

Sterling Commerce Product Documentation



Sterling External Authentication Server Version 2.1.00 Release Notes

First Edition

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Sterling External Authentication Server Version 2.1.00 Release Notes

The *Sterling External Authentication Server Version 2.1.00 Release Notes* document supplements Sterling External Authentication Server version 2.1 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 External Authentication Server. Read the document in its entirety before installation.

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

- ◆ File downloaded from the Sterling Commerce Electronic Software Distribution Portal
See *Installing Sterling External Authentication Server from the ESD Portal* 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 External Authentication Server version version 2.1.00 has the following requirements.

Hardware and Software

Sterling External Authentication Server requires the following hardware and software:

Component or Functionality	Hardware	Software	RAM	Disk Space
Sterling External Authentication Server	Windows compatible systems	Windows operating system options: <ul style="list-style-type: none"> ◆ Microsoft Windows XP ◆ Microsoft Windows 2003 Server 	512 MB	200 MB
	HP 9000 Platform	HP-UX versions 11.11 and 11.23	512 MB	200 MB
	IBM RISC System/6000 platform	AIX version 5.3	512 MB	200 MB
	SUN SPARC systems	Solaris versions 9 and 10	512 MB	200 MB
	Intel Pentium system	Red Hat Advanced Server versions 4.0 and 5.0 SuSE SLES versions 9 and 10 Solaris versions 9 and 10	Open LDAP versions 2.2 and 2.3 Sun Microsystems SunONE 5.2 IBM Tivoli 5.2 with Fixpack 3 Microsoft Windows 2003 Domain Functional Level Active Directory	512 MB
Sterling External Authentication Server GUI		Use one of the following: <ul style="list-style-type: none"> ◆ Internet browser for accessing the GUI using Java WebStart ◆ Java Runtime Environment version 1.5, installed with Sterling External Authentication Server 	256 MB	
Authentication using Tivoli Access Manager		<ul style="list-style-type: none"> ◆ Red Hat Advanced Server 4.0 ◆ Tivoli Access Manager 5.1 ◆ IBM Access Manager Runtime for Java ◆ Java Runtime Environment version 1.4.2, used with authentication definitions created for Tivoli Access Manager. <p>Note: See <i>Prerequisites for Authentication with Tivoli Access Manager (TAM) Using JRE Version 1.4.2</i> on page 7 for more information.</p>	30 MB per TAM authentication definition	

License Key File

The license key file identifies the product features that are available at a site. When you purchase the Sterling Secure Proxy application, a temporary key file is sent to you that enables operation of Sterling Secure Proxy and Sterling External Authentication Server for a limited time. You must replace the temporary key with a permanent key to continue running Sterling External Authentication Server. See the *Sterling Secure Proxy Installation Guide* document for instructions to obtain the permanent license key and install the license key.

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.

Additional Requirements

Sterling External Authentication Server version 2.1.00 has the following additional requirements.

Prerequisites for Authentication with Tivoli Access Manager (TAM) Using JRE Version 1.4.2

With Sterling External Authentication Server and Tivoli Access Manager (TAM) installed on the same computer, you can set up authentication with TAM. Before you install the TAM API, you must install version 1.4.2 of the Java Runtime Environment (JRE) and configure it for use with TAM.

To configure JRE for TAM, you must set the `JAVA_HOME` environment variable to point to the appropriate JRE and install the TAM API using the IBM wizard, `install_amjrte`. The TAM API installation creates an IBM configuration file. TAM authentication definitions you create in Sterling External Authentication Server must reference the IBM configuration file and the JRE to support authentication with TAM.

Using Sterling External Authentication Server for Authentication with TAM

To use Sterling External Authentication Server for authentication with TAM, complete the following steps:

1. Install the 1.4.2 JRE on the target system, either as a system JRE or as a private JRE for a specific user.
2. Set the JAVA_HOME environment variable to point to the JRE, then run the IBM wizard, install_amjrte to install the TAM API into the JRE.

Refer to Chapter 8 of the *IBM Tivoli Access Manager, Base Installation Guide, Version 5.1* for more information.

3. Run the java utility, com.tivoli.pd.jcfg.SvrSslCfg. IBM provides the com.tivoli.pd.jcfg.SvrSslCfg class that serves as a configuration utility. Running the utility creates a configuration file and generates an SSL key and other configuration data needed to communicate securely with the TAM servers. See *Configuring the TAM API* on page 8 for more information.
4. In Sterling External Authentication Server, create TAM authentication definitions (profiles) that reference the JRE installed in step 1 (**Target JRE location** field) and the configuration file created by the Java utility in step 3 (**TAM Config File URL** field).

Because Sterling External Authentication Server is written for JRE 1.5, it cannot run in the same JRE as the TAM interface. When you set up a TAM authentication definition (or profile) within Sterling External Authentication Server, the current implementation requires specification of the target JRE that has been configured with Access Manager Runtime for Java. When the definition is saved, Sterling External Authentication Server starts the TAM Authenticator in a separate process executing in the target JRE. Standard input, output, and error streams are set up to the child process for communications. See Chapter 11, *Create Tivoli Access Manager Authentication Definitions*, in the *Sterling External Authentication Server Implementation Guide* for more information and instructions to create a TAM authentication definition.

Configuring the TAM API

The following example demonstrates how the IBM Java utility is used to configure the Sterling External Authentication Server into the TAM API. The configuration file created by this utility must be referenced when setting up a TAM authentication definition for use with Sterling External Authentication Server.

```
> export JAVA_HOME=/home/SeasAdmin/java/j2sdk1.4.2_12
> export PATH=$JAVA_HOME/bin:$PATH
> java com.tivoli.pd.jcfg.SvrSslCfg -action config -admin_id sec_master
-admin_pwd masterpass -appsvr_id SterlingEAS_ID -appsvr_pwd ldapPassword
-host SterlingEAS_host -mode remote -port 999 -policysvr tamPolicySvr:7135:1
-authzsvr tamAuthzSvr:7136:1 -cfg_file /home/SeasAdmin/tam/config_file.conf
-key_file /home/SeasAdmin/tam/keystore_file.ks -domain Default -cfg_action
create
```


In the preceding example, a private JRE was installed at /home/SeasAdmin/java/ and SeasAdmin is a user account for administering Sterling External Authentication Server for TAM. Refer to the following list of parameters to review how the Java utility generates the SSL key and configuration file that enable using Sterling External Authentication Server for TAM authentication.

Parameter	Description
-host	Host name of the Sterling External Authentication Server.
-appsvr_id	ID you define for the Sterling External Authentication Server TAM Authenticator. SvrSslCfg creates a user and a server entry in the TAM user registry that is composed of this ID concatenated with the host name, in this case: SterlingEAS_ID/SterlingEAS_host.
-appsvr_pwd	Password for the new user account created in the TAM user registry.
-port	Listen port for definition updates. It must be specified although it is not used by Sterling External Authentication Server.
-cfg_file	Configuration file that is created by the IBM com.tivoli.pd.jcfg.SvrSslCfg utility. Reference this file from the definition you create in EA.
-key_file	Specifies the java key store that is created by the utility. Private key and certificates are written to this key store for SSL communications to the TAM policy and authorization servers.

What's New in This Release

Sterling External Authentication Server version 2.1.00 has the following features and enhancements:

Version	Feature or Enhancement
Version 2.1	Support for user ID and SSH public key authentication and mapping through LDAP. The ability to validate users who communicate with Sterling Secure Proxy using the Gentrant Integration Suite user store.

Obtaining Product Updates

Product updates and update summaries, including issues resolved for previous versions of Sterling External Authentication Server, 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.

Special Considerations

This section contains considerations in addition to the procedures contained in this document and the other Sterling External Authentication Server documents. Refer to the following notes before installing the product.

- ◆ The System Settings dialog box, which allows you to configure the listeners, SSL keystore, and trusted certificates, uses a separate object for each tab. When you click **OK**, the objects are updated in the following order: Listeners, SSL Keystore, and Trusted Certificates.
- ◆ Sterling External Authentication Server 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. See *Jurisdiction Policy File Use* on page 10 for more information and instructions.
- ◆ SuSE Linux Enterprise Server 10 has problems with the installation program. When you install Sterling External Authentication Server on this platform, you may receive the following error:

```
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
:
(more error messages)
```

If you encounter this error, type the following information to patch the installer:

```
cat SEAS.Lin.V2001.bin | sed "s/export LD_ASSUME_KERNEL/#export LD_ASSUME_KERNEL/"
> SEAS.SLES10.V2001.bin
chmod +x SEAS.SLES10.V2001.bin
./SEAS.SLES10.V2001.bin -i console
```

- ◆ The uninstall program does not work on the SuSE Linux Enterprise Server 10 platform.

Jurisdiction Policy File Use

TLS and SSL protocols are implemented in the Sterling External Authentication Server, both server and GUI components, using the standard Java™ 5.0 API, Java™ Secure Socket Extension (JSSE) and default provider package. JSSE, in turn, utilizes the standard Java™ 5.0 API, Java™ Cryptography Extension (JCE) to implement the underlying crypto algorithms.

The cipher suites available for use in SSL and TLS connections are determined by the following JCE jurisdiction policy files shipped with Sterling External Authentication Server:

- ◆ *install_dir*/jre/lib/security/local_policy.jar
- ◆ *install_dir*/jre/lib/security/US_export_policy.jar

where *install_dir* is the directory where Sterling External Authentication Server is installed.

The jurisdiction policy files shipped with Sterling External Authentication Server enable strong, but limited, cryptography. If you need to use stronger encryption, US customers and those in other eligible countries can replace the default jurisdiction policy files with the Unlimited Strength Jurisdiction Policy Files 5.0, available from the JCE provider.

To replace the default jurisdiction policy files:

1. Access the Sun Web site and select **Java 2 Standard Edition** from the **Download** menu.
2. Scroll to **Other Downloads** and click the link for Java Cryptography Extension (JCE) Unlimited Strength Jurisdiction Policy Files 5.0.
3. Click **Download**.
4. Copy the unlimited strength jurisdiction policy files to the following locations:

install_dir/jre/lib/security/local_policy.jar

install_dir/jre/lib/security/US_export_policy.jar, where *install_dir* is the Sterling External Authentication Server installation directory.

The cipher suites enabled by default and by the unlimited jurisdiction policy files are shown in the following table:

Default SSL/TLS Cipher Suites	Cipher Suites Enabled by Unlimited Strength Jurisdiction Policy Files
SSL_RSA_WITH_RC4_128_MD5 SSL_RSA_WITH_RC4_128_SHA	SSL_RSA_WITH_RC4_128_MD5 SSL_RSA_WITH_RC4_128_SHA
TLS_RSA_WITH_AES_128_CBC_SHA TLS_DHE_RSA_WITH_AES_128_CBC_SHA	TLS_RSA_WITH_AES_128_CBC_SHA TLS_RSA_WITH_AES_256_CBC_SHA
TLS_DHE_DSS_WITH_AES_128_CBC_SHA SSL_RSA_WITH_3DES_EDE_CBC_SHA	TLS_DHE_RSA_WITH_AES_128_CBC_SHA
SSL_DHE_RSA_WITH_3DES_EDE_CBC_SHA	TLS_DHE_RSA_WITH_AES_256_CBC_SHA
SSL_DHE_DSS_WITH_3DES_EDE_CBC_SHA SSL_RSA_WITH_DES_CBC_SHA	TLS_DHE_DSS_WITH_AES_128_CBC_SHA
SSL_DHE_RSA_WITH_DES_CBC_SHA SSL_DHE_DES_WITH_DES_CBC_SHA	TLS_DHE_DSS_WITH_AES_256_CBC_SHA SSL_RSA_WITH_3DES_EDE_CBC_SHA
SSL_RSA_EXPORT_WITH_RC4_40_MD5	SSL_DHE_RSA_WITH_3DES_EDE_CBC_SHA
SSL_RSA_EXPORT_WITH_DES40_CBC_SHA	SSL_DHE_DSS_WITH_3DES_EDE_CBC_SHA SSL_RSA_WITH_DES_CBC_SHA

Default SSL/TLS Cipher Suites	Cipher Suites Enabled by Unlimited Strength Jurisdiction Policy Files
SSL_DHE_RSA_EXPORT_WITH_DES40_CBC_SHA	SSL_DHE_RSA_WITH_DES_CBC_SHA SSL_DHE_DSS_WITH_DES_CBC_SHA
SSL_DHE_DSS_EXPORT_WITH_DES40_CBC_SHA SSL_RSA_WITH_NULL_MD5	SSL_RSA_EXPORT_WITH_RC4_40_MD5
SSL_RSA_WITH_NULL_SHA SSL_DH_anon_WITH_RC4_128_MD5	SSL_RSA_EXPORT_WITH_DES40_CBC_SHA
TLS_DH_anon_WITH_AES_128_CBC_SHA	SSL_DHE_DSS_EXPORT_WITH_DES40_CBC_SHA SSL_RSA_WITH_NULL_MD5
SSL_DH_anon_WITH_3DES_EDE_CBC_SHA SSL_DH_anon_WITH_DES_CBC_SHA	SSL_RSA_WITH_NULL_SHA SSL_DH_anon_WITH_RC4_128_MD5
SSL_DH_anon_EXPORT_WITH_RC4_40_MD5	TLS_DH_anon_WITH_AES_128_CBC_SHA TLS_DH_anon_WITH_AES_256_CBC_SHA
SSL_DH_anon_EXPORT_WITH_DES40_CBC_SHA TLS_KRB5_WITH_RC4_128_SHA	SSL_DH_anon_WITH_3DES_EDE_CBC_SHA SSL_DH_anon_WITH_DES_CBC_SHA
TLS_KRB5_WITH_RC4_128_MD5 TLS_KRB5_WITH_3DES_EDE_CBC_SHA	SSL_DH_anon_EXPORT_WITH_RC4_40_MD5
TLS_KRB5_WITH_3DES_EDE_CBC_MD5 TLS_KRB5_WITH_DES_CBC_SHA	SSL_DH_anon_EXPORT_WITH_DES40_CBC_SHA TLS_KRB5_WITH_RC4_128_SHA
TLS_KRB5_WITH_DES_CBC_MD5 TLS_KRB5_EXPORT_WITH_RC4_40_SHA	TLS_KRB5_WITH_RC4_128_MD5 TLS_KRB5_WITH_3DES_EDE_CBC_SHA
TLS_KRB5_EXPORT_WITH_RC4_40_MD5	TLS_KRB5_WITH_3DES_EDE_CBC_MD5 TLS_KRB5_WITH_DES_CBC_SHA
TLS_KRB5_EXPORT_WITH_DES_CBC_40_SHA	TLS_KRB5_WITH_DES_CBC_MD5 TLS_KRB5_EXPORT_WITH_RC4_40_SHA
TLS_KRB5_EXPORT_WITH_DES_CBC_40_MD5	TLS_KRB5_EXPORT_WITH_RC4_40_MD5 TLS_KRB5_EXPORT_WITH_DES_CBC_40_SHA TLS_KRB5_EXPORT_WITH_DES_CBC_40_MD5

Known Restrictions

Sterling External Authentication Server version 2.1.00 has no known restrictions.

Installation Notes

Before you install Sterling External Authentication Server, read all the information in this section and follow the guidelines.

- ◆ Review *Sterling External Authentication Server Version 2.1.00 Release Notes* for last-minute product information and pre-installation tasks.
- ◆ Print and review *Sterling External Authentication Server Implementation Guide* from the DVD or ESD download file.
- ◆ Complete any worksheets prior to installing Sterling External Authentication Server.
- ◆ Review your security configuration to ensure compatibility with Sterling External Authentication Server before proceeding with the installation. Refer to the Sterling External Authentication Server Implementation Guide for security options.
- ◆ Verify that you have the current updates for Sterling External Authentication Server. 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 9 for instructions.

Upgrading to Sterling External Authentication Server Version 2.1.00

If you are upgrading from an existing version of the Sterling External Authentication Server application, use the following procedure:

1. Shut down any instance of Sterling External Authentication Server that is running and confirm that no application is accessing any EA files. The software cannot be uninstalled if EA application files are in use.
2. If you are upgrading on a Windows operating system:
 - a. From the **Start** menu, click **Programs > Sterling External Authentication Server V2.0 > Uninstall**.
 - b. On the Uninstall screen, click **Uninstall**. Your configurations are preserved in the *install_dir/conf* directory.
 - c. At the end of the uninstall, click **Done** before starting the new installation.
3. If you are upgrading from a UNIX operating system:
 - a. At the UNIX command prompt, change to the *install_dir/UninstallerData/* directory, where *install_dir* is the location of the Sterling External Authentication Server.

- b. Type the following command to start the uninstaller:

```
Uninstall_Sterling_External_Authentication_Server_V2.x
```

Note: For previous versions of Sterling External Authentication Server, no uninstall command is created for AIX installations. To upgrade EA on UNIX or Linux, install the new version. Definitions and configuration settings created with the prior version of EA are retained.

4. Install Sterling External Authentication Server using instructions in *Sterling External Authentication Server Implementation Guide*. Consider the following:
- ◆ Specify the same passphrase as you did in your original installation.
 - ◆ If you specify a different servlet container port than your original installation, the original servlet container port is replaced.
 - ◆ If you specify a different nonsecure port than your original installation, the original nonsecure port is maintained.

Installing Sterling External Authentication Server from the ESD Portal

These instructions contain procedures for downloading and installing the Sterling External Authentication Server version 2.1.00 release, including documentation. The exact name of the file you download from the Sterling Commerce Electronic Software Distribution (ESD) Portal depends on your operating system and platform. In the download instructions, the term ESD file refers to one of the following files:

Operating System	Platform	ESD Product Download File Name
UNIX	AIX	SEAS.V21.AIX.tar
	HP-UX	SEAS.V21.HP.tar
	Solaris SPARC	SEAS.V21.Solaris.tar
	Solaris Intel	SEAS.V21.SolarisIntel.tar
	Linux Intel	SEAS.V21.Linux.tar
Windows	Windows	SEAS.V21.Windows.zip

Downloading Product Files

These instructions assume that you download the ESD file to a computer running Windows and transfer it to the another computer, unless Windows is the target system.

To download the ESD file:

1. Log in to the ESD Portal using the instructions in *Access the ESD Portal* in your Order Confirmation e-mail from Sterling Commerce. The Download Area is displayed.
2. Find Sterling External Authentication Server version 2.1.00 for your platform and click **Download**.
3. In the **File Download** dialog box, click **Save**.
4. When the **Save As** dialog box opens, specify the location to save the file, or save the file to your desktop.

Note: If Internet Explorer adds a number in brackets to the name of the downloaded file (for example, SEAS.V21.AIX[1].tar), rename the file on the Windows system before you transfer it in binary mode to the system where it will be installed.

5. Make a backup of the file and store it in a safe place to use in case of disaster recovery, hardware failure, or to reinstall the software.
6. If Windows is not the target system, transfer the file to the system where you will install it.

Caution: Upload the ESD file to the target system in **binary** mode.

Installing the Application

To install Sterling External Authentication Server:

1. Review *Sterling External Authentication Server Version 2.1.00 Release Notes* for last-minute product information and installation requirements.
2. Follow the instructions for your platform in Chapter 2 of *Sterling External Authentication Server Implementation Guide* to install Sterling External Authentication Server.

Documentation Updates

The Sterling External Authentication Server version 2.1 documentation requires no last-minute updates.

Sterling External Authentication Server Documentation

The Sterling External Authentication Server 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 Support Customer Center user name and password. See *Customer Center Portal User Name and Password* on page 7 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 External Authentication Server documentation consists of:

- ◆ Sterling External Authentication Server Help
- ◆ *Sterling External Authentication Server Implementation Guide*
- ◆ *Sterling External Authentication Server Version 2.1.00 Release Notes*

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