

Sterling Integrator



System Requirements

Version 5.1

Sterling Integrator



System Requirements

Version 5.1

Note

Before using this information and the product it supports, read the information in "Notices" on page 39.

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Contents

Chapter 1. Sterling Integrator 5.1 System Requirements	1	iSeries Software	23
Chapter 2. Platforms	3	iSeries JDK Requirements.	24
Chapter 3. Virtualization Support	5	Chapter 9. JCE Requirements (All Platforms)	25
Chapter 4. Databases	7	Chapter 10. JDBC Driver Requirements (All Databases)	27
Chapter 5. IPv6 Capabilities	9	Chapter 11. Perimeter Server Requirements (UNIX/Linux and Windows)	29
Chapter 6. UNIX/Linux Requirements	11	Chapter 12. Internet Browser and Plugin Requirements (All Platforms)	31
UNIX/Linux Host System	11	Chapter 13. Map Editor and Graphical Process Modeler System Requirements	33
UNIX/Linux JDK Requirements	11	Chapter 14. Supported Third Party Software	35
Downloading UNIX/Linux JDKs	15	Chapter 15. Change History.	37
Download the Oracle JDK	16	Notices	39
Download the AIX JDK	16		
Download the Linux JDK.	17		
Chapter 7. Windows Requirements	19		
Windows Client System	19		
Windows Server Host System	19		
Windows JDK Requirements.	19		
Download the Oracle JDK	21		
Chapter 8. iSeries Requirements.	23		
iSeries Hardware	23		

Chapter 1. Sterling Integrator 5.1 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 Sterling Integrator documentation web site as part of the installation guide and as stand-alone documents.

System requirements for Sterling Integrator vary with your business needs and system environment. Contact your Sterling Integrator 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 Sterling Integrator 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 Sterling Integrator:

- Chapter 2, "Platforms," on page 3
- Chapter 4, "Databases," on page 7

The following sections list minimum system requirements, and other information, needed to install and run Sterling Integrator on particular platforms:

- Chapter 5, "IPv6 Capabilities," on page 9
- Chapter 6, "UNIX/Linux Requirements," on page 11
- Chapter 7, "Windows Requirements," on page 19
- Chapter 8, "iSeries Requirements," on page 23

The following sections list additional information that is needed to install and run Sterling Integrator:

- Chapter 9, "JCE Requirements (All Platforms)," on page 25
- Chapter 10, "JDBC Driver Requirements (All Databases)," on page 27
- Chapter 11, "Perimeter Server Requirements (UNIX/Linux and Windows)," on page 29
- Chapter 12, "Internet Browser and Plugin Requirements (All Platforms)," on page 31
- Chapter 13, "Map Editor and Graphical Process Modeler System Requirements," on page 33
- Chapter 14, "Supported Third Party Software," on page 35

Note: Sterling Integrator supports ActiveMQ version 5.0 and ActiveMQ version 5.2 for JMS (Java Message Service).

Minimum and Supported Versions

Where supported version information is supplied, the initial version shown is the minimum version required. It is the version used for product testing. However, for

Sterling Integrator 5.1 Build 5104 Interim Fix (iFix) 5104_2 or higher, all higher versions within the parameters shown are supported.

For example, the statement "IBM JDK 1.6.0 SR8 FP1 or higher within version 1.6.0 SRxx FPxx" means version 1.6.0 SR8 FP1 is the minimum IBM JDK version supported, and is the tested version. Version 1.6.0 SR10 FP1 would also be supported. However, version 1.7.0 SR4 FP1 would not be supported because it is not within version 1.6.0 SRxx FPxx.

Chapter 2. Platforms

UNIX/Linux

Sterling Integrator supports the UNIX/Linux, Windows, and iSeries platforms. This topic covers the following supported platform versions:

- UNIX/Linux
- Windows
- iSeries

Sterling Integrator supports the following UNIX/Linux platforms:

Note: If you are using the GUI installation method with UNIX/Linux, you need X Window-compatible software.

- HP-UX 11.23 (PA-RISC) (not supported by Sterling File Gateway)
- HP-UX 11.23 for IA64 (Itanium)
- HP-UX 11.31 (PA-RISC)
- HP-UX 11.31 for IA64 (Itanium)
- IBM AIX 5.3
- IBM AIX 6.1
- Sun Solaris 9 (SPARC only)
- Sun Solaris 10 (SPARC only)
- Red Hat Enterprise Linux AS or ES Release 5 (x64/x86 64-bit kernel only)
- SUSE Linux Enterprise Server 10 (x64/x86 64-bit kernel only)
- SUSE Linux Enterprise Server 11 (x64/x86 64-bit kernel only)

Windows

Sterling Integrator supports the following Microsoft Windows platforms:

- Windows Server 2003 Standard Edition R2 SP2 32-bit
- Windows Server 2003 Enterprise Edition R2 SP2 32-bit
- Windows Server 2008 Standard Edition R2 64-bit
- Windows Server 2008 Enterprise Edition R2 64-bit

iSeries

Sterling Integrator supports the following IBM iSeries platform:

- i5/OS V5R4
- i5/OS V6R1

Chapter 3. Virtualization Support

Virtualization Support for RISC Based Systems

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

Operating system native clustering, partitioning or virtualization is supported for all RISC based platforms Sterling Integrator 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: IBM® 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 Sterling Integrator. Note that the above mechanisms are supported generally and it does not imply that IBM uses these virtualization mechanisms internally.

Virtualization Support for x86/x64 Based Systems

IBM 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 Sterling Integrator 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

IBM 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. IBM does not provide advice regarding configuring, administering, or tuning virtualization platforms.

Chapter 4. Databases

The following table lists the combination of platforms and databases supported by Sterling Integrator:

	Oracle	MySQL (supported only on non-cluster installation)	Microsoft SQL Server	DB2	DB2 for iSeries
HP-UX 11.23 (PA-RISC)	Yes	Yes	Yes	Yes	No
HP-UX 11.23 for IA64 (Itanium)	Yes	Yes	Yes	Yes	No
HP-UX 11.31 (PA-RISC)	Yes	Yes	Yes	Yes	No
HP-UX 11.31 for IA64 (Itanium)	Yes	Yes	Yes	Yes	No
IBM AIX 5.3	Yes	Yes	Yes	Yes	No
IBM AIX 6.1	Yes	Yes	Yes	Yes	No
Sun Solaris 9 (SPARC only)	Yes	Yes	Yes	Yes	No
Sun Solaris 10 (SPARC only)	Yes	Yes	Yes	Yes	No
Red Hat Enterprise Linux AS or ES Release 5 (x64/x86 64-bit kernel only)	Yes	Yes	Yes	Yes	No
SUSE Linux Enterprise Server 10 (x64/x86 64-bit kernel only).	Yes	Yes	Yes	Yes	No
SUSE Linux Enterprise Server 11 (x64/x86 64-bit kernel only).	Yes	Yes	Yes	Yes	No
Windows Server 2003 Standard Edition R2 SP2 32-bit	Yes	Yes	Yes	Yes	No
Windows Server 2003 Enterprise Edition R2 SP2 32-bit	Yes	Yes	Yes	Yes	No
Windows Server 2008 Standard Edition R2 64-bit	Yes	Yes	Yes	Yes	No
Windows Server 2008 Enterprise Edition R2 64-bit	Yes	Yes	Yes	Yes	No

	Oracle	MySQL (supported only on non-cluster installation)	Microsoft SQL Server	DB2	DB2 for iSeries
IBM iSeries i5/OS V5R4 (bundled with iSeries)	No	No	No	No	Yes
IBM iSeries i5/OS V6R1 (bundled with iSeries)	No	No	No	No	Yes

Sterling Integrator supports the following database versions:

Notes:

- Sterling Integrator installed on a 32-bit architecture operating system supports a 64-bit architecture database if the database is installed on a separate machine.
- Sterling Integrator supports the use of database-level clustering when using Oracle RAC or Microsoft SQL Server databases. Only your database vendor, however, can assist you in setting up a clustered database.

Oracle	Oracle Database 11g Standard and Enterprise Editions, Release 1 (11.1.0.7.0 non-RAC or higher within version 11.X.X.X.X) and Release 2 (11.2.0.2.0 non-RAC or higher within version 11.X.X.X.X).
	Oracle Database 11g Standard and Enterprise Editions, Release 1 (11.1.0.7.0 RAC or higher within version 11.X.X.X.X) and Release 2 (11.2.0.2.0 RAC or higher within version 11.X.X.X.X) .
	<p>Notes:</p> <ul style="list-style-type: none"> • RAC refers to Real Application Clusters. For more information, refer to Oracle documentation. • Sterling Integrator supports JDBC Type-4 drivers to a single node of a database except Oracle RAC. You can use the JDBC Type-4 drivers to connect with multiple nodes of an Oracle RAC.
MySQL	MySQL Enterprise Edition 5.1.45 or higher within version 5.1.x
	<p>Note: MySQL is case-insensitive for searches with string values. For example, the search results will be the same when you search for users 'Admin' and 'admin'. As a result, it impacts searches for maps, business processes, services, mailboxes, user names, and other data stored in the database.</p>
DB2 for iSeries	DB2 for System i Level 26 for V5R4
	DB2 for IBM i Level 13 for the V6R1
DB2 for Linux, UNIX, and Windows	DB2 9.5 through 9.5.x
	DB2 9.7 through 9.7.x
MS SQL Server	Microsoft SQL Server 2005 Enterprise and Standard (9.00.3152 or higher within version 9.x.x)
	Microsoft SQL Server 2008 Enterprise and Standard Editions (10.0.1600.22 or higher within version 10.0.x.x)
	<p>(Requires Sterling Integrator 5.1 Build 5104 or higher)</p> <p>Microsoft SQL Server 2008 R2 SP1 Enterprise and Standard Editions (10.50.2500.0 or higher within version 10.50.x.x)</p>

Chapter 5. IPv6 Capabilities

IPv6 Supported Combinations

An increased market demand for enhanced Internet protocol (IP) has made the worldwide supply of Internet Protocol version 4 (IPv4) addresses scarce. The Internet Protocol version 6 (IPv6) expands the IP address space from 32 bits to 128 bits, providing a virtually unlimited supply of IP addresses. IBM is enabling Sterling Integrator for IPv6 support in phases, providing a dual IPv4/IPv6 stack, tunneling, proxying, and translation between the two IP address versions.

Sterling Integrator interoperates with various related products, many of which do not yet support IPv6 addresses. Hence, in Sterling Integrator, a limited set of configurations use IPv6 addresses. The dual stack approach permits interoperability between Sterling Integrator and a mixed set of IPv4 and IPv6 enabled services and adapters wherever feasible.

However, if you choose to implement an IPv6 installation, you will observe limitations in the Sterling Integrator system requirements and the selected services and adapters. IBM recommends you to consider the following limitations before attempting to Sterling Integrator installation using IPv6 addresses.

CAUTION:

You must install using a host name, not an IPv6 address, otherwise the Lightweight JDBC adapter and Graphical Process Modeler (GPM) will not work.

The following table lists the IPv6 configuration combinations supported by Sterling Integrator:

	AIX	Windows	Linux	Solaris	HP
DB2	Yes	No	Yes	Yes	Yes
MSSQL	No	No	Yes	Yes	Yes
Oracle	No	No	Yes	Yes	Yes
MySQL	No	No	Yes	Yes	Yes

Note: IBM Consulting Services can help you implement Sterling Integrator in an IPv6-compliance environment, using transition technologies. You should check the IPv6 compliance of any third party tools (such as web servers, FTP clients, MQ servers, and so on) that you use with Sterling Integrator.

The following Sterling Integrator components provide IPv6 compliance with some limitations.

Note: The status of each component will be updated as more of our technology partners begin to offer IPv6 compliance.

Adapter/Service	IPv6 Compliance	Limitations
HTTP Client/Server Adapter	Full	-
HTTP GET/POST Service	Full	-
HTTP Begin/End Session	Full	-

Adapter/Service	IPv6 Compliance	Limitations
FTP Client/Server	Full	-
WSMQ Adapter	Full	-
PGP Package/Unpackage Service	Full	-
Command Line Adapter 2	Full	-
WSMQ Suite	Full	-
JMS Adapter	Partial	The URI does not accept IPv6 addresses as characters '[']' are not allowed. However, it works with a hostname.
SFTP Client/Server	Full	-
SMTP/POP3/MIME	Full	-
FSA	Full	-
Lightweight JDBC Adapter	Partial	Supports an IPv6 remote host only with a DB2 and AIX combination. However, if your Sterling Integrator installation is under an IPv6 address, the Lightweight JDBC adapter can still be used with any other database currently supported by the adapter using an IPv4 remote host.
RMI Adapter	Partial	The URI does not accept IPv6 addresses as characters '[']' are not allowed. However, it works with a hostname.
Webservices	Full	-
BEA Tuxedo	Full	-
Zengin	Full	-
ConnectDirect	Full	Supports IPv6 on C:D UNIX 4.0 and C:D Windows 4.4.00
E5	Full	-
TIBCO	Full	-
SNMP	Full	-
Transora	Full	-
OFTP	Full	-
SAP Suite Adapter	Unsupported	-

Chapter 6. UNIX/Linux Requirements

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

- “UNIX/Linux Host System”
- “UNIX/Linux JDK Requirements”
- “Downloading UNIX/Linux JDKs” on page 15
- “Download the Oracle JDK” on page 16

UNIX/Linux Host System

At a minimum, a UNIX/Linux host system requires:

- 2 GB RAM
- 7 GB free disk space
- File descriptor size of 2048 or greater (preferred setting is unlimited)
- Refer to the documentation you received with the database server to determine the minimum system requirements.

It is recommended to run Sterling Integrator and database on different servers except for DB2 (bundled with iSeries) database.

- When using the Solaris server, Sterling Integrator runs only on SPARC-based Solaris servers. Sterling Integrator does not run on x86 (Intel)-based Solaris servers.
- When using the Red Hat or SUSE Linux server, Sterling Integrator 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. 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 Chapter 11, “Perimeter Server Requirements (UNIX/Linux and Windows),” on page 29
- If you are using a graphical user interface (GUI) for your UNIX/Linux installation of Sterling Integrator, you must install an X Window-compatible tool.
- If you opt to store the files, additional system space is required.

UNIX/Linux JDK Requirements

This topic covers the JDK requirements for installing Sterling Integrator and (if applicable) a perimeter server on UNIX platform. When downloading a JDK, follow the instructions in “Downloading UNIX/Linux JDKs” on page 15.

If you are upgrading from Gentran Integration Suite 4.x or Sterling Integrator 5.0 to Sterling Integrator 5.1, you should upgrade your JDK version to 1.6.

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

- The two OS (operating system) columns indicate if the UNIX/Linux vendor supports a 32-bit or a 64-bit operating system.

- Operating system-native virtualization solutions are supported for all of these platforms (for example, Solaris containers and zones (local and global); HACMP for AIX; and HP-UX MC/ServiceGuard)

Note: JDK 6.0 and JDK 1.6.0 are both names for the same JDK. Version 6.0 is used in marketing, documentation and other written communication. When you download the JDK, it will be identified on the web page as Version 6.0. Version 1.6.0 is used in file names. The downloaded JDK file will use the name that appears in the JDK requirements table

Platform	JDK Requirements	32-Bit OS	64-Bit OS
Solaris 9 (SPARC only)	<p>Oracle JDK 1.6.0_14 (64 bit) (Sterling Integrator 5.1 Build 5100 through 5102)</p> <p>Oracle JDK 1.6.0_31 (64 bit) (Sterling Integrator 5.1 Build 5103 through 5104 Interim Fix (iFix) 5104_1)</p> <p>Oracle JDK 1.6.0_31 (64 bit) or higher within 1.6.0_xx (Sterling Integrator 5.1 Build 5104 Interim Fix (iFix) 5104_2 or higher)</p> <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
Solaris 10 (SPARC only)	<p>Oracle JDK 1.6.0_14 (64 bit) (Sterling Integrator 5.1 Build 5100 through 5102)</p> <p>Oracle JDK 1.6.0_31 (64 bit) (Sterling Integrator 5.1 Build 5103 through 5104 Interim Fix (iFix) 5104_1)</p> <p>Oracle JDK 1.6.0_31 (64 bit) or higher within 1.6.0_xx (Sterling Integrator 5.1 Build 5104 Interim Fix (iFix) 5104_2 or higher)</p> <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 	Not Supported	Yes

Platform	JDK Requirements	32-Bit OS	64-Bit OS
AIX 5.3	<p>IBM AIX JDK 1.6.0 (64 bit) build pap6460sr8-20100409_01(SR8) (Sterling Integrator 5.1 Build 5100 through 5104 Interim Fix (iFix) 5104_1)</p> <p>IBM AIX JDK 1.6.0 (64 bit) build pap6460sr8-20100409_01(SR8) or higher within version 1.6.0 SRx (Sterling Integrator 5.1 Build 5104 Interim Fix (iFix) 5104_2 or higher)</p> <p>Minimum IBM maintenance level: 5300-07 (APAR IZ07976)</p>	Not Supported	Yes
AIX 6.1	<p>IBM AIX JDK 1.6.0 (64 bit) build pap6460sr8-20100409_01(SR8) (Sterling Integrator 5.1 Build 5100 through 5104 Interim Fix (iFix) 5104_1)</p> <p>IBM AIX JDK 1.6.0 (64 bit) build pap6460sr8-20100409_01(SR8) or higher within version 1.6.0 SRx (Sterling Integrator 5.1 Build 5104 Interim Fix (iFix) 5104_2 or higher)</p> <p>Minimum IBM maintenance level: 6100-GOLD</p>	Not Supported	Yes
HP-UX 11.23 (PA-RISC)	<p>HP-UX JDK 1.6.0.04 (64-bit) (Sterling Integrator 5.1 Build 5100 through 5104 Interim Fix (iFix) 5104_1)</p> <p>HP-UX JDK 1.6.0.04 (64-bit) or higher within 1.6.0.xx (Sterling Integrator 5.1 Build 5104 Interim Fix (iFix) 5104_2 or higher)</p> <p>Patch requirements and Kernel parameters as determined by the HPjconfig utility.</p>	Not Supported	Yes
HP-UX 11.23 for IA64 (Itanium)	<p>HP-UX JDK 1.6.0.04 (64-bit) (Sterling Integrator 5.1 Build 5100 through 5104 Interim Fix (iFix) 5104_1)</p> <p>HP-UX JDK 1.6.0.04 (64-bit) or higher within 1.6.0.xx (Sterling Integrator 5.1 Build 5104 Interim Fix (iFix) 5104_2 or higher)</p> <p>Patch requirements and Kernel parameters as determined by the HPjconfig utility.</p>	Not Supported	Yes

Platform	JDK Requirements	32-Bit OS	64-Bit OS
HP-UX 11.31 (PA-RISC)	<p>HP-UX JDK 1.6.0.04 (64-bit) (Sterling Integrator 5.1 Build 5100 through 5104 Interim Fix (iFix) 5104_1)</p> <p>HP-UX JDK 1.6.0.04 (64-bit) or higher within 1.6.0.xx (Sterling Integrator 5.1 Build 5104 Interim Fix (iFix) 5104_2 or higher)</p> <p>Patch requirements and Kernel parameters as determined by the HPjconfig utility.</p>	Not Supported	Yes
HP-UX 11.31 for IA64 (Itanium)	<p>HP-UX JDK 1.6.0.04 (64-bit) (Sterling Integrator 5.1 Build 5100 through 5104 Interim Fix (iFix) 5104_1)</p> <p>HP-UX JDK 1.6.0.04 (64-bit) or higher within 1.6.0.xx (Sterling Integrator 5.1 Build 5104 Interim Fix (iFix) 5104_2 or higher)</p> <p>Patch requirements and Kernel parameters as determined by the HPjconfig utility.</p>	Not Supported	Yes
Red Hat Enterprise Linux AS or ES Release 5 (x64/x86 64-bit kernel only)	<p>IBM JDK 1.6.0 SR8 (64 bit) build pxa6460sr8-20100409_01(SR8) (Sterling Integrator 5.1 Build 5100 through 5104 Interim Fix (iFix) 5104_1)</p> <p>IBM JDK 1.6.0 SR8 (64 bit) build pxa6460sr8-20100409_01(SR8) or higher within version 1.6.0 SRx (Sterling Integrator 5.1 Build 5104 Interim Fix (iFix) 5104_2 or higher)</p> <p>Minimum kernel version: 2.6.18-164.2.1.el5</p> <p>Minimum glibc version: 2.5-42</p>	Not Supported	Yes

Platform	JDK Requirements	32-Bit OS	64-Bit OS
SUSE Linux Enterprise Server 10 (x64/x86 64-bit kernel only).	<p>IBM JDK 1.6.0 SR8 (64 bit) build pxa6460sr8-20100409_01(SR8) (Sterling Integrator 5.1 Build 5100 through 5104 Interim Fix (iFix) 5104_1)</p> <p>IBM JDK 1.6.0 SR8 (64 bit) build pxa6460sr8-20100409_01(SR8) or higher within version 1.6.0 SRx (Sterling Integrator 5.1 Build 5104 Interim Fix (iFix) 5104_2 or higher)</p> <p>Minimum kernel version: 2.6.16.60-0.42.5-smp</p> <p>Minimum glibc version: 2.4-31.61</p>	Not Supported	Yes
SUSE Linux Enterprise Server 11 (x64/x86 64-bit kernel only).	<p>IBM JDK 1.6.0 SR8 (64 bit) build pxa6460sr8-20100409_01(SR8) (Sterling Integrator 5.1 Build 5100 through 5104 Interim Fix (iFix) 5104_1)</p> <p>IBM JDK 1.6.0 SR8 (64 bit) build pxa6460sr8-20100409_01(SR8) or higher within version 1.6.0 SRx (Sterling Integrator 5.1 Build 5104 Interim Fix (iFix) 5104_2 or higher)</p> <p>Minimum kernel version: 2.6.16.60-0.42.5-smp</p> <p>Minimum glibc version: 2.4-31.61</p>	Not Supported	Yes

Downloading UNIX/Linux JDKs

Download JDK-related files from the following web sites:

- Download patches for Solaris 10 (J2SE_Solaris_10_Recommended.zip) from <http://sunsolve.sun.com/pub-cgi/show.pl?target=patches/JavaSE>.
- Download all HP JDK versions from <http://h20392.www2.hp.com/portal/swdepot/displayProductInfo.do?productNumber=HPUXJAVAHOME>.
- Download the HPjconfig tool for HP-UX systems from <http://h20392.www2.hp.com/portal/swdepot/displayProductInfo.do?productNumber=HPUXJAVAHOME>.
- Download Sun, AIX, and Linux JDK versions using the instructions in:
 - “Download the Oracle JDK” on page 16
 - “Download the AIX JDK” on page 16
 - “Download the Linux JDK” on page 17

Note: IBM redistributes certain JDKs from original vendors. You can find these JDKs under the */jdk* directory structure in either downloaded or physical media.

Download the Oracle JDK

About this task

To download the Oracle JDK:

Procedure

1. Go to <http://www.oracle.com/technetwork/java/javasebusiness/downloads/java-archive-downloads-javase6-419409.html>.
2. Go to the appropriate section. See the following examples:
 - Java SE Development Kit 6u31 (Sterling Integrator 5.1 Build 5103 or higher)
 - Java SE Development Kit 6u14 (Sterling Integrator 5.1 Build 5100 through 5102)
3. Accept the License Agreement.
4. Download the desired JDK file for your operating system:
 - Solaris SPARC (64-bit)
 - Windows x86 (32-bit)
 - Windows x64 (64-bit)

Download the AIX JDK

About this task

To download the AIX JDK, perform the following tasks:

Procedure

1. Go to the main AIX download web page at <http://www.ibm.com/developerworks/java/jdk/aix/service.html>.
2. Select **Java 6 64-bit** link.
3. Sign in to the IBM Web site. The download page appears.
4. Choose whether to download the JDK using either the IBM Download Director or http. In the **IBM Java 64-bit SDK installps / smit install for AIX, latest base images (pap6460sr8fp1-20100624_01(SR8 FP1)) (-Xj9 -version jvmap6460sr8ifx-20100609_59383)** section, select one of the following files (depending on your file format preference):
 - Java6_64.sdk.tar
 - Java6_64.sdk.tar.gz

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

5. Apply patch to the GA installation to get it up to SR8 by going back to the main AIX download page (<http://www.ibm.com/developerworks/java/jdk/aix/service.html>).
6. Under the **Java 6 64-bit** section, click the **Fix Info** link.
7. Refer to the **Java 6 64-bit fixes since GA** table. Find the following entry:

APAR #	Fullversion	Java6_64.sdk fileset level	Service refresh
IZ74891	pap6460sr8-20100409_01	6.0.0.200	SR8

8. Click **SR8** link. The **Packaging** options page appears.

9. Select the download option.
10. Select your operating system level:
 - For AIX 5.3 - **AIX 5300-05**
 - For AIX 6.1 - **AIX 6100-03**
11. Click **Continue**. The **Package results** page appears, which lists the files in the download package.
12. Download the files using one of the following methods:
 - Together using Java applet or FTP
 - Individually using HTTP or FTP
13. Install the GA image that you downloaded above.
14. Install the JDK patch file.
15. Once installed, check the java version by running the following command:
`/usr/java6/bin/java -version` The result should show SR8 as the installed version.

Download the Linux JDK

About this task

To download the Linux JDK, perform the following:

Procedure

1. Go to the Linux download page at <http://www.ibm.com/developerworks/java/jdk/linux/download.html>.
2. Sign in to the IBM Web site. The download page appears.
3. Select the appropriate build for your hardware and operating system.
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. In the SDK section, select a download file, based on your file format preference.
7. Click **Download now**.
8. Install the file that you just downloaded.

Chapter 7. Windows Requirements

This topic covers the minimum system requirements and other information, needed to install and run Sterling Integrator on a Windows platform:

- “Windows Client System”
- “Windows Server Host System”
- “Windows JDK Requirements”

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 7.x or 8.x
- 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
- Refer to the documentation you received with the database server to determine the minimum system requirements.

It is recommended to run Sterling Integrator and database on different servers except for DB2 (bundled with iSeries) database.

- File system space, if you use 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.
- For perimeter server requirements, see Chapter 11, “Perimeter Server Requirements (UNIX/Linux and Windows),” on page 29.

Windows JDK Requirements

This topic covers the JDK requirements for installing Sterling Integrator on Windows platform.

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

If you are upgrading from Gentran Integration Suite 4.x or Sterling Integrator 5.0 to Sterling Integrator 5.1, you should upgrade your JDK version to 1.6.

Notes:

- JDK 6.0 and JDK 1.6.0 are both names for the same JDK. Version 6.0 is used in marketing, documentation and other written communication. When you download the JDK, it will be identified on the web page as Version 6.0. Version 1.6.0 is used in file names. The downloaded JDK file will use the name that appears in the JDK requirements table.
- IBM redistributes certain JDKs from original vendors. You can find these JDKs under the `\jdk` directory structure in either downloaded or physical media. You can download all Oracle JDK versions from <http://www.oracle.com/technetwork/java/javasebusiness/downloads/java-archive-downloads-javase6-419409.html>.

Windows Server	JDK Requirements	32-Bit OS	64-Bit OS
Windows Server 2003 Enterprise Edition R2 SP2 (32-bit)	<p>Oracle JDK 1.6.0_14 (32 bit) (Sterling Integrator 5.1 Build 5100 through 5102)</p> <p>Oracle JDK 1.6.0_31 (32 bit) (Sterling Integrator 5.1 Build 5103 through 5104 Interim Fix (iFix) 5104_1)</p> <p>Oracle JDK 1.6.0_31 (32 bit) or higher within 1.6.0_xx (Sterling Integrator 5.1 Build 5104 Interim Fix (iFix) 5104_2 or higher)</p>	Yes	No
Windows Server 2003 Standard Edition R2 SP2 (32-bit)	<p>Oracle JDK 1.6.0_14 (32 bit) (Sterling Integrator 5.1 Build 5100 through 5102)</p> <p>Oracle JDK 1.6.0_31 (32 bit) (Sterling Integrator 5.1 Build 5103 through 5104 Interim Fix (iFix) 5104_1)</p> <p>Oracle JDK 1.6.0_31 (32 bit) or higher within 1.6.0_xx (Sterling Integrator 5.1 Build 5104 Interim Fix (iFix) 5104_2 or higher)</p>	Yes	No
Windows Server 2008 Standard Edition R2 (64-bit)	<p>Oracle JDK 1.6.0_14 (64 bit) (Sterling Integrator 5.1 Build 5100 through 5102)</p> <p>Oracle JDK 1.6.0_31 (64 bit) (Sterling Integrator 5.1 Build 5103 through 5104 Interim Fix (iFix) 5104_1)</p> <p>Oracle JDK 1.6.0_31 (64 bit) or higher within 1.6.0_xx (Sterling Integrator 5.1 Build 5104 Interim Fix (iFix) 5104_2 or higher)</p>	No	Yes

Windows Server	JDK Requirements	32-Bit OS	64-Bit OS
Windows Server 2008 Enterprise Edition R2 (64-bit)	<p>Oracle JDK 1.6.0_14 (64 bit) (Sterling Integrator 5.1 Build 5100 through 5102)</p> <p>Oracle JDK 1.6.0_31 (64 bit) (Sterling Integrator 5.1 Build 5103 through 5104 Interim Fix (iFix) 5104_1)</p> <p>Oracle JDK 1.6.0_31 (64 bit) or higher within 1.6.0_xx (Sterling Integrator 5.1 Build 5104 Interim Fix (iFix) 5104_2 or higher)</p>	No	Yes

Download the Oracle JDK

About this task

To download the Oracle JDK:

Procedure

1. Go to <http://www.oracle.com/technetwork/java/javasebusiness/downloads/java-archive-downloads-javase6-419409.html>.
2. Go to the appropriate section. See the following examples:
 - Java SE Development Kit 6u31 (Sterling Integrator 5.1 Build 5103 or higher)
 - Java SE Development Kit 6u14 (Sterling Integrator 5.1 Build 5100 through 5102)
3. Accept the License Agreement.
4. Download the desired JDK file for your operating system:
 - Solaris SPARC (64-bit)
 - Windows x86 (32-bit)
 - Windows x64 (64-bit)

Chapter 8. iSeries Requirements

This topic covers the minimum system requirements and other information, needed to install and run Sterling Integrator on an iSeries platform:

Note: Sterling Integrator on iSeries uses the DB2 that is included in OS/400.

- “iSeries Hardware”
- “iSeries Software”
- “iSeries JDK Requirements” on page 24

iSeries Hardware

This topic covers the iSeries hardware requirements. These system requirements are based on Sterling Integrator 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 Sterling Integrator)
- 20 GB DASD (Required for Sterling Integrator 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 Sterling Integrator on iSeries platform.

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

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 10 Java Developer Kit 6• 5722-XE1 *BASE IBM eServer iSeries Access for Windows• PTF Groups<ul style="list-style-type: none">– SF99540 Level 10117– SF99539 Level 127– SF99504 Level 26– SF99291 Level 23• JDBC driver version V5R4 - SF99504 minimum level 14

iSeries System	iSeries Software
i5/OS V6R1	<ul style="list-style-type: none"> • 5761-SS1 i5/OS V6R1 • 5761-SS1 Option 30 Qshell Interpreter • 5761-SS1 Option 33 PASE (Portable Application Solutions Environment) • 5761-TC1 *BASE IBM TCP/IP Connectivity Utilities for i5/OS • 5761-JV1 *BASE IBM Developer Kit for Java • 5761-JV1 Option 10 Java Developer Kit 6 • 5722-XE1 *BASE IBM System I Access for Windows • PTF Groups <ul style="list-style-type: none"> – SF99610 Level 10047 – SF99609 Level 61 – SF99601 Level 13 – SF99562 Level 12

iSeries JDK Requirements

This topic covers the JDK requirements for installing Sterling Integrator 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 V5R4	<p>Java(TM) 2 Runtime Environment, Standard Edition (build 1.6.0_11-b03) Classic VM (build 1.6, build JDK-1.6, native threads, jitc_de) (Sterling Integrator 5.1 Build 5100 through 5104 Interim Fix (iFix) 5104_1)</p> <p>Java(TM) 2 Runtime Environment, Standard Edition (build 1.6.0_11-b03) Classic VM (build 1.6, build JDK-1.6, native threads, jitc_de) or higher within build 1.6.0_xx-xxx (Sterling Integrator 5.1 Build 5104 Interim Fix (iFix) 5104_2 or higher)</p> <p>For more information, refer to i5/OS V5R4 column in the topic “iSeries Software” on page 23.</p>
i5/OS - V6R1	<p>Java(TM) 2 Runtime Environment, Standard Edition (build 1.6.0_11-b03) Classic VM (build 1.6, build JDK-1.6, native threads, jitc) (Sterling Integrator 5.1 Build 5100 through 5104 Interim Fix (iFix) 5104_1)</p> <p>Java(TM) 2 Runtime Environment, Standard Edition (build 1.6.0_11-b03) Classic VM (build 1.6, build JDK-1.6, native threads, jitc) or higher within build 1.6.0_xx-xxx (Sterling Integrator 5.1 Build 5104 Interim Fix (iFix) 5104_2 or higher)</p> <p>For more information, refer to i5/OS - V6R1 column in the topic “iSeries Software” on page 23.</p>

Chapter 9. JCE Requirements (All Platforms)

The following table lists the JCE requirements for all platforms supported by Sterling Integrator:

Operating System	JDK	JCE
UNIX/Linux	Sun	For JDK 1.6 - jce_policy-6.zip (Sun)
	IBM	unrestricted.zip (IBM)
	HP-UX	For JDK 1.6 - jce_policy-6.zip (Sun)
Windows	All	For JDK 1.6 - jce_policy-6.zip (Sun)
iSeries	All	unrestricted.zip (IBM)

Chapter 10. JDBC Driver Requirements (All Databases)

This topic covers the JDBC driver information for all the databases supported by Sterling Integrator.

The following table lists the JDBC drivers that are required with Sterling Integrator:

Supported Database Server	JDBC Driver
Oracle Database 11g Standard and Enterprise Editions, Release 1 (11.1.0.7.0 non-RAC or higher within version 11.X.X.X.X) and Release 2 (11.2.0.2.0 non-RAC or higher within version 11.X.X.X.X)	JDBC driver version 11.X.X.X.X using ojdbc6.jar
Oracle Database 11g Standard and Enterprise Editions, Release 1 (11.1.0.7.0 RAC or higher within version 11.X.X.X.X) and Release 2 (11.2.0.2.0 RAC or higher within version 11.X.X.X.X) .	JDBC driver version 11.X.X.X.X using ojdbc6.jar
Microsoft SQL Server™ 2005 Enterprise and Standard Editions (9.00.3152)	JDBC driver version 3.x using sqljdbc4.jar
Microsoft SQL Server 2008 Enterprise and Standard Editions (10.0.1600.22 or higher within version 10.0.x.x)	JDBC driver version 3.x using sqljdbc4.jar
DB2 for iSeries System i5/OS V5R4	JDBC driver version V5R4 - SF99504 minimum level 26
DB2 for iSeries System i5/OS V6R1	JDBC driver version V6R1 – SF99601 minimum level 13
DB2 9.5 through 9.5.x (UNIX/Linux and Windows)	JDBC Type-4 driver version 9.5 (internal driver version 3.53.95)
DB2 9.7 through 9.7.x (UNIX/Linux and Windows)	JDBC Type-4 driver version 9.5 (internal driver version 3.57.82)
MySQL Enterprise Edition 5.1.45 or higher within version 5.1.x	mysql-connector-java-com-5.1.10-bin.jar (or higher within version 5.1.X)

Chapter 11. 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 Sterling Integrator 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 Sterling Integrator is installed.
- Perimeter servers are supported on the same operating system and JDK combinations as Sterling Integrator. The operating system and JDK version that the perimeter server uses do not need to match the operating system and JDK version of Sterling Integrator.
- Refer to the JDK instructions for the operating system on which you are installing the perimeter server:
 - “UNIX/Linux JDK Requirements” on page 11
 - “Windows JDK Requirements” on page 19

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

- 100 MB disk space
- 1 GB memory

Chapter 12. Internet Browser and Plugin Requirements (All Platforms)

This topic covers the Internet browser and plugin requirements.

The requirements for the Internet browser and Java plugins are shown in the following table:

Internet Browser	Operating System	JRE
Microsoft Internet Explorer 7.x or 8.x Notes: <ul style="list-style-type: none">• If you open more than one Sterling Integrator host, installed on the same server, in separate tabs or separate browsers sharing session cookies, the browser window will timeout the earlier session. You should always open a Sterling Integrator host in a new session, which does not share session cookies.• If you are running Windows Internet Explorer 8, for all versions of Windows operating systems, the AFT login screen displays part of the background image towards the right side, but it does not affect the functionality.	Windows Server 2003 and Windows Server 2008	Java Plug-in 1.6.0

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

Chapter 13. Map Editor and Graphical Process Modeler System Requirements

This topic covers the Map Editor and Graphical Process Modeler (GPM) system requirements.

To run the Map Editor and 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 run the Graphical Process Modeler, your Windows system requires Oracle JDK1.6_14.
- To save your source map as an XML file (.xml 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 .xml files and must use the .map extension.

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

- Windows 7
- Windows XP
- Windows Server 2003 Standard Edition
- Windows Server 2003 Enterprise Edition
- Windows Server 2008 Standard Edition
- Windows Server 2008 Enterprise Edition

Chapter 14. Supported Third Party Software

The following table lists the supported third party software bundled along with Sterling Integrator:

Software	Version
XSL Transformations	Version 1.0 with Apache Xalan-Java version 2.7.0
XML Path Language	Version 1.0 with Apache Xalan-Java version 2.7.0

Chapter 15. Change History

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

Date	Change
03/06/2014	Added support for Microsoft SQL Server 2008 R2 SP1 in Sterling Integrator 5.1 Build 5104 or higher.
01/22/2014	Updated JDK requirements for Sterling Integrator 5.1 Build 5104 Interim Fix (iFix) 5104_2 or higher.
11/07/2013	Removed the exclusion of the Oracle Exadata platform under Oracle database support.
Build 5103 Release	Added support for Sun JDK 1.6.0_31 in Sterling Integrator 5.1 Build 5103 or higher.
09/19/2011	Updated MySQL 5.1.45 to specify MySQL Enterprise Edition 5.1.45. Updated Oracle 11g versions and JDBC drivers.
06/24/2011	This version supports Windows 7. This information was not included in the original version of the document. It has been added to the Map Editor and Graphical Process Modeler System Requirements topic. In addition, the follow item was also added for the Graphical Process Modeler: <ul style="list-style-type: none">• To run the Graphical Process Modeler, your Windows system requires Oracle JDK1.6_14
05/02/2011	Updated the MySQL to the correct version: <ul style="list-style-type: none">• MySQL 5.1.45 through 5.1.x Updated DB2 versions (UNIX/Linux and Windows): <ul style="list-style-type: none">• DB2 9.5 through 9.5.x• DB2 9.7 through 9.7.x
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.
02/08/2011	Stack mismatch. The following updates were made: <ul style="list-style-type: none">• Updated the Oracle Databse 11g JDBC driver to JDBC driver version 11.1.0.7.0 using ojdbc6.jar• Updated the JDBC Driver for Microsoft SQL Server 2005 and Microsoft SQL Server 2008 to JDBC driver version 3.x using sqljdbc4.jar• Updated Microsoft SQL Server 2008 version 10.0.1600.22 to Microsoft SQL Server 2008 version 10.0.1600.22 or higher within version 10.0.x.x
09/30/2010	Initial Release

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