Sterling Control Center™ Version 5.2.00

Release Notes

Sterling Control Center Version 5.2.00 Release Notes

First Edition

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Requirements

Sterling Control Center version 5.2 has the following requirements.

Hardware

Sterling Control Center supports the following hardware:

Component or Functionality	Hardware	Minimum Memory	Minimum Disk Space
Sterling Control Center engine (with or without console)	HP 9000	512 MB (>2 GB optimum)	140 MB
	HP Itanium (32-bit or 64-bit)	512 MB (>2 GB optimum)	140 MB
	IBM System p (32-bit or 64-bit)	512 MB (>2 GB optimum)	140 MB
	Linux Intel (32-bit or 64-bit)	512 MB (>2 GB optimum)	140 MB
	Sun SPARC (32-bit or 64-bit)	512 MB (>2 GB optimum)	140 MB
	Solaris Intel (64-bit)	512 MB (>2 GB optimum)	140 MB
	Solaris AMD (64-bit)	512 MB (>2 GB optimum)	140 MB
	Windows Intel (32-bit or 64-bit)	512 MB (>2 GB optimum)	140 MB
	Windows AMD (32-bit or 64-bit)	512 MB (>2 GB optimum)	140 MB
	VMWare	512 MB (>2 GB optimum)	140 MB
	KVM, kernel-based virtual machine	512 MB (>2 GB optimum)	140 MB
Sterling Control Center console	HP 9000	256 MB (>1 GB optimum)	140 MB
	HP Itanium (32-bit or 64-bit)	256 MB (>1 GB optimum)	140 MB
	IBM System p (32-bit or 64-bit)	256 MB (>1 GB optimum)	140 MB
	Linux Intel (32-bit or 64-bit)	256 MB (>1 GB optimum)	140 MB
	Sun SPARC (32-bit or 64-bit)	256 MB (>1 GB optimum)	140 MB
	Solaris Intel (64-bit)	256 MB (>1 GB optimum)	140 MB
	Solaris AMD (64-bit)	256 MB (>1 GB optimum)	140 MB
	Windows Intel (32-bit or 64-bit)	256 MB (>1 GB optimum)	140 MB
	Windows AMD (32-bit or 64-bit)	256 MB (>1 GB optimum)	140 MB
Sterling Control Center production and staging databases	See the appropriate database documentation.		

Component or Functionality	Hardware	Minimum Memory	Minimum Disk Space
Sample reports (Crystal Reports format)	See the documentation included with Crystal Reports.		
Automated reports	Video card for graphics		

See *Getting Started Guide* to determine platform configurations for the Control Center engine.

Software

The following table summarizes the software requirements for Sterling Control Center:

Note: Control Center is compatible with all supported versions of managed server software except as indicated in this table. The versions listed are supported at the publication date of this document. See the Product Status Summary on Customer Center for the most up-to-date list of supported versions. Some Control Center functionality applies only to specific server types. For example, the Guided Node Discovery feature works only with Connect:Direct servers.

Component	Software	Notes
engine	HP-UX 11.23 or 11.31i	See *Special Considerations for HP-UX* under *Installing the Sterling Control Center Engine and Console on a UNIX Operating System* on the Documentation library.
	HP-UX 11.23i or 11.31i for ia64	For Itanium-based hardware.
	IBM AIX 5L, 5.3, or 6.1	For AIX 5.3 the minimum required level is 5300-07 (APAR IZ07976). For AIX 6.1, the minimum required level is 6100-GOLD
	Red Hat Enterprise Linux 5.3 (either 32-bit or 64-bit)	
	IBM System z/Linux	IBM System z/Linux JRE 1.6.0 SR 5 or later must already be installed on the computer where Control Center will be installed.
	Sun Solaris 10	Requires J2SE Solaris Patch Cluster from www.sun.com.
	Sun Solaris 10 for x64	For x64 platform-based systems. AMD-based and Intel-based processors with EM64T are supported. Itanium-based processors are not supported.
	Sun Solaris 10 (64-bit)	SPARC-based 64-bit platforms should use this installer.

Component	Software	Notes
engine	SuSE Linux Enterprise Server 10	
	Windows Server 2003 Standard Edition	
	Windows Server 2003 x64 Edition	AMD-based and Intel-based processors with EM64T are supported. Itanium-based processors are not supported.
	Windows Server 2008 Standard Edition R2	
	VMware	VMware ESX and VMware vSphere with any Windows, UNIX, or Linux operating system supported by Control Center. Consider VMware configuration, administration, and tuning issues. Your VMware administrator can address these topics. Sterling Commerce does not provide advice regarding VMware-specific issues.
	Java Runtime Environment, version 1.6	Installed with Sterling Control Center.
Control Center console and Web console	Console: ◆ Windows XP with current GA service pack ◆ Windows 7 ◆ Windows 2008 Web Console: ◆ Microsoft Internet Explorer version 7.0 and 8.0 ◆ Mozilla Firefox version 3.x	Enable cookies in your browser to run the Connect:Direct Browser User Interface.
Control Center databases	MySQL 5.1	Requires a MySQL driver.
	Microsoft SQL Server 2008	Requires the jar file, sqljdbc4.jar, available in the SQLJDBC 2.0 driver. Refer to http://msdn.microsoft.com/en-us/library/ms378422.aspx
	IBM DB2 version 9 (z/OS)	Requires a DB2 Universal JDBC driver.
	IBM DB2 version 9.x (Linux, UNIX, and Windows)	Requires download of DB2 Universal JDBC driver.
	Oracle version 10g and 11g	Requires download of Oracle 10g/11g JDBC driver from www.oracle.com.

Component	Software	Notes
Sample reports	Crystal Reports Developer 12.0 or later Crystal Reports Viewer 11.0 or later	
	Following are the drivers to download and use to set up ODBC DSN for database servers: ◆ Windows MySQL ODBC driver 5.1 driver, available from www.mysql.com. ◆ Windows Oracle ODBC driver 10.2, available from www.oracle.com. ◆ DataDirect ODBC drivers 5.3, from http://www.businessobjects.com/products/downloadcenter/crystalreportsxi.asp. ◆ IBM DB2 Driver for ODBC and CLI. Download from www.ibm.com. ◆ Microsoft SQL Server ODBC Driver. Download from www.microsoft.com **Note:** For issues installing and configuring an ODBC driver, contact the driver vendor.	
Automated reports	X11 graphics package on the UNIX host where the Control Center engine is installed	
Managed Connect:Direct servers	Connect:Direct for z/OS 4.6 or later	Requires Connect:Direct Secure+ to securely connect between Control Center and the managed servers.
	Connect:Direct for UNIX 3.7 or later	Requires Secure+ Option for secure connections between Control Center and the managed servers. See *Connect:Direct for UNIX Considerations* on page 23 for information about fixes.
	Connect:Direct for Windows 4.2 (with patch 034) or later	Requires Connect:Direct Secure+ Option for secure connections between Sterling Control Center and the managed servers. See *Connect:Direct for Windows Considerations* on page 22 for information about required fixes.
	Connect:Direct for HP NonStop 3.4.02 or later	
	Connect:Direct for i5/OS 3.5 or later	Requires maintenance 410A or later to provide Sterling Control Center functionality.
	Connect:Direct Select 1.2.00	Connect:Direct Select must be configured to send SNMP traps to the Control Center engine on the port where Control Center is listening.
Managed Connect:Enterprise servers	Connect:Enterprise for UNIX 2.3 or later	Requires Connect:Enterprise for UNIX version 2.3 for daemon status monitoring. Rules that watch for daemon status are triggered only with version 2.3.
	Connect:Enterprise for z/OS 1.3 or later	To monitor API ADD/REQ events, the fix for SR 1364686 (36963) is required. To monitor return code values, the fix for SR 1364688 (36965) is required.

Component	Software	Notes
Managed Sterling Integrator servers	Gentran Integration Suite version 4.2.00 or later or Sterling Integrator 5.0.00 or later	Run Gentran Integration Suite 4.2.07 or later or apply the fix for SR 1366343, when using an Oracle database,
Sterling File Gateway	Gentran Integration Suite 4.3 with Patch 4321 or later or Sterling Integrator version 5002 or later	
Certificate Wizard	Version 1.3	Certificate Wizard is no longer bundled with Control Center. It is shipped on its own CD.

The following table lists major components of the Sterling Control Center version 5.2 Configuration Management functionality broken down by Connect:Direct platform. Support request-generated and other fixes required to use central management components are referenced.

Sterling Control Center 5.2 - Central Administration Functionality

Connect:Direct Server	Functional Authority	Initialization Parameters	Netmap	Secure+
Connect:Direct for UNIX 3.8	SR 1369004	Supported	SR 1368496 SR 1369004	Not Supported
Connect:Direct for UNIX 4.0	SR 1369004	Supported	SR 1368496 SR 1369004 QC 14341	Supported
Connect:Direct for Windows 4.2	Supported	Supported	Supported	Not Supported
Connect:Direct for Windows 4.4	Supported	Supported	Supported	Not Supported
Connect:Direct for Windows 4.5	Supported	Supported	Supported	Supported
Connect:Direct for z/OS 4.6	T038831 T038848	Not Supported	T038831 T038803 T038805 T038946	Not Supported
Connect:Direct for z/OS 4.7	T038822 T038847	Not Supported	T038822 T038798 T038794 T038947	Not Supported
Connect:Direct for z/OS 4.8	Supported	Not Supported	Supported	Not Supported
Connect:Direct for z/OS 5.0	Supported	Supported	Supported	Supported

Sterling Control Center Version 5.2.00 Release Notes

What's New in This Release

This section contains information on new features and enhancements added to the product, references, and improvements to the documentation.

Features and Enhancements in Version 5.2.00

Sterling Control Center version 5.2 adds the following features and enhancements:

✦ Support for central configuration of Connect:Direct Secure+ Option for z/OS and Connect:Direct for z/OS initialization parameters.

✦ Certificate expiry alerts watch for Secure+ Option certificate expirations and send notifications about these events.

✦ Control Center identifies when Secure+ Option is installed on a Connect:Direct server.

✦ Data visibility improves security and usability by limiting the data a user role can view and manage.

✦ The ability to schedule a job and define when and what time it will run. Additionally, send a notification to identify if the job was successful or not.

✦ Option to create simplified SLCs (Service Level Criteria) using a wizard and a simple question and answer format.

✦ Now manages Connect:Direct File Agent, including the ability to notify an administrator if it is connected and its relationship to Connect:Direct nodes. Control Center can monitor File Agent processes and notify an administrator if processes are not being submitted as well as generate a report of the processes submitted by File Agent.

✦ The ability to view a comment associated with an alert without opening the alert. Rollover an Alert monitor to view the last comment entered.

✦ Support for running the engine on VMware ESX and VMware vSphere with any Windows, UNIX, or Linux operating system supported by Control Center.

✦ The Event Counter can be run before Control Center is installed. For instructions on installing and running the event counter, refer to *Running the Event Counter Utility* on page 29.

Reference Information in the Sterling Control Center Documentation

Refer to the following sections for more information:

Topic	Go to Chapter and Document
Ways to improve response times in your system	*Performance Tuning* in the *Sterling Control Center System Administration Guide.*
Estimate a platform configuration to support your processing needs	*Determining Engine and Database Requirements* in the *Sterling Control Center Getting Started Guide.*

Topic	Go to Chapter and Document
Calculate disk space requirements to facilitate efficient operation	*Determining Engine and Database Requirements* in the *Sterling Control Center Getting Started Guide.*
The new virtual database tables	*Data for Third-Party Reporting Tools* in the *Sterling Control Center Reports Guide.*
How Control Center moves data in bulk	*Database Administration* in the *Sterling Control Center System Administration Guide.*
Understand Control Center	*Sterling Control Center Implementation Guide*
Plan your Control Center Implementation	*Sterling Control Center Implementation Guide* and *Planning Worksheets*

Improvements to Documentation

Sterling Commerce welcomes your comments and suggestions to our product documentation. Submit suggestions to ConnectDoc@stercomm.com. As part of our continuing effort to improve your experience and satisfaction, the documentation has the following changes:

New Control Center Documentation Library

All Control Center information is now available on the documentation library and contains the most current version. Because the system requirements, support requests addressed, known restrictions, and special considerations may change after the product is released, this information is available only on the documentation library. All other documentation is available in pdf format on both the product media and the documentation library.

Licensing Guide

Licensing information for all Sterling MFT products has been consolidated in one guide. You can find the information you need to obtain and apply temporary and permanent license keys for all Sterling MFT products in the *Sterling MFT License Key Guide.*

Implementation Guide

The Implementation Guide provides decision makers, administrators, and users with a conceptual overview of the product. It also provides a best practices task list to aid personnel responsible for implementing Control Center. Use this guide to get the big picture of the concepts, components, and building blocks that comprise Control Center. An understanding of this information will help you identify business objectives for Sterling Control Center and plan how Control Center will meet those objectives. The Best Practices Task List guides you through the suggested order to perform tasks to effectively implement Control Center. This guide is available on the documentation library.

Planning Worksheets

Planning worksheets are provided as Microsoft Excel files that will help you plan your implementation from identifying high-level business objectives to defining rules and SLCs to meet those objectives. The worksheets are available on the documentation library.

Support Requests Addressed

Before you upgrade to a maintenance release, stop the Control Center engine. Back up the *install dir*\conf directory. Install Control Center in the original location.

Refer to the Product Updates on Customer Center for information about how to apply the fixes.

Following are the support requests resolved in Sterling Control Center version 5.2:

QC No.	Description
Fixes Included in Version 5.1.06	
15701	Errors caused when connection is attempted to a monitored node are logged multiple times.
16886	Alerts that are automatically processed because they are older than the date defined for automatic alert handing do not correctly insert data into the EVENT_COMMENTS database table. The PART_KEY column is null, resulting in EVENT_COMMENTS not shrinking as older database table partitions are dropped.
16925	The Event Counter utility generates an index out of bounds exception when days are included in the command line parameters.
16926	When the Server Selection panel is launched from the Alerts Monitor filter, it opens from the Control Center tree menu and no servers are displayed.
16941	The date and time values for object properties are changed when you click a row in the Alerts Monitor, Handled Alerts Monitor, or any object that has a date and time value column. This issue impacts the Web console.
16950	The netmap does not update because alternate.comminfo is not in quotes.
16952	Control Center falls back when processing stat records in a high-volume Sterling Integrator or File Gateway environment.
16952	Alert queries associated with linked rules perform full table scans on the database.
16992	The installation fails on an MS-SQL server with a partitioning option when the server settings are set to case sensitive.
16994	The Connect:Direct Browser shipped with Control Center has a security vulnerability with cross site scripting.
17025	The FTP Agent installer shipped with Control Center 5.1.05 cannot be installed or uninstalled because the files are obsolete.
17052	Adding a user proxy to a Connect: Direct for UNIX node fails with a parse exception.
17149	The Control Center Web console allows the user to browse the directory listing.
17254	Control Center lags in a high-volume MySQL environment, for the queries that retrieve the row counts for EVENTS, CD_STATS_LOG, and CE_STATS_LOG time out.
17342	The audit log incorrectly reports that the password has changed.

QC No.	Description
Fixes Included in Version 5.1.05	
16047	A Discovery Service Exception is generated when a Node Discovery Topology Report is run.
16048	Specifying Linked Rules with the event type criteria defined causes the message, *No Rule Engine has been assigned for this Event Handler,* to be logged.
16127	The Control Center Mobile Application displays duplicate servers for restricted users.
16197	Running the audit log for Control Center connected to an Oracle database generates a null pointer exception.
16278	Alerts generated by linked rules take longer to process than alerts for non-linked rules.
16306	Statistics details for OS/400 nodes do not display the Secure+ protocol or cipher suite information.
16337	Control Center shuts down while monitoring a File Gateway node because the queries that retrieve and route delivery statistics cause a JDBC driver time-out.
16413	An installation fails when installing on z/OS using DB2 version 9, when using the latest JDBC drivers for DB2.
16648	The engine goes down at startup while trying to retrieve alerts from the database. The issue occurs with Oracle and DB2 databases.
16745	Standard SLC groups do not allow Process names with hashes.
List of Fixes in Version 5.1.04	
15551	Storing nonLatin characters in Oracle database tables may cause data truncation errors, causing an engine shutdown.
15693	The Queued Activity monitor displays the default messageId, CCNS003E, and the message *CCNS003E Queued Process Summary Data for Processes held in queue.*
15830	A number format exception occurs for a linked rule. It consists of a match criteria with an SLC type notification containing an UNKNOWN node type.
List of Fixes in 5.1.03	
15415	A partition error occurs when upgrading to version 5.1.02.
15474	Deadlock errors occur with Microsoft SQL Server when a bulk insert fails with duplicate index exception and when the Auto commit flag is not correctly set.
15563	The FG.ROUTE_KEY is unavailable as an event variable in the E-Mail or OS Command listing.
List of Fixes included in Version 5.1.02	
15077	A warning message is generated when a SELECT command cannot be performed by a user who sends a query on a staging database using the production user authentication.
15134	Setting DB Initialization to NO incorrectly allows an upgrade to the Control Center tables.
15382	A MySQL installation on AIX fails when the scripts shipped with Control Center are used.

QC No.	Description
List of Fixes included in Version 5.1.01	
14825	The CCTR042E error is generated when Control Center loads the license management key, on Solaris Sparc SUN4v.
14851	A variable sent along with an operating system command is replaced with the variable name, if the value is not mapped based on event type.
14852	Cannot use an operating system command on UNIX if a space occurs in the directory path.
14908	Monitoring an FTP server whose system time is behind the Control Center server causes an ArrayIndexOutOfBoundsException.
14827	Rules that reference file size are not always triggered for Connect:Enterprise transfers.
14968	Alerts related to a rule are not triggered when an ambiguity in rule matching occurs.
14604	Data movement is slow.
14912	The ability to duplicate a trusted root certificate at the same server does not work.
14942	Status information is not reset after an unsuccessful connection from the console to the engine.
14911	When a Windows netmap entry defines both TCP and UDT parameters and the node is copied to a UNIX or z/OS node where both parameters are not allowed, the session type is set to UDT, and the address and port are filled in with TCP values.
14907	Copying a z/OS netmap node to a UNIX node using the **Configure Servers>Netmap>Netmap Nodes** menu option fails.
14833	Tooltip information is incomplete for Server List and Server Group views.
14832	Purging data fails for DB2 on z/OS.
14823	An ambiguous query occurs while retrieving the file count events.
14850	The console generates <> in the FTP Server key, making the XML file invalid.
14909	The Process Step Start and End times are not correct for W3C FTP servers when field time is obtained from the log file. The value in the log file is in milliseconds but is treated as seconds when generating Process Step Start and End times.
14910	Formatting in the Source and Destination fields in the FTP report is incorrect.
14913	The FTP Server property does not display the type of FTP server being monitored.
14937	The Test E-mail option from the **System Settings > E-mail** tab fails, when the User-ID and password are set to blank while connecting to the SMTP server.
14987	The Workflow SLC with correlator source of processData for a Sterling Integrator node generates CSLC050E messages, meaning milestone duration could not be determined.
15044	The Server type is displayed as SI for a Sterling Integrator server.
15065	When running the monthly file transfer report, an SQL exception is generated when only month is provided as the criteria.

Known Restrictions

Sterling Control Center version 5.2.00 has the following restrictions:

✦ Daylight Saving Time rules for Brazil are not correct for 2009 and beyond. The fix for SR 1367170 addresses this problem by allowing the user to add or update time zone definitions. See *Changing Engine Settings After Installation* in the *Getting Started Guide* for help in configuring time zone definitions.

✦ Trace logs viewed in the Control Center console using Microsoft Internet Explorer version 7 do not display carriage returns and the logs appear as one large paragraph. To improve the display, click **View > Source.** A legible display is shown with the columns properly aligned. This problem does not occur in the beta of Internet Explorer 8 or in the Firefox browser.

✦ When a node receives a login failed message, the node is shunned until the node service is recycled. Recycle the node by pausing and resuming the node or by changing information in the node properties.

✦ The MySQL JDBC driver is no longer distributed with the installation. If you use MySQL, you must provide the MySQL JDBC driver during installation. Download the driver from the website, http://dev.mysql.com/downloads/connector/j/.

✦ At peak volume, the number of events processed per second may be decreased by up to 20%, caused by an additional database operation during event processing. Defect 17437 has been created to track this issue. If you have a high volume installation, wait until a fix for this defect is available on Customer Center.

✦ If you mix private permissible objects when you create objects such as rules, SLCs, and automated reports, that reference permissible objects, such as calendars, schedules, and actions, you may prevent other users from updating the created object.

For example, the administrator creates schedule A that is private to role A and schedule B that is private to role B. The administrator then creates an automated report that includes both schedule A and schedule B, which are private schedules. Only the administrator can edit the automated report, because role A does not have permission to see schedule B and role B does not have permission to see schedule A.

Considerations

This section discusses special considerations for the Sterling Control Center documentation set.

The following matrix illustrates Control Center compatibility with Connect:Direct platforms, Connect:Enterprise, and Sterling Integrator regarding Control Center functionality and special features and conditions. Make sure that the noted fixes are in place for your platform.

Sterling Control Center 5.2 functionality and C:D Server compatabiliy Matrix

C:D Platform and Release	Base Functionality	Display License Text	High Watermark Report	Process goes to Held Queue	Process Interrupted Events	Push Licenses	Resolved Missing and Omitted Statistics	C:E Unix Daemon Status Monitor
C:D HP NonStop 3.4.00	Yes	Yes	No	No	No	No	No	N/A
C:D HP NonStop 3.5.00	Yes	Yes	No	No	No	No	No	N/A
C:D HP OpenVMS 3.3.00	No	No	No	No	No	No	No	N/A
C:D HP OpenVMS 3.4.00	No	No	No	No	No	No	No	N/A
C:D z/OS 4.6.00	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A
C:D z/OS 4.7.00	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A
C:D z/OS 4.8.00	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A
C:D i5/OS 3.5.00	Yes	Yes	Yes	No	No	No	Yes	N/A
C:D i5/OS 3.6.00	Yes	Yes	Yes	No	No	No	Yes	N/A
C:D Select 1.2.00	Yes	Yes	No	No	No	No	Yes	N/A
C:D Unix 3.7.00	Yes	Yes	Yes with Fix for SR1349417	Yes	Yes with Fix for SR1349417	No	Yes with Fix for SR1356100	N/A
C:D Unix 3.8.00	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A
C:D Unix 4.0.00	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A
C:D Windows 4.2.00	Yes	Yes	No	Yes	Patch 030	No	Patch 032 + fix for SR1365354	N/A
C:D Windows 4.3.00	Yes	Yes	No	Yes	Yes	No	Fix for SR1365354	N/A
C:D Windows 4.4.00	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A
C:D Windows 4.5.00	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A
C:E Unix 2.3	Yes	No	No	No	No	No	No	N/A
C:E Unix 2.4	Yes	No	No	No	No	No	No	QC15304

Following are general considerations for Sterling Control Center:

◆ The Jetty server is upgraded to version 6.1.21.

◆ The new HTML help removes cross-site scripting vulnerability.

◆ Sterling Control Center Mobile 1.0.00 is supported.

◆ In the Queued Process Activity Monitor, users who have roles with data visibility group restrictions only have access to the Process steps associated with their data visibility group. As a result, data visibility group restricted users cannot delete, suspend, or release queued Processes. In the Completed Activity Monitor, users with data visibility group restrictions see only the completed Processes for the data visibility groups associated with their role. However, unrestricted users see the maximum number (up to 200) configured by the administrator.

◆ When the "NO" symbol ( )appears on a server icon, Control Center will not attempt to reconnect to the server until the login information is updated, or monitoring is paused and resumed, or the Control Center engine is stopped and restarted.

◆ Some Control Center functionality is not available for all versions of managed server types (see the compatibility table above). Ensure full Control Center functionality by having the latest version of your managed server software.

> **Note:** Some Control Center functionality is not *relevant* to all server types. For example, Node Discovery is relevant only to Connect:Direct servers.

Refer to the Product Status Summary on the Support Center Web site for supported versions of managed server software.

◆ If the console becomes disconnected either by a network connectivity issue or by the engine going down, it attempts to reconnect to the engine every 30 seconds until it reconnects, or until you click the Exit Console button on the dialog that displays.

◆ If the Sterling Control Center engine is running on the Windows 2003 Server operating system, change the HKLM/System/Current Control Set/TcpIp/Parameters/MaxUserPort parameter in the registry to 65534 to prevent the loss of a connection to the MS-SQL database when you are adding servers.

◆ To send emails, either as a result of a rule being triggered or an automated report being generated, you first have to set up Control Center's email system settings (**Control Center > System Settings > Email** tab).

◆ To receive emails with Connect:Direct licenses to apply to centrally managed servers, configure license retrieval email settings on the License Management tab of System Settings.

◆ Configuring Secure+ objects on a Connect:Direct server requires a secure connection between the server and the Connect:Direct engine unless a non-secure connection is allowed by the Connect:Direct server initialization parameters. For instructions on setting up a secure connection, see *Configuring a Secure Connection* in the *Sterling Control Center Getting Started Guide* or in Control Center Help. Connect:Direct for UNIX allows this requirement to be disabled by setting *s+cmd.enforce.secure.connection=n* in the initialization parameters.

✦ An installation issue has been noted on one SuSE Linux 10 system. The following message may be received during installation:

```
user1@qaxxxx10:~> ./CCInstall.bin
Preparing to install...
Extracting the JRE from the installer archive...
Unpacking the JRE...
Extracting the installation resources from the installer archive...
Configuring the installer for this system's environment...
awk: error while loading shared libraries: libdl.so.2: cannot open shared object
file: No such file or directory
dirname: error while loading shared libraries: libc.so.6: cannot open shared
object file: No such file or directory
/bin/ls: error while loading shared libraries: librt.so.1: cannot open shared
object file: No such file or directory
basename: error while loading shared libraries: libc.so.6: cannot open shared
object file: No such file or directory
dirname: error while loading shared libraries: libc.so.6: cannot open shared
object file: No such file or directory
basename: error while loading shared libraries: libc.so.6: cannot open shared
object file: No such file or directory
Launching installer...
grep: error while loading shared libraries: libc.so.6: cannot open shared object
file: No such file or directory
/tmp/install.dir.22159/Linux/resource/jre/bin/java: error while loading shared
libraries: libpthread.so.0: cannot open shared object file: No such file or
directory
```

If you receive this message, run the following commands:

```
cp CCInstall.bin CCInstall.bak
cat CCInstall.bak | sed "s/export LD_ASSUME_KERNEL/#xport LD_ASSUME_KERNEL/" >
CCInstall.bin
rm CCInstall.bak
```

After you run these commands, you will be able to run the installer to completion.

Connect:Direct for Windows Considerations

Observe the following considerations when monitoring Connect:Direct for Windows servers:

✦ When Control Center is connected to a Windows node and the application is stopped, the following statistics records may be generated:

◆ LSDI010I— Call to recv() in sdipc_srvr_recv() failed

◆ LIPT027I—Call to recv() failed. OS message=&OSMSG

◆ LCOT000I—comm thread termination started. API connection comm channel failed with LSDI010I

✦ Configuration Option authorities are determined when Control Center signs on to the Connect:Direct node. If you change the functional authority of the user ID used by Control Center, pause and resume node monitoring to activate the new functional authority.

Connect:Direct for UNIX Considerations

Observe the following special considerations when managing Connect:Direct for UNIX servers:

✦ For best results, apply the latest maintenance for your Connect:Direct for UNIX server.

✦ When Control Center runs on a UNIX platform and polls a Connect:Direct for UNIX server, multiple *cmgr exited* messages are written to the Connect:Direct statistics file.

✦ For Secure+ configuration management, Connect:Direct for UNIX 4.0.00 is required.

Connect:Direct for i5/OS Considerations

Observe the following special considerations when managing Connect:Direct for i5/OS servers:

✦ Set up the following items before you begin using Sterling Control Center:

◆ Create a relational database entry (ADDRDBDIRE or WRKRDBDIRE).

◆ Create a user profile with access rights to the Connect:Direct library. Do not use the user profile called CDADMIN.

◆ Ensure that the DDM server is active.

✦ If there is a firewall between a Connect:Direct for i5/OS server managed by Sterling Control Center, be aware that Sterling Control Center uses the following i5/OS ports and services:

i5/OS Service	Default Port
drda	446
as-svrmap	449
as-central	8470
as-database	8471
as-file	8473
as-rmtcmd	8475
as-signon	8476

The ports listed are the default values. These port assignments can be modified using the WRKSRVTBLE command. Sterling Control Center uses ephemeral ports to establish connections to the i5/OS services. For more information on the WRKSRVTBLE command, refer to the i5 manuals.

✦ The Connect:Direct statistics record may incorrectly report the submitter ID as the SNODEID. This situation results when the Process SNODEID and the submitter ID are different.

✦ When invalid authentication credentials are provided for a node, Processes do not write a Process start record, SMPST, in the statistics file.

✦ Guided Node Discovery requires Connect:Direct for i5/OS 3.5 or later.

Connect:Direct for HP NonStop Considerations

Observe the following special considerations when managing Connect:Direct for HP NonStop servers:

✦ In order for Control Center to manage a Connect:Direct for HP NonStop server, you must create three API Managers pointing to the same port in the network map and one adjacent node record that is referenced by all of the API managers on the Connect:Direct for HP NonStop server. This configuration allows Sterling Control Center to attempt three simultaneous connections, which may occur if Sterling Control Center is polling a managed Connect:Direct for HP NonStop server and performing Guided Node Discovery at the same time. Refer to *Defining and Maintaining the Network Map* in the *Connect:Direct for HP NonStop Administration Guide*.

✦ A problem in Connect:Direct for HP NonStop causes events for some Process step end records not to be generated. This situation could result in rules not triggering and SLCs generating erroneous events. To address this issue, apply the fix for SR135624.

✦ Guided Node Discovery requires Connect:Direct for HP NonStop 3.4.02 or later.

Connect:Direct for z/OS Considerations

Observe the following special considerations when managing Connect:Direct for z/OS servers:

✦ Only PKCS #12 base64 encoded certificates can be imported into Connect:Direct for z/OS version 5.0. Binary encoded PKCS#12 certificates cannot be imported.

✦ When Processes end for reasons such as session outages, and remain in the Connect:Direct TCQ to attempt to run again, rather than generate a Process End event Control Center now generates a Process Interrupted event (see the Compatibility Matrix). If you have rules in a previous Control Center release that watch for Process End events, these rules will no longer be triggered under such circumstances. Therefore, to achieve the same behavior add rules that watch for events with an event type of Process Interrupted. Likewise, SLCs satisfied with a Process End event may not be satisfied under the same conditions with version 5.2.

✦ Connect:Direct for z/OS nodes require the fix for SR1344775, to address the lack of a Process interrupted record being written at appropriate times by Connect:Direct for z/OS nodes. The lack of Process interrupted records can cause issues with the High Watermark Report, SLC processing, and other areas of Control Center functionality.

Connect:Enterprise for UNIX Considerations

Observe the following when managing Connect:Enterprise for UNIX servers:

When choosing the API port value during set up of a Connect:Enterprise for UNIX server, refer to the Connect:Enterprise for UNIX documentation for instructions on how to find the correct API port value.

Connect:Enterprise for z/OS Considerations

Observe the following special considerations when managing Connect:Enterprise for z/OS servers:

✦ Sterling Control Center version 5.2 supports Connect:Enterprise for z/OS, version 1.3. Control Center does *not* support earlier versions of Connect:Enterprise for OS/390.

✦ Support for Connect:Enterprise for z/OS version 1.3 requires changes to the Logging application agent and Scheduler application agent rules to enable communication with Sterling Control Center. The following files are located in the *installation directory*/conf/CEOS390 subdirectory:

   ◆ $RLOG includes necessary logging rules needed to monitor Connect:Enterprise for z/OS

   ◆ $RSCH includes necessary scheduling rules to monitor Connect:Enterprise for z/OS

   Merge these rules into your existing Logging application agent and Scheduler application agent rules on the Connect:Enterprise for z/OS to be monitored.

Connect:Direct Select Considerations

Connect:Direct Select should be configured to send SNMP traps to the Sterling Control Center engine on the port where Control Center is listening.

If you see records in the Completed Process Monitor that have a record ID of CEND, which indicates a connection end event, you can apply Fix 13163 to Connect:Direct Select.

Sterling Integrator Considerations

Observe the following special considerations when managing Sterling Integrator servers:

✦ To monitor Sterling Integrator servers, you must have a license for a Sterling Integrator web services adapter. See your Control Center sales representative.

✦ If Sterling Integrator is using an Oracle database, you must have the fix for SR 1366343, which is included in Gentran Integration System version 4.2.07.

✦ To monitor Gentran Integration or Sterling Integrator activity, Event Persistence must be enabled on the GIS or Sterling Integrator server.

✦ Sterling Integrator MailboxService, MBI, OFTP and SAP are new protocols that can be monitored.

✦ If nodes are dynamically added or removed from a Sterling Integrator cluster, Sterling Control Center does not automatically recognize the change. Adapters on added nodes are not monitored until Control Center knows about the nodes. To ensure that Control Center recognizes that a node has been added or removed, either stop and start Control Center or pause and resume node monitoring.

FTP Server Considerations

Control Center supports both z/OS FTP servers and non-z/OS FTP servers (including WS_FTP). All FTP servers produce logs or SNMP traps to record transfer activities, and you need to make sure that Control Center can properly use the information in these logs or traps to display statistics so that you can monitor these servers.

Configuring an xferlog Format

Prior to Sterling Control Center version 5.2, only FTP servers that wrote transfer activities in the following standard xferlog format were supported:

```
%T %Xt %R %Xn %XP %Xy %Xf %Xd %Xm %U ftp %Xa %u %Xc
```

which translated into the following format:

```
current-time transfer-time remote-host bytes-transferred filename transfer-type
special-action-flag direction access-mode username service-name authentication-method
authenticated-user-id completion-status
```

To accommodate different third-party FTP log formats, Sterling Control Center gives you the ability to modify the xferlog format and layout. You can move fields or eliminate certain fields. To modify the layout, click the Advanced button on the Server Properties Connection page.

For Control Center to read an xferlog, the following requirements must be met:

✦ The layout must match the actual xferlog log layout

✦ These fields are required: current-time, transfer-time, file-size, file-name, direction, username, service-name, completion-status.

✦ The current-time field must be the first field.

Following is a valid xferlog format including the required fields and the first field is current-time:

```
current-time transfer-time direction file-name username service-name file-size
access-mode completion-status
```

The following xferlog format is invalid because username is missing:

```
current-time transfer-time direction file-name service-name file-size access-mode
special-action-flag completion-status
```

If you have a xferlog FTP server running with an FTP Agent, you can continue to run with that FTP Agent as long as you do not need to change the xferlog layout or the log filename to a rotating log. To change the layout or to support rotating logs, for example, a log based on day or hour, install the Sterling Control Center FTP Agent.

Accommodating Changes to IIS Logs After Sterling Control Center Version 5.2

For Sterling Control Center version 5.2 the following is the default IIS log format:

```
c-ip cs-username date time s-sitename s-computername s-ip time-taken cs-bytes
sc-bytes sc-status sc-win32-status cs-method cs-uri-stem parameter
```

If the layout in future releases of IIS logs change, you can modify the layout in the same manner as described above for xferlogs, that is, by clicking the Advanced button on the Server Properties Connection page. The only restriction is that the layout must match your actual IIS log layout and

the following fields are required: date time, cs-username, s-sitename, time-taken, cs-bytes, sc-bytes, sc-win32-status, cs-method, and cs-uri-stem.

If fields are added to an IIS log that are not listed on the Advance File Format panel, you can use the <ignored-field> place holder. For example, if a future version of IIS adds a new field such as transfer-mode after the parameter, the layout can be changed to the following:

```
c-ip cs-username date time s-sitename s-computername s-ip time-taken cs-bytes
sc-bytes sc-status sc-win32-status cs-method cs-uri-stem parameter <ignored-field>
```

Reference Information in the Sterling Control Center Documentation Set

For more information on:

Topic	Documentation
FTP xferlog and IIS Log Formats	*Managing Servers* in the *Sterling Control Center System Administration Guide.*
How to translate the fields in Control Center statistics into FTP terms	*Keys and Fields* in the *Sterling Control Center System Administration Guide.*
Configure the WS_FTP Server to Use the FTP Agent	*Setting up Control Center to Monitor an FTP Serve*r *in the Sterling Control Center Getting Started Guide*

Considerations

Documentation Updates

This section describes last-minute updates to the Sterling Control Center documentation. These changes are already reflected in the documentation on the online documentation library; however, they are not reflected in the PDFs shipped on the product media.

Configuration Management Guide

In the section *Import a Key Certificate*, add the following information:

Only key certificates referenced by a Secure+ Option node entry are displayed in Connect:Direct for z/OS. If you import a certificate but no Secure+ Option node refers to it, the certificate is not displayed in the list of key certificates.

System Administration Guide

In *Administering Other Systems* (Chapter 15 in the *System Administration Guide*), update the section *Accessing Sterling Integrator and Sterling File Gateway* with the following information:

To access the Sterling Integrator Dashboard:

1. Right-click the Sterling Integrator server.

2. Select **Sterling Integrator Dashboard > Login Page**. The Sterling Integrator Dashboard Login screen is displayed.

3. Provide valid Sterling Integrator credentials and click **Sign In**. The Admin Console Home screen is displayed.

Getting Started Guide

In *Using the Event Counter Utility for Connect:Direct Servers* in *Determine Engine and Database Requirements* (Appendix A in the *Getting Started Guide*), replace *Running the Utility* with the following information:

Running the Event Counter Utility

To assist you in planning your Control Center implementation, you can run the Event Counter Utility before fully installing Control Center. This allows you to determine whether your platform is sufficient for the version of Control Center you will be running. The following high-level process will help you assess the sufficiency of your platform/environment:

1. Run the Control Center installation program on any platform supported by Control Center, but do not configure it when prompted.

2. Run the Event Counter Utility as outlined in the procedure below.

3. Input the values calculated in the *Events Per Second Worksheet* topic. (A Microsoft Excel spreadsheet version of the worksheet is also available in the installation directory on the computer where the Sterling Control Center engine is installed.)

4. After you complete the Events Per Second Worksheet, consult the Platform Configurations Table to determine if your platform can support Control Center in your environment.

5. If your platform cannot support Control Center, install Control Center on another platform. If your platform can support Control Center, run configCC.sh when you are ready to configure Control Center to complete the installation.

To run the Event Counter Utility:

1. Download the Sterling Control Center installer for your platform from Customer Center.

2. Navigate to the location of the downloaded installer.

3. Start the installation:

Note: This cmd line install only asks about accepting the license and the directory for the install.

   ◆ On Windows, go to a cmd prompt and type the following:

```
CCInstall.exe –i console (or CCInstall64.exe –i console)
```

   ◆ On non-Windows, go to a cmd shell and type the following:

```
sh CCInstall.bin –i console (or sh CCInstall64.bin –i console)
```

4. Accept the license.

5. Enter the *install directory.*

6. After the installation is complete, ignore the message about running configCC.

7. Navigate to *Install directory*/bin.

8. To run the utility, you can execute the batch file, runEventCounter.bat, or run one of the following scripts in the *Install directory*/bin directory:

   ◆ On Windows, go to a cmd prompt and type:

```
runEventCounter
```

   ◆ On non-Windows, go to a cmd shell and enter:

```
sh runEventCounter.sh
```

You can also specify two optional parameters when running the Event Counter Utility as follows:

Parameter	Description
<dateRange>	Number of days to collect data. Default is 30, maximum is 60.

<filename>	Input file containing comma-separated values with connection information for Connect:Direct Servers, one per line. The first line of the file can optionally contain the header information for each field. If <filename> contains blanks, enclose it in double quotes. **Note:** The default filename is EventCounter.csv located in the directory where the utility is run.

For example:

```
runEventCounter 30 EventCounter.csv
```

Using the default trust file (cacerts) in production

Important: The default JKS trust store file (cacerts) installed with Sterling Control Center should only be used in a nonproduction environment. During upgrade, maintenance, and reinstallation this file is overwritten (or removed as with uninstallation). If you customize this file and use it as your truststore, you will lose all of your updates. Instead, create a copy of cacerts to store your CA authentication information, and update the directory path as appropriate.

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