBC Adapter

Storage locations of the database pool properties that allow the JDBC adapter and the Lightweight JDBC adapter to communicate with your external database have been streamlined. The poolManager.properties file has been eliminated and some of its pool properties are now included in the jdbc.properties file, along with some new properties. You will need to manually update your existing jdbc_customer.properties.in file to add some new database pool properties. If you do not have a jdbc_customer.properties.in file, create one since customer.properties are not affected by product updates. The specific actions necessary depend on your current installation.

Upgrading from Gentran Integration Suite 3.0

If you are upgrading from version 3.0 and you used the JDBC adapter or the Lightweight JDBC adapter in that version, perform the following steps:

- 1. Save a copy of the jdbc.properties file and the poolManager.properties file from the earlier system. You will need any properties settings you customized for your external database.
- 2. Set up your Lightweight JDBC adapter or JDBC adapter according to the instructions in the *Lightweight JDBC Adapter* topic or the *JDBC Adapter* topic in Gentran Integration Suite Documentation site.

Upgrading from Gentran Integration Suite 3.1

If you are upgrading from version 3.1 and you used a jdbc_customer.properties.in file in that version, perform the following steps:

- 1. Copy the jdbc_customer.properties.in file from Gentran Integration Suite 3.1 installation to the <code>install_dir</code>\properties directory in Gentran Integration Suite 4.3 installation. You will edit this copied file in the following steps.
- 2. Open the *install_dir*\properties\jdbc_customer.properties.in file in a text editor.

3. Add the following properties:

Note: In the following property names, replace *databasePool* with the name of the pool.

Property	Description	
databasePool.factory	Always enter: com.sterlingcommerce.woodstock.util.frame.jdbc.ConnectionFactory.	
databasePool.behaviour	Sets the behavior that a connection pool exhibits when it runs out of connections. This property replaces the databasePool.onEmpty property in the former poolManager.properties file. Valid values:	
	 0-The pool returns, indicating to the software to abort its current action and try again later. This value corresponds to the value return in the databasePool.onEmpty property. 	
	◆ 1-The pool waits the number of milliseconds specified in databasePool.waittime for a connection to be returned before indicating to the software to abort and try again. This value corresponds to the value wait in the databasePool.onEmpty property.	
	◆ 2-The pool creates a buffered connection (a connection above the size specified in databasePool.maxsize). When using a setting of 2, the maximum number of connections for the pool is the value specified for databasePool.maxsize plus the value specified for databasePool.buffersize connections. This allows connections to be created under heavy demand. This value corresponds to the value new in the databasePool.onEmpty property.	
databasePool.buffersize	Number of extra connections that the connection pool can create above the value specified for <i>databasePool.</i> maxsize to improve handling of unanticipated loads on the system. This property is only used if <i>databasePool.</i> behaviour is set to 2.	
databasePool.maxsize	Maximum size of the database pool. This property was previously contained in the poolManager.properties file.	
	This value must not exceed the value specified for the <i>databasePool.</i> maxconn parameter in the jdbc.properties file.	
databasePool.initsize	Initial size of the database pool. This property was previously contained in the poolManager.properties file.	
databasePool.waittime	Amount of time (in milliseconds) to wait for a connection to become available before indicating to the software to abort the current action and try again later. This property is only used if <code>databasePool.behaviour</code> is set to 1 .	

For more information, see the *Lightweight JDBC Adapter* topic or the *JDBC Adapter* topic in Gentran Integration Suite Documentation site.

- 4. Run the setupfiles.cmd utility located in the *install_dir*\bin directory of the Gentran Integration Suite installation directory.
- 5. Stop and restart Gentran Integration Suite to use the updated settings.

If you are upgrading from version 3.1 and you used the JDBC adapter or the Lightweight JDBC adapter but you did not use a jdbc_customer.properties.in file in that version, perform the following steps:

1. Save a copy of the jdbc.properties file and the poolManager.properties file from Gentran Integration Suite 3.1 installation. You will need any properties settings you customized for your external database.

2. Set up your Lightweight JDBC adapter or JDBC adapter according to the instructions in the *Lightweight JDBC Adapter* topic or the *JDBC Adapter* topic in Gentran Integration Suite Documentation site.

File System Adapter and Command Line2 Adapters

You must configure your File System and Command Line2 adapters before you remove the previous release directory. Reconfigure any File System and Command Line2 adapters that were configured to use directories or scripts in the installation directory for the previous Gentran Integration Suite release. Ensure that you create new directories and save scripts outside of the release 4.3 installation directory and edit each configuration to use the appropriate directories and scripts.

Note: Creating directories and saving scripts outside of the release 4.3 installation directory makes future upgrade processes easier.

Note: As of Gentran Integration Suite 4.3, the Command Line 2 adapter has replaced the Command Line adapter. To replace the Command Line adapter, follow the instructions in *Command Line Adapter* on page 50.

Command Line2 Adapter

If you are using the Command Line2 adapter and have located the CLA2Client.jar file anywhere other than the default location, you must replace it with the new version. For information about the default location and how to start the Command Line2 adapter, see the Command Line2 adapter information in the online Documentation site.

If you are upgrading to Gentran Integration Suite 4.3 from a version lower than 4.0.1 and are using the Command Line2 adapter, you must update the version of the CLA2Client.jar file with the CLA2Client.jar located in the <code>install_dir</code>\client\cmdline2 directory. If you installed the CLA2Client.jar file anywhere other than the default location, you must replace each copy of the file with the new version. If you only installed it in the default location, the update occurs automatically during the upgrade process.

Command Line Adapter

If you are upgrading to Gentran Integration Suite 4.3 from a version prior to 4.0 and are using the Command Line adapter, you must update the version of the CLAClient.jar file with the CLA2Client.jar located in the <code>install_dir</code>\client\cmdline2 directory. If you installed the CLAClient.jar file anywhere other than the default location, you must replace each copy of the file with the new version. If you only installed it in the default location, the update occurs automatically during the upgrade process.

Note: CLA instances are now pointing to the CLA2 Service definition. After importing old service instances of CLA onto Gentran Integration Suite 4.3, you need to reconfigure the imported CLA services to re-set the Remote Name and Remote Port service configuration parameters. For more information, refer to the documentation for the Command Line Adapter and Command Line2 Adapter.

Restoring Performance Tuning Configuration

To restore your original performance tuning configuration to the new release, Gentran Integration Suite provides the Performance Tuning Wizard. You use the wizard to re-enter the settings you saved earlier.

Note: Before completing this procedure, see *Final Upgrade Notes* on page 51.

To restore the performance tuning configuration:

- 1. From Gentran Integration Suite **Administration** menu, select **Operations** > **System** > **Performance** > **Tuning**.
- 2. Under Edit, click Go!
- 3. Complete the Performance Tuning Wizard, using the settings you obtained from the previous release.

Final Upgrade Notes

The upgrade is complete. At this point, you should download and apply the latest maintenance update from Support on Demand before using Gentran Integration Suite.

Note: The upgrade process enables services that might have been disabled before the upgrade. If you want to disable these services again, you must disable them in Gentran Integration Suite 4.3 after the upgrade process.

After you upgrade, do not use the previous release of Gentran Integration Suite. However, you should maintain your backup for future reference.

For additional information, see the following sections:

- ♦ Changes to Network Interface Bindings on page 51
- ♦ Advanced File Transfer Tab on page 53
- ◆ Reconfiguring Archive Settings on page 53
- ♦ Correcting Missing Manager IDs on page 53

Changes to Network Interface Bindings

To increase the security of the Administrator Console user interface, Gentran Integration Suite version 4.3 binds only to specific network interfaces. After upgrading, if the previous URL for Gentran Integration Suite returns *Page cannot be displayed*, you can adjust property settings to correct the problem.

1. On the server where Gentran Integration Suite resides, edit the noapp.properties.in file.

2. Locate the **admin_host** parameter. The default settings are as follows:

hostname1 is the name of primary network interface, the one given highest priority by Gentran Integration Suite.

localhost is the name of the network interface on the server where Gentran Integration Suite resides.

Default entries

```
admin_host.1 = hostname1
admin host.2 = localhost
```

- 3. Correct the parameters.
 - If no interface is being displayed, edit *hostname1* so that it correctly identifies the primary network interface that accesses Gentran Integration Suite.
 - If an additional network interface needs to access Gentran Integration Suite, add an additional *admin host* entry, as shown below.

Edited entries

```
admin_host.1 = hostname1
admin_host.2 = localhost
admin host.3 = hostname2
```

- 4. Stop Gentran Integration Suite.
- 5. Run the setupfiles.cmd utility located in the *install_dir*\bin directory.
- 6. Restart Gentran Integration Suite to use the updated settings.

For the Dashboard user interface, Gentran Integration Suite version 4.3 provides unrestricted binding to network interfaces through the perimeter server. To restrict access to the Dashboard user interface, you can adjust property settings so that only one network interface accesses Gentran Integration Suite.

- 1. On the server where Gentran Integration Suite resides, edit the perimeter properties in file.
- 2. Locate the **localmode.interface** parameter. The default setting is unrestricted, as shown below.

```
Unrestricted Setting (Default)
localmode.interface=*
```

3. To restrict access to the Dashboard, enter the network interface that you want Gentran Integration Suite to support.

Restricted Setting

```
localmode.interface=hostname1
```

- 4. Stop Gentran Integration Suite.
- 5. Run the setupfiles.cmd utility located in the *install_dir*\bin directory.
- 6. Restart Gentran Integration Suite to use the updated settings.

Advanced File Transfer Tab

The Advanced File Transfer tab in the Dashboard interface will not be enabled by default after an upgrade installation of Gentran Integration Suite 4.3. You will need to configure the Dashboard to enable the tab.

If you have a license for Advanced File Transfer, perform the following steps to add the Advanced File Transfer tab:

- 1. Log in as **Admin**.
- 2. Click Manage Layout.
- 3. Click Add Pane.
- 4. Enter the following name:
 Advanced File Transfer
- 5. Click **Apply**.
- 6. Click the link for the new **Advanced File Transfer** tab.
- 7. Click Add Portlet.
- 8. Select the Add box for **Advanced File Transfer Management**.
- 9. Click Apply.
- 10. Select Clear Borders and Title from the Decoration menu.
- 11. Click Apply.
- 12. Click Save and Apply.

Reconfiguring Archive Settings

The upgrade does not automatically reconfigure the archive configuration. You must reconfigure the Backup Directory setting in Archive Manager after an upgrade.

To reconfigure your Archive settings, use the following procedure:

- 1. From the Administration menu, choose **Operations** > **Archive Manager**.
- 2. Under Configure Archive Settings, click Go!
- 3. If a message displays about the UI Lock, click **OK** to continue.
- 4. Click Next.
- 5. Update the Backup Directory field with the correct path information:
- 6. Click Save.
- 7. Confirm the settings and click **Finish**.

Correcting Missing Manager IDs

If you created a Manager ID with no corresponding User ID in your previous version of Gentran Integration Suite, the Manager ID may be missing after upgrading to Gentran Integration Suite 4.3. If this occurs, create a user in the system with a User ID that matches the missing Manager ID.

Accessing User Documentation for Gentran Integration Suite

The user documentation is available via an online documentation site on the Web. Providing the documentation in an online environment allows for frequent updates of content based on user feedback and usability.

We also understand the need for a printed copy of documentation. You can print topics of information using your Internet browser, or you can download documents in PDF format. You also have the option to request a documentation CD.

Using the Online Documentation

The documentation for Gentran Integration Suite is located on the Sterling Commerce Documentation web site. You can type a word or phrase and search the entire library for information. Or you can move through a hierarchy of contents pages to identify the topic you want. After you find the topic you want, you can read it online or print it using your browser's Print function.

To access the Documentation site, from within Gentran Integration Suite or one of its tools, select the Help

icon. (Note that the application must reside on a computer that supports Internet access and an Internet browser.)

You can also access the Documentation site by opening your Internet browser and typing the following URL:

http://www.sterlingcommerce.com/Documentation/GIS43/homepage.htm

Documentation Available in PDF Format

The online documentation includes documents in PDF format that you can download. To download PDF documents, click the *Documentation in PDF Format* link from the main online documentation page.

Requesting a Documentation CD

You can request a CD that contains all the documentation found on the Documentation site. To submit a request, go to the following URL:

http://support.sterlingcommerce.com/forms/Gentran GIS UpgradeRequest.aspx

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