

CA™ SOA Security Manager

Release Notes

r12.1



Second Edition

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CA Product References

This document references the following CA products:

- CA SOA Security Manager
- CA SiteMinder®

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Chapter 1: System Requirements

The following requirements must be met or exceeded for CA SOA Security Manager to install and run correctly.

This section contains the following topics:

[Operating System Support](#) (see page 9)

[Platform Support](#) (see page 9)

[Disk Space Requirements](#) (see page 10)

[Memory Requirements](#) (see page 11)

Operating System Support

Before you install any CA SOA Security Manager components, ensure that you are using a supported operating system and third-party software.

For a complete list of supported operating systems, see the CA SOA Security Manager r12.1 Platform Support Matrix on the [Technical Support site](#).

To locate the support matrix from the Support site

1. Click Technical Support.
2. Click Support By Product or Solution.
3. Select CA CA SOA Security Manager from the Select a Product or Solution Page list.

Click Platform Support Matrices in the Product Status group box..

Platform Support

For a complete list of supported web servers, application servers, databases, directories, web browsers, and CA interoperability requirements, see the CA SOA Security Manager r12.1 Platform Support Matrix available from the Technical Support site <http://support.netegrity.com>.

To locate the support matrix from the Support site

1. Click Technical Support.
2. Click Support By Product or Solution.

3. Select CA CA SOA Security Manager from the Select a Product or Solution Page list.
4. Click Platform Support Matrices in the Product Status group box.

Disk Space Requirements

The amount of disk space needed to install CA SOA Security Manager depends on the components that you install. The following table describes the requirements for each component.

When You Install...	CA SOA Security Manager installs...	Minimum Requirement (in MBs)
Any option	A temporary directory	200
	The CA SOA Security Manager uninstaller	20
Policy Server	CA SOA Security Manager Policy Server	300
SOA Security Gateway Configuration Manager	SOA Security Gateway Configuration Manager	140
CA SOA Security Manager SDK	CA SOA Security Manager SDK	60
SOA Security Gateway	SOA Security Gateway	140
SOA Agent for Web Servers	SOA Agent for Web Servers	192
SOA Agent for BEA WebLogic	SOA Agent for BEA WebLogic	10
	Optionally, SiteMinder Agent for BEA WebLogic (needs separate license)	50
SOA Agent for IBM WebSphere	SOA Agent for IBM WebSphere	10
	Optionally, SiteMinder Agent for IBM WebSphere (needs separate license)	50

When You Install...	CA SOA Security Manager installs...	Minimum Requirement (in MBs)
SOA Security Gateway Management Console	SOA Security Gateway Management Console	140

Memory Requirements

The amount of memory required for a CA SOA Security Manager system depends on the components that you plan to install. Minimum memory requirements:

- CA SOA Security Manager Policy Server—2GB
- SOA Agent—2GB
- SOA Security Gateway—4GB

Note: Stated minimum memory requirements are not cumulative—if you install more than one component on a single system, you do not need to combine the minimum requirements for each component.

Chapter 2: Known Issues

This section contains the following topics:

[General Issues](#) (see page 13)

[Install Issues](#) (see page 19)

[SOA Agent for IBM WebSphere Issues](#) (see page 22)

[SOA Agent for BEA WebLogic Issues](#) (see page 23)

[SOA Security Gateway Issues](#) (see page 24)

General Issues

The following topics describe general known issues.

SOA Security Manager R12.1 does not support FIPS-migration or FIPS-only mode (70457)

SOA Security Manager R12.1 does not support FIPS-migration or FIPS-only mode. Only FIPS-compatibility mode is supported.

Policy Server JVM Initialization Failure (61775)

The JVM required for some Policy Server features (such as the Session Server and XML key database) can sometimes fail to launch because it attempts to allocate too much memory.

Workaround

1. Navigate to the *soa_home*/siteminder/config directory.

soa_home

Specifies the SOA Security Manager installation location.

2. Open the JVMOptions.txt file in a text editor and add the following two lines anywhere in the file:

```
-Xms256M
```

```
-Xmx256M
```

Note: The numeric component of each entry (which specify a memory allocation value in Megabytes) can be adjusted to suit your environment; however, it is recommended that both settings be set to the same value. For example, if the JVM needs more memory, you could set both values to 512.

3. Reboot the server.

(If the settings are inappropriate, an error message will be generated in the smps.log indicating that the JVM could not be initialized.)

SOA Agents and XML Agents Use Incompatible Algorithms for Signing SAML Assertions (60678)

Due to differences between the encryption algorithms embedded within CA SOA Security Manager r12 SOA Agents (including the SOA Security Gateway) and earlier TransactionMinder XML Agents, SAML assertions (in both SAML Session Tickets and WS-Security SAML tokens) signed by XML Agents cannot be verified in CA SOA Security Manager and SAML assertions signed within CA SOA Security Manager cannot be verified by TransactionMinder.

Normal XML signing does work between TransactionMinder and CA SOA Security Manager.

Workaround

Do not implement chain or multistep authentication service models using signed SAML assertions where all agents in the flow are not at the same product level (that is, all SOA Agents or all XML Agents).

Authentication of Encrypted Requests Intermittently Failing with Red Hat Policy Server (77348)

Attempts by all SOA Agent types to connect to a RedHat Policy server to authenticate an encrypted request fail intermittently.

SOA Security Manager Fails To Generate WS-Security Headers Using RSA-OAEP Encryption (70408)

SOA Security Manager fails to create an encrypted WS-Security token when a response is configured to use the RSA-OAEP algorithm to encrypt the symmetric encryption key, generating the following error in `tmxmltoolkit.log`:

```
008-05-22 14:53:10,531 [INFO] handler.response.WSSecurityUsernameResponseHandler
8A2ADA6E-3D9B-57FB-35E3-9CC05471E849 - Cannot do encryption: unsupported key algorithm provided:
rsa_oaep
```

Workaround

Configure the WS-Security header generating response to use the default `rsa-1_5` algorithm to encrypt the symmetric encryption key.

Responses Configured to Generate Signed SAML Session Tickets Using Public Key Obtained from XML Digital Signature Authentication Produce Unsigned SAML Session Tickets (98865)

Generation of *signed* SAML Session Tickets using the public key obtained from a digital signature by the XML Digital Signature authentication scheme results in the generation of an *unsigned* rather than signed SAML Session Ticket.

That is, if a web service is protected by the XML Digital Signature authentication scheme and a SAML Session Ticket response is configured to extract the client's public key from the certificate and use it to sign the SAML assertion, the generated SAML Session Ticket is *not* signed as expected.

Workaround

Configure the policy to obtain the public key from a source other than the document with the digital certificate. For example, configure the response to obtain the public key from a client certificate sent over an SSL connection or from the user store.

WS-Security SAML 1.1 Holder of Key Assertion Not Accepted More Than Once (97266)

SOA Security Manager does not accept a WS-Security SAML 1.1 holder of key assertion token more than once; SAML 1.1 holder of key tokens cannot therefore be used in use cases where replay is required.

Workaround

SAML 2.0 holder of key tokens work as expected and can be used in to implement use cases in which replay is required.

Signing Not Working for SAML Session Tickets in SOAP Envelope (74036)

If configured to generate signed SAML Session Tickets in the SOAP envelope, CA SOA Security Manager produces the SAML Session Ticket and places it in the SOAP envelope as expected, but the message is *not* signed.

Signing works correctly for SAML Session Tickets placed in HTTP headers or HTTP cookies.

"JVM - JNI code: -1(JNI_ERR)" Errors in Policy Server Log (68569)

In some situations, the default JVM memory allocations can be insufficient on the Policy Server, preventing retrieval of certificates from the key store. If this happens, "JVM - JNI code: -1(JNI_ERR)" errors are written to the Policy Server log.

Workaround

Add a line specifying appropriate the minimum and maximum JVM memory allocation pool sizes to the JVMOptions.txt file in *SOA_HOME*\siteminder\config using the following parameters:

-Xms

Specifies the minimum size of the JVM memory allocation pool. Set this value to a multiple of 1024 that is greater than 1MB. As a general rule, set minimum heap size (-Xms) equal to the maximum heap size (-Xmx).

-Xmx

Specifies the maximum Java heap size. Set this value to a multiple of 1024 that is greater than 1MB.

For example:

```
-Xms128m -Xmx128m
```

Note: For complete information about the settings contained in the JVMOptions.txt file, see your Java documentation.

SOA Agents Reject Messages Where Namespace is Defined Outside of Parent Element (72912)

SOA Agents reject XML messages in which XML namespace (xmlns) attributes are not defined within the immediate parent of the element or elements in which they are referenced. For example, though well formed, the following XML message in which the xmlns attribute is defined in the SOAP envelope will fail authentication:

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:axis="http://axishello">
  <soapenv:Header/>
  <soapenv:Body>
    <axis:securedAdd>
      <axis:name>superuser</axis:name>
      <axis:password>pwd</axis:password>
      <axis:x>3</axis:x>
      <axis:y>5</axis:y>
    </axis:securedAdd>
  </soapenv:Body>
</soapenv:Envelope>
```

In this case, the following error will be written in the SOA Agent log:

```
XPath exception during achedXPathAPI.eval
of: /axis:securedAdd/axis:password javax.xml.transform.TransformerException
javax.xml.transform.TransformerException: Prefix must resolve to a namespace: axis
```

Workaround

To ensure successful authentication, a namespace attribute must be defined no further away than the immediate parent of the element or elements in which it is used, even when that namespace is defined earlier in an XML message (for example, in the SOAP envelope definition).

For example, the following reformed version of the previous XML message will be accepted by the SOA Agent:

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:axis="http://axishello">
  <soapenv:Header/>
  <soapenv:Body>
    <axis:securedAdd xmlns:axis="http://axishello">
      <axis:name>superuser</axis:name>
      <axis:password>pwd</axis:password>
      <axis:x>3</axis:x>
      <axis:y>5</axis:y>
    </axis:securedAdd>
  </soapenv:Body>
</soapenv:Envelope>
```

Operation-Level Policy Changes Not Committed In Certain Situation When Configuring Application Policy From WSDL (69006)

When creating an application policy from a WSDL file, operation-level policy changes in the Define Web Service Protection Policy table are lost if you return to the top level by clicking the All Web Services link and then immediately click the Next button to proceed.

Workaround

After you have specified operation-level policy changes for a particular port, if you click the All Web Services to return to the top level of the Define Web Service Protection Policy table, click any other button or link (for example, the link for that port again) before clicking Next to ensure the operation-level changes are committed.

Responses Defined When Creating an Application Within Secure Web Services from WSDL Operation Are Not Immediately Usable (70468)

If you choose to create the application object that will define your security policy from within the Secure Web Services from WSDL wizard any Responses created from the Responses tab of the Create Application nested task are not displayed or available for assignment in the Define web service protection policy table.

Workaround

If you need to bind responses to web service ports and operations on the Define Policies page of the Secure Web Services from WSDL wizard, you must create the application and the required responses prior to running the wizard.

Clicking Back Button in Secure Web Services from WSDL Wizard Sometimes Causes "Array Index out of range error -1" (72176)

Clicking the Back button on the Secure Web Services from WSDL: Define Policies pane of the Secure Web Services from WSDL Wizard sometimes results in an "Array Index out of range error -1". This error is non-fatal and can be ignored.

Install Issues

The following topics describe known issues related to product installation and uninstallation.

Error Logged During Administrative UI Install on WebLogic (74188)

When you install the CA SOA Security Manager Administrative UI in console mode on a Weblogic Application server, a non-fatal error "ERROR - Command failed: Installing Workflow Store Data " is written to the install log. You can ignore this error.

Back Option Not Supported During Console Mode Install (74339)

The option to go back to reenter incorrectly supplied information is not supported during console mode installation on UNIX.

Uninstaller Fails with Errors (66522)

Attempting to uninstall any CA SOA Security Manager component without the prerequisite level of JVM installed and correctly referenced in the system path causes the uninstaller to fail with one of the following errors:

- "Could not find a valid Java virtual machine to load. You need to reinstall a supported Java virtual machine."
- "No Java virtual machine could be found from your PATH environment variable. You must install a VM prior to running this program."

Workaround

Make sure the JRE is in the PATH variable.

Incomplete Uninstall Incorrectly Removes Master Uninstaller on Windows (70411)

On Windows, performing an incomplete uninstall (that is, removing some but not all installed components) can result in deletion of the CA SOA Security Manager uninstaller (*SOA_HOME*\install_config_info\soa-uninstall.cmd), preventing its use to remove other components.

Workaround

Use individual component uninstallers to remove them.

Uninstall Incorrectly Reports that Some Files Could Not Be Removed When Uninstalling SOA Agent for WebLogic (70413)

When uninstalling the SOA Agent for BEA WebLogic, the uninstaller incorrectly reports that it could not remove the files under *C:\bea\weblogic92\server\lib\mbeantypes*. All SOA Agent-related files are removed correctly.

Uninstaller Not Removing Administrative UI Folders and Files (74112)

The CA SOA Security Manager uninstaller fails to properly uninstall the CA SOA Security Manager Administrative UI and all its constituent components. The uninstaller does not remove the folders that were created under *CA_install_dir* during installation (*soa-adminui*, *smwamui*, IAM Suite) or deployed JAR files.

Workaround

To remove the SOA Admin UI and all its constituent components, run the uninstallers for the individual components in the following order:

Windows

1. *SOA_HOME*\IAM Suite\siteminderWAM\iam-suite-uninstall.bat
2. *SOA_HOME*\smwamui\install_config_info\smwam-ui-uninstall.bat
3. *SOA_HOME*\soa-adminui\install_config_info\soa-adminui-uninstall.bat
4. *SOA_HOME*\install_config_info\soa-uninstall.bat

UNIX

1. *SOA_HOME*/IAM Suite/siteminderWAM/iam-suite-uninstall.sh
2. *SOA_HOME*/smwamui/install_config_info/smwam-ui-uninstall.sh
3. *SOA_HOME*/soa-adminui/install_config_info/soa-adminui-uninstall.sh
4. *SOA_HOME*/install_config_info/soa-uninstall.sh

Uninstall of SOA Security Gateway Fails With Errors on Linux (73957)

Attempting to uninstall the SOA Security Gateway from a Linux system by running the `uninstall.sh` script in `SOA_HOME/install_config_info` fails, producing the following error message.

```
Warning: -Xmx201326592 not understood. Ignoring.
```

```
Warning: -Xms16777216 not understood. Ignoring.
```

```
Invocation of this Java Application has caused an InvocationTargetException. This application will now exit. (LAX)
```

soa_home

Specifies the SOA Security Manager installation location. By default, this is `~/CA/SOA_Security_Manager`.

Workaround

1. Navigate to the `SOA_HOME` directory.
2. Back up any files that you might need again (for example, `entities.xml`, license file, JMS jars, and so on).
3. At the command prompt, execute the following command:

```
rm -rf ./SOA Security Gateway
```

Uninstaller Fails on Red Hat (71203)

If you do not have the the required version of the JVM installed on Red Hat, attempting to uninstall SOA Security Manager components will fail.

Workaround

Ensure that the proper version of the JRE (a minimum of 1.5.0) is installed on the system.

After installing the correct JRE, edit the `soa_home/install_config_info/soa-uninstall/ uninstall.lax` file, updating the key `lax.nl.current.vm` entry so that it contains the correct java path.

soa_home

Is the installed location of CA SOA Security Manager.

For example:

```
lax.nl.current.vm=/opt/java-1.5.0_10/bin/java
```

SOA Agent for IBM WebSphere Issues

The following topics describe known issues in the SOA Agent for IBM WebSphere.

SOA Agent for IBM WebSphere Limitations

The SOA Agent for IBM WebSphere has the following limitations:

- XML Digital Signature Authentication scheme is not supported
- WS-Security Signature and Encryption are not supported
- Message-based authorization using variables is not supported
- `mustUnderstand` attribute in WS-Security header is not supported

SOA Agent and SiteMinder Agent for IBM WebSphere Coexistence Limitation (61190)

The following use case for coexistence of SOA Agent for IBM WebSphere and SiteMinder Agent for IBM WebSphere is not supported:

- SOA Agent for IBM WebSphere and SiteMinder Agent for IBM WebSphere both configured in the same JVM instance (that is, in the same WebSphere profile)
- SOA Agent for IBM WebSphere and SiteMinder Agent for IBM WebSphere both configured to have the same default Agent name.
- WebSphere Java 2 security and application security enabled

If you do configure such an environment, the SiteMinder TAI Module will intercept web service requests that should be handled by the SOA Agent.

mustUnderstand Attribute Limitation (61018, 60551)

The SOA Agent for IBM WebSphere does not support generation of WS-Security `mustUnderstand` attributes.

You should not therefore assign responses that generate `mustUnderstand` attributes to policies associated with resources protected by the SOA Agent for IBM WebSphere.

XML Digital Signature Authentication Fails for Certain Payloads on SOA Agent for IBM WebSphere (60619)

For resources protected by the SOA Agent for IBM WebSphere, XML Digital Signature authentication is failing for certain XML payloads.

SOA Agent for IBM WebSphere Fails Under Load on Windows

Because of a memory leak in `com/ibm/ws/security/auth/AuthCache`, the SOA Agent for IBM WebSphere fails under load.

An IBM support ticket (PMR 30393,756,000) is open for this issue.

SOA Agent Configuration Wizard Cannot Unconfigure SOA Agent for WebSphere (66204)

The SOA Agent Configuration Wizard does not allow you to unconfigure the SOA Agent for WebSphere as it does for the SOA Agent for Web Servers.

Workaround

To unconfigure s SOA Agent for WebSphere (that is, to stop it from protecting web service resources in the WebSphere container), perform the following steps:

1. Back out all configuration changes you made to configure your web services to invoke the SOA Agent JAX-RPC Handler from deployment descriptors. For more information, see the *SOA Agent Configuration Guide*.
2. Uninstall the SOA Agent.
3. Restart WebSphere.

SOA Agent for BEA WebLogic Issues

The following topics describe known issues in the SOA Agent for BEA WebLogic.

SOA Agent for BEA WebLogic Limitations

The SOA Agent for BEA WebLogic has the following limitations:

- Message-based authorization using variables is not supported
- `mustUnderstand` attribute in `WS-Security` header is not supported

SOA Agent Configuration Wizard Cannot Unconfigure SOA Agent for WebLogic (66204)

The SOA Agent Configuration Wizard does not allow you to unconfigure the SOA Agent for WebLogic as it does for the SOA Agent for Web Servers.

Workaround

To unconfigure s SOA Agent for WebLogic (that is, to stop it from protecting web service resources in the WebLogic container), perform the following steps:

1. Back out all configuration changes you made to configure your web services to invoke the SOA Agent JAX-RPC Handler from deployment descriptors or handler chain configuration files, as applicable. For more information, see the *SOA Agent Configuration Guide*.
2. Uninstall the SOA Agent.
3. Restart WebLogic.

SOA Security Gateway Issues

The following topics describe known issues in the SOA Security Gateway.

SOA Security Gateway Limitations

The SOA Security Manager has the following limitations:

- SAML Assertion Variable is not supported
- XML Agent variable is not supported

SOA Security Gateway Management Console Crashes Creating a Self-Signed Certificate on Red Hat Enterprise Linux 5

On Red Hat Enterprise Linux 5, attempting to create a self-signed certificate for a configured HTTPS Service causes the SOA Security Gateway Management Console to crash with the following error:

```
"SOA Security Management Console (vshell): symbol lookup error: /usr/lib/libpangocairo-1.0.so.0: undefined symbol: cairo_scaled_font_get_font_options"
```

...

Workaround

On Red Hat Enterprise Linux 5, start the SOA Security Gateway Management Console by entering the following in a command window:

```
env
LD_PRELOAD=/usr/lib/libcairo.so.2 SOA_HOME/SOASecurityGateway/posix/bin/soagatewaymanagementconsole &
```

SOA_HOME

Defines the installed location of SOA Security Manager.

SOA Security Gateway Sign Message Filter Fails to Sign SOAP Messages on Solaris

When a SOA Security Gateway on Solaris is configured to sign a SOAP message body with a valid Certificate (Signing Key) using the Sign Message filter, it fails to sign the SOAP message and the following error is written to the trace log:

```
ERROR 18:56:32:934 [023d] signature error: not specified/not specified, key is not found: (source location xmldsig.c/900)
ERROR 18:56:32:935 [023d] signature error: xmlSecDSigCtxProcessKeyInfoNode/not specified, xmlsec library function failed: (source location xmldsig.c/569)
ERROR 18:56:32:935 [023d] signature error: xmlSecDSigCtxSignatureProcessNode/not specified, xmlsec library function failed: (source location xmldsig.c/306)
ERROR 18:56:32:936 [023d] Filter that caused failure: Sign Message
ERROR 18:56:32:936 [023d] Policy 'some {
ERROR 18:56:32:936 [023d] Filter 'Sign Message' Status: ABORTED
ERROR 18:56:32:936 [023d] }
```

...

This problem is caused by broken symbolic links in `SOA_HOME/SOASecurityGateway/platform/lib`.

Workaround

A script that fixes the broken symbolic links is included in the CA SOA Security Manager r12.1 CR1 distribution. To fix the broken symbolic links, perform the following steps:

1. Copy the GatewayLinks script from the top directory of the CA SOA Security Manager r12.1 CR1 distribution to the following location:

```
SOA_HOME/SOASecurityGateway/platform/lib
```

2. In a command window, navigate to the `SOA_HOME/SOASecurityGateway/platform/lib` directory.
3. Verify that the GatewayLinks script is executable by typing the following command:

```
chmod +x GatewayLinks
```

4. Run the GatewayLinks script by typing the following command:

```
./GatewayLinks
```

5. Restart the SOA Security Gateway.

Cannot Stop SOA Security Gateway from Windows Services Control Panel (70265)

Presence of the Progress® SonicMQ® JMS provider can prevent the SOA Security Gateway service from being stopped from the Windows Services control panel. This is caused by failure of SonicMQ to shut down properly, leaving the SOA Security Gateway in a timeout state as it waits for its connection with SonicMQ to end properly.

Workaround

1. Stop the SonicMQ application completely (MgmtBroker and Sonic Management Console).
2. Once SonicMQ completely stops, refresh the SOA Security Gateway server from the SOA Security Gateway Management Console.
3. Stop the SOA Security Gateway service from the Windows Services control panel.

SOA Security Gateway Does Not Pick Up Policy Changes (61177)

When you make changes to policy objects (such as realms or policies) for resources protected by the SOA Security Gateway in the Administrative UI, the SOA Security Gateway does not pick up these changes dynamically.

Workaround

Restart the SOA Security Gateway process after you make changes to policy objects for resources protected by the SOA Security Gateway.

SOA Security Gateway Management Console Server Refresh Fails First Time on Linux (71498)

After starting up the SOA Security Gateway and the SOA Security Gateway Management Console on Linux, the first attempt to run the Refresh Server command (Settings, Refresh Server) fails, resulting in an error message.

Workaround

Run the Refresh Server command again.

SOA Security Gateway Components Fail to Start When Installed with space on Installation Path On Solaris

If the path to the SOA Security Gateway installation directory on Solaris contains any spaces, SOA Security Gateway components fail to start.

Workaround

Ensure that the install path for the SOA Security Gateway contains no spaces on Solaris.

SOA Security Gateway Configuration Guide Provides Wrong Location for smreghost on Solaris Systems

Material relating to creating SmHost.conf files in the SOA Security Gateway Configuration Guide incorrectly states that the smreghost utility is located in `/SunOS.sun4u-32/bin` on Solaris.

Workaround

The smreghost utility is located in `/SunOS.sun4u-32/lib` on Solaris.

Chapter 3: Defects Fixed in CA SOA Security Manager Releases

This section contains the following topics:

[Defects Fixed in r12.1 as of CR1](#) (see page 29)

Defects Fixed in r12.1 as of CR1

This CA SOA Security Manager r12.1 release contains the following fixes.

Variables Created in Admin UI Containing Expression Keywords as Variable Name Substrings Being Resolved Incorrectly (71976)

Symptom:

Variables created in the CA SOA Security Manager Administrative UI which contain expression keywords (or, and, and so on) as substrings of the variable name are resolved incorrectly by the expression editor. For example a variable named "RandomVariableName" will be incorrectly converted to the name "R&omVariableName" causing the expression to be evaluated incorrectly.

Solution:

This is no longer an issue.

SOA Agent Configuration Wizard Fails to Make Necessary Configuration File Changes for SOA Agent for Apache Web Server (78481)

Symptom:

The SOA Agent configuration wizard is not making required configuration changes in the httpd.conf file or creating the required webagent.conf file, preventing the SOA Agent from starting.

Solution:

This is no longer an issue.

Installer Properties File Used for Unattended Install Contains Bad Entries for SOA Admin UI on Windows (73363)

Symptom:

In the SOA installer property file created during install (*SOA_HOME*\install_config_info\ca-soasmr12-installer.properties), required double backslashes in pathnames in entries related to the SOA Admin UI are not present. For example, rather than the following expected entry:

```
DEFAULT_NETE_JAVA_HOME = E:\ProgramFiles\Java\jdk1.5.0_01
```

The following incorrect entry is written in the file:

```
DEFAULT_NETE_JAVA_HOME has value E:ProgramFilesJavajdk1.5.0_01
```

Solution:

This is no longer an issue.

Uninstalling SOA Agent for IBM WebSphere Breaks the Application Server (72302)

Symptom:

When uninstalling the SOA Agent for IBM WebSphere, the CA SOA Security Manager uninstaller incorrectly deletes the *WS_HOME*/java/jre/lib/ext and *WS_HOME*/lib/ext directories, preventing the IBM WebSphere Application Server from running.

Solution:

This is no longer an issue.

Uninstall Does Not Remove the ETPKI Folder (72027)

Symptom:

The SOA Security Manager r12.1 uninstaller does not removing the *soa_home*\siteminder\ETPKI folder.

Solution:

This is no longer an issue.

Uninstall Does Not Remove SDK (68885)

Symptom:

The CA SOA Security Manager does not uninstall files associated with the CA SOA Security Manager SDK.

Solution

This is no longer an issue.

Failover to Second Policy Server in Cluster Fails for SOA Agent for Web Servers (73808)

Symptom:

The SOA Agent for Web Servers does not failover to a secondary Policy Server in a clustered environment when the primary Policy Server fails.

Solution:

This is no longer an issue.

Documentation Install Does Not Remove Older Documentation in Upgrade Scenario (74629)

Symptom:

The CA SOA Security Manager r12.1 documentation install leaves all existing r12.0 documentation files in place when upgrading to r12.1.

Solution:

This is no longer an issue.

Chapter 4: Guidelines for SiteMinder Customers

This section contains information for existing SiteMinder customers adding CA SOA Security Manager to their environments.

You can upgrade an existing SiteMinder Policy Server to a SOA Security Manager Policy Server. A CA SOA Security Manager Policy Servers can perform the functions of both Policy Server types.

You can upgrade an existing SiteMinder Web Agent to a SOA Agent for Web Servers. The SOA Agent can perform the functions of both agent types, handling authenticating and authorizing for both web access and web service requests.

Note: After SiteMinder Policy Server and Web Agents are converted for CA SOA Security Manager use, you can apply CA SOA Security Manager and *supported* SiteMinder software updates. Before applying a SiteMinder software update to a CA SOA Security Manager Policy Server or SOA Agent, check the CA SOA Security Manager r12.1 Platform Support Matrix to confirm that it has been tested for compatibility with CA SOA Security Manager.

More information:

[Platform Support](#) (see page 9)

Upgrade a SiteMinder Policy Server or Web Agent

To upgrade a SiteMinder r12.x Policy Server or Web Agent to CA SOA Security Manager r12.1, run the CA SOA Security Manager r12.1 installer. The CA SOA Security Manager installer identifies the existing SiteMinder Policy Server or Web Agent software and upgrade it appropriately. (The r12.1 CA SOA Security Manager Policy Server and SOA Agent for Web Servers are SiteMinder r12 SP1-based). For more information about running the installer, see the *CA SOA Security Manager r12.1 Implementation Guide*.

To upgrade SiteMinder r6.x Policy Servers and Web Agents to CA SOA Security Manager r12.1, follow the procedures for migrating from CA SOA Security Manager r12.0 in the *CA SOA Security Manager r12.1 Upgrade Guide*. (The r12.0 CA SOA Security Manager Policy Server and SOA Agent for Web Servers are SiteMinder r6.0 SP5-based.)

Apply SiteMinder Updates to a CA SOA Security Manager Policy Server

After a SiteMinder Policy Server is converted for CA SOA Security Manager use, you can apply CA SOA Security Manager and *supported* SiteMinder software updates. Before applying a SiteMinder software update to a CA SOA Security Manager Policy Server, review the CA SOA Security Manager r12.1 Platform Support Matrix to confirm that it has been tested for compatibility with CA SOA Security Manager.

To apply SiteMinder Policy Server software update to a CA SOA Security Manager Policy Server:

1. Back up your Policy Server data, binaries, and configuration files.
2. Install the latest supported SiteMinder Policy Server update.
3. Reinstall the Policy Server using the CA SOA Security Manager r12.1 CR1 installer.

More information:

[Platform Support](#) (see page 9)

Apply SiteMinder Updates to a SOA Agent

After a SiteMinder Web Agent is converted for CA SOA Security Manager use as a SOA Agent, you can apply CA SOA Security Manager and *supported* SiteMinder Web Agent software updates. Before applying a SiteMinder software update to a CA SOA Security Manager Policy Server, review the CA SOA Security Manager r12.1 Platform Support Matrix to confirm that it has been tested for compatibility with CA SOA Security Manager.

To apply SiteMinder Web Agent software update to a SOA Agent

1. Back up the SOA Agent executables.
2. Back up the SOA Agent configuration file (`SOA_HOME\webagent\config\conapi.conf`).
3. Install the latest supported Web Agent software update.
4. Reinstall the SOA Agent using the CA SOA Security Manager r12.1 CR1 installer.

More information:

[Platform Support](#) (see page 9)

Chapter 5: New Username and Password Digest Token Age Restriction

To prevent replay attacks using WS-Security Username and Password Digest tokens, a configurable "freshness" restriction on the age of the token has been added to the WS-Security Authentication scheme. (The default token age restriction is 60 minutes.)

As of SOA Security Manager r12.1 CR1, the default behavior of the WS-Security authentication scheme is therefore to reject authentication for any request whose Username and Password Digest token was created more than 60 minutes ago according to its <wsu:Created> timestamp. For more information, see the *Policy Configuration Guide*.

You can change the token age restriction for Username and Password Digest tokens by modifying the `XmlToolkit.properties` file of each SOA Agent and SOA Security Gateway. For more information, see the *SOA Agent Configuration Guide* and the *SOA Security Gateway Configuration Guide*.

Chapter 6: International Support

An *internationalized* product is an English product that runs correctly on local language versions of the required operating system and required third-party products, and supports local language data for input and output. Internationalized products also support the ability to specify local language conventions for date, time, currency and number formats.

A *translated* product (sometimes referred to as a *localized* product) is an internationalized product that includes local language support for the product's user interface, online help and other documentation, as well as local language default settings for date, time, currency, and number formats.

In addition to the English release of this product, CA supports *only* those languages listed in the following table.

Language	Internationalized	Translated
Brazilian-Portuguese*	Yes	No
Chinese (Simplified)	Yes	No
Chinese (Traditional)	No	No
Czech	Yes	No
Danish	Yes	No
Dutch	Yes	No
Finnish	Yes	No
French	Yes	No
German	Yes	No
Greek	Yes	No
Hungarian	Yes	No
Italian	Yes	No
Japanese	Yes	No
Korean	Yes	No
Norwegian	Yes	No
Polish	Yes	No
Russian	Yes	No
Spanish	Yes	No

Language	Internationalized	Translated
Swedish	Yes	No
Turkish	Yes	No

If you run the product in a language environment not listed in the table, you may experience problems.

Chapter 7: Documentation

This section contains the following topics:

[CA SOA Security Manager Bookshelf](#) (see page 39)
[Guide Names](#) (see page 39)

CA SOA Security Manager Bookshelf

You can find complete information about CA SOA Security Manager by installing the CA SOA Security Manager bookshelf. The CA SOA Security Manager bookshelf lets you:

- Use a single console to view all documents published for SiteMinder.
- Use a single alphabetical index to find a topic in any document.
- Search all documents for one or more words.

The CA SOA Security Manager bookshelf is installed using the software master installer. We recommend that you install the documentation before beginning the software installation process. Once installed, you can view the bookshelf by opening `soa_home\documentation\bookshelf.html` in a web browser.

soa_home

Specifies the installed location of CA SOA Security Manager.

Documentation installation programs are available for download from the [CA Technical Support site](#).

Guide Names

The names of the CA SOA Security Manager guides are as follows:

Guide Name	File Name
<i>Release Notes</i>	soasm_release_enu.pdf
<i>Implementation Guide</i>	soasm_impl_enu.pdf
<i>Policy Server Installation Guide</i>	soasm_ps_install_enu.pdf
<i>Upgrade Guide</i>	soasm_upgrade_enu.pdf
<i>SOA Security Gateway Configuration Guide</i>	soasm_gateway_config_enu.pdf

<i>Policy Configuration Guide</i>	soasm_policy_config_enu.pdf
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<i>Agent Configuration Guide</i>	soasm_agent_config_enu.pdf
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<i>Policy Server Administration Guide</i>	soasm_ps_admin_enu.pdf
---	------------------------

<i>Directory Configuration Guide</i>	soasm_dir_config_enu.pdf
--------------------------------------	--------------------------

<i>Programming Guide</i>	soasm_programming_enu.pdf
--------------------------	---------------------------

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Appendix A: Acknowledgements

This section contains the following topics:

[AdvantNet](#) (see page 41)

[Apache](#) (see page 41)

[Compuware Corporation](#) (see page 45)

[Eclipse Higgins v.1.0](#) (see page 45)

[Rhino](#) (see page 50)

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