Sterling Commerce
Product Documentation

Sterling Secure Proxy Version 3.1.01
Release Notes

Sterling Commerce
An IBM Company

Sterling Secure Proxy Version 3.1.01 Release Notes

First Edition

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Sterling Secure Proxy Version 3.1.01 Release Notes

The *Sterling Secure Proxy Version 3.1.01 Release Notes* document supplements Sterling Secure Proxy version 3.1 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. Sterling Secure Proxy is distributed as a download from Customer Center. Refer to *Obtaining Product Updates* on page 7.

Requirements

Your use of Sterling Secure Proxy version 3.1.01 has the following requirements.

Hardware and Software

The hardware and software requirements for Sterling Secure Proxy version 3.1.01 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.

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 3.1.01 has the following features and enhancements:

Version	Feature or Enhancement
3.1.01	Firefox support to allow the use of the Firefox browser in addition to Internet Explorer.
	Resizable iframe allows you to expand the CM window that contains the list of components available.
	Disable uid and password caching to prevent the list of previously accessed user IDs and passwords from displaying in a drop-down list in the Login screen and prevent a Firefox implementation from populating SSP with users defined at login.
	Reload the javascript CSS for each build to eliminate the need to clear the cache for each upgrade.
	Add support for Connect:Direct for i5/OS version 3.6.00 as a client and server.
	Add support for Connect:Direct FTP+ version 1.0.08 as a client.
3.1.00	The ability to store certificates in a hardware storage device (HSM).
	Support stronger Diffie-Hellman key exchange algorithm to improve security for SSH keys and allow user configuration of this option.
	The ability to authenticate a trading partner with multiple SSH keys.
	Support authentication of a key presented by an inbound SSH node against information stored in EA and replace the user ID, key, password, and/or key with valid information to connect to the trusted connection.

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 3.1.01 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.

SR Number	Description
1370013	SSP does not support Connect:Enterprise for z/OS in the DVIPA environment.
1371700	When performing transfers, a stack overflow error is generated at 250 MB.
1371975	The connection between SSP and EA breaks.
1371985	Users created in SSP version 2.x do not work as CM users in version 3.x because they are imported into the general user store and not the CM user store.
1372000	After upgrading from SSP version 2.x to 3.x, the ping response from the Connect:Direct listening port no longer works.
1372209	In the SFTP proxy adapter, authentication and post authentication banners are limited to 150 characters.

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.

Installation Considerations

SSP version 3.1.01 can only be obtained by downloading it from Sterling Commerce Customer Center. To download the product:

1. Go to http://customer.sterlingcommerce.com to log on to Customer Center.

2. Click on **Support on Demand** and **Support on Demand>Go**.

3. Click on **Product Support>Connect>Product Updates & Downloads>Sterling Secure Proxy (Connect Secure Proxy)**.

4. Click **View/Download** for the platform you want to download.

5. Click **Save** and copy the file to a location on your computer

6. Refer to *Sterling Secure Proxy Installation Guide* for instructions on installing the product.

Security Considerations

Refer to the following security considerations:

✦ If you use Sterling External Authentication Server in your configuration, 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 2.1.00 Release Notes* for instructions.

✦ If you are using 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 are using 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.

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. 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.additional1=-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.SSPPlatformFacto
ry -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}
${C} -DvendorFile=vendor.properties
-DPsPlatformFactory=com.sterlingcommerce.csp.perimeter.platform.SSPPlatformFacto
ry -Dhadrian.root.dir=${DIST_DIR} -Djava.net.preferIPv4Stack=true
com.sterlingcommerce.hadrian.Main
else
nohup "${JAVA_HOME}/bin/java" ${QQ} -server -Xmx${MAXHEAP} -cp ${CLASSPATH} ${F}
${B} ${C} -DvendorFile=vendor.properties
-DPsPlatformFactory=com.sterlingcommerce.csp.perimeter.platform.SSPPlatformFacto
ry -Dhadrian.root.dir=${DIST_DIR} -Djava.net.preferIPv4Stack=true
com.sterlingcommerce.hadrian.Main >startEngine.out &
```

Known Restrictions

Sterling Secure Proxy version 3.1.01 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 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 3.1.01 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 *Installation Considerations* on page 8.

✦ 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 7 for instructions.

✦ If you are using Sterling External Authentication Server, upgrade to version 2.1 or later.

Documentation Updates

The Sterling Secure Proxy Version 3.1.01 documentation requires the following last-minute updates in the *Sterling Secure Proxy Configuration Guide*.

Chapter 4, Store System Certificates on a Hardware Security Module (HSM)

The documentation requires changes tp the following HSM parameters definitions:

✦ In the section called *Obtain a Certificate from the HSM Device* on page 55, change the description of the parameter called alias to indicate that the parameter is required. Following is the updated description:

Parameter	Description
alias	Alias for the key certificate on the HSM. Required.

✦ In the section called *Copy a Certificate* on page 56, change the description of the parameter called newName to indicate that the parameter is required. Following is the updated description:

Parameter	Description
newName	Name for the copy of the key certificate. Required.

✦ In the section called *Update a CSR* on page 68, change the parameter called storeName to certName.

Appendix A, SSP Field Definitions

The documentation requires the following changes in the SSP field definitions.

FTP Protocol Field Definitions

After the topic called *FTP Adapter Definition - Advanced* on page 256, add a new topic called *FTP Adapter Definition - Custom* as follows:

FTP Adapter Definition - Custom

Use this screen to define custom text for a server greeting banner and a login banner. Refer to the field definitions in the following table:

Field Name	Description
Server Greeting Banner Text	Identify the text to display when a user successfully connects to the server. For example, type Welcome to my ftp site. If no banner text is provided in this field, the default banner, 220 FTP Server ready, is displayed.
Login Banner Text	Identify the text to display as a login message for an FTP proxy adapter. If no banner text is provided, the default banner, 230 User %user logged in, is displayed.

SFTP Protocol Field Definitions

In the section called *SFTP Adapter Configuration - Advanced* on page 282, replace the definitions of pre-authentication banner text and post-authentication banner text with the following definitions:

Field Name	Description
Pre-Authentication Banner Text	The remote software version to send when an inbound connection is made. The text is sent to the client before server authentication is performed. Valid values are 0-255 alphanumeric and special characters. The default value is SSHD_Maverick.
Post-Authentication Banner Text	Text displayed when an inbound connection is made. It is sent to the client after server authentication is performed. Valid values are 0-4000 alphanumeric and special characters. No default value is defined.

Credentials Field Definition

In the section called *User Configuration - Basic* on page 300, change the description of Password as follows, to change the number of characters allowed:

Field Name	Description
Password	Password that the user must provide to access SSP. It can be up to 28 alphanumeric characters and cannot include commas (,), double quotes ("), or single quotes ('). The length of the password required is defined in the password policy configuration.

Sterling Secure Proxy Documentation

The Sterling Secure Proxy documentation is available on the product media or the documentation CD-ROM. 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.

Access to PDF files requires the latest version of Adobe Acrobat Reader, which you can download at www.adobe.com. You can search for a specific word or phrase in the text of an open Adobe PDF document or a set of PDF documents in a specified location. See the Adobe Reader Help for instructions on using the Search feature. The search lists all instances of the specified string.

The Sterling Secure Proxy documentation consists of:

✦ *Sterling Secure Proxy Installation Guide*

✦ *Sterling Secure Proxy Configuration Guide*

✦ *Sterling Secure Proxy Operations Guide*

✦ *Sterling Secure Proxy Version 3.1.01 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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doc_ssp3.1.01

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