Sterling Commerce
Product Documentation

Connect:Direct® for Windows Version 4.5.01

Release Notes

Sterling Commerce
An IBM Company

Connect:Direct for Windows Version 4.5.01 Release Notes

Second Edition

Contents

Connect:Direct for Windows Version 4.5.01 Release Notes

The *Connect:Direct for Windows Version 4.5.01 Release Notes* document supplements Connect:Direct for Windows version 4.5 documentation and the documentation for the following Connect:Direct for Windows related software: 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 document in its entirety 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

✦ CD when Sterling Commerce ships the physical distribution media

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	512 MB RAM (min.) 1 GB or more recommended 200 MB disk space	Windows operating system options:
		• Microsoft Windows XP Professional, SP3 or later
		• Microsoft Windows 2003 Server, SP 2
		    • 32-bit version
		    • 64-bit version on Itanium
		    • x64—64-bit version on Xeon, Pentium with EM64T
		• Microsoft Windows Vista Enterprise, SP 2
		• Microsoft Windows 2008 Server, SP 2—Refer to the whitepaper: *Connect:Direct for Windows on Windows Server 2008* available at the following link: http://customer.sterlingcommerce.com.
		• Microsoft Windows 2008 Server R2
		• Windows 7
		• Virtualization software—All of the above options running under VMware Infrastructure 3 (VMware ESX server)
		• Clustered environment supported on Microsoft Windows 2003 Server, Microsoft Windows 2008 Server, and Microsoft Windows 2008 Server R2. Refer to Cluster Service Guide 4.4.00 on http://customer.sterlingcommerce.com.

Microsoft TCP/IP Support	Token ring or ethernet interface card	Microsoft TCP/IP WinSOCK interface installed as part of the Windows system
SNA Connectivity		Install one of the following: • Microsoft SNA Server version 4.0, SP 3 • Microsoft SNA Client version 4.0 • Microsoft Host Integration Server 2006 • IBM eNetwork Communications Server for Windows version 6.1 **Note:** 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.

Component	Hardware	Software
Database Software		Install one of the following:
		◆ Microsoft SQL Server Express 2008 SP1, provided as a separate installation with Connect:Direct for Windows.
		◆ Microsoft SQL Server 2005 or 2008—This software is not provided. You can configure SQL Server during the Connect:Direct installation.
		Note: Local-domain access must be available to Microsoft SQL Server.
		For more information, see the *Connect:Direct for Windows Getting Started Guide.*
Connect:Direct for Windows File Agent	Same as requirements for Connect:Direct for Windows	Same requirements as Connect:Direct for Windows
Connect:Direct Requester	Same as requirements for Connect:Direct for Windows	Same requirements as Connect:Direct 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 of Connect:Direct for Windows for a limited time. You must replace the temporary key with a permanent one to continue running Connect:Direct. Each key file is sent to you as an attachment to an e-mail. See the *Sterling MFT License Key Guide* for instructions.

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 4.5.01 and its related software have the following features and enhancements.

Version	Feature or Enhancement	Description
4.5.01	Remove support for MySQL	MySQL is no longer installed with Connect:Direct.
	Support Microsoft SQL Server Express	Microsoft SQL Server Express 2008 SP1 is provided with Connect:Direct but must be installed separately.
	SHA-2 Support	The following digests have been added to Secure+ Option: 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.
4.5.00	API Inactivity Timeout	A global API inactivity timeout can now be specified. The local node initialization parameter prevents client API connections not terminating normally from increasing until the maximum number of connections is reached (SR1366885).
	UDT Protocol Support	UDP-based data transport (UDT) protocol support added.
	Trace Timestamp Precision Improvement	Trace timestamp precision extended to microseconds to provide more detailed time information in traces.
	Database Connection Retry During Startup	If the Connect:Direct database is unavailable when Connect:Direct for Windows attempts to connect, database connection retries are attempted (SR1370766).
	Group Functional Authorities	Support for group functional authorities, including local and domain groups.
	Strong Password Encryption	Added strong password encryption for establishing user password access.
	Emergency Key Restriction	An upper limit has been placed on the time-to-live of emergency license keys.
	64K Text-mode Transfers	The transfer limit for lines in your Process has been increased to 64K characters using datatype(text) from 32K.
	Query by Node Type	You can now query by node type (PNODE or SNODE) when using the Filter Using Selection Criteria Pages for Select Process/Process Monitor and Select Statistics.

Improvements to Documentation

Sterling Commerce welcomes your comments and suggestions for improvements to product documentation. Submit suggestions for improvements to ConnectDoc@stercomm.com. As part of our continuing effort to improve the user experience and satisfaction with our documentation, the documentation for Connect:Direct for Windows version 4.5 has the following change:

The documentation set has been moved to a new XML-based solution that in the future will allow dynamic update rather than requiring a major release for documentation updates. This change to documentation is otherwise intended to be invisible to the user.

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.

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 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 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 Connect:Direct for Windows must be installed by the same user. If you want to allow two different users to install the two components, download Microsoft SQL Management Studio Express and modify the user configurations.

Known Restrictions

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

Connect:Direct

Connect:Direct for Windows version 4.5.01 has the following 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 4.5.01, 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.

✦ Connect:Direct for Windows version 4.5.01 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 4.5 (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.

> **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.

See RFC 3041 for more information on IPv6 temporary addresses.

✦ If you modify user authorizations from the Connect:Direct server and the Connect:Direct Requester is attached, you must detach and reattach to the Connect:Direct server. When you reattach to the Connect:Direct server, 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 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 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 Connect:Direct Process running over UDT may be interrupted by a lost connection. Should this occur, 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 Connect:Direct for Windows version 4.5.01 to work using the UDT protocol with servers running Connect:Direct for z/OS 4.8.00, you must install a fix for the Connect:Direct for z/OS server. Without this fix (T014159), the first time a Process is initiated in Connect:Direct for Windows using UDT, the Process will fail with a "Connection Broken" error. The RPLERRCK DD indicates the UDT error code of 2001. This information needs to be included in the C:D Windows 4.5.01 release notes.

✦ If you install the SQL Server 2008 Express, the program is installed to the program files directory on drive C. Windows authentication mode is enabled, the SA account is disabled, and the instance is named CDWindows. To use using different settings, install SQL Server Express with Tools from the Microsoft Website. Microsoft SQL Management Studio is included with Tools and is required to change the default authentication mode.

✦ SQL Server Express does not support clustering.

Restrictions for Related Software

The related software has the following restrictions:

Related Software	Restriction
Connect:Direct Requester	The following functions are not supported for Connect:Direct Requester connected to a Connect:Direct for UNIX or OpenVMS server: ◆ Server initialization parameters (initparms) maintenance ◆ Network map maintenance ◆ User authorization management ◆ Remote user proxies ◆ List all users ◆ New translation table ◆ Selecting statistics by copy file name (No statistics are available for OpenVMS servers.)
	The following Trace facility options are not supported for Connect:Direct Requester connected to Connect:Direct for UNIX for or OpenVMS servers: ◆ Ability to wrap file ◆ Ability to set maximum file size ◆ Ability to do MAIN trace ◆ Ability to trace by Process number, Process name, or destination (advanced options)

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 update information, including instructions for applying updates containing 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 pre-installation 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 for Windows File Agent, read information in this section and follow the guidelines.

✦ Review the information on using and configuring Connect:Direct for Windows File Agent in *Connect:Direct for Windows Getting Started Guide.*

✦ When you install 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.

Connect:Direct Secure+ Option for Windows

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

✦ Print and review *Connect:DirectSecure+ 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.

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

✦ The Microsoft Access 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 have to 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.

✦ The 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	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.
	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.
Connect:Direct for Windows File Agent	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.

Installing Connect:Direct from the ESD Portal

These instructions contain procedures for downloading and installing the Connect:Direct for Windows version 4.5.01 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 16 for details.

Downloading and Extracting Product Files

These instructions assume that you download the installation file to a computer running the Windows operating system (OS) and transfer it to the system where you will install it, unless the Windows OS 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 4.5.01 and click **Download**.

3. In the **File Download** dialog box, click **Save**.

4. When the **Save As** dialog box opens, specify the location to save the file, 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, C*onnectDirect_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**.

Installing the Application

Use the following instructions to install Connect:Direct for Windows and its related software.

Server and Requester

To install the Server and Requester:

1. Review *Connect:Direct for Windows Getting Started Guide*.

2. Run setup.exe in the Server and Requester subdirectory.

SDK

To install the SDK:

1. Review *Connect:Direct for Windows SDK Version 4.5.01 Release Notes* for last-minute product information and installation requirements.

2. Run setup.exe in the SDK subdirectory.

Documentation Updates

The Connect:Direct for Windows version 4.5 documentation requires no last-minute updates.

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 4.5.01 Release Notes*

✦ *Connect:Direct for Windows SDK Programmers Guide*

✦ *Connect:Direct for Windows SDK Version 4.5.01 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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The implementation was written so as to conform with Netscapes SSL.

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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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