



**IBM Sterling Connect:Direct for Microsoft Windows**  
**Version 4.6.00**  
Release Notes



This edition applies to the 4.6.00 Version of IBM Sterling Connect:Direct for Microsoft Windows and to all subsequent releases and modifications until otherwise indicated in new editions.

Before using this information and the product it supports, read the information in “Notices” on page 15.

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IBM Sterling Connect:Direct for Microsoft Windows

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# ***IBM Sterling Connect:Direct for Microsoft Windows Version 4.6.00 Release Notes***

The *IBM Sterling Connect:Direct for Microsoft Windows Version 4.6.00 Release Notes* document supplements IBM® Sterling Connect:Direct® for Microsoft Windows version 4.6 documentation and the documentation for the following Sterling Connect:Direct for Microsoft Windows related software: IBM Sterling Connect:Direct Requester, IBM Sterling Connect:Direct File Agent, and IBM Sterling Connect:Direct Secure Plus. Release notes are updated with each release of the product and contain last-minute changes and product requirements, as well as other information pertinent to installing and implementing Sterling Connect:Direct. Read the document in its entirety before installation.

The Sterling Connect:Direct package consists of the distribution media, and product publications.

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## **Requirements**

Sterling Connect:Direct for Microsoft Windows has the following requirements.

### **Hardware and Software**

Sterling Connect:Direct for Microsoft Windows and related software require the following hardware and software.

Component	Hardware	Software
Sterling Connect:Direct for Microsoft Windows	<ul style="list-style-type: none"> <li>◆ 512 MB RAM (min.) 1 GB or more recommended</li> <li>◆ 200 MB disk space</li> </ul>	<p>Windows operating system options:</p> <ul style="list-style-type: none"> <li>◆ Microsoft Windows XP Professional, SP3 or later</li> <li>◆ Microsoft Windows 2003 Server, SP 2 <ul style="list-style-type: none"> <li>◆ 32-bit version</li> <li>◆ 64-bit version on Itanium</li> <li>◆ x64—64-bit version on Xeon, Pentium with EM64T</li> </ul> </li> <li>◆ Microsoft Windows Vista Enterprise, SP 2</li> <li>◆ Microsoft Windows 2008 Server, SP 2</li> <li>◆ Microsoft Windows 2008 Server R2</li> <li>◆ Windows 7</li> <li>◆ Virtualization software—All of the above options under VMware Infrastructure 3 (VMware ESX server)</li> <li>◆ Clustered environment supported on Microsoft Windows 2003 Server, Microsoft Windows 2008 Server, and Microsoft Windows 2008 Server R2.</li> </ul>
Microsoft TCP/IP Support	Token ring or ethernet interface card	Microsoft TCP/IP WinSOCK interface installed as part of the Windows system
SNA Connectivity		<p>Install one of the following:</p> <ul style="list-style-type: none"> <li>◆ Microsoft SNA Server version 4.0, SP 3</li> <li>◆ Microsoft SNA Client version 4.0</li> <li>◆ Microsoft Host Integration Server 2006</li> <li>◆ IBM eNetwork Communications Server for Windows version 6.1</li> </ul> <p><b>Note:</b> The SNA API client is not supported when installed on a stand-alone computer. The server and client components must be installed on the same computer.</p>
Database Software		<p>Install one of the following before you install Sterling Connect:Direct:</p> <ul style="list-style-type: none"> <li>◆ Microsoft SQL Server Express 2008 SP1, provided as a separate installation with Sterling Connect:Direct.</li> <li>◆ Microsoft SQL Server 2005 or 2008—This software is not provided. You can configure SQL Server during the Sterling Connect:Direct installation.</li> <li>◆ MySQL Community Edition 5.5 with My SQL Connector-ODBC 3.51 (x86, 32-bit version)</li> </ul> <p>Download the software from the MySQL Community website at <a href="http://www.mysql.com/products/community/">http://www.mysql.com/products/community/</a>.</p> <p><b>Note:</b> Local-domain access must be available to Microsoft SQL Server.</p> <p>For more information, see the <i>IBM Sterling Connect:Direct for Microsoft Windows Getting Started Guide</i>.</p>

Component	Hardware	Software
Sterling Connect:Direct File Agent	Same as requirements for Sterling Connect:Direct for Microsoft Windows	Same requirements as Sterling Connect:Direct for Microsoft Windows
Sterling Connect:Direct Requester	Same as requirements for Sterling Connect:Direct for Microsoft Windows	Same requirements as Sterling Connect:Direct for Microsoft Windows <ul style="list-style-type: none"> <li>◆ Clustering is not supported. Refer to the Cluster Service Guide on Support On Demand.</li> </ul>
Sterling Connect:Direct for Microsoft Windows SDK	Same as requirements for Sterling Connect:Direct for Microsoft Windows	<ul style="list-style-type: none"> <li>◆ Microsoft Visual C++ 2008 to build the C++ samples</li> <li>◆ Microsoft Visual Basic 2008 to build the Visual Basic samples</li> </ul> <p><b>Note:</b> This software is required to build the samples, but is not required to run the samples.</p>

## Customer Center Portal User Name and Password

The Customer Center portal offers a single location to administer everything associated with your IBM products and services. To log in to the Customer Center, go to <http://customer.sterlingcommerce.com>. If you do not have a password, click the Join Now link and follow the instructions for new users. If you have a Support on Demand account, define a new password the first time you log on.

## Features and Enhancements

Sterling Connect:Direct for Microsoft Windows version 4.6 and its related software have the following features and enhancements.

Version	Feature or Enhancement	Description
4.6	Remove support for MySQL	MySQL is no longer installed with Sterling Connect:Direct.
	Support Microsoft SQL Server Express	Microsoft SQL Server Express 2008 SP1 is provided with Sterling Connect:Direct but must be installed separately.
	SHA-2 Support	The following digests have been added to Sterling Connect:Direct Secure Plus: SHA-224, SHA-256, SHA-384, SHA-512.
	Session Start Record	The Session Start Record (SSTR) on the PNODE now displays the name and number of the first Process executing within a session.
	Command Line Interface	A new command line switch (-l) has been added to display longer lines and not truncate information, such as long file names or sysopts strings.
	New SDK	A new SDK supports Microsoft .NET languages C# and VB .NET. Download this SDK from the Customer Center Portal.

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## Improvements to Documentation

IBM welcomes your suggestions for improvements to product documentation. As part of our continuing effort to improve the user experience and satisfaction with our documentation, the documentation for Sterling Connect:Direct for Microsoft Windows version 4.6 has the following change:

The documentation set has moved to a new XML-based solution that will allow dynamic update rather than require a major release for documentation updates.

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## Special Considerations

This section details special considerations to be aware of for your platform.

- ◆ The database retry feature retries a connection for up to eight minutes before a failure is allowed to continue. When you use client applications like Sterling Connect:Direct Requester, the application may appear to quit working. If this occurs, check the event log for database errors indicating a retry is in progress. If the retry is unsuccessful, you may need to recycle the Sterling Connect:Direct server.
- ◆ Microsoft SQL Server Express is not supported on Itanium 64 bit hardware. You may install Microsoft SQL Server as your database by attaching to a remote SQL installation from the Itanium computer.
- ◆ Microsoft SQL Server Express and Sterling Connect:Direct for Microsoft Windows must be installed by the same user. To allow two different users to install the two components, download Microsoft SQL Management Studio Express and modify the user configurations.
- ◆ Microsoft SQL Server Express fails to install when the computer name matches the user account performing the installation. Install Microsoft SQL Server using a different user account.
- ◆ If the SQL Server Express installation fails, look in the installation logs, located in the *Microsoft SQL Server installation directory*\100\Setup Bootstrap\Log. A reboot may be required to complete the installation. After you reboot the computer, start the installation again. If this does not solve the issue, consult the Microsoft support site.
- ◆ By default, SQL Server Express allows only the installing user ID to access the message lookup database. Add a user to the SQL Server Express database to allow access to Connect:Direct for Windows by functional authorities and the message lookup utility. A login failure occurs if no additional user is added.
- ◆ Following are the SQLServer2008Express installation defaults:
  - ◆ Installs to the Program Files directory on drive C.
  - ◆ Windows Authentication mode is enabled
  - ◆ The SA Account is disabled
  - ◆ The instance name is set to CDWindows



- ◆ To change the default authentication mode with SQL Server Express, install the product using Tools, available from the Microsoft Website. Use Microsoft SQL Management Studio included with Tools, to make authentication mode changes.
- ◆ SQL Server Express does not support clustering.

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## Known Restrictions

Sterling Connect:Direct for Microsoft Windows and its related software have the following known restrictions.

### Sterling Connect:Direct for Microsoft Windows

Sterling Connect:Direct for Microsoft Windows version 4.6 has the following restrictions:

- ◆ You can keep an earlier version of Sterling Connect:Direct on the computer on which you are installing Sterling Connect:Direct for Microsoft Windows version 4.6.
- ◆ Sterling Connect:Direct for Microsoft Windows version 4.6 SNMP and NT Broadcast do not send messages on 64-bit operating systems.
- ◆ Built-in variables should only be specified in a SUBMIT statement within a Process if the statement will be executed on a Sterling Connect:Direct for Microsoft Windows version 4.5 (or later) node or another Sterling Connect:Direct version that supports built-in variables.
- ◆ Temporary addresses, which are a security feature of the IPv6 protocol, are generated automatically by the operating system and are used only for outbound connections. These addresses have a short life span and are replaced by other temporary outbound addresses. This feature of the IPv6 protocol causes problems with Netmap Checking. If the outgoing address of the PNODE randomly changes and netmap checking is enabled by the SNODE, the SNODE always refuses the connection because the IP address of the PNODE never matches the IP address configured for it.

You can work around the problem created by temporary addresses in two ways:

- ◆ On the PNODE, configure **outgoing.address** in the initialization parameters file using the IPv6 address for the PNODE server. This ensures that the IP address that the PNODE uses to create a connection to a remote node is always constant. Consider the following:
  - If a PNODE has several IP addresses configured, for example, two IPv6 addresses and two IPv4 addresses, configure the **outgoing.address** initialization parameter with one IPv6 address. This address can then be used to connect to an SNODE configured with either IPv6 or IPv4 addresses.
  - If a PNODE wants to use an IPv4 address to connect to an SNODE that has both IPv6 and IPv4 IP addresses, ensure that the **tcp.api.port** and **tcp.host.port** initialization parameters of the SNODE are configured with an IPv4 address and port.
- ◆ Disable temporary addresses for the PNODE. This is a configuration option in the Windows networking component. If the temporary addresses are not generated, connections to a remote that use the IPv6 protocol use the configured IPv6 address.

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**Note:** To disable temporary addresses in the Windows Vista OS, issue the following command from a command prompt: **netsh interface ipv6 set privacy state=disabled**. For other Windows operating systems, see the Microsoft Windows documentation.

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See RFC 3041 for more information on IPv6 temporary addresses.

- ◆ If you modify user authorizations from the Sterling Connect:Direct Secure Plus server and the Sterling Connect:Direct Requester is attached, you must detach and reattach to the Sterling Connect:Direct Secure Plus server. When you reattach to the Sterling Connect:Direct Secure Plus server, Sterling Connect:Direct Requester reads the updated user information.
- ◆ Sterling Connect:Direct for Microsoft Windows previously supported the DESKTOP(YES) parameter in the SYSOPTS statement of a Sterling Connect:Direct Process. This parameter enabled user programs launched by the Sterling Connect:Direct for Microsoft Windows service to interact with the Windows desktop. Currently this parameter functions only on versions of Windows prior to Windows Vista and Windows Server 2008. For security reasons, Microsoft has removed support for Interactive Services from those two operating systems. Microsoft blocks any attempt by a Windows service to interact with the desktop. Sterling Connect:Direct administrators should begin to remove the DESKTOP(YES) parameter from all Sterling Connect:Direct Process scripts. Alternatively, you can switch DESKTOP(YES) references to DESKTOP(NO).

To ease the transition of upgrading to Sterling Connect:Direct for Microsoft Windows, Sterling Connect:Direct detects when a process using DESKTOP(YES) is submitted on a Windows system that does not support Interactive Services. When DESKTOP(YES) is detected, Sterling Connect:Direct for Microsoft Windows dynamically switches to DESKTOP(NO) and records the following warning in the statistics:

```
LPRS020I Invalid DESKTOP value specified.
DESKTOP=YES is not supported on this version of Windows. The RUN TASK / JOB
will continue with DESKTOP reset to NO.
```

After this warning is written to Sterling Connect:Direct statistics, the Process is allowed to continue as if DESKTOP(NO) had been originally specified.

This transitional feature works only if the RUN TASK or RUN JOB is capable of running without desktop interaction. That is, if manually switching DESKTOP(YES) to DESKTOP(NO) would cause the Sterling Connect:Direct Process to fail, then the dynamic switch to DESKTOP(NO) will not be an effective solution. If the program executed by the RUN TASK/JOB is unable to execute without user interaction then that program must be changed so that it no longer needs user interaction.

- ◆ Under conditions of high CPU usage, a Sterling Connect:Direct for Microsoft Windows Process running over UDT may be interrupted by a lost connection. Should this occur, Sterling Connect:Direct retries the Process. If connection losses due to high CPU usage are occurring, their frequency can be reduced by restricting the number of concurrent UDT sessions through netmap session limits.
- ◆ For Sterling Connect:Direct for Microsoft Windows version 4.6 to work using the UDT protocol with Sterling Connect:Direct for z/OS 4.8.00, you must install a fix for the Sterling Connect:Direct for z/OS server. Without this fix (T014159), the first time a Process is initiated in Sterling Connect:Direct for Microsoft Windows using UDT, the Process fails with a “Connection Broken” error. The RPLERRCK DD indicates the UDT error code of 2001.

## Restrictions for Related Software

The related software has the following restrictions:

Related Software	Restriction
Sterling Connect:Direct Requester	<p>The following functions are not supported for Sterling Connect:Direct Requester connected to a Sterling Connect:Direct for UNIX or OpenVMS server:</p> <ul style="list-style-type: none"> <li>◆ Server initialization parameters (initparms) maintenance</li> <li>◆ Network map maintenance</li> <li>◆ User authorization management</li> <li>◆ Remote user proxies</li> <li>◆ List all users</li> <li>◆ New translation table</li> <li>◆ Selecting statistics by copy file name (No statistics are available for OpenVMS servers.)</li> </ul> <hr/> <p>The following Trace facility options are not supported for Sterling Connect:Direct Requester connected to Sterling Connect:Direct for UNIX or OpenVMS servers:</p> <ul style="list-style-type: none"> <li>◆ Ability to wrap file</li> <li>◆ Ability to set maximum file size</li> <li>◆ Ability to do MAIN trace</li> <li>◆ Ability to trace by Process number, Process name, or destination (advanced options)</li> </ul>

## Installation Notes

Before you install Sterling Connect:Direct for Microsoft Windows and its related applications, read all the information in this section and follow all the guidelines.

- ◆ Complete any worksheets before installing Sterling Connect:Direct for Microsoft Windows and its related software.
- ◆ For instructions on installing Sterling Connect:Direct for Microsoft Windows in a cluster environment, refer to the white paper titled *Cluster Service Guide*, available at the following link: <http://customer.sterlingcommerce.com>.
- ◆ Review your security configuration to ensure compatibility with IBM products.
- ◆ Verify that you have the current updates for Sterling Connect:Direct for Microsoft Windows, Sterling Connect:Direct Requester, Sterling Connect:Direct File Agent, and Sterling Connect:Direct Secure Plus for Microsoft Windows.
- ◆ Print and review *IBM Sterling Connect:Direct for Microsoft Windows Getting Started Guide*.

## Sterling Connect:Direct Requester

Before you install Sterling Connect:Direct Requester, complete the following pre-installation tasks:

- ◆ Define users for Windows.
- ◆ Configure and test TCP/IP connectivity by configuring a valid IP address, IP subnet, and IP gateway.

If the communications partner is on another subnet or network and a firewall is between the communications partner and the computer, verify that the Access Control Lists (ACLs) are correctly configured to allow access to and from the IP address and IP ports. Contact the security administrator for more information on configuring the ACLs.

## Sterling Connect:Direct File Agent

Before you install Sterling Connect:Direct File Agent for Microsoft Windows, read information in this section and follow the guidelines.

- ◆ Review the information on using and configuring Sterling Connect:Direct File Agent in *IBM Sterling Connect:Direct for Microsoft Windows Getting Started Guide*.
- ◆ When you install Sterling Connect:Direct File Agent initially or upgrade to a later version, it is installed as a service on Windows using the Local System Account. If you change the user account for File Agent after installation, each time you perform an upgrade, you must change from the Local System Account to a different user account for the service, if necessary.

## Sterling Connect:Direct Secure Plus for Microsoft Windows

Before you install Sterling Connect:Direct Secure Plus for Microsoft Windows, read all the information in this section and follow the guidelines.

- ◆ Print and review *IBM Sterling Connect:Direct Secure Plus for Microsoft Windows Implementation Guide*.
- ◆ To install Sterling Connect:Direct Secure Plus at the same time that you install Sterling Connect:Direct, follow the instructions in *IBM Sterling Connect:Direct for Microsoft Windows Getting Started Guide*.
- ◆ When you upgrade from a previous version of Sterling Connect:Direct Secure Plus for Microsoft Windows, the parameters file is converted and can be used with the new version.

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## Upgrading Guidelines

Observe the following guidelines for upgrading Sterling Connect:Direct for Microsoft Windows and its related software. The procedure for applying patches is available in a whitepaper on the Product Information page for Sterling Connect:Direct for Microsoft Windows at <http://customer.sterlingcommerce.com>.

## Sterling Connect:Direct for Microsoft Windows

Observe the following guidelines:

- ◆ Before you perform any upgrade procedure, create backup copies of the following Sterling Connect:Direct for Microsoft Windows installation files:
  - ◆ Directory: C:\Program Files\Sterling Commerce\Connect Direct v4.*n.nn*, where *n.nn* represents your current version number
  - ◆ Registry on 64-bit operating systems: HKEY\_LOCAL\_MACHINE\SOFTWARE\Wow6432Node\Sterling Commerce\Connect:Direct for Windows NT\v4.*n.nn*, where *n.nn* represents your version number
- ◆ The Microsoft Access database is no longer supported.
- ◆ If you are upgrading from an earlier version of Sterling Connect:Direct, the installation automatically copies the network map and user definitions. You no longer have to export the definitions before upgrading Sterling Connect:Direct Requester.
- ◆ Microsoft Installation (MSI) does not recognize the Install Shield installations; therefore, Install Shield and MSI cannot point to the same installation folder or you may have problems uninstalling Sterling Connect:Direct. If you upgrade Sterling Connect:Direct, the installation copies the folders of the older version of Sterling Connect:Direct to the new installation directory before the new version is installed. The new version overwrites existing files in the destination folder.
- ◆ The ODBC DSN is updated to include new DSN names to prevent previous uninstalls from removing them. DBWiz updates the configuration of SQL Server databases.

## Upgrading Guidelines for Related Software

Observe the following additional guidelines:

Related Software	Guideline
Sterling Connect:Direct Requester	The installation has changed from a single-user installation to all users. Any user who is logged on can start Sterling Connect:Direct Requester. Because the configuration is user specific, Sterling Connect:Direct Requester automatically creates the base registry key if one does not exist.
	Microsoft Installation (MSI) does not recognize Install Shield installations. Install Shield and MSI cannot point to the same installation folder or you may have problems uninstalling Sterling Connect:Direct. If you upgrade Sterling Connect:Direct Requester, the installation copies the folders of the older version of Sterling Connect:Direct Requester to the new installation directory before the new version is installed. The new version overwrites existing files in the destination folder.
Sterling Connect:Direct File Agent	When you upgrade Sterling Connect:Direct File Agent, it is installed as a service on Windows using the Local System Account. If you change the user account for Sterling Connect:Direct File Agent after installation, each time you perform an upgrade, you must change from the Local System Account to a different user account for the service.

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## Documentation Updates

The Sterling Connect:Direct for Microsoft Windows version 4.6 documentation requires no last-minute updates.

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## Sterling Connect:Direct Documentation

Sterling Connect:Direct documentation is available on the product media. You can view or download documentation from the IBM Customer Center Portal at <http://customer.sterlingcommerce.com>. You need a Customer Center user name and password. See *Customer Center Portal User Name and Password* on page 7 for instructions.

The Sterling Connect:Direct for Microsoft Windows documentation consists of:

- ◆ *IBM Sterling Connect:Direct for Microsoft Windows Getting Started Guide*
- ◆ *IBM Sterling Connect:Direct for Microsoft Windows System Guide*
- ◆ *IBM Sterling Connect:Direct for Microsoft Windows version 4.6 Release Notes*
- ◆ *IBM Sterling Connect:Direct for Microsoft Windows SDK Programmers Guide*
- ◆ *IBM Sterling Connect:Direct for Microsoft Windows .NET SDK User's Guide*
- ◆ *IBM Sterling Connect:Direct Secure Plus for Microsoft Windows Implementation Guide*
- ◆ IBM Sterling Connect:Direct for Microsoft Windows Help
- ◆ IBM Sterling Connect:Direct File Agent Help
- ◆ IBM Sterling Connect:Direct Secure Plus Administration Tool Help

Documentation for the following supplemental products is available on additional distribution media and from the Documentation Library on the IBM Customer Center Web site:

- ◆ IBM Sterling Connect:Direct Browser User Interface
- ◆ IBM Sterling Certificate Wizard
- ◆ *IBM Sterling Connect:Direct Process Language Reference Guide*. This document contains information on the Sterling Connect:Direct Process Language. It is updated with every release of Sterling Connect:Direct on any platform. For the latest information, refer to the Sterling Connect:Direct Process Web site at:

<http://www.sterlingcommerce.com/documentation/processes/processhome.html>.

The *IBM Sterling Connect:Direct Compatibility and Connectivity Chart* contains the latest information about currently supported versions and platforms of Sterling Connect:Direct and their compatibility and connectivity. This document is available as a PDF file from the Customer Center Documentation Library.

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