Setup Checklist - iSeries Preinstallation

This document contains information to assist you when planning to install Gentran Integration Suite in an iSeries environment.

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

✦ The first character must be alphabetic or one of the following: $, @, or #

✦ The remaining characters may be alphanumeric or one of the following: $, @, #, _ or .

✦ Do not use spaces or apostrophes.

You may want to make a copy of the following checklist and use it to do the following:

✦ Set up your system and verify that it is ready for an installation (Steps 1-6).

✦ Record the information that you will need during the installation (Steps 7-18).

Step	Description	Your Notes
1	Verify that your system meets the hardware and software requirements specified for this release. See *Checking System Requirements* on page 3.	
2	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.	
3	Verify that all client computers are using Microsoft Internet Explorer 5.x or later.	
4	Configure the system to view Gentran Integration Suite files using Windows Explorer. See *Configuring the System to View Files* on page 5.	
5	Map a network drive to your working directory. See *Mapping a Network Drive* on page 5.	
6	Specify the QCCSID (Coded Character Set) under which Gentran Integration Suite will run. See *Specifying the QCCSID* on page 5.	
7	Determine and record the collection name for the database. See *Preparing the Database* on page 6.	
8	Determine and record the passphrase you want to use for Gentran Integration Suite system. During installation, you are prompted twice to enter the passphrase, which is not displayed when you type it.	

Step	Description	Your Notes
9	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. ◆ The SMTP Server IP address used for sending alert messages.	
10	Determine and record the initial port number to be used by Gentran Integration Suite. See *Determining Port Numbers* on page 4.	
11	Determine and record the catalog name for the database. See *Preparing the Database* on page 6.	
12	Determine the Host IP address for Gentran Integration Suite. This is required even if you only have one IP address for your system. To find the IP Address of your system: ◆ Key in `WRKTCPSTS *IFC` ◆ Locate and record the IP address to use for Gentran Integration Suite.	
13	Create Gentran Integration Suite user profile and its associated password. Be sure to record the user password so you can enter it during installation. The user password is not displayed when you enter it. See *Creating a Gentran Integration Suite User Profile* on page 5.	
14	Determine and record the absolute path to Gentran Integration Suite jar file. The jar file can reside in any directory on your system. During installation, you use this directory, but this is not the final directory where Gentran Integration Suite resides. **Note:** Do not place the Gentran Integration Suite jar file in the root directory. It must reside under a directory other than the root directory. For example, /*install_dir*/xxx.jar	
15	Record the directory in which you want to install Gentran Integration Suite. Gentran Integration Suite installation directory must be a new directory and cannot already exist. A large subdirectory tree will be created under this directory. During installation, this directory is referred to as the *<install_dir>*.	
16	Obtain the license file and record the absolute path to the license file. See *Obtaining a License File* on page 6.	

Step	Description	Your Notes
17	Obtain the JCE distribution file and record the absolute path to the zipped file. See *Downloading the JCE Distribution File* on page 4.	
18	Determine whether Gentran Integration Suite is using an application server (JBoss™, WebLogic® or WebSphere®). Gentran Integration Suite 4.3 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 Gentran Integration Suite 4.3 by using the Gentran Integration Suite EJB Adapter. This does not represent a WebLogic server for deploying the Application Console.	

Note: Gentran Integration Suite installation program will automatically set the umask to 002 during the installation. However, iSeries system administrators should consider placing an appropriate umask command such as umask 002 in their global or user login script because the default of 000 could allow many IFS files to be world-writable. Please consult the IBM iSeries Information Center for more information on umask and customizing your Qshell environment.

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.

Downloading the JCE Distribution File

The Java Cryptography Extension (JCE) is a set of Java packages from IBM 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 IBM JDK 1.5:

1. Open your browser and navigate to
    https://www14.software.ibm.com/webapp/iwm/web/reg/pick.do?source=jcesdk.

2. Enter your IBM ID and password. If you do not have an IBM ID, follow the IBM registration instructions provided on the Sign In page.

3. Click **Submit**.

4. Select *Unrestricted JCE Policy files for SDK 1.4.2* and click **Continue**.

    Note: The Unrestricted JCE Policy files for the 1.4.2 SDK are also used for the 1.5.0 SDK.

5. Review your personal information and the license agreement.

    Select **I agree** and click **I confirm** to continue.

6. Download the unrestrict142.zip file to your system.

7. 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. To specify a port number, follow these guidelines:

✦ Gentran Integration Suite requires a range of 150-200 consecutive open ports between 10000 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 around 200. 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 10300 are not used by any other application on your system.

After your installation, refer to *install_dir*/properties/sandbox.cfg for all of the port assignments. In an iSeries environment, you can also view the port numbers currently in use on your system using one of these methods:

✦ Select from the **iSeries Navigator Network > TCP/IP Configuration > Connections**.

✦ Enter **WRKTCPSTS** on an iSeries command line and select **Option 3 (Work with TCP/IP connection status)**. Press **F14** to sort the port numbers in numerical sequence.

✦ Enter **NETSTAT *CNN** on an iSeries command line and press **Enter**. Press **F14** to sort the port numbers in numerical sequence.

Configuring the System to View Files

In the iSeries environment, you must configure your system to view Gentran Integration Suite files using Windows Explorer. Use the NetServer component of OS/400 to set up file shares that are accessible through Windows networking. You must set up a file share to a working directory in your iSeries Integrated File System (IFS).

Mapping a Network Drive

In the iSeries environment, you must map a network drive to the working directory for Gentran Integration Suite. For more information, refer to the documentation on the IBM Web site.

Specifying the QCCSID

In the iSeries environment, you must specify the QCCSID (Coded Character Set) under which Gentran Integration Suite will run. Follow these steps:

1. From an iSeries command line, enter **DSPSYSVAL SYSVAL(QCCSID)**.

2. Is the QCCSID set to 65535?

   ◆ If **Yes**, then complete one of the following tasks:

   • Change the CCSID to a specific coded character set:

   – Enter **CHGSYSVAL SYSVAL(QCCSID) VALUE**(*xxx*), where *xxx* represents your coded character set.

   – IPL your iSeries.

   • Keep the QCCSID at 65535 and specify a specific CCSID other than 65535 when you create your Gentran Integration Suite user profile.

   Note: Refer to the IBM National Language Support Guide for valid coded character sets. It is recommended that you use the coded character set 037 for a US English system.

   ◆ If **No**, continue with the next preinstallation task.

Creating a Gentran Integration Suite User Profile

In the iSeries environment, you must create a user profile for accessing Gentran Integration Suite databases. Use this user profile when you submit the installation command and any function related to your Gentran Integration Suite system.

If your system value QCCSID is set to **65535**, then set the CCSID parameter to a specific coded character set other than 65535 on the CRTUSRPRF command. See the IBM National Language Support Guide for valid coded character sets. See your operating system documentation for more information about creating user profiles.

Note: The job description assigned to the user profile must have a job queue defined that allows at least eight active jobs (the maximum active must be set to at least **8**). If this parameter is defined less than stated, Gentran Integration Suite will not install/start correctly. This also applies to starting Gentran Integration Suite after installation.

Preparing the Database

In an iSeries environment, Gentran Integration Suite uses the DB2 database that is included in OS/400. The installation process creates a new collection for Gentran Integration Suite. Before you install, you must determine and record the collection name and the catalog name.

✦ The collection name is the name of the collection (or library) that contains the database, journal, and journal receiver for your Gentran Integration Suite system. This collection must not already exist.

✦ The catalog name is the database name of your iSeries system, as defined by the WRKRDBDIRE command. Generally, this value is the name of your system.

All database files are required to be journaled when being used by the translator in Gentran Integration Suite. If your application files are not currently journaled, and you plan to access these files through Gentran Integration Suite, please refer to the IBM manuals for instructions on journaling physical files.

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 you are upgrading, the Retrieve Registration dialog box appears and 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.