

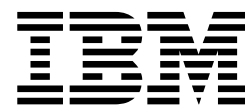
Sterling B2B Integrator



System Requirements Supplement

Version 5.2.6

Sterling B2B Integrator



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Note

Before using this information and the product it supports, read the information in "Notices" on page 9.

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Supplemental System Requirement Information (V5.2.6 or later)

System requirements for Sterling B2B Integrator vary with your business needs and system environment. Be sure to follow the specific requirements for your needs.

The detailed system requirements for Sterling B2B Integrator V5.2.6 are located at <http://www.ibm.com/support/docview.wss?uid=swg27043950> .

This guidance is provided as a supplement to the detailed system requirements.

Introduction

Because specific requirements vary with your business needs and system environment, you should contact your Sterling B2B 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 B2B Integrator with or without perimeter servers.
- Whether your environment is clustered (multiple node) or non-clustered (single node).

Note: Sterling B2B Integrator supports ActiveMQ version 5.0 and ActiveMQ version 5.2 for JMS (Java Message Service).

IBM Installation Manager

Installation Manager is used to install IBM® Sterling B2B Integrator.

For information about Installation Manager, see the installation documentation at http://www.ibm.com/support/knowledgecenter/SS3JSW_5.2.0/com.ibm.help.sb2bi_install_upgrade_526.doc/b2bi_installing_overview_526.html.

IBM Installation Manager V1.8.2 is included with Sterling B2B Integrator.

For more information about Installation Manager, see https://www.ibm.com/support/knowledgecenter/SSDV2W/im_family_welcome.html.

Host system requirements

There are host system requirements for installing IBM Sterling B2B Integrator.

In addition to the information in the detailed system requirements for Sterling B2B Integrator V5.2.6 located at <http://www.ibm.com/support/docview.wss?uid=swg27043950> , the following also applies:

- 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.

- Refer to the documentation you received with the database server to determine the minimum system requirements. (UNIX, Linux, and Windows)
- You should run Sterling B2B Integrator and your database on different servers. (UNIX, Linux, and Windows)
- If you are using a graphical user interface (GUI) for your installation of Sterling B2B Integrator on UNIX or Linux, you must install an X Window-compatible tool.

IPv6 capabilities

An increased market demand for the enhanced Internet Protocol (IP) has lowered the worldwide supply of Internet Protocol version 4 (IPv4) addresses. The Internet Protocol version 6 (IPv6) expands the IP address space from 32 bits to 128 bits, providing an increased supply of IP addresses.

IPv6 supported combinations

Sterling B2B Integrator is enabled for IPv6 support, providing a dual IPv4 and IPv6 stack, tunneling, proxying, and translation between the two IP address versions.

Sterling B2B Integrator interoperates with various related products, many of which do not yet support IPv6 addresses. Therefore, in Sterling B2B Integrator, a limited set of configurations use IPv6 addresses. The dual stack approach permits interoperability between Sterling B2B Integrator and a mixed set of IPv4 and IPv6 enabled services and adapters wherever feasible.

However, if you choose to implement an IPv6 installation, limitations exist in the Sterling B2B Integrator system requirements and the selected services and adapters. Consider the limitations before you attempt to install Sterling B2B Integrator with IPv6 addresses.

Important: You must install with a host name and not an IPv6 address. Otherwise the Lightweight JDBC adapter and Graphical Process Modeler (GPM) do not work.

The following table lists the IPv6 configuration combinations supported by Sterling B2B Integrator:

Database	AIX®	Windows	Linux ¹	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
Table notes:					
1. Red Hat Enterprise Linux for IBM System z® and SUSE Linux Enterprise Server (SLES) 11 System z only support DB2.					

Note: IBM Consulting Services can help you implement Sterling B2B Integrator in an IPv6-compliant environment by using transition technologies. Check the IPv6 compliance of any third-party tools (such as web servers, FTP clients, and MQ servers) that you use with Sterling B2B Integrator.

The following Sterling B2B Integrator components provide IPv6 compliance with some limitations.

Attention: The status of each component will be updated as more of IBM's technology partners offer IPv6 compliance.

Component	IPv6 compliance	Limitations
HTTP Client/Server adapter	Full	-
HTTP GET/POST service	Full	-
HTTP Begin/End Session adapter	Full	-
FTP Client/Server adapter	Full	-
PGP Package/Unpackage service	Full	-
Command Line Adapter 2	Full	-
WebSphere MQ Suite	Full	-
JMS adapter	Partial	The URI does not accept IPv6 addresses as characters '[' are not allowed. However, it works with a host name.
SFTP Client/Server adapter	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 B2B Integrator installation is under an IPv6 address, the Lightweight JDBC adapter can still be used with any other database currently supported by the adapter by using an IPv4 remote host.
Webservices	Full	-
BEA Tuxedo adapter	Full	-
Zengin adapter	Full	-
ConnectDirect	Full	Supports IPv6 on C:D UNIX 4.0 and C:D Windows 4.4.00
E5	Full	-
TIBCO adapter	Full	-
SNMP	Full	-
Transora adapter	Full	-
OFTP	Full	-
SAP Suite adapter	Unsupported	-
JGroups	Partial	Do not use IPV6 with JGroups on AIX

Java software

Java™ software required for installing IBM Sterling B2B Integrator is included with the download or media.

Determine the correct JDK or JRE for your installation of Sterling B2B Integrator based on the detailed system requirements (Java section, under Prerequisites).

The required 64-bit JDK files for Windows, HP-UX, AIX, Solaris, and Linux platforms are provided with the product download or media.

For IBM i, the JDK is bundled with the operating system. You do not download the JDK separately.

For other IBM Java software, refer to IBM developerWorks® (<http://www.ibm.com/developerworks/java/jdk/>).

Map Editor Java requirements

To ensure the Map Editor runs properly on your Windows client system, be sure your system meets the Java requirements.

Java Requirements

To use the remote map test functionality in the Map Editor, a 32-bit Java Runtime Environment (JRE) from IBM is required on both 32-bit and 64-bit operating systems.

JRE and JDK version requirements for the Map Editor are provided in the detailed system requirements. The IBM JDK and JRE for Windows are available only as part of an IBM product. If needed, the 32-bit java files can be obtained at www.ibm.com/developerworks/java/jdk/eclipse/index.html.

To save your source map as an XML file (.mxl file extension) using the Map Editor, you must have 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 .mxl files and must use the .map extension.

Downloading Solaris patches

Obtain the correct Solaris files for your installation by first referring to the Oracle and Sterling B2B Integrator system requirements and then downloading the correct files.

About this task

To download the Solaris patch files:

Procedure

1. Go to <https://support.oracle.com/epmos/faces/PatchHome>.
2. Follow the provided instructions and sign in using your Oracle support account login.
3. Download the appropriate patches for your Solaris version.

JCE Requirements (All Platforms)

The IBM Unrestricted SDK JCE policy files are required for all platforms supported by Sterling B2B Integrator.

The IBM Unrestricted SDK JCE policy files can be downloaded at www.ibm.com/marketing/iwm/iwm/web/preLogin.do?source=jcesdk.

JDBC driver requirements (all databases)

For all databases supported by Sterling B2B Integrator, use the JDBC driver recommended by the database vendor for your database and version.

Attention: If you are using the Lightweight JDBC Adapter with the DB2 or Microsoft SQL Server database, you must use the 4.0 version of the JDBC driver.

- For Oracle:
 - (Version 12c) Oracle 12.1.0.2.0 JDBC 4.1 or higher within 12.x.x.x.x. See <http://www.oracle.com/technetwork/database/features/jdbc/index-091264.html> for information.
 - (Version 11g) See <http://www.oracle.com/technetwork/database/features/jdbc/index-091264.html> for information.
 - Sterling B2B Integrator supports JDBC Type-4 drivers on a single node of a database except with Oracle Real Application Clusters (RAC). You can use the JDBC Type-4 drivers to connect with multiple nodes of an Oracle RAC.
- For Microsoft SQL Server:
 - Microsoft SQL Server 2014 - Use SQL Server JDBC Driver 4.0
 - Microsoft SQL Server 2012 - Use SQL Server JDBC Driver 4.0
 - Microsoft SQL Server 2008 - Use SQL Server JDBC Driver 3.0
 - Regardless of the Microsoft SQL Server version, if you are using the Lightweight JDBC Adapter, use SQL Server JDBC Driver 4.0

To obtain the driver, go to the Microsoft Download Center at <http://www.microsoft.com/en-us/download/default.aspx> and search for the required SQL Server JDBC driver version.

- For DB2, see <http://www.ibm.com/support/docview.wss?uid=swg21363866> for information.

ActiveMQ

Sterling B2B Integrator supports ActiveMQ version 5.0 and ActiveMQ version 5.2 for JMS (Java Message Service).

Virtualization support

Sterling B2B Integrator supports Virtualization on many systems.

Virtualization support for RISC-based systems

Operating system native clustering, partitioning, or virtualization are supported for all RISC-based platforms that Sterling B2B Integrator supports:

- AIX on P5 and above:
 - Partitioning/Virtualization – PowerVM, 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 i:

- Partitioning/Virtualization - PowerVM LPARS

Attention: IBM does not support Linux or Windows on virtualized RISC servers. Use caution when you use virtualization to avoid configuration or operations that change the IP addresses used by Sterling B2B Integrator. The mechanisms in this list are supported generally and the list does not imply that IBM uses these virtualization mechanisms internally.

Virtualization support for x86/x64-based systems

IBM cannot maintain all possible combinations of virtualized platforms. However, IBM generally supports 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.

Additional Considerations for RISC and x86/x64 architectures

IBM investigates and troubleshoots a problem until it is determined that the problem is due to virtualization. The following guidelines apply:

- If we suspect that a specific issue is happening because the system is virtualized and we cannot reproduce the problem in our non-virtualized environment, we will request that you demonstrate the issue to us in a live meeting session. IBM may also require that further troubleshooting be done jointly on your test environment, as we do not have all types and versions of VM software installed in-house.
- If we are unable to reproduce the issue in-house in a non-virtualized environment and troubleshooting together on your environment indicates that the issue is with the VM software itself, we will request that you open a Support ticket with the VM software provider. IBM can meet with the provider and you to share any information we have which would help the provider further troubleshoot the issue on your behalf.
- If you choose 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.

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 B2B 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 B2B Integrator is installed.

Perimeter servers are supported on the same operating system and JDK combinations as Sterling B2B 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 B2B Integrator.

Refer to the JDK instructions for the operating system on which you are installing the perimeter server.

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

- 100 MB disk space
- 1 GB memory

For more information about perimeter servers, see http://www.ibm.com/support/knowledgecenter/SS3JSW_5.2.0/com.ibm.help.perimeter_server.doc/overview.html, or the perimeter server installation instructions in the Sterling B2B Integrator installation documentation for your platform.

SWIFTNet7 adapter requirements

The SWIFTNet7 adapter communicates to the SWIFTNet Network through the SWIFTNet MEFG Servers for SWIFTNet version 7. It responds to and accepts InterAct and FileAct messages that are sent by remote SWIFTNet correspondents.

Oracle Solaris

If you are using the SWIFTNet7 Adapter on the Oracle Solaris platform, to receive the adapter updates, you must patch your Solaris operating system with Oracle Solaris 10 or higher.

If you are using SSL, you must also upgrade to the 0.9.8y OpenSSL library or the 1.0.1e OpenSSL library.

- For Oracle Solaris, the download is available from Oracle (<https://support.oracle.com/>).
- For OpenSSL, the download is available from OpenSSL (<http://www.openssl.org>).

IBM AIX

If you are using the SWIFTNet7 Adapter on the IBM AIX platform, you must patch your IBM XL C/C++ runtime library to July 2009 Runtime for IBM XL C++ for AIX. Additionally, you must upgrade your AIX operating system to Version 6.1 (or higher).

If you are using SSL, you must also upgrade to the 0.9.8y OpenSSL library or the 1.0.1e OpenSSL library.

- For OpenSSL, the download is available from OpenSSL (<http://www.openssl.org>).
- For IBM AIX, the download is available from IBM (<http://www-306.ibm.com/software/support/>).

Windows

If you are using the SWIFTNet7 Adapter on the Windows platform, you must upgrade your Windows operating system to at least Windows Server 2008 R2 (with all security patches).

If you are using SSL, you must also upgrade to the 0.9.8y OpenSSL library or the 1.0.1e OpenSSL library.

- For OpenSSL, the download is available from OpenSSL (<http://www.openssl.org>).
- For Windows, the download is available from Microsoft® (Windows Server 2008 R2 and Windows Server 2008).

Red Hat Enterprise Linux

To use the SWIFTNet7 Adapter on the Red Hat Enterprise Linux platform, you must be using Red Hat Enterprise Linux Server Release 6.1 or higher x64, 64-bit Kernel, including any patches within 6.x. Supported kernel version: 2.6.18-164.2.1.el5 or higher within version 2.x.

Install SWIFT Remote API v7.0 for Linux before installing MEFG. The SWIFT Remote API v7.0 for Linux download is available from SWIFT (<http://www.swift.com>).

If you are using SSL, you must upgrade the OpenSSL library to version 0.9.8y or 1.0.1e , or to the latest version available from Red Hat.

- For Red Hat Enterprise Linux, any necessary downloads are available from RedHat (<http://www.redhat.com/products/enterprise-linux/>).
- For OpenSSL, the download is available from RedHat (<http://www.redhat.com>).

WebSphere Transformation Extender integration

Integration with WebSphere Transformation Extender (WTX) on Red Hat Enterprise Linux for IBM System z requires WebSphere Transformation Extender version 8.4.0.3.14. Integration with WebSphere Transformation Extender (WTX) is not supported on IBM i.

Browser settings

For better visibility of the menu options in the Sterling B2B Integrator consoles, ensure that the dpi setting is 96 dpi.

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