

Sterling Commerce Product Documentation



Sterling Secure Proxy Version 3.2.00

Release Notes

First Edition

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Sterling Commerce, Inc.

4600 Lakehurst Court Dublin, OH 43016-2000 *
614/793-7000

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Sterling Secure Proxy Version 3.2.00 Release Notes

The *Sterling Secure Proxy Version 3.2.00 Release Notes* document supplements Sterling Secure Proxy version 3.2 documentation. Release notes are updated with each release of the product and contain last-minute changes and product requirements, as well as other information pertinent to installing and implementing Sterling Secure Proxy. Read the document in its entirety before installation.

The Sterling Secure Proxy package consists of the distribution media, a license key, and product publications. The Sterling Secure Proxy application is distributed as follows:

- ◆ File downloaded from the Sterling Commerce Electronic Software Distribution Portal
See *Sterling Secure Proxy Documentation* on page 14 for instructions.
- ◆ Distribution media, as appropriate for your product, where Sterling Commerce ships the physical distribution media.

Requirements

Your use of Sterling Secure Proxy version 3.2.00 has the following requirements.

Hardware and Software

The hardware and software requirements for Sterling Secure Proxy version 3.2.00 are listed in Chapter 2, *Before You Begin*, of the *Sterling Secure Proxy Installation Guide*.

License Key File

The license key file identifies the product features that are available at a site. When you purchase Sterling Secure Proxy (SSP), a temporary key file is sent to you that enables operation of SSP for a limited time. You must replace the temporary key with a permanent key to continue running SSP. See *Sterling Secure Proxy Installation Guide* for instructions. If you are upgrading, the license key from the previous version can be used. However, an updated key may be required to access new features.

Customer Center Portal User Name and Password

The new Customer Center portal offers you 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 experience 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 of our 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 Support On Demand user name and 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.

What's New in This Release

Sterling Secure Proxy version 3.2.00 has the following features and enhancements:

Version	Feature or Enhancement
Version 3.2.00	Allows a trading partner to connect to Sterling File Gateway (SFG) through Sterling Secure Proxy, using a single sign-on connection to the myFileGateway application. Single sign-on (SSO) provides a method of access control that allows a trading partner to log in once to SSP, using the HTTP protocol, and then gain access to SFG without being prompted to log in again. SSO bypasses the normal user authentication process in SFG and instead trusts that SSP has authenticated the user.
	Adds support for an application proxy between Connect:Express and PeSIT nodes. SSP provides reverse proxy services when a trading partner initiates a PeSIT session to a Connect:Express server in the trusted zone and forward proxy services when the Connect:Express node in the trusted zone initiates a session to a remote trading partner.

Obtaining Product Updates

Product updates and update summaries, including issues resolved for previous versions of SSP, are available on the Support On Demand Web site.

To obtain product updates:

1. Log on to your Customer Center Web site.
2. Follow the links to **Support on Demand**.
3. From the **Product Support** menu on the left navigation bar, click **Sterling>Product Updates & Downloads**.
4. Follow the links for your product until you locate the updates for your product and platform.

Description of Support Requests Resolved for This Release

The following table describes the Support Requests (SRs) resolved for Sterling Secure Proxy version 3.2.00 since the last cumulative fix release. For the history of issues resolved prior to this release, navigate to the Product Updates & Downloads site for your product and platform using the instructions in *Obtaining Product Updates* on page 6 and review the Fix List.

Support Request	Description
1372678	FTP data channel IP address is being resolved from the hostname even when an IP address is provided.
1372849	Users select netmap is using the wrong policy from Sterling External Authentication server.
1372958	Connection from SSP to EA fails on a TCP timeout.
Defect ID 13454	CM receives a Java exception when it sends a configuration to the SSP engine.

Special Considerations

This section contains considerations in addition to the procedures contained in Sterling Secure Proxy documents. Refer to the following notes when configuring the product.

Security Considerations

Refer to the following security considerations:

- ◆ If you use Sterling External Authentication Server, it uses strong, but limited, cryptography. If you want to use stronger encryption, replace the default jurisdiction policy files with the Unlimited Strength Jurisdiction Policy Files 5.0, available from the JCE provider. Refer to the *Sterling External Authentication Server Version 2.2.00 Release Notes* for instructions.
- ◆ If you use Sterling Secure Proxy with Connect:Direct UNIX version 3.7.00, you must use the TLS protocol for secure communications.

Adapter Considerations

Refer to the following adapter considerations when configuring or editing an adapter definition:

- ◆ If a Connect:Direct adapter is stopped while one or more sessions are active, the adapter is not restarted until the listen timeout interval expires. To determine if an adapter has active sessions, view the secureproxy log file.
- ◆ If you configure a Connect:Direct adapter and you do not provide a value for the Ping Response field, the message displayed when a user connects to the host or port has changed to “Server Ready”. The old message displayed was “SecureProxy”.

- ◆ If you change one of the following values on an SFTP adapter, you must restart the adapter before the change takes effect: listen port, local host key, selected cipher suites, selected MAC suites and selected key exchange algorithms, compression, maximum sessions, session timeout, inbound perimeter server, outbound perimeter server, or external authentication perimeter server.
- ◆ If you change the perimeter server mapped to an adapter, you must stop and restart the adapter and the perimeter server before the change is enabled.
- ◆ A listen timeout exception in an SSP log is caused by a connection timeout with a remote node.

Logging Considerations

Refer to the following consideration when viewing log files:

- ◆ To check the CM or engine log file on Windows, use the Notepad application. WordPad will not open the log file because the file is locked by the application. If you want to use WordPad, copy the file before opening it.
- ◆ CM uses the log4j tool to log messages. The configuration file that controls the CM log is called `log4j.properties`. By default, the logging level is set to INFO and includes warning, error, and informational messages. You can change the log level to DEBUG but this is not recommended because DEBUG generates a large amount of logs and may affect system performance.
 1. To configure the CM log to write debug messages, open the `log4j.properties` file located in `install_dir/conf` where `install_dir` is the location of the CM installation.
 2. To write debug messages for the Jetty web server, add the following statements:

```
# GUI log4j
log4j.logger.sspdashboard=DEBUG,R,stdout
log4j.logger.sspjsf=DEBUG,R,stdout
log4j.logger.com.sterlingcommerce.sspgui.web=DEBUG,R,stdout
log4j.logger.com.sterlingcommerce.csp.gui.web=DEBUG,R,stdout
log4j.logger.com.sterlingcommerce.hadrian.client.gui=DEBUG,R,stdout
```

3. To write debug messages for CM, add the following statements:

```
# CM log4j
log4j.logger.com.sterlingcommerce.component.configurator=DEBUG,R,stdout
log4j.logger.com.sterlingcommerce.hadrian.system=DEBUG,R,stdout
log4j.logger.com.sterlingcommerce.component.accepter.csap.impl.AccepterImpl=INFO,R,stdout
log4j.logger.com.sterlingcommerce.component.dispatcher.XmlConversionFilter=INFO,R,stdout
```

Configuration Manager (CM) Considerations

Refer to the following considerations when configuring CM:

- ◆ Configure an engine with only one CM. If you use more than one CM, the engine accepts only the CM configuration with a higher version number than its own and with the engine name defined at the first connection.
- ◆ If you configure CM to use a port already in use by another application, CM will not start.

- ◆ When you access CM with a browser, a session timeout occurs, if the session is idle for 30 minutes. The Monitoring screen is periodically refreshed, which prevents a session timeout. If the Monitoring screen is displayed as the active application and is not minimized, it does not time out. If you select Monitoring and then minimize the application, a timeout occurs. After a timeout, you may have to login to CM again. Enforce desktop security to prevent unauthorized access to CM.
- ◆ When you configure a node in a netmap, complete all required fields before you copy a policy or add a new policy. Otherwise, an error message is generated.
- ◆ When you configure an adapter, complete all required fields before you copy or create a netmap. Otherwise, an error message is generated.
- ◆ If you are using Firefox, do not open two login sessions on a computer; otherwise, the second login page is blank.
- ◆ If you use Firefox as your browser and you clear the cache while using CM, restart the browser. Otherwise, it may display unpredictable results.

Engine Considerations

Refer to the following considerations when configuring or editing an engine definition:

- ◆ When you configure an engine, you identify either the hostname or the IP address in the definition. Define only one engine definition for each engine you install.
- ◆ To run two engines that use different network interface cards (NICs) on one computer, install the engine and use the `configureAcceptor` script to change the IP address and port to listen on. Create an engine definition for each NIC card and make sure that the IP address in the engine definition is the same as the one specified in the script. Refer to *Sterling Secure Proxy Installation Guide* for instructions.
- ◆ When the engine is installed on Solaris 10 and you communicate using SSL or TLS, the AES_256 and DES40 ciphers fail. To enable these ciphers, remove the PKCS11 provider from the `java.security` file. To remove the PCKS11 provider:

1. Open the `install_dir/jre/lib/security/java.security` file where `install_dir` is the directory where SSP is installed.

The first two entries in the file are displayed below:

```
security.provider.1=sun.security.pkcs11.SunPKCS11 ${java.home}/lib/security/sunpkcs11-solaris.cfg
security.provider.2=sun.security.provider.Sun
```

2. Comment out the first entry for `security.provider.1`.
3. Make a copy of the second entry and renumber it to `security.provider.1`. Following is a sample of the new line:

```
security.provider.1=sun.security.provider.Sun
```

Leave the second entry as `security.provider.2=sun.security.provider.Sun`. Although the first two entries are the same, you do not have to renumber all security provider lines.

4. Save and close the `java.security` file.

- ◆ If you get the following out of memory error, the engine does not have enough memory to create new threads. This error could result in an abnormal termination.

```
java.lang.OutOfMemoryError: unable to create new native thread
at java.lang.Thread.start0(Native Method)
at java.lang.Thread.start(Thread.java:574)
```

Take one or more of the following actions:

- ◆ If you have more physical memory on the SSP server, install and configure another engine on the server and move some adapters to the new engine. Refer to *Sterling Secure Proxy Configuration Guide* for instructions.
- ◆ Decrease the size of the thread pool defined for SFTP adapters. For each adapter definition, change the following parameters to the same value:
 - `sftp_acceptthreads`—Identifies how many threads are available to accept inbound client connections. The default value is 50.
 - `sftp_connectthreads`—Identifies how many threads are available for permanent connect threads. When existing SSH connections make socket connections through port forwarding, these threads manage the asynchronous connection process. The default value is 50.
 - `sftp_xferthreadpools`—Identifies how many threads are available for permanent transfers. This thread asynchronously performs the IO for the socket. The default value is 50.Refer to *SFTP Adapter Definition - Properties* in the *Sterling Secure Proxy Configuration Guide* for instructions on changing these values.
- ◆ Make more memory available for a Java process by increasing the maximum number of threads allowed. Refer to your operating system documentation.

HSM Considerations

Refer to the following considerations when configuring or installing an HSM:

- ◆ If you run the `manageKeyCerts -list` command, as documented in the *Sterling Secure Proxy Configuration Guide*, and it takes a long time to run or appears to lock, perform the following steps to correct the problem:
 1. Open the `install_dir/bin/security.properties` file on the CM computer, where `install_dir` is the location of the CM installation.
 2. Insert the following line: `DEF_KEYSTORE_TYPE=JKS`
 3. Save the file.
- ◆ If you upgrade from SSP version 3.1.0 and HSM was enabled, you must run the `setupHSM` script after the upgrade to reenable HSM.

Perimeter Server Considerations

Refer to the following considerations when configuring or editing a perimeter server definition:

- ◆ If you change the perimeter server associated with an adapter, stop and restart the adapter to implement the change.
- ◆ If you change a more secure perimeter server configuration, you may need to restart the engine that uses the perimeter server before the changes are enabled.
- ◆ For a perimeter server installed in a less secure zone, the value of the parameter called `restricted` in the `remote_perimeter.properties` is set to `false` by default. Do not change it.
- ◆ Before changing a remote perimeter server configuration, first stop all adapters that are using that perimeter server. If you save changes to a perimeter server definition without stopping the adapters that use the perimeter server, errors may occur, the adapters are stopped, and any sessions that are active are stopped. You will be unable to restart these adapters. First stop and restart the remote perimeter server that is used by the adapter and then restart the adapters.
- ◆ To change the listen port, outbound port range, or perimeter server that a Connect:Direct adapter uses, stop the adapter, make the necessary changes, and enable the adapter.
- ◆ If you experience a connection failure, refer to the perimeter server log for additional error information.

Single Sign-On Consideration

Refer to the following considerations when configuring single sign-on for Sterling File Gateway:

- ◆ Sterling File Gateway (SFG) does not support Firefox.
- ◆ A single sign-on connection to SFG supports the `myFileGateway` application. The `FileGateway` application is not fully supported.

Connect:Direct Select Version 1.2.01 Considerations

Refer to the following considerations when configuring Connect:Direct Select version 1.2.01 with SSP:

- ◆ Connect:Direct Select version 1.2.01 processes zero length messages in a different way than version 1.2.00 and is reported as an issue in the SSP testing database. Therefore, it will not work as configured with Sterling Secure Proxy version 3.1.x or later. To use Connect:Direct Select version 1.2.01 with SSP, turn off empty SSL records.
- ◆ In a Windows installation, first determine how the SSP engine is running and then modify the appropriate file. For an engine running as a Windows service, modify the `SSPEngine$lax` file. For an engine running as a console application, modify the bat file.
- ◆ To turn off empty SSL records in a Windows installation that is running as a Windows service:
 1. Open the `SSPEngine$.lax` file in the `install_dir\bin` directory, where `install_dir` is the location of the SSP engine.

2. Add the parameter, `-DDisableSSLEmptyRecords=true`, to the following section, as shown:

```
lax.nl.java.option.additional=-DDisableSSLEmptyRecords=true -server
-Dorg.apache.commons.logging.Log=org.apache.commons.logging.impl.Log4JLogger
-Dcom.sterlingcommerce.cspssh.logging.SSHLogger.logger=logrp
-Dcom.sterlingcommerce.cspssh.stats=false -DvendorFile=vendor.properties
-DPsPlatformFactory=com.sterlingcommerce.csp.perimeter.platform.SSPPlatformFactory
-Dhadrian.root.dir=.. -Djava.net.preferIPv4Stack=true
```

- ◆ To turn off empty SSL records in a Windows installation that is running as a console application:
 1. Open the `startEngine.bat` file.
 2. Add the parameter, set `qq=-DDisableSSLEmptyRecords=true`, to the following section, as shown:

```
set qq=-DDisableSSLEmptyRecords=true
"C:\installSSP\gabuild\jre\bin\java.exe" %qq% -server ...
```

- ◆ To turn off empty SSL records in a UNIX or Linux installation:
 1. Open the `startEngine.sh` file.
 2. Add the parameter, set `QQ=-DDisableSSLEmptyRecords=true`, to the following section, as illustrated:

```
set QQ=-DDisableSSLEmptyRecords=true
"if test ! -s "${DIST_DIR}/conf/system/sb.enc"
then
"${JAVA_HOME}/bin/java" ${QQ} -server -Xmx${MAXHEAP} -cp ${CLASSPATH} ${F}
${B} ${C} -DvendorFile=vendor.properties
-DPsPlatformFactory=com.sterlingcommerce.csp.perimeter.platform.SSPPlatformFactory
-Dhadrian.root.dir=${DIST_DIR} -Djava.net.preferIPv4Stack=true
com.sterlingcommerce.hadrian.Main
else
nohup "${JAVA_HOME}/bin/java" ${QQ} -server -Xmx${MAXHEAP} -cp ${CLASSPATH}
${F} ${B} ${C} -DvendorFile=vendor.properties
-DPsPlatformFactory=com.sterlingcommerce.csp.perimeter.platform.SSPPlatformFactory
-Dhadrian.root.dir=${DIST_DIR} -Djava.net.preferIPv4Stack=true
com.sterlingcommerce.hadrian.Main >startEngine.out &
```

Known Restrictions

Sterling Secure Proxy version 3.2.00 has the following restrictions:

- ◆ The AES cipher suites do not work with Internet Explorer.
- ◆ If you configure an SFTP adapter to use JCE with the property `sftp_jce_enable=true`, only the AES256-CBC, AES192-CBC, AES128-CBC and 3DES-CBC ciphers and the HMAC-SHA1 and HMAC-MD5 MACs are supported.

- ◆ The only cipher suites supported with SSLv2 are: TLS_RSA_WITH_RC4_128_MD5 and TLS_RSA_EXPORT_WITH_RC4_40_MD5.
- ◆ When using WS_FTP Professional, only version 2007 or later is supported.

Installation Notes

Before you install Sterling Secure Proxy, read all the information in this section and follow the guidelines.

- ◆ Review *Sterling Secure Proxy Version 3.2.00 Release Notes* for last-minute product information and pre-installation tasks.
- ◆ Print and review *Sterling Secure Proxy Installation Guide* from the Sterling Commerce Customer Center. Refer to *Security Considerations* on page 7.
- ◆ Review your security configuration to ensure compatibility with Sterling Secure Proxy before proceeding with the installation. Refer to the *Sterling Secure Proxy Installation Guide*.
- ◆ Verify that you have the current updates for Sterling Secure Proxy. Access current update information, including instructions for applying updates containing product fixes and enhancements, from the Customer Center Web site at <http://customer.sterlingcommerce.com>. See *Obtaining Product Updates* on page 6 for instructions.
- ◆ If you are using Sterling External Authentication Server, upgrade to version 2.2 or later.

Documentation Updates

The Sterling Secure Proxy Version 3.2.00 documentation has the following last-minute update:

PeSIT Adapter Configuration - Advanced Topic

In the *Sterling Secure Proxy* Help topic called PeSIT Adapter Configuration - Advanced, change the definition of Session Timeout as follows:

- ◆ Session Timeout—Amount of time allowed, in minutes, between transmissions of TCP packets before a session is terminated. The default is 3 minutes.

CM System Certificate Store Configuration Topic

In the *Sterling Secure Proxy Configuration Guide*, make the following changes to the topic called CM System Certificate Store Configuration.

The CM System Certificate Store dialog displays the name and description of the selected System Certificate Store. From this dialog, you can view information about certificates in the store but you cannot add, edit, copy, or delete a key.

For instructions on using the scripts to configure CM certificates, refer to Chapter 17 *Manage Certificates Between SSP Components* of the *Sterling Secure Proxy Configuration Guide*.

Sterling Secure Proxy Documentation

The Sterling Secure Proxy documentation is available on the product media. You can view or download documentation from the Customer Center Web site at <http://customer.sterlingcommerce.com>. You need a Customer Center user name and password. See *Customer Center Portal User Name and Password* on page 6 for instructions on obtaining your user name and password.

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The Sterling Secure Proxy documentation consists of:

- ◆ *Sterling Secure Proxy Installation Guide*
- ◆ *Sterling Secure Proxy Configuration Guide*
- ◆ *Sterling Secure Proxy Operations Guide*
- ◆ *Configure an HTTP Connection Between SFG and SSP To Enable Single Sign-On for a Trading Partner*
- ◆ *Sterling Secure Proxy Version 3.2.00 Release Notes*
- ◆ Sterling Secure Proxy Help

Documentation for the following supplemental products is also available:

- ◆ Sterling External Authentication Server
- ◆ Sterling Certificate Wizard

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