

Gentran Integration Suite™

System Requirements

Version 4.3



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Gentran Integration Suite 4.3

Gentran Integration Suite 4.3 System Requirements

When using these system requirements, make sure that you also have the preinstallation checklist for your platform (Windows, UNIX/Linux, iSeries). Checking system requirements is one item on these checklists. These checklists are available on the Gentran Integration Suite documentation Web site as part of the installation guide and as stand-alone documents.

System requirements for Gentran Integration Suite vary with your business needs and system environment. Contact your Gentran Integration Suite sales representative to help you evaluate performance and system usage requirements. Contributing factors include (but are not limited to) the following:

- Number of transactions processed.
- Amount of data being transferred.
- Whether you run Gentran Integration Suite with or without perimeter servers.
- Whether your environment is clustered (multiple node) or non-clustered (single node).

The following sections list the platforms and databases that are supported by Gentran Integration Suite:

- [Platforms](#) on page 4
- [Databases](#) on page 6

The following sections list minimum system requirements, and other information, needed to install and run Gentran Integration Suite on particular platforms:

- [UNIX/Linux Requirements](#) on page 7
- [Windows Requirements](#) on page 13
- [iSeries Requirements](#) on page 14

The following sections list additional information that is needed to install and run Gentran Integration Suite:

- [JCE Requirements \(All Platforms\)](#) on page 16
- [JDBC Driver Requirements \(All Databases\)](#) on page 17
- [Perimeter Server Requirements \(UNIX/Linux and Windows\)](#) on page 18
- [Internet Browser and Plugin Requirements \(All Platforms\)](#) on page 18
- [Map Editor and Graphical Process Modeler System Requirements](#) on page 18

For information on the history of changes for the *System Requirements*, refer to the topic [Change History](#) on page 19.

Note: Gentran Integration Suite supports ActiveMQ 5.0 for JMS (Java Message Service). Applying Gentran Integration Suite, Release 4.3 Build 4318 or later updates ActiveMQ to version 5.2.

Platforms

Gentran Integration Suite supports the UNIX/Linux, Windows and iSeries platforms. This topic covers the following supported platform versions:

- UNIX/Linux
- Windows
- iSeries

UNIX/Linux

Gentran Integration Suite supports the following UNIX/Linux platforms:

- HP-UX 11.11 (not supported by Sterling File Gateway)
- HP-UX 11i (11.23) (not supported by Sterling File Gateway)
- HP-UX 11.23 for IA64 (Itanium)
- HP-UX 11.31 (PA-RISC and Itanium)
- IBM AIX 5.2 (not supported by Sterling File Gateway)
- IBM AIX 5.3
- Sun Solaris 8 (SPARC only)
- Sun Solaris 9 (SPARC only)
- Sun Solaris 10 (SPARC only)
- Red Hat Enterprise Linux Release 3 (x64/x86 32-bit kernel only)
- Red Hat Enterprise Linux Release 4 (x64/x86 32-bit kernel only)
- SUSE Linux Enterprise Server 9 (x64/x86 32-bit kernel only)

Windows

Gentran Integration Suite supports the following Microsoft Windows platforms:

- Windows Server 2000 SP4 32-bit
- Windows Server 2003 Standard Edition (R1 or R2) SP1 32-bit
- Windows Server 2003 Standard Edition (R1 or R2) SP2 32-bit
- Windows Server 2003 Enterprise Edition (R1 or R2) SP1 32-bit
- Windows Server 2003 Enterprise Edition (R1 or R2) SP2 32-bit

iSeries

Gentran Integration Suite supports the following IBM iSeries platforms:

- i5/OS V5R3
- i5/OS V5R4

Virtualization Support

The following topics are explained under this topic:

- Virtualization Support for RISC Based Systems
- Virtualization Support for x86/x64 Based Systems
- Considerations for Both RISC and x86/x64 Architectures

Virtualization Support for RISC Based Systems

Operating system native clustering, partitioning or virtualization is supported for all RISC based platforms Gentran Integration Suite supports:

- AIX on P5 and above:
 - Partitioning/Virtualization – Power VM, LPAR, dLPAR
 - Clustering/Failover - HACMP
- HP-UX:
 - Partitioning/Virtualization - Resource Partitions
 - Clustering/Failover - MC/ServiceGuard
- Solaris:
 - Partitioning/Virtualization - Containers and Zones (local and global)
- IBM iSeries/System i:
 - Partitioning/Virtualization - Power VM LPARS

Note: Sterling Commerce does not support Linux or Windows on virtualized RISC machines. We advise caution when using virtualization to avoid configuration or operations that change the IP addresses used by Gentran Integration Suite. Note that the above mechanisms are supported generally and it does not imply that Sterling Commerce uses these virtualization mechanisms internally.

Virtualization Support for x86/x64 Based Systems

Sterling Commerce realizes that our customers use different virtualization mechanisms and will support them as long as the virtualization mechanism is supported by the operating system's vendor and the OS version used for hosting Gentran Integration Suite and related products falls in the supported matrix. Although it is not possible for us to maintain all possible combinations of virtualized platforms, we generally support all enterprise class virtualization mechanisms, such as VMware ESX™, VMware ESXi™, VMware vSphere™, Citrix Xen® Hypervisor, KVM (Kernel-based Virtual Machine), and Microsoft® Hyper-V™ Server.

Considerations for Both RISC and x86/x64 Architectures

Sterling Commerce will investigate and troubleshoot a problem until it is determined that the problem is due to virtualization. The following applies:

- If we suspect that a specific defect is happening because the system is virtualized and we cannot reproduce the problem on our non-virtualized environment, then we may request that you contact the vendor of the virtualization platform to get the issue resolved.
- In specific cases where we cannot reproduce the defect, we may request you to reproduce it on a non-virtualized environment and if the problem can still not be reproduced, then we may request that you contact the virtualization vendor for a resolution or switch to a non-virtualized platform.

- If you chose to use virtualization, you must balance the virtualization benefits against its performance impacts. Sterling Commerce does not provide advice regarding configuring, administering, or tuning virtualization platforms.

Databases

Gentran Integration Suite supports the following database versions:

Note: Gentran Integration Suite installed on a 32-bit architecture operating system supports a 64-bit architecture database if the database is installed on a separate machine.

Oracle	Oracle Database 9i Standard and Enterprise Editions, Release 2 (9.2.0.7 non-RAC through version 9.2.X.X) (not supported by Sterling File Gateway)
	Oracle Database 10g Standard and Enterprise Editions, Release 1 (10.1.0.4 non-RAC through version 10.X.X.X)
	Oracle Database 10g RAC Standard and Enterprise Editions, Release 1 and Release 2 (10.1.0.4 RAC through version 10.X.X.X)
	<p>Notes:</p> <ul style="list-style-type: none"> • Support for Oracle databases does not include support for the Oracle Exadata platform. • RAC refers to Real Application Clusters. For more information, refer to Oracle documentation. • Gentran Integration Suite 4.3 supports the use of database-level clustering when using Oracle 10g RAC or Microsoft SQL Server. Only your database vendor, however, can assist you in setting up a clustered database.
MySQL	MySQL 5.0.23 (bundled) (5.0.23 only)
DB2	DB2 (bundled with iSeries)
	DB2 8.2.3 through version 8.X.X (UNIX/Linux only)
	DB2 9.1.4 through version 9.1.x (UNIX/Linux only). Requires Gentran Integration Suite, Release 4.3 Build 4313 or later.
	<p>Note: If you upgrade DB2 database to version DB2 9.1.4 through version 9.1.x underneath an existing Gentran Integration Suite installation, you will see a DB driver warning every time Gentran Integration Suite is launched. You can safely ignore the warning.</p>
MS SQL Server	SQL Server 2000 SP4 Enterprise & Standard 32-bit and 64-bit (SP4 only)
	SQL Server 2005 Enterprise & Standard 32-bit and 64-bit (9.00.3152 through version 9.x.x)

UNIX/Linux Requirements

The topic covers the minimum system requirements and other information, needed to install and run Gentran Integration Suite on a UNIX/Linux platform:

- [UNIX/Linux Host System](#) on page 7
- [UNIX/Linux JDK Requirements](#) on page 7
- [Download UNIX/Linux JDKs](#) on page 11
- [Download the AIX JDK](#) on page 11
- [Download the Linux JDK](#) on page 12

UNIX/Linux Host System

This topic covers the UNIX/Linux host system requirements. At a minimum, the UNIX/Linux host system requires:

- 2 GB RAM
- 7 GB free disk space
- File descriptor size of 2048 or greater (preferred setting is unlimited)
- Additional resources are needed if you are:
 - Using MySQL database – An additional 1 GB RAM and an additional 2 GB free disk space.
 - Using other databases – See the documentation you received with the database server to determine the minimum system requirements.

Note: You can use a MySQL 5.0.23 database server with Gentran Integration Suite. This database is bundled with Gentran Integration Suite. Choosing this database during the installation procedure creates and configures it for you. MySQL is installed locally on the same server as Gentran Integration Suite and cannot be installed on a separate server.

- When using the Solaris server, Gentran Integration Suite runs only on SPARC-based Solaris servers. Gentran Integration Suite does not run on x86 (Intel)-based Solaris servers.
- When using the Red Hat or SUSE Linux server, Gentran Integration Suite runs only on x64/x86-based Linux servers.
- File system space will be needed if you use the option to store documents on the file system or if you use MySQL as your database. The amount of space needed will vary depending on the size of documents to be stored and the length of time you choose to retain documents on the file system.
- For perimeter server requirements, see [Perimeter Server Requirements \(UNIX/Linux and Windows\)](#) on page 18.

UNIX/Linux JDK Requirements

This topic covers the JDK requirements for installing Gentran Integration Suite and a perimeter server (if applicable) on UNIX/Linux platform.

The following table lists the UNIX/Linux JDK requirements. Follow these guidelines as you use this table:

- All JDKs are 32-bit except the JDK for HP-UX 11.23 for IA64 (Itanium), which is 64-bit.
- The two OS (operating system) columns indicate if the UNIX/Linux vendor supports a 32-bit or a 64-bit operating system. A 64-bit operating system can use a 32-bit JDK.

Note: JDK 5.0 and JDK 1.5.0 are both names for the same JDK. Version 5.0 is used in marketing, documentation and other written communication. When you download the JDK, it will be identified on the web page as Version 5.0. Version 1.5.0 is used in file names. The downloaded JDK file will use the name that appears in the JDK requirements table.

UNIX/Linux	JDK Requirements	32-Bit OS	64-Bit OS
Solaris 8 (SPARC only)	<ul style="list-style-type: none"> • Sun JDK 1.5.0_22 (Requires Gentran Integration Suite, Release 4.3 Build 4324 or later.) • Sun JDK 1.5.0_11-b03 <p>Minimum Solaris patch requirements are:</p> <ul style="list-style-type: none"> • 111111-06 • 108987-18 • 111310-01 • 108528-29 • 108989-02 • 112472-01 • 111308-05 • 112438-03 • 117000-05 • 110386-03 • 111023-03 • 115827-01 • 116602-01 • 113648-04 • 109147-42 • 111317-07 • 108993-63 • 119067-05 • 108434-22 • 108921-25 • 109326-18 • 117350-44 • 108435-22 • 108773-26 • 108940-76 	Not Supported	Yes
Solaris 9 (SPARC only)	<ul style="list-style-type: none"> • Sun JDK 1.5.0_22 (Requires Gentran Integration Suite, Release 4.3 Build 4324 or later.) • Sun JDK 1.5.0_11-b03 <p>Minimum Solaris patch requirements are:</p> <ul style="list-style-type: none"> • 113096-03 • 111711-16 • 111712-16 • 112963-29 • 112785-58 	Not Supported	Yes

UNIX/Linux	JDK Requirements	32-Bit OS	64-Bit OS
Solaris 10 (SPARC only)	<ul style="list-style-type: none"> • Sun JDK 1.5.0_22 (Requires Gentran Integration Suite, Release 4.3 Build 4324 or later.) • Sun JDK 1.5.0_11-b03 <p>Minimum Solaris patch requirements are:</p> <ul style="list-style-type: none"> • 120900-04 • 121133-02 • 119254-32 • 119578-30 • 118822-30 • 118833-24 • 118833-36 	Not Supported	Yes
AIX 5.2	<ul style="list-style-type: none"> • (For installation media used before June 10, 2008) IBM AIX build pap32devifx-20070725 (SR5a) • (For installation media used starting June 10, 2008) IBM AIX build pap32devifx-20071025a (SR6b) • IBM AIX build pap32dev-20090707 (SR10) <p>(Requires Gentran Integration Suite, Release 4.3 Build 4322 or later.)</p> <p>Minimum IBM maintenance level: 5200-09</p>	Not Supported	Yes
AIX 5.3	<ul style="list-style-type: none"> • (For installation media used before June 10, 2008) IBM AIX build pap32devifx-20070725 (SR5a) • (For installation media used starting June 10, 2008) IBM AIX build pap32devifx-20071025a (SR6b) • IBM AIX build pap32dev-20090707 (SR10) <p>(Requires Gentran Integration Suite, Release 4.3 Build 4322 or later.)</p> <p>Minimum IBM maintenance level: 5300-05</p>	Not Supported	Yes
HP-UX 11.11	<ul style="list-style-type: none"> • HP-UX JDK Build 1.5.0.19 (Requires Gentran Integration Suite, Release 4.3 Build 4324 or later.) • HP-UX JDK Build 1.5.0.08 • HP-UX JDK Build 1.5.0.12 (Requires Gentran Integration Suite, Release 4.3 Build 4322 or later.) <p>Patch requirements as determined by the HPjconfig utility.</p> <p>Kernel parameters as determined by the HPjconfig utility.</p>	Not Supported	Yes
HP-UX 11i (11.23)	<ul style="list-style-type: none"> • HP-UX JDK Build 1.5.0.19 (Requires Gentran Integration Suite, Release 4.3 Build 4324 or later.) 	Not Supported	Yes

UNIX/Linux	JDK Requirements	32-Bit OS	64-Bit OS
	<ul style="list-style-type: none"> • HP-UX JDK Build 1.5.0.08 • HP-UX JDK Build 1.5.0.12 (Requires Gentran Integration Suite, Release 4.3 Build 4322 or later.) Patch requirements as determined by the HPjconfig utility. Kernel parameters as determined by the HPjconfig utility.		
HP-UX 11.23 for IA64 (Itanium)	<ul style="list-style-type: none"> • HP-UX JDK Build 1.5.0.19 (Requires Gentran Integration Suite, Release 4.3 Build 4324 or later.) • HP-UX JDK Build 1.5.0.08 • HP-UX JDK Build 1.5.0.12 (Requires Gentran Integration Suite, Release 4.3 Build 4322 or later.) Patch requirements as determined by the HPjconfig utility. Kernel parameters as determined by the HPjconfig utility.	Not Supported	Yes
HP-UX 11.31 (PA-RISC and Itanium)	<ul style="list-style-type: none"> • HP-UX JDK Build 1.5.0.19 (Requires Gentran Integration Suite, Release 4.3 Build 4324 or later.) • HP-UX JDK Build 1.5.0.08 • HP-UX JDK Build 1.5.0.12 (Requires Gentran Integration Suite, Release 4.3 Build 4322 or later.) Patch requirements as determined by the HPjconfig utility. Kernel parameters as determined by the HPjconfig utility.	Not Supported	Yes
Red Hat Enterprise Linux Release 3 (x64/x86 32-bit kernel only)	<ul style="list-style-type: none"> • (For installation media used before June 10, 2008) IBM 1.5.0 build pxi32devifx-20070806 (SR5a) • (For installation media used starting June 10, 2008) IBM 1.5.0 build pxi32devifx-20071025 (SR6b) • IBM 1.5.0 build pxi32dev-20090707 (SR10) (Requires Gentran Integration Suite, Release 4.3 Build 4322 or later.) Minimum kernel version: 2.4.21-47.0.1.EL (32-bit only) Minimum glibc version: 2.3.2-95.44	Yes	No
Red Hat Enterprise Linux Release 4 (x64/x86 32-bit kernel only)	<ul style="list-style-type: none"> • (For installation media used before June 10, 2008) IBM 1.5.0 build pxi32devifx-20070806 (SR5a) • (For installation media used starting June 10, 2008) IBM 1.5.0 build pxi32devifx-20071025 (SR6b) • IBM 1.5.0 build pxi32dev-20090707 (SR10) (Requires Gentran Integration Suite, Release 4.3 Build 4322 or later.) 	Yes	No

UNIX/Linux	JDK Requirements	32-Bit OS	64-Bit OS
	Minimum kernel version:2.6.9-42.0.10.ELsmp (32-bit only) Minimum glibc version: 2.3.4-2.25		
SUSE Linux Enterprise Server 9 (x64/x86 32-bit kernel only)	<ul style="list-style-type: none"> • (For installation media used before June 10, 2008) IBM 1.5.0 build pxi32devifx-20070806 (SR5a) • (For installation media used starting June 10, 2008) IBM 1.5.0 build pxi32devifx-20071025 (SR6b) • IBM 1.5.0 build pxi32dev-20090707 (SR10) (Requires Gentran Integration Suite, Release 4.3 Build 4322 or later.) Minimum kernel version: 2.6.5-7.283 (32-bit only) Minimum glibc version: 2.3.3-98.73	Yes	No

Download UNIX/Linux JDKs

You can download JDK and related files from the following Web sites:

- Download all Sun JDK versions from <http://java.sun.com/products/archive>.
- Download patches for Solaris 8 (J2SE_Solaris_8_Recommended.zip), Solaris 9 (J2SE_Solaris_9_Recommended.zip), and Solaris 10 (J2SE_Solaris_10_Recommended.zip) from <http://sunsolve.sun.com/pub-cgi/show.pl?target=patches/JavaSE>.
- Download the HPjconfig tool for HP-UX systems from <http://www.hp.com/products1/unix/java/java2/hpjconfig/index.html>.
- Download AIX and Linux JDK versions using the instructions provided in the following topics:
 - [Download the AIX JDK](#) on page 11
 - [Download the Linux JDK](#) on page 12

Download the AIX JDK

This download procedure is for the IBM AIX build pap32devifx-20071025a (SR6b) JDK, which is used with installation media starting June 10, 2008.

To download the AIX JDK, perform the following tasks:

1. Go to the AIX download Web page at <http://www.ibm.com/developerworks/java/jdk/aix/service.html>.
2. Click the **Java 5 32-bit** link.
3. Sign in to the IBM Web site. The Downloads page appears.
4. Choose whether to download the JDK using either the IBM Download Director or http.
5. At the bottom of the page, under the **IBM 32-bit SDK for AIX, v5, GA base images (pap32dev-20051104)** section, select one of the following files (depending on your file format preference):

Note: This file is the latest package. You must download the GA package, and then apply the patch to the correct version.

- Java5.sdk.tar
 - Java5.sdk.tar.gz
6. Apply patch to the GA installation to get it up to SR6b by first going back to the main AIX download page (<http://www.ibm.com/developerworks/java/jdk/aix/service.html>).
 7. Under the **Java 5 32-bit** section, click the **Fix Info** link.
 8. Refer to the **Java 5 32-bit fixes since GA** table.

Find the following entry:

APAR #	Fullversion	Java5.sdk fileset level	Service refresh
IZ07645	pap32devifx-20071025a	5.0.0.160	SR6

9. Click the **SR6** link. The Packaging options page appears.
10. Select the download option.
11. Select your operating system level, using the level specified in the JDK requirements table.
12. Click **Continue**.
13. The Package results page appears, which list two files in the download package:
 - Java5.sdk.5.0.0.160
 - Java5.source.5.0.0.160
14. Download the files using one of the following methods:
 - Together using Java applet or FTP
 - Individually using HTTP or FTP
15. Install the GA image that you downloaded above.
16. Install the java5.sdk.5.0.0.160 patch file.
17. Once installed, check the java version by running the following command:

```
/usr/java5/bin/java -version
```

The result should show SR6b as the installed version.

Download the Linux JDK

This download procedure is for the IBM 1.5.0 build pxi32devifx-20071025 (SR6b) JDK, which is used with installation media starting June 10, 2008.

To download the Linux JDK, perform the following tasks:

1. Go to the Linux download Web page from [IBM Web site](#).
2. Sign in to the IBM web site. The Java 5 downloads page appears.
3. Under the **Offerings** section, select the following option:
IBM 32-bit SDK for Linux on Intel architecture, Java 2 Technology Edition, Version Java5 SR6
4. Click **Continue** at the bottom of the page.
5. Choose whether to download the JDK using either the IBM Download Director or http.

6. Under the SDK section, select one of the following files (depending on your file format preference):
 - (rpm format) `ibm-java2-i386-sdk-5.0-6.0.i386.rpm`
 - (tgz format) `ibm-java2-sdk-5.0-6.0-linux-i386.tgz`
7. Click **Download now**.
8. Install the file that you just downloaded.

Windows Requirements

The topic covers the minimum system requirements and other information, needed to install and run Gentran Integration Suite on a Windows platform:

- [Windows Client System](#) on page 13
- [Windows Server Host System](#) on page 13
- [Windows JDK Requirements](#) on page 14

Windows Client System

This topic covers the Windows client system requirements.

At a minimum, a Windows client system requires:

- CD-ROM drive
- Pentium® or equivalent processor
- 400 MHz processor speed
- Color VGA or SVGA monitor
- Microsoft Internet Explorer 5.x, 6.x, or 7.x only
- 256 MB RAM (1 GB is recommended for mapping clients with maps that have more than 20,000 objects)
- 1 GB free disk space
- Adobe Acrobat Reader 6.0 or later

Windows Server Host System

This topic covers the Windows server host system requirements.

At a minimum, a Windows Server host system requires:

- 2 GB RAM
- 7 GB free disk space
- Pentium III 1.3 GHz
- Additional resources are needed if you are:
 - Using MySQL database – An additional 1 GB RAM and an additional 2 GB free disk space.
 - Using other databases – Refer to the documentation you received with the database server to determine the minimum system requirements.

Note: You can use a MySQL 5.0.23 database server with Gentran Integration Suite. This database is bundled with Gentran Integration Suite. Choosing this database during the installation procedure creates and configures it for you. MySQL is installed locally on the same server as Gentran Integration Suite and cannot be installed on a separate server.

- File system space, if you use the option to store documents on the file system or if you use MySQL as your database. The amount of space needed will vary depending on the size of documents to be stored and the length of time you choose to retain documents on the file system.
- For perimeter server requirements, see *Perimeter Server Requirements (UNIX/Linux and Windows)* on page 18.

Note: Contact Microsoft for help installing Windows Server 2003 R1 and R2.

Windows JDK Requirements

This topic covers the JDK requirements for installing Gentran Integration Suite on a Windows platform.

The two OS (operating system) columns indicate if the Windows Server is a 32-bit or a 64-bit operating system.

Notes:

- JDK 5.0 and JDK 1.5.0 are both names for the same JDK. Version 5.0 is used in marketing, documentation and other written communication. When you download the JDK, it will be identified on the web page as Version 5.0. Version 1.5.0 is used in file names. The downloaded JDK file will use the name that appears in the JDK requirements table.
- Download all Sun JDK versions from <http://java.sun.com/products/archive>.

Windows Server	JDK Requirements	32-Bit OS	64-Bit OS
Windows Server 2000 SP4 (32-bit)	<ul style="list-style-type: none"> • Sun JDK 1.5.0_22 (Requires Gentran Integration Suite, Release 4.3 Build 4324 or later.) • Sun JDK 1.5.0_11 	Yes	No
<ul style="list-style-type: none"> • Windows Server 2003 Standard Edition (R1 or R2) SP1 32-bit • Windows Server 2003 Standard Edition (R1 or R2) SP2 32-bit 	<ul style="list-style-type: none"> • Sun JDK 1.5.0_22 (Requires Gentran Integration Suite, Release 4.3 Build 4324 or later.) • Sun JDK 1.5.0_11 	Yes	No
<ul style="list-style-type: none"> • Windows Server 2003 Enterprise Edition (R1 or R2) SP1 32-bit • Windows Server 2003 Enterprise Edition (R1 or R2) SP2 32-bit 	<ul style="list-style-type: none"> • Sun JDK 1.5.0_22 (Requires Gentran Integration Suite, Release 4.3 Build 4324 or later.) • Sun JDK 1.5.0_11 	Yes	No

iSeries Requirements

The topic covers the minimum system requirements and other information, needed to install and run Gentran Integration Suite on an iSeries platform:

Note: Gentran Integration Suite on iSeries uses the DB2 that is included in OS/400.

- *iSeries Hardware* on page 15
- *iSeries Software* on page 15
- *iSeries JDK Requirements* on page 16

iSeries Hardware

This topic covers the iSeries hardware requirements. These requirements are based on Gentran Integration Suite being the only application running on the system.

- CPU - 1000 CPW (POWER5 or newer processors recommended)
- 2 GB memory (in a private (non-shared) pool dedicated to Gentran Integration Suite)
- 20 GB DASD (Required for Gentran Integration Suite plus space for operating system, spool, utilities, and so on.)
- File system space will be needed if you are using the option to store documents on the file system. The amount of space needed will vary depending on the size of documents to be stored and the length of time you choose to retain documents on the file system.

iSeries Software

This topic covers the software requirements for running Gentran Integration Suite on iSeries platform.

The following table lists the minimum software requirements for the supported iSeries platforms:

iSeries System	iSeries Software
i5/OS V5R3	<ul style="list-style-type: none"> • 5722-SS1 OS/400 V5R3 (i5/OS V5R3) • 5722-SS1 Option 33 PASE (Portable Application Solutions Environment) • 5722-SS1 Option 43 Additional Fonts • 5722-SS1 Option 30 Qshell Interpreter • 5722-TC1 TCP/IP Connectivity Utilities • 5722-JV1 *BASE Developer Kit for Java • 5722-JV1 Option 7 Java Developer Kit 1.5 • 5722-AC3 *BASE Crypto Access Provider 128-bit • 5722-CE3 *BASE Client Encryption 128-bit • PTF Groups <ul style="list-style-type: none"> • SF99530 Level 7198 Cumulative PTF Package • SF99529 Level 129 Hipers • SF99503 Level 17 DB2 UDB • SF99269 Level 17 Java • Individual PTFs (or their superseding PTFs) <ul style="list-style-type: none"> • 5722999/MF35282 • 5722999/MF35841 • 5722999/MF36113 • 5722999/MF37157 • 5722SS1/SI12897 • 5722SS1/SI17308 • 5722SS1/SI18225 • 5722SS1/SI18276 • 5277SS1/SI18277 • 5722SS1/SI18637 • 5722JV1/SI17137

iSeries System	iSeries Software
i5/OS V5R4	<ul style="list-style-type: none"> • 5722-SS1 i5/OS V5R4 • 5722-SS1 Option 30 Qshell Interpreter • 5722-SS1 Option 33 PASE (Portable Application Solutions Environment) • 5722-SS1 Option 43 Additional Fonts • 5722-TC1 TCP/IP Connectivity Utilities • 5722-JV1 *BASE Developer Kit for Java • 5722-JV1 Option 7 Java Developer Kit 1.5 • 5722-XE1 *BASE IBM eServer iSeries Access for Windows • PTF Groups <ul style="list-style-type: none"> • SF99540 Level 7226 Cumulative PTF Package • SF99539 Level 54 Hipers • SF99504 Level 12 DB2 UDB • SF99291 Level 9 Java • Individual PTFs (or their superseding PTFs) <ul style="list-style-type: none"> • 5722JV1/SI22769

iSeries JDK Requirements

This topic covers the JDK requirements for installing Gentran Integration Suite on iSeries platform.

Note: The iSeries JDK is bundled with the operating system. You do not download the JDK from a web site. You can update the JDK through an operating system update.

iSeries Server	JDK Requirements
i5/OS V5R3	JDK 1.5 – (A minimum of Level 17 found in WRKPTFGRP - SF99269 L17) For more information, refer to the i5/OS V5R3 column in the topic iSeries Software on page 15.
i5/OS V5R4	JDK 1.5 – (A minimum of Level 9 found in WRKPTFGRP - SF99291 L9) For more information, refer to the i5/OS V5R4 column in the topic iSeries Software on page 15.

JCE Requirements (All Platforms)

The following table lists the JCE requirements for all platforms supported by Gentran Integration Suite:

Operating System	JDK	JCE
UNIX/Linux	Sun	jce_policy-1_5_0.zip (Sun)

Operating System	JDK	JCE
	IBM	unrestrict142.zip (IBM)
	HP-UX	jce_policy-1_5_0.zip (Sun)
Windows	All	jce_policy-1_5_0.zip (Sun)
iSeries	All	unrestrict142.zip (IBM)

JDBC Driver Requirements (All Databases)

This topic covers the JDBC driver information for all the databases supported by Gentran Integration Suite. The following table lists the JDBC drivers that are required with Gentran Integration Suite:

Supported Database Server	JDBC Driver
Oracle® Database 9i Standard and Enterprise Editions, Release 2 (9.2.0.7 non-RAC through version 9.2.X.X)	10.2.0.2/ojdbc14.jar
Oracle Database 10g Standard and Enterprise Editions, Release 1 (Oracle 10.1.0.4 through version 10.X.X.X)	10.2.0.2/ojdbc14.jar
Oracle Database 10g RAC Standard and Enterprise Editions, Release 1 and Release 2 (Oracle 10.1.0.4 RAC through version 10.X.X.X)	10.2.0.2/ojdbc14.jar
Microsoft SQL Server™ 2000 SP4 Enterprise and Standard Editions only (8.00.2039)	JDBC driver version 2.2.0040 (download mssqlserver.tar from Microsoft Web site)
Microsoft SQL Server™ 2005 Enterprise and Standard Editions	JDBC driver version 1.1.1501.200 through 1.1.1501.XXX (download sqljdbc.jar from Microsoft Web site)
DB2 8.2.3 through version 8.X.X (UNIX/Linux only)	JDBC Type-4 driver version 8.2.2 (internal driver version 2.7.58)
DB2 9.1.4 through version 9.1.x (UNIX/Linux only). Requires Gentran Integration Suite, Release 4.3 Build 4313 or later.	JDBC Type-4 driver version 9.1 (download appropriate driver from IBM Web site)
MySQL (server and driver bundled with Gentran Integration Suite)	mysql-connector-java-com-3.1.13-bin.jar

Perimeter Server Requirements (UNIX/Linux and Windows)

You can install and run perimeter servers in a UNIX/Linux or Windows Server environment.

- Perimeter servers can be co-resident with Gentran Integration Suite installations or can be installed on remote servers. To take full advantage of the security features of a perimeter server, it should be installed on a different computer than where Gentran Integration Suite is installed.
- Perimeter servers are supported on the same operating system and JDK combinations as Gentran Integration Suite. The operating system and JDK version that the perimeter server uses do not need to match the operating system and JDK version of Gentran Integration Suite.
- Refer to the JDK instructions for the operating system on which you are installing the perimeter server:
 - [UNIX/Linux JDK Requirements](#) on page 7
 - [Windows JDK Requirements](#) on page 14

In addition, each perimeter server requires the following minimum space and memory requirements:

- 100 MB disk space
- 1 GB memory

Internet Browser and Plugin Requirements (All Platforms)

This topic covers the Internet browser and plugin requirements.

The following table lists the requirements for the Internet browser and Java plugin:

Internet Browser	Operating System	JRE
Microsoft Windows Internet Explorer 5.x, 6.x, or 7.x only	Windows Server 2000 or Windows Server 2003	Java Plugin 1.5.0

Note: For better visibility of the menu options in the Application Consoles, ensure that the dpi setting is 96 dpi.

Map Editor and Graphical Process Modeler System Requirements

To run the Map Editor and Graphical Process Modeler (GPM), your Windows client system requires the following hardware and software:

- Pentium or equivalent processor
- 400 MHz processor speed
- Color VGA or SVGA monitor
- 256 MB RAM (1 GB is recommended for mapping clients with maps that have more than 20,000 objects)
- 1 GB free disk space
- To save your source map as an XML file (.mxml file extension), you must have the Microsoft XML Core Services (MSXML) 4.0 installed on the same computer as Map Editor. If you do not have Microsoft XML Core Services (MSXML) 4.0 installed, you cannot save source maps as .mxml files and must use the .map extension.

To run the Map Editor and GPM, your Windows system requires one of the following operating systems:

- Windows XP
- Windows Server 2003 Standard Edition
- Windows Server 2003 Enterprise Edition

Change History

The following table lists the changes made to this document on a particular date:

Date	Change
03/02/2011	Added the following Oracle database note: <ul style="list-style-type: none"> • Support for Oracle databases does not include support for the Oracle Exadata platform.
1/18/2011	Added support for the following : <ul style="list-style-type: none"> • Sun JDK 1.5.0_22 (Requires Gentran Integration Suite, Release 4.3 Build 4324 or later.) • HP_UX JDK 1.5.0.19 (Requires Gentran Integration Suite, Release 4.3 Build 4324 or later.)
06/21/2010	Added <i>Map Editor and Graphical Process Modeler System Requirements</i> section.
03/12/2010	Added <i>Virtualization Support</i> section.
02/08/2010	Added support for the following HP and IBM JDK versions: <ul style="list-style-type: none"> • HP-UX JDK Build 1.5.0.12 (Requires Gentran Integration Suite, Release 4.3 Build 4322 or later.) • IBM AIX build pap32dev-20090707 (SR10) (Requires Gentran Integration Suite, Release 4.3 Build 4322 or later.) • IBM 1.5.0 build pxi32dev-20090707 (SR10) (Requires Gentran Integration Suite, Release 4.3 Build 4322 or later.)
01/22/2010	Clarified that Gentran Integration Suite installed on a 32-bit architecture operating system supports a 64-bit architecture database if the database is installed on a separate machine.
10/26/2009	<ul style="list-style-type: none"> • Added support for SQL Server 64-bit database. • Added download URL for DB2 database JDBC drivers.
07/24/2009	<ul style="list-style-type: none"> • Clarified that Sterling File Gateway does not support Oracle Database 9i Standard and Enterprise Editions, Release 2 (9.2.0.7 non-RAC through version 9.2.X.X) • Clarified that Sterling File Gateway does not support the following platforms: <ul style="list-style-type: none"> • HP-UX 11.11 • HP-UX 11i (11.23) • IBM AIX 5.2
07/14/2009	Added support for VMware vSphere™.
05/30/2009	<ul style="list-style-type: none"> • Added support for HP-UX 11.31 (PA-RISC and Itanium). • Added support for Microsoft Internet Explorer 7.x.

Date	Change
04/24/2009	Applying Gentran Integration Suite, Release 4.3 build 4318 updates ActiveMQ to version 5.2.
02/27/2009	Added Sun JDK download link under Windows JDK Requirements.
01/08/2009	Updated JDBC driver requirement for Microsoft SQL Server™ 2005 Enterprise and Standard Editions.
11/14/2008	Added support for DB2 9.1.4 through version 9.1.x (Gentran Integration Suite, Release 4.3 Build 4313 or later)
10/10/2008	Updated Databases section on supporting database-level clustering information.
8/22/2008	Updated JDK requirements for Solaris 10 (SPARC only).
7/2/2008	<p>Clarified that JDK support for the following operating systems depends on whether customers are using installation media before June 10, 2008 or starting June 10, 2008:</p> <ul style="list-style-type: none"> • AIX 5.2 • AIX 5.3 • Red Hat Enterprise Linux Release 3 • Red Hat Enterprise Linux Release 4 • SUSE Linux Enterprise Server 9
6/27/2008	<ul style="list-style-type: none"> • Changed JDK requirement for AIX 5.2 and 5.3 from IBM AIX build pap32devifx-20070725 (SR5a) to IBM AIX build pap32devifx-20071025a (SR6b). • Changed JDK requirement for Red Hat Enterprise Linux Release 3, Red Hat Linux Release 4, and SUSE Linux Enterprise Server 9 from IBM 1.5.0 build pxi32devifx-20070806 (SR5a) to IBM 1.5.0 build pxi32devifx-20071025 (SR6b).
5/9/2008	<ul style="list-style-type: none"> • Changed JDK requirements for iSeries to make it easier for user to access and update the JDK (it is bundled with operating system and is not downloaded). - For i5/OS V5R3, changed "IBM build 1.5.0 (SF99269 L17)" to "JDK 1.5 – (A minimum of Level 17 found in WRKPTFGRP - SF99269 L17)".- For i5/OS V5R4, changed "IBM build 1.5.0_03-b07 (SF99291 L9)" to "JDK 1.5 - (A minimum of Level 9 found in WRKPTFGRP - SF99291 L9)". • Added support for Oracle 10g RAC Release 2. • Changed wording for Windows Server 2003 support so that it focuses on Service Pack (SP) level instead of R1 or R2 level. • Clarified that Microsoft Internet Explorer 5.x or 6.x is supported (and not 7.x).
4/11/2008	<ul style="list-style-type: none"> • Added note that clarifies IBM's support for VMware®. • Added support for Windows Server 2003 Standard Edition R2 SP2 and Windows Server 2003 Enterprise Edition R2 SP2.
3/28/2008	Clarified that Gentran Integration Suite runs only on x64/x86-based Red Hat or SUSE Linux servers.
3/14/2008	<ul style="list-style-type: none"> • Added support for Oracle Standard Edition databases, to go along with support for Oracle Enterprise Edition databases.

Date	Change
	<ul style="list-style-type: none"> • Changed support for Oracle 9i databases from “9.2.0.7 non-RAC through version 9.X.X.X” to “9.2.0.7 non-RAC through version 9.2.X.X”.
2/6/2008	<p>Removed UNIX/Linux and Windows platform/database matrices. Replaced this information with separate lists of supported platforms and databases.</p>
2/1/2008	<p>Clarified that Windows Server 2003 Standard Edition R2 and Windows Server 2003 Enterprise Edition R2 are supported at only SP1 level.</p>
1/11/2008	<p>Added special instructions for downloading the AIX and Linux JDK files.</p>
12/17/2007	<ul style="list-style-type: none"> • Added support for Windows Server 2003 Enterprise Edition R1 and Windows Server 2003 Standard Edition R1. • Added note that IBM does not provide customer support for problems related to virtual server environments like VMware®.
12/10/2007	<ul style="list-style-type: none"> • Added support for Microsoft SQL Server 2005 Enterprise and Standard Editions on clustered installations of Gentran Integration Suite running on Windows Server 2000 SP4, Windows Server 2003 Enterprise Edition R2, or Windows Server 2003 Standard Edition R2. • Removed reference to support for MySQL database on clustered installations of Gentran Integration Suite running on SUSE Linux Enterprise Server 9. • Clarified UNIX/Linux and Windows JDK Requirements tables about support for 32-bit and 64-bit operating systems, and about support for 32-bit and 64-bit JDKs. • Added table for JCE (Java Cryptography Extension) requirements. • Re-organized content so that users of a particular platform can go more directly to the information that they need. • Removed recommendation that user contact account representative for most up-to-date system requirements. This should lower number of customer calls to account representative. • Changed MySQL database disk space requirements from “1 GB RAM and 2 GB free disk space” to “An additional 1 GB RAM and an additional 2 GB free disk space”.
11/2/2007	<p>Changed all text reading “n/a” or “N/A” to “Not Supported”.</p>
10/17/2007	<ul style="list-style-type: none"> • Removed following line from Database JDBC Driver Requirements table: (UNIX/Linux only) DB2 8.2.3 through version 8.X.X JDBC Type-4 driver version 8.1.4a (internal driver version 1.5.54) • Removed <i>Application Servers Options</i> section. • Changed minimum free hard disk space for UNIX/Linux and Windows Host Systems from 5 to 7 GB. • Added following line to <i>UNIX/Linux Host System</i> section: Download AIX and Linux JDK versions from http://www-130.ibm.com/developerworks/java/ • Updated JDK versions for HP-UX servers from HP-UX JDK Build 1.5.0.06 to HP-UX JDK Build 1.5.0.08. • Updated JDK versions for Red Hat Enterprise Linux Release 3 (64-bit); Red Hat Enterprise Linux Release 4 (64-bit); and SUSE Linux Enterprise Server 9 from Sun JDK 1.5.0_11-b03 to IBM 1.5.0 build pxi32devifx-20070806 (SR5a). • Added support for Microsoft SQL Server 2005.

Date	Change
	<ul style="list-style-type: none"> • Updated JDK versions for i5/OS V5R3 server from IBM build 1.5.0 (SF99269 L13) to IBM build 1.5.0 (SF99269 L17). • Updated JDK versions for i5/OS V5R4 server from IBM build 1.5.0_03-b07 (SF99291 L5) to IBM build 1.5.0_03-b07 (SF99291 L9). • Updated different hardware and software requirements for iSeries. • Added download URL for JDBC drivers for Microsoft SQL Server 2000 and 2005 databases.
9/5/2007	<ul style="list-style-type: none"> • Removed “(non-partitioned only)” qualifier from Solaris 10. • Clarified that Gentran Integration Suite runs on only SPARC-based Solaris servers, and not on x86 (Intel)-based Solaris servers.
8/14/2007	Updated support for Windows Server 2003 from SP1 to R2.
8/13/2007	<p>Updated document with recent updates to Platform 2.0 System Requirements:</p> <ul style="list-style-type: none"> • Aligned system requirements with matrix.properties file by removing Solaris JDK patches 112003-03, 113886-40 and 113887-40 from Solaris 8 JDK requirements, and by removing Solaris JDK patches 113886-40 and 113887-40 from Solaris 9 JDK requirements. • Added support for 32-bit and 64-bit versions of IBM WebSphere 6.1.1.1, 32-bit and 64-bit versions of IBM WebSphere 6.1.1.1, and 64-bit versions of Red Hat Linux. • Changed support for MySQL 5.0.40 database server to just MySQL database server, with no version number.
8/10/2007	Updated iSeries host system requirements for OS/400 V5R3 systems and i5/OS V5R4 systems.
6/12/2007	<p>Added material from IBM Platform System Requirements, including:</p> <ul style="list-style-type: none"> • Updated database requirements. • Updated JDK requirements. • Application server options table. • Internet browser/Java plugin table.
3/29/2007	Clarified that both the ES and AS versions of Red Hat Enterprise Linux Release 3 and Red Hat Enterprise Linux Release 4 are supported.
1/24/2007	Added supported/certified database servers for SUSE Linux Enterprise Server 9 in a Gentran Integration Suite cluster.
1/12/2007	<ul style="list-style-type: none"> • Added JDK support for 2007 Daylight Savings Time changes. • Changed Oracle 9.2.0.6 to Oracle 9.2.0.7. • Changed DB2 8.1 fixpack 5 to DB2 8.1 fixpack 10. • Specified JDBC driver requirements for DB2 8.2.3 (UNIX, Linux) • Added JDBC driver requirements for DB2 8.1 Fixpack 5 (UNIX, Linux).
1/02/2007	<p>Updated support information for SQL Server 2000 SP4 Enterprise & Standard for the following operating systems:</p> <ul style="list-style-type: none"> • Red Hat Enterprise Linux ES Release 3 • Red Hat Enterprise Linux AS Release 4 • SUSE Linux Enterprise Server 9

Date	Change
12/13/2006	Added the following database server support information: <ul style="list-style-type: none"> • What database servers are supported by IBM. • What database servers are supported by IBM and also were tested during the development of Gentran Integration Suite release 4.2.
11/16/2006	Added support for SQL Server 2000 SP4 Enterprise & Standard to the following operating systems: <ul style="list-style-type: none"> • Red Hat Enterprise Linux ES Release 3 • Red Hat Enterprise Linux AS Release 4 • SUSE Linux Enterprise Server 9
10/26/2006	Removed section for zSeries host system, which IBM no longer supports.
9/29/2006	Added support for Solaris 10 platform (non-partitioned only).
7/10/2006	Removed AIX 5.1. AIX 5.1 is no longer supported by IBM, as of April 2006.
5/30/2006	Added the following iSeries requirements <ul style="list-style-type: none"> • 5722-AC3 *BASE Crypto Access Provider 128-bit • 5722-CE3 *BASE Client Encryption 128-bit • 5722-XE1 *BASE IBM eServer iSeries Access for Windows
5/30/2006	Added JDBC Driver Requirements.
5/24/2006	Added support for Red Hat Enterprise Linux AS Release 4.
3/31/2006	Added support for i5/OS V5R4 systems.
3/9/2006	<ul style="list-style-type: none"> • Added support for DB2 8.2.3. • In the Perimeter Server Requirements section, updated the JDK version numbers in the example.
11/1/2005	<ul style="list-style-type: none"> • SQL Server is no longer supported for the following cluster OS configurations: <ul style="list-style-type: none"> • - AIX 5.2 • - AIX 5.3 • - HP-UX 11i (11.23) • For the Windows Client, Adobe Acrobat Reader version 6 or later is required. • Added Oracle 10G and Red Hat 3.0. • Changed the following references for clarity: <ul style="list-style-type: none"> • Oracle 9.2.0.6 to Oracle 9i Database Enterprise Release 2 (9.2.0.6) • Oracle 10.1.0.4 to Oracle Database 10g Enterprise Edition Release 1 (10.1.0.4) • Added PTF 5722999/MF37157 to the iSeries V5R3 section. • Added instructions for downloading the most current JVM for Red Hat EL 3.0. • For Red Hat EL 3.0, added clustered DB Oracle 9.2.0.6 and 10.1.0.4. • Updated the PTF information for OS/400 V5R2 and V5R3 Systems. • Changed 'HP-UX Integrity (Itanium. IA64)' to 'HP-UX 11.23 for IA64 (Itanium)'

Date	Change
	<ul style="list-style-type: none">• Changed "Windows Server 2003 Enterprise Edition" to "Windows Server 2003 Enterprise Edition SP1"• Changed "Windows Server 2003 Standard Edition" to "Windows Server 2003 Standard Edition SP1"• In the Red Hat Enterprise section changed build cxia312420-20040626 to build cxia312420-20040626 (32-bit only)• In the SUSE Linux Enterprise Server 9 section changed build cxia312420-20040626 to build cxia312420-20040626 (32-bit only)• In the iSeries section changed 5722-JV1 Option 5 Java Developer Kit 1.3 to 1.4.• Removed SUSE Linux Enterprise Server 8/United Linux 1.0 for Intel.• Removed all references to Oracle 8.1.7.4.• Updated JDK requirements for all Windows OS.• All references to SQLServer 2000 SP3 were changed to SQLServer SP4

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