

Sterling Commerce  
Product Documentation



**Connect:Direct® for Windows Version 4.4.01**

Release Notes

**Sterling Commerce**  
An IBM Company

**Second Edition**

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# ***Connect:Direct for Windows Version 4.4.01 Release Notes***

The *Connect:Direct for Windows Version 4.4.01 Release Notes* document supplements Connect:Direct for Windows version 4.4 documentation and the documentation for Connect:Direct Requester, Connect:Direct for Windows File Agent, and Connect:Direct Secure+ Option for Windows. 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 Connect:Direct for Windows. Read the entire document before installation.

The Connect:Direct for Windows package consists of the distribution media, a product key, and product publications. The Connect:Direct for Windows application is distributed as follows:

- ◆ File downloaded from the Sterling Commerce Electronic Software Distribution Portal  
See *Installing Connect:Direct from the ESD Portal* on page 14 for instructions.
- ◆ CD when Sterling Commerce ships the physical distribution media

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## **Requirements**

Connect:Direct for Windows has the following requirements.

## Hardware and Software

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

Component	Hardware	Software
Connect:Direct for 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—Refer to the whitepaper: <i>Connect:Direct for Windows on Windows Server 2008</i> available at the following link: <a href="http://customer.sterlingcommerce.com">http://customer.sterlingcommerce.com</a>.</li> <li>◆ Microsoft Windows 2008 Server R2</li> <li>◆ Windows 7</li> <li>◆ Virtualization software—All of the above options running 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. Refer to <i>Cluster Service Guide 4.4.00</i> on <a href="http://customer.sterlingcommerce.com">http://customer.sterlingcommerce.com</a>.</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 on a stand-alone computer. The server and client must be installed on the same computer.</p>

Component	Hardware	Software
Database Software		<p>Install one of the following:</p> <ul style="list-style-type: none"> <li>◆ Microsoft SQL Server Express 2008 SP1, provided as a separate installation.</li> <li>◆ Microsoft SQL Server 2005 or 2008—Not provided. You can configure SQL Server during the Connect:Direct installation.</li> </ul> <p><b>Note:</b> Local-domain access must be available to Microsoft SQL Server.</p> <p>For more information, see the <i>Connect:Direct for Windows Getting Started Guide</i>.</p>
Connect:Direct for Windows File Agent	Same requirements as Connect:Direct for Windows	
Connect:Direct Requester	Same requirements as Connect:Direct for Windows	

## License Key File

The license key file identifies the features available at a site. When you purchase Connect:Direct for Windows, a temporary key file is sent to enable operation for a limited time. You must replace the temporary key with a permanent one to continue running Connect:Direct. The temporary and permanent key files are supplied as text files named *nnnnn.txt*, where *nnnnn* is a number assigned by Sterling Commerce. Each key file is sent to you as an attachment to an e-mail. See the *Sterling MFT License Key Guide* for instructions to obtain the permanent license key file and install the license key.

## Customer Center Portal User Name and Password

The Customer Center portal offers a single location to administer everything associated with your Sterling Commerce products and services. It provides quick access to online tools, on-demand applications, community forums, product information, industry news, support updates, and support case management. We've combined the current content of Sterling customer-facing portals into a single location—Innovation Gateway, STUN (Sterling Commerce Technical Users Network), and Support on Demand—and extended it across all products and applications within Customer Center.

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

Connect:Direct for Windows version 4.4.01 and its related software have the following features.

Feature or Enhancement	Description
Removed support for MySQL	MySQL is no longer installed or supported with Connect:Direct.
Support Microsoft SQL Server Express	Microsoft SQL Server Express 2008 SP1 is provided with Connect:Direct, but you install it separately.
SHA-2 Support	The following digests have been added to Secure+ Option: SHA-224, SHA-256 and 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) is added to display longer lines and prevent truncation, of items such as long file names or sysopts strings.
API Inactivity Timeout	A global API inactivity timeout can be specified. The local node initialization parameter prevents client API connections that do not terminate normally from increasing until the maximum connections is reached (SR1366885).
Database Connection Retry During Startup	If the database is unavailable when Connect:Direct for Windows attempts to connect, connection retries are attempted (SR1370766).
Group Functional Authorities	Support for group functional authorities, including local and domain groups.
Emergency Key Restriction	A time limit is set on emergency license keys.
Support for Sterling Crypto-C and FIPS Mode	Sterling Crypto-C is a cryptographic module that has been submitted to NIST for FIPS 140-2 validation. Connect:Direct for Windows 4.4.00 patch 60 uses Sterling Crypto-C to perform Secure+ SSL/TLS transfers. For more information refer to Running Connect:Direct for Windows 4.4.00 in FIPS Mode white paper on Support On Demand.

## Improvements to Documentation

Sterling Commerce welcomes suggestions for improvements to documentation. Submit suggestions to [ConnectDoc@stercomm.com](mailto:ConnectDoc@stercomm.com). As part of our effort to improve user experience and satisfaction, documentation for Connect:Direct version 4.4 has the following change:



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## Obtaining Product Updates

Product updates and update summaries, including issues resolved for previous versions of Connect:Direct for Windows, are available on the Customer Center Web site.

To obtain product updates:

1. Log on to your Customer Center account to display your customer Home page.
2. From the **Product Support** menu on the left, click **Connect > Product Updates/Download**.
3. Follow the links for your product until you locate the updates for your product and platform.

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## Special Considerations

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

- ◆ Database retry retries a connection for up to eight minutes before a failure is allowed to continue. When you use client applications like 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 it is unsuccessful, you may need to recycle the Connect:Direct server.
- ◆ Microsoft SQL Server Express has the following special considerations:
  - ◆ Not supported on Itanium 64 bit hardware. Install SQL Server as your database by attaching to a remote SQL installation from the Itanium computer.
  - ◆ Must be installed by the same user that installs Connect:Direct for Windows. To allow two different users to install the components, download Microsoft SQL Management Studio Express and modify the user configurations.
  - ◆ Add a user to the SQL Server Express database to allow access to Connect:Direct for Windows using functional authorities and using the message lookup utility. Failure to add the user results in a login failure.
  - ◆ Does not support clustering.
- ◆ Do not install Connect:Direct Requester in a cluster environment. Refer to the Cluster Service Guide. To access the document, select Product Support>Connect>Product Information>Connect Direct. Under Workstation, click Connect:Direct Windows.

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## Connect:Direct Known Restrictions

Connect:Direct for Windows has the following known restrictions:

- ◆ You can keep an earlier version of Connect:Direct for Windows on the computer on which you are installing Connect:Direct for Windows version 4.4.01, but you cannot run both versions simultaneously. Attempting to do so will result in a license key violation error.

For a temporary license key that will allow you to run both versions at the same time, go to [https://support.sterlingcommerce.com/forms/connect\\_key\\_request.aspx](https://support.sterlingcommerce.com/forms/connect_key_request.aspx).

- ◆ Connect:Direct for Windows version 4.4.01 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 Connect:Direct for Windows version 4.4 (or later) node or another 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. See RFC 3041 for more information on IPv6 temporary addresses.
- ◆ If you modify user authorizations from the Connect:Direct server and Connect:Direct Requester is attached, you must detach and reattach to the Connect:Direct server. When you reattach, Connect:Direct Requester reads the updated user information.
- ◆ Connect:Direct for Windows previously supported the DESKTOP(YES) parameter in the SYSOPTS statement of a Connect:Direct Process. This parameter enabled user programs launched by the Connect:Direct 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. Connect:Direct administrators should begin to remove the DESKTOP(YES) parameter from all Connect:Direct for Windows Process scripts. Alternatively, you can switch DESKTOP(YES) references to DESKTOP(NO).

To ease the transition of upgrading to Connect:Direct for Windows, 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, Connect:Direct 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 Connect:Direct statistics, the Process is allowed to continue as if DESKTOP(NO) had been originally specified.

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

## Restrictions for Sterling Related Software

The related software has the following restrictions:

Related Software	Restriction
Connect:Direct Requester	<p>The following functions are not supported for Connect:Direct Requester connected to a 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 Connect:Direct Requester connected to Connect:Direct for UNIX for 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 Connect:Direct and its related applications, read all the information in this section and follow all the guidelines.

- ◆ Complete any worksheets before installing Connect:Direct and its related software.
- ◆ For instructions on installing Connect:Direct for Windows in a cluster environment, refer to the white paper titled *Cluster Service Guide* version 4.4.00, available at the following link: <http://customer.sterlingcommerce.com>

- ◆ Review your security configuration to ensure compatibility with Sterling products.
- ◆ Verify that you have the current updates for Connect:Direct for Windows, Connect:Direct Requester, Connect:Direct for Windows File Agent, and Connect:Direct Secure+ Option for Windows. Access current updates, including instructions for applying updates with product fixes and enhancements, from <http://customer.sterlingcommerce.com>. See *Obtaining Product Updates* on page 9 for instructions.
- ◆ Print and review *Connect:Direct for Windows Getting Started Guide*.

## Connect:Direct Requester

Before you install Connect:Direct Requester, complete the following tasks:

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

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.

## Connect:Direct File Agent

Before you install Connect:Direct File Agent, read this section and follow the guidelines.

- ◆ Review information on using and configuring Connect:Direct for Windows File Agent in *Connect:Direct for Windows Getting Started Guide*.
- ◆ When you install File Agent 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, each time you perform an upgrade, you must change from the Local System Account to a different user account for the service, if necessary.

## Connect:Direct Secure+ Option for Windows

Before you install Connect:Direct Secure+ Option, read this section and follow the guidelines.

- ◆ Print and review *Connect:Direct Secure+ Option for Windows Implementation Guide*.
- ◆ To install Secure+ Option at the same time that you install Connect:Direct for Windows, follow the instructions in *Connect:Direct for Windows Getting Started Guide*.
- ◆ When you upgrade from a previous version of Connect:Direct Secure+ Option for 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 Connect:Direct for Windows and its related software. The procedure for applying patches is available in a whitepaper on the Product Information page for Connect:Direct for Windows at <http://customer.sterlingcommerce.com>.

### Connect:Direct for Windows

Observe the following guidelines:

- ◆ Before you perform any upgrade procedure, create backup copies of the following Connect:Direct for Windows installation files:
  - ◆ Directory: C:\Program Files\Sterling Commerce\Connect Direct v4.*n.nn*, where *n.nn* represents your current version number
  - ◆ Registry: HKEY\_LOCAL\_MACHINE\SOFTWARE\Sterling Commerce\Connect:Direct for Windows NT\v4.*n.nn*, where *n.nn* represents your version number
- ◆ Microsoft Access database is no longer supported.
- ◆ Microsoft MySQL database is no longer supported.
- ◆ If you are upgrading from an earlier version of Connect:Direct for Windows, the installation automatically copies the network map and user definitions. You no longer must export the definitions before upgrading 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 Connect:Direct for Windows. If you upgrade Connect:Direct for Windows, the installation copies the folders of the older version of Connect:Direct for Windows to the new installation directory before the new version is installed. The new version overwrites existing files in the destination folder.
- ◆ ODBC DSN is updated to include new DSN names to prevent previous uninstalls from removing them. DBWiz updates the configuration of Microsoft Access and SQL Server databases.

## Upgrading Guidelines for Related Software

Observe the following additional guidelines:

Related Software	Guideline
Connect:Direct Requester	<p>The installation has changed from a single-user installation to all users. Any user who is logged on can start Connect:Direct Requester. Because the configuration is user specific, Connect:Direct Requester automatically creates the base registry key if one does not exist.</p> <p>Microsoft Installation (MSI) does not recognize Install Shield installations; therefore, Install Shield and MSI cannot point to the same installation folder or you may have problems uninstalling Connect:Direct for Windows. If you upgrade Connect:Direct Requester, the installation copies the folders of the older version of Connect:Direct Requester to the new installation directory before the new version is installed. The new version overwrites existing files in the destination folder.</p>
Connect:Direct for Windows File Agent	<p>When you upgrade File Agent, 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.</p>

## Installing Connect:Direct from the ESD Portal

These instructions contain procedures for downloading and installing the Connect:Direct for Windows version 4.4.01 release and its related applications, including documentation. The file you download from the Electronic Software Distribution (ESD) Portal is named ESD file.

Before you begin the installation, download and review the Connect:Direct for Windows documentation. See *Connect:Direct Documentation* on page 15 for details.

## Downloading and Extracting Product Files

These instructions assume that you download the installation file to a computer running Windows and transfer it to the system where you will install it, unless Windows is the target system.

To download the ESD file:

1. Log in to the ESD Portal using the instructions in *Access the ESD Portal* in your Order Confirmation e-mail from Sterling Commerce. The Download Area is displayed.
2. Find Connect:Direct for Windows version 4.4.01 and click **Download**.
3. In the **File Download** dialog box, click **Save**.
4. When the **Save As** dialog box opens, specify the save location, or save the file to your desktop.

**Note:** If Internet Explorer adds a number in brackets to the name of the downloaded file (for example, *ConnectDirect\_platform\_1[1].0.01.bin*), rename the file on the Windows system before you transfer it in binary mode to the system where it will be installed.

5. Extract the files to the default location or to another location by double-clicking the ESD file icon to start the **WinZip Self-Extractor**.
6. Refer to *Connect:Direct for Windows Getting Started Guide* for instructions to install the applications.

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## Documentation Updates

The Connect:Direct for Windows version 4.4 documentation requires no last-minute updates.

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## Connect:Direct Documentation

Connect:Direct documentation is available on the product media. You can view or download documentation from the Sterling Commerce 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 Connect:Direct for Windows documentation consists of:

- ◆ *Connect:Direct for Windows Getting Started Guide*
- ◆ *Connect:Direct for Windows System Guide*
- ◆ *Connect:Direct for Windows Version 4.4.01 Release Notes*
- ◆ *Connect:Direct for Windows SDK Programmers Guide*
- ◆ *Connect:Direct for Windows SDK Version 4.4.01 Release Notes*
- ◆ *Connect:Direct Secure+ Option for Windows Implementation Guide*
- ◆ Connect:Direct for Windows Help
- ◆ Connect:Direct Windows File Agent Help
- ◆ Connect:Direct Secure+ Option Administration Tool Help

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

- ◆ Connect:Direct Browser User Interface
- ◆ Sterling Certificate Wizard
- ◆ *Connect:Direct Process Language Reference Guide*. This document contains information on the Connect:Direct Process Language. It is updated with every release of Connect:Direct on any platform. For the latest information, refer to the Connect:Direct Process Web site at: <http://www.sterlingcommerce.com/documentation/processes/processhome.html>.

The *Connect:Direct Compatibility and Connectivity Chart* contains the latest information about currently supported versions and platforms of Connect:Direct and their compatibility and connectivity. This document is available as a PDF file from the Customer Center Documentation Library. After you log in to the Customer Center Web site, click the Support Center tab and then navigate the following path to access the file: **Product Support > Connect > Connect Documentation > MFT Documentation Homepage > Connect:Direct > Connect:Direct Compatibility Chart**.

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zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.3, July 18th, 2005

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