



# Reference

ForgeRock Access Management 5.1

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## Abstract

Reference documentation for ForgeRock® Access Management. ForgeRock Access Management provides authentication, authorization, entitlement and federation software.



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# Preface

This reference is written for access management designers, developers, and administrators using ForgeRock Access Management tools, logs, and global configuration.

You can find reference information about the following topics:

- **Command Line Tools.** Command-line interface.
- **Configuration Reference.** Configuration properties that you set by using the Access Management console or the **ssoadm** command.
- **Ports Used.** Default port numbers.
- **Supported Standards.** Supported RFCs, Internet drafts, and standards.
- **Service Endpoints.** URLs that you use to access the web services provided by Access Management.
- **Log Files and Messages.** Log files and messages for the classic Logging Service<sup>1</sup>.

ForgeRock Access Management provides two online API references for developers:

- **Access Management Public API Javadocs.** For a reference to the Access Management Java API, see the Javadoc.
- **ForgeRock Common Rest API.** Access Management 5.1 provides an online reference to the Common REST API. Access the API on the Access Management console by pointing to the following URL:

```
http://openam.example.com:8080/openam/XUI/#api/explorer
```

## About ForgeRock Identity Platform™ Software

ForgeRock Identity Platform™ is the only offering for access management, identity management, user-managed access, directory services, and an identity gateway, designed and built as a single, unified platform.

The platform includes the following components that extend what is available in open source projects to provide fully featured, enterprise-ready software:

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<sup>1</sup> The classic Logging Service was deprecated in OpenAM 13. The Audit Logging Service, introduced in OpenAM 13, uses a structured message format that adheres to a consistent and documented log structure common across the ForgeRock Identity Platform. For information about the Audit Logging Service, see Chapter 6, "Setting Up Audit Logging" in the *Setup and Maintenance Guide*.

- ForgeRock Access Management (AM)
- ForgeRock Identity Management (IDM)
- ForgeRock Directory Services (DS)
- ForgeRock Identity Gateway (IG)

## Chapter 1

# Command Line Tools

This chapter provides a reference for the ForgeRock Access Management command line tools.

## Name

agentadmin — manage policy agent installation

## Synopsis

agentadmin {options}

## Description

This command manages policy agent installations. The **agentadmin** command requires a Java runtime environment.

## Options

The following options are supported.

### **--install**

Installs a new Agent instance.

Usage: **agentadmin --install [--useResponse | --saveResponse *file-name*]**

#### **--useResponse**

Use this option to install in silent mode by specifying all the responses in a response specified by *file-name*. When this option is used the installer runs in non-interactive mode.

#### **--saveResponse**

Use this option to save all the supplied responses to a response file specified by *file-name*.

### **--custom-install**

Installs a new Agent instance

Usage: **agentadmin --custom-install [--useResponse | --saveResponse *file-name*]**

#### **--useResponse**

Use this option to install in silent mode by specifying all the responses in a response specified by *file-name*. When this option is used the installer runs in non-interactive mode.

#### **--saveResponse**

Use this option to save all the supplied responses to a response file specified by *file-name*.

### **--acceptLicense**

Auto-accepts the software license agreement. If this option is present on the command line with the **--install** or **--custom-install** option, the license agreement prompt is suppressed and the agent install continues. To view the license agreement, open `<server-root>/legal-notices/license.txt`.

**--uninstall**

Uninstalls an existing Agent instance.

Usage: **agentadmin --uninstall [--useResponse | --saveResponse *file-name*]**

**--useResponse**

Use this option to install in silent mode by specifying all the responses in a response specified by *file-name*. When this option is used the installer runs in non-interactive mode.

**--saveResponse**

Use this option to save all the supplied responses to a response file specified by *file-name*.

**--version**

Displays the version information.

**--uninstallAll**

Uninstalls all the agent instances.

**--migrate**

Migrate agent to newer version

**--listAgents**

Displays details of all the configured agents.

**--agentInfo**

Displays details of the agent corresponding to the specified *agent-id*.

Example: **agentadmin --agentInfo agent\_001**

**--encrypt**

Encrypts a given string.

Usage: **agentadmin --encrypt *agent-instance password-file***

***agent-instance***

Agent instance identifier. The encryption functionality requires the use of agent instance specific encryption key present in its configuration file.

***password-file***

File containing the password to encrypt.

**--getEncryptKey**

Generates an agent encryption key.



## Examples

The following example installs an Apache HTTP Server 2.2 interactively, where Apache HTTP Server has been installed under `/path/to/apache22`.

```
$ ./agentadmin --install --acceptLicense
..
.
-----
SUMMARY OF YOUR RESPONSES
-----
Apache Server Config Directory : /path/to/apache22/conf
OpenSSO server URL : http://openam.example.com:8080/openam
Agent URL : http://www.example.com:80
Agent Profile name : Apache Web Agent
Agent Profile Password file name : /tmp/pwd.txt

...
SUMMARY OF AGENT INSTALLATION
-----
Agent instance name: Agent_001
Agent Bootstrap file location:
/path/to/web_agents/apache22_agent/Agent_001/config/
  OpenSSOAgentBootstrap.properties
Agent Configuration Tag file location
/path/to/web_agents/apache22_agent/Agent_001/config/
  OpenSSOAgentConfiguration.properties
Agent Audit directory location:
/path/to/web_agents/apache22_agent/Agent_001/logs/audit
Agent Debug directory location:
/path/to/web_agents/apache22_agent/Agent_001/logs/debug

Install log file location:
/path/to/web_agents/apache22_agent/installer-logs/audit/install
.log
...
```

## Name

ampassword — change passwords for the AM Administrator

## Synopsis

```
ampassword {options}
```

## Description

This command allows you to change passwords held in the configuration store, and to encrypt passwords.

## Options

The following options are supported.

```
-a | --admin [ -o | --old old-password-file -n | --new new-password-file ]
```

Change the password for **amAdmin** from the value stored in *old-password-file* to the value stored in *new-password-file*.

```
-p | --proxy [ -o | --old old-password-file -n | --new new-password-file ]
```

Change the password for the proxy administrator from the value stored in *old-password-file* to the value stored in *new-password-file*.

The proxy administrator password is shown encrypted in the output from **ssoadm get-svrcfg-xml**.

```
-e | --encrypt [ password-file ]
```

Display the password value provided encrypted with the key generated during AM installation.

```
-h | --help
```

Display the usage message.

## Examples

The following example encrypts the password contained within a text file.

- Create a text file, for example `$HOME/.pwd.txt`, containing the password string on a single line.
- Encrypt the password by using the **ampassword** command:

```
$ ampassword -e $HOME/.pwd.txt
AQICKzS3qy5QUCXir9tebIEEZYGFXI2lCC4B
```

## Name

amverifyarchive — check AM log archives for tampering

## Synopsis

```
amverifyarchive {options}
```

## Description

This command checks log archive integrity.

## Options

The following options are required.

**-l *logName***

Verify log files of the specified type. To specify an individual log rather than a type, provide the entire log file name.

**-p *path***

Path to log files to verify.

**-u *userName***

User who can read log files.

**-w *password***

Password of the user who can read log files.

## Examples

The following example checks the **amConsole** logs.

```
$ amverifyarchive \  
-l amConsole \  
-p $HOME/openam/openam/log \  
-u amadmin \  
-w password
```

## Name

configurator.jar — install or upgrade AM using a configuration file

## Synopsis

```
configurator.jar {options}
```

## Description

This executable .jar file, openam-configurator-tool-14.1.0.jar, lets you perform silent installation, configuring a deployed AM server by applying settings from a configuration file.

## Options

The following options are supported.

**-f | --file *configuration-file***

Configure a deployed AM web application archive using the specified configuration file. Installation and upgrade configuration files are described in the sections below.

**--acceptLicense**

Auto-accept the software license agreement and suppress the display of the licence acceptance screen to the user. If the configuration file contains the **ACCEPT\_LICENSES** property, it will have precedence over the command-line option.

**-? | --help**

Display the usage message.

## Installation Configuration File

Base your configuration on the **sampleconfiguration** file delivered with AM, and using the hints in this section, or the comments included in the file.

### *Server Properties*

These properties pertain to the AM server instance.

#### **SERVER\_URL**

URL to the web container where you want AM to run, such as **http://openam.example.com:8080**

#### **DEPLOYMENT\_URI**

URI where you want to deploy AM on the web container, such as **/openam**

## BASE\_DIR

Configuration directory where AM stores files and embedded configuration directory servers, such as `$HOME/openam`

## locale

The user locale, such as `en_GB`

## PLATFORM\_LOCALE

The locale of the AM server, such as `en_US`

## AM\_ENC\_KEY

The password encryption key, which must be the same on all servers in a multi-server installation, such as `06QWwHP04os+zEz3Nqn/2daAYWyIFE32`. If left blank, installing AM generates a random password encryption key that you can view in the AM console under Deployment > Servers > *Server Name* > Security.

## ADMIN\_PWD

Password of the AM administrator user `amadmin`, which must be at least 8 characters in length and must match that of other servers in a multiserver deployment

## AMLDAPUSERPASSWD

Password of the default policy agent `UrlAccessAgent`, which must be at least 8 characters in length and must not be the same as the value of `ADMIN_PWD`

## COOKIE\_DOMAIN

Name of the trusted DNS domain AM returns to a browser when it grants a session ID to a user. By default, it is set to the full URL that was used to access the configurator, such as `example.com`.

## ACCEPT\_LICENSES

Optional boolean property that can be set to always auto-accept the software license agreement and suppress the display of the license acceptance screen to the user. A value of `true` auto-accepts the license; any other value will be assumed to equal `false`, resulting in the presentation of the license. Default value is `false`. This property takes precedence over the `--acceptLicense` option, which can also be passed in to the application with the `openam-configurator-tool-14.1.0.jar` file.

## Configuration Store Properties

These properties pertain to the directory server where AM stores its configuration.

## DATA\_STORE

Type of the configuration data store. The value `embedded` means set up AM with an embedded, DS configuration store. The value `dirServer` means an external directory server, such as ForgeRock Directory Services, or Oracle Directory Server Enterprise Edition. If you set this to `dirServer`, and the configuration store contains the configuration of other AM servers, then the server is added to the existing multiserver installation.

## DIRECTORY\_SSL

To use LDAP without SSL, set this to **SIMPLE**. To use LDAP with SSL, set this to **SSL**.

## DIRECTORY\_SERVER

Fully qualified domain name of the configuration store directory server host, such as **opendj.example.com**

## DIRECTORY\_PORT

LDAP or LDAPS port number for the configuration store directory server, such as 389 or 636

## DIRECTORY\_ADMIN\_PORT

Administration port number for the configuration store directory server, such as 4444

## DIRECTORY\_JMX\_PORT

Java Management eXtension port number, such as **1689**, used with the DS embedded configuration store

## ROOT\_SUFFIX

Root suffix distinguished name (DN) for the configuration store, such as **o=openam**

## DS\_DIRMGRDN

Distinguished name of the directory manager of the configuration store, such as **cn=Directory Manager**

## DS\_DIRMGRPASSWD

Password for the directory manager of the configuration store

## *User Data Store Properties*

These properties pertain to the directory server where AM stores user profiles. If you do not include these properties, or you leave these properties commented out, then AM uses the same directory server as it uses for the configuration store.

## USERSTORE\_TYPE

The type of directory server used. Valid values include the following.

- **LDAPv3ForOpenDS**: ForgeRock OpenDJ or Sun OpenDS
- **LDAPv3ForAD**: Active Directory with host and port settings
- **LDAPv3ForADDC**: Active Directory with a Domain Name setting
- **LDAPv3ForADAM**: Active Directory Application Mode
- **LDAPv3ForODSEE**: Sun Java System Directory Server

- **LDAPv3ForTivoli**: IBM Tivoli Directory Server

## USERSTORE\_SSL

To use LDAP without SSL, set this to **SIMPLE**. To use LDAP with SSL, set this to **SSL**.

## USERSTORE\_DOMAINNAME

If **USERSTORE\_TYPE** is **LDAPv3ForADDC**, you set this to the Active Directory Domain Name, such as **ad.example.com**, and then set only the **USERSTORE\_SSL**, **USERSTORE\_MGRDN**, and **USERSTORE\_PASSWD** additional parameters. This lets Active Directory use DNS to retrieve service locations. Otherwise, do not use.

## USERSTORE\_HOST

Fully qualified domain name of the user data store directory server, such as **opendj.example.com**

## USERSTORE\_PORT

Port number of the user data store. Default for LDAP is 389, and for LDAP over SSL is 636.

## USERSTORE\_SUFFIX

Root suffix distinguished name for the user data in the directory, such as **dc=example,dc=com**

## USERSTORE\_MGRDN

Distinguished name of the directory manager of the user data store, such as **cn=Directory Manager**

## USERSTORE\_PASSWD

Password for the directory manager of the user data store

## Site Properties

These properties pertain when you configure multiple AM servers in a site deployment, where a load balancer spreads request across multiple servers. Use the **DS\_EMB\_REPL\*** and **existingserverid** properties only for the second and subsequent servers in a site configuration.

## LB\_SITE\_NAME

The name of the AM site

## LB\_PRIMARY\_URL

The load balancer URL for the site, such as **http://lb.example.com:80/openam**.

## DS\_EMB\_REPL\_FLAG

Enable use of the embedded configuration store by setting this parameter to **embReplFlag**, only if the **DATA\_STORE** parameter is set to **embedded**. Use the other **DS\_EMB\_REPL\*** parameters in this section to set up configuration store data replication.

## DS\_EMB\_REPL\_REPLPORT1

Replication port number for the new AM server you are installing, such as 58989

**DS\_EMB\_REPL\_HOST2**

Host name of an existing AM server housing the configuration store directory server with which to replicate, such as `openam1.example.com`

**DS\_EMB\_REPL\_ADMINPORT2**

Administration port number for the configuration store directory server used by the existing AM server, such as 4444

**DS\_EMB\_REPL\_REPLPORT2**

Replication port number for the configuration store directory server used by the existing AM server, such as 50899

**existingserverid**

Full URL of the existing AM server, such as `http://server1.example.com:8080/openam`

## Upgrade Configuration File

Base your configuration on the `sampleconfiguration` file delivered with AM, and using the hints in this section, or the comments included in the file.

### *Upgrade Properties*

**SERVER\_URL**

URL to the web container where AM runs, such as `http://openam.example.com:8080`

**DEPLOYMENT\_URI**

URI where AM is deployed on the web container, such as `/openam`

**ACCEPT\_LICENSES**

Optional boolean property that can be set to always auto-accept the software license agreement and suppress displaying the license acceptance screen to the user. A value of `true` auto-accepts the license; any other value will be assumed to equal `false`, resulting in the presentation of the license. Default value is `false`. This property takes precedence over the `--acceptLicense` option, which can also be passed in to the application with the `openam-configurator-tool-14.1.0.jar` file.

## Examples

The following example shows a configuration file to install a server with an external user data store.

```
# Server properties, AM_ENC_KEY="" means generate random key
SERVER_URL=http://openam.example.com:8080
DEPLOYMENT_URI=/openam
BASE_DIR=$HOME/openam
locale=en_US
PLATFORM_LOCALE=en_US
```



```
AM_ENC_KEY=
ADMIN_PWD=change3me
AMLDAPUSERPASSWD=secret12
COOKIE_DOMAIN=openam.example.com
ACCEPT_LICENSES=true

# Embedded configuration data store
DATA_STORE=embedded
DIRECTORY_SSL=SIMPLE
DIRECTORY_SERVER=openam.example.com
DIRECTORY_PORT=50389
DIRECTORY_ADMIN_PORT=4444
DIRECTORY_JMX_PORT=1689
ROOT_SUFFIX=o=openam
DS_DIRMGRDN=cn=Directory Manager
DS_DIRMGRPASSWD=chang3me

# External OpenDJ based user data store
USERSTORE_TYPE=LDAPv3ForOpenDS
USERSTORE_SSL=SIMPLE
#USERSTORE_DOMAINNAME=ad.example.com
USERSTORE_HOST=opendj.example.com
USERSTORE_PORT=389
USERSTORE_SUFFIX=dc=example,dc=com
USERSTORE_MGRDN=cn=Directory Manager
USERSTORE_PASSWD=secret12

# Uncomment to specify the site for the first server in a site configuration
#LB_SITE_NAME=lb
#LB_PRIMARY_URL=http://lb.example.com:80/openam
```

The following example shows a configuration file to install the second server in a site configuration.

```
# Server properties, AM_ENC_KEY from first server
SERVER_URL=http://server2.example.com:8080
DEPLOYMENT_URI=/openam
BASE_DIR=$HOME/openam
locale=en_US
PLATFORM_LOCALE=en_US
AM_ENC_KEY=06QWwHP04os+zEz3Nqn/2daAYWyifE32
ADMIN_PWD=change3me
AMLDAPUSERPASSWD=secret12
COOKIE_DOMAIN=openam.example.com
ACCEPT_LICENSES=true

# Embedded configuration data store
DATA_STORE=embedded
DIRECTORY_SSL=SIMPLE
DIRECTORY_SERVER=server2.example.com
DIRECTORY_PORT=50389
DIRECTORY_ADMIN_PORT=4444
DIRECTORY_JMX_PORT=1689
ROOT_SUFFIX=o=openam
DS_DIRMGRDN=cn=Directory Manager
DS_DIRMGRPASSWD=chang3me

# External OpenDJ based user data store
USERSTORE_TYPE=LDAPv3ForOpenDS
USERSTORE_SSL=SIMPLE
```

```
#USERSTORE_DOMAINNAME=ad.example.com
USERSTORE_HOST=opendj.example.com
USERSTORE_PORT=389
USERSTORE_SUFFIX=dc=example,dc=com
USERSTORE_MGRDN=cn=Directory Manager
USERSTORE_PASSWD=secret12

# Site properties
LB_SITE_NAME=lb
LB_PRIMARY_URL=http://lb.example.com:80/openam
DS_EMB_REPL_FLAG=embReplFlag
DS_EMB_REPL_REPLPORT1=58989
DS_EMB_REPL_HOST2=server1.example.com
DS_EMB_REPL_ADMINPORT2=4444
DS_EMB_REPL_REPLPORT2=50889
existingserverid=http://server1.example.com:8080/openam
```

The following example shows a configuration file to upgrade an AM server.

```
SERVER_URL=https://openam.example.com:8080
DEPLOYMENT_URI=/openam
ACCEPT_LICENSE=true
```

The following example uses a configuration file with the `--acceptLicense` option on the command line.

```
$ java \
-jar openam-configurator-tool-14.1.0.jar \
-f config.file \
--acceptLicense
```

## Name

upgrade.jar — upgrade AM using a configuration file

## Synopsis

```
upgrade.jar {options}
```

## Description

This executable jar file, openam-upgrade-tool-14.1.0.jar, lets you perform a silent upgrade on a deployed AM server by applying settings from a configuration file or using arguments. This capability allows you to include the `upgrade.jar` from a command line or in an upgrade script.

## Options

The following options are supported.

**-f | --file *configuration-file***

Upgrade a deployed AM web application archive using the specified configuration file. Upgrade configuration files are described in the sections below. Also, you can specify the system properties on the command line, instead of using the configuration file. See Example 2 below.

**--acceptLicense**

Auto-accept the software license agreement and suppress the display of the licence acceptance screen to the user. If the configuration file contains the `ACCEPT_LICENSES` property, it will have precedence over the command-line option.

**-? | --help**

Display the usage message.

## Upgrade Configuration File

Base your configuration on the `sampleupgrade` file delivered with AM, and using the hints in this section, or the comments included in the file.

### *Upgrade Properties*

#### **SERVER\_URL**

URL to the web container where AM runs, such as `http://openam.example.com:8080`.

#### **DEPLOYMENT\_URI**

URI where AM is deployed on the web container, such as `/openam`.

## ACCEPT\_LICENSES

Optional boolean property that can be set to always auto-accept the software license agreement and suppress displaying the license acceptance screen to the user. A value of `true` auto-accepts the license; any other value will be assumed to equal `false`, resulting in the presentation of the license. Default value is `false`. This property takes precedence over the `--acceptLicense` option, which can also be passed in to the application with the `openam-upgrade-tool-14.1.0.jar` file.

## Examples

The following example shows a configuration file and the commands to upgrade a server using the `upgrade.jar`. The configuration file is saved as `/tmp/upgrade.txt`.

```
SERVER_URL=http://openam.example.com:8080
DEPLOYMENT_URI=/openam
ACCEPT_LICENSES=true
```

```
$JAVA_HOME/bin/java -jar ~/openam/tools/openam-upgrade-tool-14.1.0.jar \
-f /tmp/upgrade.txt
```

The following example shows how to specify system properties with the `upgrade.jar`.

```
SERVER_URL=http://openam.example.com:8080
DEPLOYMENT_URI=/openam
ACCEPT_LICENSES=true
```

```
$JAVA_HOME/bin/java -jar ~/openam/tools/openam-upgrade-tool-14.1.0.jar \
-DSEVER_URL=http://openam.example.com:8080 -DDEPLOYMENT_URI=/openam
```

The following example shows the use of the `--acceptLicense` option with the `upgrade.jar`.

```
SERVER_URL=http://openam.example.com:8080
DEPLOYMENT_URI=/openam
```

```
$JAVA_HOME/bin/java -jar ~/openam/tools/openam-upgrade-tool-14.1.0.jar \
-DSEVER_URL=http://openam.example.com:8080 -DDEPLOYMENT_URI=/openam \
--acceptLicense
```

## Name

ssoadm — configure OpenAM core services

## Synopsis

```
ssoadm [subcommand] [options]
```

## Description

The **ssoadm** command provides a rich command-line interface for configuring OpenAM core services.

Also see the *Installation Guide* procedure, *To Set Up Administration Tools* in the *Installation Guide* for instructions on setting up the **ssoadm** command.

## Global Options

The following global options are supported.

**--debug, -d**

Run in debug mode. Results sent to the debug file.

**--help, -?**

Print usage.

This command can also be used with subcommands as in **ssoadm subcommand --help**.

**--information, -0**

Print basic information about the tool.

**--locale, -l**

Name of the locale to display the results.

**--verbose, -v**

Run in verbose mode. Results sent to standard output.

**--version, -V**

Print the version of this tool.

## JVM Properties for ssoadm

You can specifically set the authentication module or chain for administrator logins using two JVM settings. These settings provide more control to select the exact authentication mechanisms to be used when **ssoadm** authenticates administrators in the top-level realm.

To set these properties, manually edit the following two JVM settings in the **ssoadm** or **ssoadm.bat** script.

**org.forgerock.openam.ssoadm.auth.indexType**

Specifies the module or chain-based authentication in the top level realm. If the property is set, OpenAM uses only *that* authentication mechanism.

**org.forgerock.openam.ssoadm.auth.indexName**

Specifies the actual name of the authentication module/chain as controlled by the **indexType** setting. For example, if the **indexType** is set to **module\_instance** and **indexName** is set to **LDAP**, then **ssoadm** authenticates using only the LDAP authentication module.

## Subcommands: By Category

This section lists subcommands by category. The subsequent section lists subcommands in alphabetical order with a short description.

See **ssoadm subcommand --help** for detailed options.

## Agent Configuration

- **add-agent-to-grp**
- **agent-remove-props**
- **create-agent**
- **create-agent-grp**
- **delete-agent-grps**
- **delete-agents**
- **list-agent-grp-members**
- **list-agent-grps**
- **list-agents**
- **remove-agent-from-grp**
- **show-agent**
- **show-agent-grp**
- **show-agent-membership**

- **show-agent-types**
- **update-agent**
- **update-agent-grp**

## Authentication Service Management

- **add-auth-cfg-entr**
- **create-auth-cfg**
- **create-auth-instance**
- **delete-auth-cfgs**
- **delete-auth-instances**
- **get-auth-cfg-entr**
- **get-auth-instance**
- **list-auth-cfgs**
- **list-auth-instances**
- **register-auth-module**
- **unregister-auth-module**
- **update-auth-cfg-entr**
- **update-auth-cfg-props**
- **update-auth-instance**

## Data Store Management

- **add-amsdk-idrepo-plugin**
- **create-datastore**
- **delete-datastores**
- **list-datastore-types**
- **list-datastores**

- **show-datastore**
- **update-datastore**

## Entitlements

- **add-app-priv**
- **create-appl**
- **create-appl-type**
- **delete-appl-types**
- **delete-appls**
- **list-appl-types**
- **list-appls**
- **set-appl**
- **set-entitlement-conf**
- **show-app-priv**
- **show-appl**
- **show-entitlement-conf**
- **update-app-priv**
- **update-app-priv-resources**
- **update-app-priv-subjects**

## Federation Management

- **add-cot-member**
- **create-cot**
- **create-metadata-templ**
- **delete-cot**
- **delete-entity**



- **do-bulk-federation**
- **export-entity**
- **import-bulk-fed-data**
- **import-entity**
- **list-cot-members**
- **list-cots**
- **list-entities**
- **remove-cot-member**
- **update-entity-keyinfo**

## Identity Management

- **add-member**
- **add-privileges**
- **add-svc-identity**
- **create-identity**
- **delete-identities**
- **get-identity**
- **get-identity-svcs**
- **list-identities**
- **list-identity-assignable-svcs**
- **remove-member**
- **remove-privileges**
- **remove-svc-identity**
- **set-identity-attrs**
- **set-identity-svc-attrs**
- **show-identity-ops**

- **show-identity-svc-attrs**
- **show-identity-types**
- **show-members**
- **show-memberships**
- **show-privileges**

## Policy Management

- **create-xacml**
- **delete-xacml**
- **list-xacml**

## Realm Management

- **add-svc-attrs**
- **add-svc-realm**
- **create-realm**
- **delete-realm**
- **delete-realm-attr**
- **get-realm**
- **get-realm-svc-attrs**
- **list-realm-assignable-svcs**
- **list-realms**
- **remove-svc-attrs**
- **remove-svc-realm**
- **set-realm-attrs**
- **set-svc-attrs**
- **set-realm-svc-attrs**
- **show-auth-modules**

- **show-data-types**
- **show-realm-svcs**

## Server Configuration

- **add-site-members**
- **add-site-sec-urls**
- **clone-server**
- **create-server**
- **create-site**
- **delete-server**
- **delete-site**
- **export-server**
- **get-svrcfg-xml**
- **import-server**
- **list-server-cfg**
- **list-servers**
- **list-sites**
- **remove-server-cfg**
- **remove-site-members**
- **remove-site-sec-urls**
- **set-site-pri-url**
- **set-site-sec-urls**
- **set-svrcfg-xml**
- **show-site**
- **show-site-members**
- **update-server-cfg**

## Service Management

To translate settings applied in OpenAM console to service attributes for use with **ssoadm**, login to the OpenAM console as **amadmin** and access the services page, such as <http://openam.example.com:8080/openam/services.jsp>.

- **add-attr-defs**
- **add-attrs**
- **add-plugin-interface**
- **add-sub-schema**
- **create-sub-cfg**
- **create-svc**
- **create-svrcfg-xml**
- **delete-attr**
- **delete-sub-cfg**
- **delete-svc**
- **export-svc-cfg**
- **get-attr-defs**
- **get-revision-number**
- **get-sub-cfg**
- **import-svc-cfg**
- **remove-attr-choicevals**
- **remove-attr-defs**
- **remove-sub-schema**
- **set-attr-any**
- **set-attr-bool-values**
- **set-attr-choicevals**
- **set-attr-defs**

- **set-attr-end-range**
- **set-attr-i18n-key**
- **set-attr-start-range**
- **set-attr-syntax**
- **set-attr-type**
- **set-attr-ui-type**
- **set-attr-validator**
- **set-attr-view-bean-url**
- **set-inheritance**
- **set-plugin-viewbean-url**
- **set-revision-number**
- **set-sub-cfg**
- **set-svc-i18n-key**
- **set-svc-view-bean-url**
- **update-svc**

## Other

- **add-res-bundle**
- **do-batch**
- **do-migration70**
- **list-res-bundle**
- **list-sessions**
- **remove-res-bundle**

## Subcommands: Alphabetical Order

The following subcommands are supported.

See also **ssoadm *subcommand* --help**.

## ssoadm add-agent-to-grp

Add agents to a agent group.

Usage: `ssoadm add-agent-to-grp --options [--global-options]`

### Options

- adminid, -u**  
Administrator ID of running the command.
- agentgroupname, -b**  
Name of agent group.
- agentnames, -s**  
Names of agents.
- password-file, -f**  
File name that contains password of administrator.
- realm, -e**  
Name of realm.

## ssoadm add-amsdk-idrepo-plugin

Create AMSDK IdRepo Plug-in

Usage: `ssoadm add-amsdk-idrepo-plugin --options [--global-options]`

### Options

- adminid, -u**  
Administrator ID of running the command.
- basedn, -b**  
Directory Server base distinguished name.
- bind-password-file, -m**  
File that contains password of bind password.
- binddn, -e**  
Directory Server bind distinguished name.
- directory-servers, -s**  
directory servers <protocol>://<hostname>:<port>. Can have multiple entries.

**--dsame-password-file, -x**

File that contains password of the dsameuser

**--password-file, -f**

File name that contains password of administrator.

**--puser-password-file, -p**

File that contains password of the puser

**[--org, -o]**

Organization objects naming attribute (defaults to 'o')

**[--user, -a]**

User objects naming attribute (defaults to 'uid')

## ssoadm add-app-priv

Add a policy set privilege to delegate resources of a given policy set. Note that policy sets are cached for 30 minutes. Restart OpenAM to apply changes immediately.

Usage: `ssoadm add-app-priv --options [--global-options]`

### Options

**--actions, -a**

Possible values are READ, MODIFY, DELEGATE, ALL

**--adminid, -u**

Administrator ID of running the command.

**--application, -t**

Policy set name

**--name, -m**

Name for the this delegation

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Realm name

**--subjects, -s**

Subject name

**--subjecttype, -b**

Possible values are User or Group

**[--description, -p]**

Description for the this delegation.

**[--resources, -r]**

Resources to delegate, All resources in the policy set will be delegated if this option is absent.

## ssoadm add-attr-defs

Add default attribute values in schema.

Usage: `ssoadm add-attr-defs --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--schematype, -t**

Type of schema.

**--servicename, -s**

Name of service.

**[--attributevalues, -a]**

Attribute values e.g. homeaddress=here.

**[--datafile, -D]**

Name of file that contains attribute values data.

**[--subschemaname, -c]**

Name of sub schema.

## ssoadm add-attrs

Add attribute schema to an existing service.

Usage: `ssoadm add-attrs --options [--global-options]`



## Options

- adminid, -u**  
Administrator ID of running the command.
- attributeschemafile, -F**  
XML file containing attribute schema definition.
- password-file, -f**  
File name that contains password of administrator.
- schematype, -t**  
Schema Type.
- servicename, -s**  
Service Name.
- [--subscemaname, -c]**  
Name of sub schema.

## ssoadm add-auth-cfg-entr

Add authentication configuration entry

Usage: `ssoadm add-auth-cfg-entr --options [--global-options]`

## Options

- adminid, -u**  
Administrator ID of running the command.
- criteria, -c**  
Criteria for this entry. Possible values are REQUIRED, OPTIONAL, SUFFICIENT, REQUISITE
- modulename, -o**  
Module Name.
- name, -m**  
Name of authentication configuration.
- password-file, -f**  
File name that contains password of administrator.

**--realm, -e**

Name of realm.

**[--options, -t]**

Options for this entry.

**[--position, -p]**

Position where the new entry is to be added. This option is not set, entry shall be added to the end of the list. If value of this option is 0, it will be inserted to the front of the list. If value is greater than the length of the list, entry shall be added to the end of the list.

## ssoadm add-cot-member

Add a member to a circle of trust.

Usage: `ssoadm add-cot-member --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--cot, -t**

Circle of Trust

**--entityid, -y**

Entity ID

**--password-file, -f**

File name that contains password of administrator.

**[--realm, -e]**

Realm where circle of trust resides

**[--spec, -c]**

Specify metadata specification, either wsfed, idff or saml2, defaults to saml2

## ssoadm add-member

Add an identity as member of another identity

Usage: `ssoadm add-member --options [--global-options]`

## Options

- adminid, -u**  
Administrator ID of running the command.
- idname, -i**  
Name of identity.
- idtype, -t**  
Type of Identity
- memberidname, -m**  
Name of identity that is member.
- memberidtype, -y**  
Type of Identity of member such as User, Role and Group.
- password-file, -f**  
File name that contains password of administrator.
- realm, -e**  
Name of realm.

## ssoadm add-plugin-interface

Add Plug-in interface to service.

Usage: `ssoadm add-plugin-interface --options [--global-options]`

## Options

- adminid, -u**  
Administrator ID of running the command.
- i18nkey, -k**  
Plug-in I18n Key.
- interfacename, -i**  
Name of interface.
- password-file, -f**  
File name that contains password of administrator.

**--pluginname, -g**  
Name of Plug-in.

**--servicename, -s**  
Name of service.

## ssoadm add-plugin-schema

Add Plug-in schema to service.

Usage: `ssoadm add-plugin-schema --options [--global-options]`

### *Options*

**--adminid, -u**  
Administrator ID of running the command.

**--classname, -c**  
Name of the Plugin Schema class implementation

**--i18nkey, -k**  
Plug-in I18n Key.

**--i18nname, -n**  
Plug-in I18n Name.

**--interfacename, -i**  
Name of interface.

**--password-file, -f**  
File name that contains password of administrator.

**--pluginname, -g**  
Name of Plug-in.

**--servicename, -s**  
Name of service.

## ssoadm add-privileges

Add privileges to an identity. To add a privilege to all authenticated users, use the "All Authenticated Users" idname with "role" idtype.

Usage: `ssoadm add-privileges --options [--global-options]`

## Options

**--adminid, -u**

Administrator ID of running the command.

**--idname, -i**

Name of identity.

**--idtype, -t**

Type of Identity such as Role and Group.

**--password-file, -f**

File name that contains password of administrator.

**--privileges, -g**

Name of privileges to be added. Privilege names are AgentAdmin, ApplicationModifyAccess, ApplicationReadAccess, ApplicationTypesReadAccess, ConditionTypesReadAccess, DecisionCombinersReadAccess, EntitlementRestAccess, FederationAdmin, LogAdmin, LogRead, LogWrite, PolicyAdmin, PrivilegeRestAccess, PrivilegeRestReadAccess, RealmAdmin, RealmReadAccess, ResourceTypeModifyAccess, ResourceTypeReadAccess, SubjectAttributesReadAccess, and SubjectTypesReadAccess.

**--realm, -e**

Name of realm.

## ssoadm add-res-bundle

Add resource bundle to data store.

Usage: `ssoadm add-res-bundle --options [--global-options]`

## Options

**--adminid, -u**

Administrator ID of running the command.

**--bundlefilename, -B**

Resource bundle physical file name.

**--bundlename, -b**

Resource Bundle Name.

**--password-file, -f**

File name that contains password of administrator.

**[--bundlelocale, -o]**

Locale of the resource bundle.

## ssoadm add-site-members

Add members to a site.

Usage: `ssoadm add-site-members --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--servernames, -e**

Server names, e.g. `http://www.example.com:8080/fam`

**--sitename, -s**

Site name, e.g. `mysite`

## ssoadm add-site-sec-urls

Add Site Secondary URLs.

Usage: `ssoadm add-site-sec-urls --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--secondaryurls, -a**

Secondary URLs

**--sitename, -s**

Site name, e.g. `mysite`

## ssoadm add-sub-schema

Add sub schema.

Usage: `ssoadm add-sub-schema --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--filename, -F**

Name of file that contains the schema

**--password-file, -f**

File name that contains password of administrator.

**--schematype, -t**

Type of schema.

**--servicename, -s**

Name of service.

## ssoadm add-svc-attrs

Add service attribute values in a realm. Long content for an attribute can be supplied in a file by appending '-file' to the attribute name, and giving the filename as the value.

Usage: `ssoadm add-svc-attrs --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

**--servicename, -s**

Name of service.

**[--attributevalues, -a]**

Attribute values to be added e.g. homeaddress=here.

**[--datafile, -D]**

Name of file that contains attribute values to be added.

## ssoadm add-svc-identity

Add Service to an identity

Usage: `ssoadm add-svc-identity --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--idname, -i**

Name of identity.

**--idtype, -t**

Type of Identity such as User, Role and Group.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

**--servicename, -s**

Name of service.

**[--attributevalues, -a]**

Attribute values e.g. homeaddress=here.

**[--datafile, -D]**

Name of file that contains attribute values data.

## ssoadm add-svc-realm

Add service to a realm. Long content for an attribute can be supplied in a file by appending '-file' to the attribute name, and giving the filename as the value.

Usage: `ssoadm add-svc-realm --options [--global-options]`



## Options

- adminid, -u**  
Administrator ID of running the command.
- password-file, -f**  
File name that contains password of administrator.
- realm, -e**  
Name of realm.
- servicename, -s**  
Service Name.
- [--attributevalues, -a]**  
Attribute values e.g. homeaddress=here.
- [--datafile, -D]**  
Name of file that contains attribute values data.

## ssoadm agent-remove-props

Remove agent's properties.

Usage: `ssoadm agent-remove-props --options [--global-options]`

## Options

- adminid, -u**  
Administrator ID of running the command.
- agentname, -b**  
Name of agent.
- attributenames, -a**  
properties name(s).
- password-file, -f**  
File name that contains password of administrator.
- realm, -e**  
Name of realm.

## ssoadm clone-server

Clone a server instance.

Usage: `ssoadm clone-server --options [--global-options]`

### Options

- `--adminid, -u`  
Administrator ID of running the command.
- `--cloneservername, -o`  
Clone server name
- `--password-file, -f`  
File name that contains password of administrator.
- `--servername, -s`  
Server name

## ssoadm create-agent

Create a new agent configuration.

Usage: `ssoadm create-agent --options [--global-options]`

### Options

- `--adminid, -u`  
Administrator ID of running the command.
- `--agentname, -b`  
Name of agent.
- `--agenttype, -t`  
Type of agent. Possible values: J2EEAgent, WebAgent, 2.2\_Agent, SharedAgent, OAuth2Client
- `--password-file, -f`  
File name that contains password of administrator.
- `--realm, -e`  
Name of realm.

**[--agenturl, -g]**

Agent URL. e.g. `http://www.agent.example:8080/agent`. WebAgent does not take URL with path. e.g. `http://www.agent.example:8080`. This option is valid only for J2EEAgent and WebAgent agent types, and is required when the agent type is J2EEAgent or WebAgent.

**[--attributevalues, -a]**

Properties e.g. `sunIdentityServerDeviceKeyValue=https://agent.example.com:443/`

**[--datafile, -D]**

Name of file that contains properties.

**[--serverurl, -s]**

Server URL. e.g. `http://www.example.com:58080/openam`. This option is valid only for J2EEAgent and WebAgent agent types, and is required when the agent type is J2EEAgent or WebAgent.

## ssoadm create-agent-grp

Create a new agent group.

Usage: `ssoadm create-agent-grp --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--agentgroupname, -b**

Name of agent group.

**--agenttype, -t**

Type of agent group. e.g. J2EEAgent, WebAgent

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

**[--attributevalues, -a]**

Properties e.g. `homeaddress=here`.

**[--datafile, -D]**

Name of file that contains properties.

**[--serverurl, -s]**

Server URL. e.g. `http://www.example.com:58080/openam`. This option is valid for J2EEAgent and WebAgent.

## ssoadm create-appl

Create policy set.

Usage: `ssoadm create-appl --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--applicationtype, -t**

Application type name

**--name, -m**

Policy set name

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Realm name

**[--attributevalues, -a]**

Attribute values e.g. `applicationType=iPlanetAMWebAgentService`.

**[--datafile, -D]**

Name of file that contains attribute values data. Mandatory attributes are resources, subjects, conditions and entitlementCombiner. Optional ones are actions, searchIndexImpl, saveIndexImpl, resourceComparator, subjectAttributeNames.

## ssoadm create-appl-type

Create application type.

Usage: `ssoadm create-appl-type --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--name, -m**

Application Type name

**--password-file, -f**

File name that contains password of administrator.

**[--attributevalues, -a]**

Application Type attribute values e.g. actions=enabled=true.

**[--datafile, -D]**

Name of file that contains attribute type values data. Mandatory attributes are actions, searchIndexImpl and saveIndexImpl. Optional are resourceComparator.

## ssoadm create-auth-cfg

Create authentication configuration

Usage: `ssoadm create-auth-cfg --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--name, -m**

Name of authentication configuration.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

## ssoadm create-auth-instance

Create authentication module instance

Usage: `ssoadm create-auth-instance --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--authtype, -t**

Type of authentication module instance. Possible values include AD, Adaptive, Anonymous, Cert, DataStore, DeviceIdMatch, DeviceIdSave, Federation, HOTP, HTTPBasic, JDBC, LDAP, Membership, MSISDN, OATH, OAuth, OpenIdConnect, PersistentCookie, RADIUS, SAE, Scripted, WindowsDesktopSSO, NT, and WSSAuthModule.

**--name, -m**

Name of authentication module instance.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

## ssoadm create-cot

Create circle of trust.

Usage: `ssoadm create-cot --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--cot, -t**

Circle of Trust

**--password-file, -f**

File name that contains password of administrator.

**[--prefix, -p]**

Prefix URL for idp discovery reader and writer URL.

**[--realm, -e]**

Realm where circle of trust resides

**[--trustedproviders, -k]**

Trusted Providers

## ssoadm create-datastore

Create data store under a realm

Usage: `ssoadm create-datastore --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--datatype, -t**

Type of datastore. Use the `list-datastore-types` subcommand to get a list of supported datastore types.

**--name, -m**

Name of datastore.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

**[--attributevalues, -a]**

Attribute values e.g. `sunIdRepoClass=com.sun.identity.idm.plugins.files.FilesRepo`.

**[--datafile, -D]**

Name of file that contains attribute values data.

## ssoadm create-identity

Create identity in a realm

Usage: `ssoadm create-identity --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--idname, -i**

Name of identity.

**--idtype, -t**

Type of Identity such as User, Role and Group.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

**[--attributevalues, -a]**

Attribute values e.g. sunIdentityServerDeviceStatus=Active.

**[--datafile, -D]**

Name of file that contains attribute values data.

## ssoadm create-metadata-templ

Create new metadata template.

Usage: `ssoadm create-metadata-templ --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--entityid, -y**

Entity ID

**--password-file, -f**

File name that contains password of administrator.

**[--affiecertalias, -K]**

Affiliation encryption certificate alias

**[--affiliation, -F]**

Specify metaAlias for hosted affiliation. to be created. The format must be <realm name>/<identifier>

**[--affimembers, -M]**

Affiliation members

**[--affiownerid, -N]**

Affiliation Owner ID

**[--affiscertalias, -J]**

Affiliation signing certificate alias

**[--attraecertalias, -G]**

Attribute authority encryption certificate alias.



**[--attrscertalias, -B]**

Attribute authority signing certificate alias

**[--attrauthority, -I]**

Specify metaAlias for hosted attribute authority to be created. The format must be <realm name>/<identifier>.

**[--attrqecertalias, -R]**

Attribute query provider encryption certificate alias

**[--attrqscertalias, -A]**

Attribute query provider signing certificate alias

**[--attrqueryprovider, -S]**

Specify metaAlias for hosted attribute query provider to be created. The format must be <realm name>/<identifier>.

**[--authnaecertalias, -E]**

Authentication authority encryption certificate alias.

**[--authnascertalias, -D]**

Authentication authority signing certificate alias

**[--authnauthority, -C]**

Specify metaAlias for hosted authentication authority to be created. The format must be <realm name>/<identifier>.

**[--extended-data-file, -x]**

Specify file name for the extended metadata to be created. XML will be displayed on terminal if this file name is not provided.

**[--identityprovider, -i]**

Specify metaAlias for hosted identity provider to be created. The format must be <realm name>/<identifier>.

**[--idpecertalias, -g]**

Identity provider encryption certificate alias.

**[--idpscertalias, -b]**

Identity provider signing certificate alias

**[--meta-data-file, -m]**

Specify file name for the standard metadata to be created. XML will be displayed on terminal if this file name is not provided.

**[--serviceprovider, -s]**

Specify metaAlias for hosted service provider to be created. The format must be <realm name>/<identifier>.

**[--specertalias, -r]**

Service provider encryption certificate alias

**[--spec, -c]**

Specify metadata specification, either wsfed, idff or saml2, defaults to saml2

**[--spscertalias, -a]**

Service provider signing certificate alias

**[--xacmlpdecertalias, -j]**

Policy decision point encryption certificate alias

**[--xacmlpdpscertainalias, -t]**

Policy decision point signing certificate alias

**[--xacmlpdp, -p]**

Specify metaAlias for policy decision point to be created. The format must be <realm name>/<identifier>.

**[--xacmlpepecertainalias, -z]**

Policy enforcement point encryption certificate alias

**[--xacmlpepscertainalias, -k]**

Policy enforcement point signing certificate alias

**[--xacmlpep, -e]**

Specify metaAlias for policy enforcement point to be created. The format must be <realm name>/<identifier>.

## ssoadm create-realm

Create realm.

Usage: `ssoadm create-realm --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm to be created.

## ssoadm create-server

Create a server instance.

Usage: `ssoadm create-server --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--serverconfigxml, -X**

Server Configuration XML file name.

**--servername, -s**

Server name, e.g. `http://www.example.com:8080/fam`

**[--attributevalues, -a]**

Attribute values e.g. `homeaddress=here`.

**[--datafile, -D]**

Name of file that contains attribute values data.

## ssoadm create-site

Create a site.

Usage: `ssoadm create-site --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**  
File name that contains password of administrator.

**--sitename, -s**  
Site name, e.g. mysite

**--siteurl, -i**  
Site's primary URL, e.g. http://www.example.com:8080

**[--secondaryurls, -a]**  
Secondary URLs

## ssoadm create-sub-cfg

Create a new sub configuration. Long content for an attribute can be supplied in a file by appending '-file' to the attribute name, and giving the filename as the value.

Usage: `ssoadm create-sub-cfg --options [--global-options]`

### Options

**--adminid, -u**  
Administrator ID of running the command.

**--password-file, -f**  
File name that contains password of administrator.

**--servicename, -s**  
Name of service.

**--subconfigname, -g**  
Sub-schema name of (or path to) the type of sub-configuration being added.

**[--attributevalues, -a]**  
Attribute values e.g. homeaddress=here.

**[--datafile, -D]**  
Name of file that contains attribute values data.

**[--priority, -p]**  
Priority of the sub configuration.

**[--realm, -e]**  
Name of realm (Sub Configuration shall be added to global configuration if this option is not provided).

**[--subconfigid, -b]**

User-specifield ID of (or path to) the sub-configuration.

## ssoadm create-svc

Create a new service in server.

Usage: `ssoadm create-svc --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--xmlfile, -X**

XML file(s) that contains schema.

**[--continue, -c]**

Continue adding service if one or more previous service cannot be added.

## ssoadm create-svrcfg-xml

Create serverconfig.xml file. No options are required for flat file configuration data store.

Usage: `ssoadm create-svrcfg-xml --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**[--basedn, -b]**

Directory Server base distinguished name.

**[--dsadmin, -a]**

Directory Server administrator distinguished name

**[--dshost, -t]**

Directory Server host name

**[--dspassword-file, -x]**

File that contains Directory Server administrator password

**[--dsport, -p]**

Directory Server port number

**[--outfile, -o]**

File name where serverconfig XML is written.

## ssoadm create-xacml

Create policies in a realm with XACML input.

Usage: `ssoadm create-xacml --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

**--xmlfile, -X**

File that contains the policy XACML definition. In the console, paste the XML into the text field instead.

**[--dryrun, -n]**

Provide a summary of the policies which would be updated, and those which would be added, as a result of the create-xacml command without the 'dryrun' option specified. Nothing will be updated or added when using this option.

**[--outfile, -o]**

Filename where the output of a 'dryrun' command will be sent to. If no 'dryrun' command is specified, the outfile will not be used for anything.

## ssoadm delete-agent-grps

Delete agent groups.

Usage: `ssoadm delete-agent-grps --options [--global-options]`

## Options

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

**[--agentgroupnames, -s]**

Separate multiple agent group names with spaces.

**[--file, -D]**

File containing agent group names, with multiple group names separated by spaces.

## ssoadm delete-agents

Delete agent configurations.

Usage: `ssoadm delete-agents --options [--global-options]`

## Options

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

**[--agentnames, -s]**

Separate multiple agent names with spaces.

**[--file, -D]**

File containing agent names, with multiple agent names separated by spaces.

## ssoadm delete-appl-types

Delete application types.

Usage: `ssoadm delete-appl-types --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--names, -m**

Application Type names

**--password-file, -f**

File name that contains password of administrator.

## **ssoadm delete-appls**

Delete policy sets. Note that policy sets are cached for 30 minutes. Restart OpenAM to apply changes immediately.

Usage: `ssoadm delete-appls --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--names, -m**

Policy set names

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Realm name

## **ssoadm delete-attr**

Delete attribute schemas from a service

Usage: `ssoadm delete-attr --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.



**--attributeschema, -a**  
Name of attribute schema to be removed.

**--password-file, -f**  
File name that contains password of administrator.

**--schematype, -t**  
Type of schema.

**--servicename, -s**  
Name of service.

**[--subschema, -c]**  
Name of sub schema.

## ssoadm delete-attr-def-values

Delete attribute schema default values.

Usage: `ssoadm delete-attr-def-values --options [--global-options]`

### *Options*

**--adminid, -u**  
Administrator ID of running the command.

**--attributeschema, -a**  
Name of attribute schema

**--defaultvalues, -e**  
Default value(s) to be deleted

**--password-file, -f**  
File name that contains password of administrator.

**--schematype, -t**  
Type of schema.

**--servicename, -s**  
Name of service.

**[--subschema, -c]**  
Name of sub schema.

## ssoadm delete-auth-cfgs

Delete authentication configurations

Usage: `ssoadm delete-auth-cfgs --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--names, -m**

Name of authentication configurations.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

## ssoadm delete-auth-instances

Delete authentication instances

Usage: `ssoadm delete-auth-instances --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--names, -m**

Name of authentication instances.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

## ssoadm delete-cot

Delete circle of trust.

Usage: `ssoadm delete-cot --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--cot, -t**

Circle of Trust

**--password-file, -f**

File name that contains password of administrator.

**[--realm, -e]**

Realm where circle of trust resides

## ssoadm delete-datastores

Delete data stores under a realm

Usage: `ssoadm delete-datastores --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--names, -m**

Names of datastore.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

## ssoadm delete-entity

Delete entity.

Usage: `ssoadm delete-entity --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--entityid, -y**  
Entity ID

**--password-file, -f**  
File name that contains password of administrator.

**[--extendedonly, -x]**  
Set to flag to delete only extended data.

**[--realm, -e]**  
Realm where data resides

**[--spec, -c]**  
Specify metadata specification, either wsfed, idff or saml2, defaults to saml2

## ssoadm delete-identities

Delete identities in a realm

Usage: `ssoadm delete-identities --options [--global-options]`

### Options

**--adminid, -u**  
Administrator ID of running the command.

**--idtype, -t**  
Type of Identity such as User, Role and Group.

**--password-file, -f**  
File name that contains password of administrator.

**--realm, -e**  
Name of realm.

**[--file, -D]**  
Name of file that contains the identity names to be deleted.

**[--idnames, -i]**  
Names of identities.

## ssoadm delete-realm

Delete realm.

Usage: `ssoadm delete-realm --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm to be deleted.

**[--recursive, -r]**

Delete descendent realms recursively.

## ssoadm delete-realm-attr

Delete attribute from a realm.

Usage: `ssoadm delete-realm-attr --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--attributename, -a**

Name of attribute to be removed.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

**--servicename, -s**

Name of service.

## ssoadm delete-server

Delete a server instance.

Usage: `ssoadm delete-server --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--servername, -s**

Server name, e.g. `http://www.example.com:8080/fam`

## **ssoadm delete-site**

Delete a site.

Usage: `ssoadm delete-site --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--sitename, -s**

Site name, e.g. `mysite`

## **ssoadm delete-sub-cfg**

Remove Sub Configuration.

Usage: `ssoadm delete-sub-cfg --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--servicename, -s**

Name of service.

**--subconfigname, -g**

Name of sub configuration.

**[--realm, -e]**

Name of realm (Sub Configuration shall be deleted from the global configuration if this option is not provided).

## ssoadm delete-svc

Delete service from the server.

Usage: `ssoadm delete-svc --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--servicename, -s**

Service Name(s).

**[--continue, -c]**

Continue deleting service if one or more previous services cannot be deleted.

**[--deletepolicyrule, -r]**

Delete policy rule.

## ssoadm delete-xacml

Delete XACML policies from a realm.

Usage: `ssoadm delete-xacml --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

**[--file, -D]**

Name of file that contains the policy names to be deleted.

**[--policynames, -p]**

Names of policy to be deleted.

## ssoadm do-batch

Do multiple requests in one command.

Usage: `ssoadm do-batch --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--batchfile, -Z**

Name of file that contains commands and options.

**--password-file, -f**

File name that contains password of administrator.

**[--batchstatus, -b]**

Name of status file.

**[--continue, -c]**

Continue processing the rest of the request when preceeding request was erroneous.

## ssoadm do-bulk-federation

Perform bulk federation.

Usage: `ssoadm do-bulk-federation --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--metaalias, -m**

Specify metaAlias for local provider.



**--nameidmapping, -e**

Name of file that will be created by this sub command. It contains remote user Id to name identifier. It shall be used by remote provider to update user profile.

**--password-file, -f**

File name that contains password of administrator.

**--remoteentityid, -r**

Remote entity Id

**--useridmapping, -g**

File name of local to remote user Id mapping. Format <local-user-id>|<remote-user-id>

**[--spec, -c]**

Specify metadata specification, either idff or saml2, defaults to saml2

## ssoadm do-migration70

Migrate organization to realm.

Usage: `ssoadm do-migration70 --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--entrydn, -e**

Distinguished name of organization to be migrated.

**--password-file, -f**

File name that contains password of administrator.

## ssoadm embedded-status

Status of embedded store.

Usage: `ssoadm embedded-status --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--port, -p**

Embedded store port

**[--password, -w]**

Embedded store password

## ssoadm export-entity

Export entity.

Usage: `ssoadm export-entity --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--entityid, -y**

Entity ID

**--password-file, -f**

File name that contains password of administrator.

**[--extended-data-file, -x]**

Extended data

**[--meta-data-file, -m]**

Metadata

**[--realm, -e]**

Realm where data resides

**[--sign, -g]**

Set this flag to sign the metadata

**[--spec, -c]**

Specify metadata specification, either wsfed, idff or saml2, defaults to saml2

## ssoadm export-server

Export a server instance.

Usage: `ssoadm export-server --options [--global-options]`

### *Options*

`--adminid, -u`

Administrator ID of running the command.

`--password-file, -f`

File name that contains password of administrator.

`--servername, -s`

Server name

`[--outfile, -o]`

Filename where configuration was written.

## `ssoadm export-svc-cfg`

Export service configuration. In production environments, you should back up the service configuration using file system utilities or the `export-ldif` command. Note that `export-ldif/import-ldif` commands must be on the same deployment where the encryption keys are located.

Usage: `ssoadm export-svc-cfg --options [--global-options]`

### *Options*

`--adminid, -u`

Administrator ID of running the command.

`--encryptsecret, -e`

Secret key for encrypting password. Any arbitrary value can be specified.

`--password-file, -f`

File name that contains password of administrator.

`[--outfile, -o]`

Filename where configuration was written.

## `ssoadm get-attr-choicevals`

Get choice values of attribute schema.

Usage: `ssoadm get-attr-choicevals --options [--global-options]`

## Options

- adminid, -u**  
Administrator ID of running the command.
- attributename, -a**  
Name of attribute.
- password-file, -f**  
File name that contains password of administrator.
- schematype, -t**  
Type of schema.
- servicename, -s**  
Name of service.
- [--subscemaname, -c]**  
Name of sub schema.

## ssoadm get-attr-defs

Get default attribute values in schema.

Usage: `ssoadm get-attr-defs --options [--global-options]`

## Options

- adminid, -u**  
Administrator ID of running the command.
- password-file, -f**  
File name that contains password of administrator.
- schematype, -t**  
Type of schema. One of dynamic, global, or organization (meaning realm).
- servicename, -s**  
Name of service.
- [--attributenames, -a]**  
Attribute name(s).

`[--subschemaName, -c]`

Name of sub schema.

## `ssoadm get-auth-cfg-entr`

Get authentication configuration entries

Usage: `ssoadm get-auth-cfg-entr --options [--global-options]`

### *Options*

`--adminid, -u`

Administrator ID of running the command.

`--name, -m`

Name of authentication configuration.

`--password-file, -f`

File name that contains password of administrator.

`--realm, -e`

Name of realm.

## `ssoadm get-auth-instance`

Get authentication instance values

Usage: `ssoadm get-auth-instance --options [--global-options]`

### *Options*

`--adminid, -u`

Administrator ID of running the command.

`--name, -m`

Name of authentication instance.

`--password-file, -f`

File name that contains password of administrator.

`--realm, -e`

Name of realm.

## ssoadm get-identity

Get identity property values

Usage: `ssoadm get-identity --options [--global-options]`

### Options

`--adminid, -u`

Administrator ID of running the command.

`--idname, -i`

Name of identity.

`--idtype, -t`

Type of Identity such as User, Role and Group.

`--password-file, -f`

File name that contains password of administrator.

`--realm, -e`

Name of realm.

`[--attributenames, -a]`

Attribute name(s). All attribute values shall be returned if the option is not provided.

## ssoadm get-identity-svcs

Get the service in an identity

Usage: `ssoadm get-identity-svcs --options [--global-options]`

### Options

`--adminid, -u`

Administrator ID of running the command.

`--idname, -i`

Name of identity.

`--idtype, -t`

Type of Identity such as User, Role and Group.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

## ssoadm get-realm

Get realm property values.

Usage: `ssoadm get-realm --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

**--servicename, -s**

Name of service.

## ssoadm get-realm-svc-attrs

Get realm's service attribute values.

Usage: `ssoadm get-realm-svc-attrs --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

**--servicename, -s**

Name of service.

## ssoadm get-recording-status

Get the status of recording operations.

Usage: `ssoadm get-recording-status --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--servername, -s**

Server name, e.g. `http://openam.example.com:8080/openam`

## ssoadm get-revision-number

Get service schema revision number.

Usage: `ssoadm get-revision-number --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--servicename, -s**

Name of service.

## ssoadm get-sub-cfg

Get sub configuration.

Usage: `ssoadm get-sub-cfg --options [--global-options]`



## Options

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--servicename, -s**

Name of service.

**--subconfigname, -g**

Name of sub configuration.

**[--realm, -e]**

Name of realm (Sub Configuration shall be retrieved from the global configuration if this option is not provided).

## ssoadm get-svrcfg-xml

Get server configuration XML from centralized data store

Usage: `ssoadm get-svrcfg-xml --options [--global-options]`

## Options

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--servername, -s**

Server name, e.g. `http://www.example.com:8080/fam`

**[--outfile, -o]**

File name where serverconfig XML is written.

## ssoadm import-bulk-fed-data

Import bulk federation data which is generated by 'do-bulk-federation' sub command.

Usage: `ssoadm import-bulk-fed-data --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--bulk-data-file, -g**

File name of bulk federation data which is generated by 'do-bulk-federation' sub command.

**--metaalias, -m**

Specify metaAlias for local provider.

**--password-file, -f**

File name that contains password of administrator.

**[--spec, -c]**

Specify metadata specification, either idff or saml2, defaults to saml2

## ssoadm import-entity

Import entity.

Usage: `ssoadm import-entity --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**[--cot, -t]**

Specify name of the Circle of Trust this entity belongs.

**[--extended-data-file, -x]**

Specify file name for the extended entity configuration to be imported.<web>Extended entity configuration to be imported.

**[--meta-data-file, -m]**

Specify file name for the standard metadata to be imported.<web>Standard metadata to be imported.

**[--realm, -e]**

Realm where entity resides.

**[--spec, -c]**

Specify metadata specification, either wsfed, idff or saml2, defaults to saml2

## ssoadm import-server

Import a server instance.

Usage: `ssoadm import-server --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--servername, -s**

Server name

**--xmlfile, -X**

XML file that contains configuration.

## ssoadm import-svc-cfg

Import service configuration. In production environments, you should restore the service configuration using file system utilities or the import-ldif command. Note that import-ldif/export-ldif commands must be on the same deployment where the encryption keys are located.

Usage: `ssoadm import-svc-cfg --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--encryptsecret, -e**

Secret key for decrypting password.

**--password-file, -f**

File name that contains password of administrator.

**--xmlfile, -X**

XML file that contains configuration data.

## ssoadm list-agent-grp-members

List agents in agent group.

Usage: `ssoadm list-agent-grp-members --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--agentgroupname, -b**

Name of agent group.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

**[--filter, -x]**

Filter (Pattern).

## ssoadm list-agent-grps

List agent groups.

Usage: `ssoadm list-agent-grps --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

**[--agenttype, -t]**

Type of agent. e.g. J2EEAgent, WebAgent

**[--filter, -x]**

Filter (Pattern).

## ssoadm list-agents

List agent configurations.

Usage: `ssoadm list-agents --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

**[--agenttype, -t]**

Type of agent. e.g. J2EEAgent, WebAgent

**[--filter, -x]**

Filter (Pattern).

## ssoadm list-app-privs

List policy set privileges in a realm.

Usage: `ssoadm list-app-privs --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Realm name

## ssoadm list-appl-types

List application types.

Usage: `ssoadm list-appl-types --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

## ssoadm list-appls

List policy set in a realm.

Usage: `ssoadm list-appls --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Realm name

## ssoadm list-auth-cfgs

List authentication configurations

Usage: `ssoadm list-auth-cfgs --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

## ssoadm list-auth-instances

List authentication instances

Usage: `ssoadm list-auth-instances --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

## ssoadm list-cot-members

List the members in a circle of trust.

Usage: `ssoadm list-cot-members --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--cot, -t**

Circle of Trust

**--password-file, -f**

File name that contains password of administrator.

**[--realm, -e]**

Realm where circle of trust resides

`[--spec, -c]`

Specify metadata specification, either wsfed, idff or saml2, defaults to saml2

## ssoadm list-cots

List circles of trust.

Usage: `ssoadm list-cots --options [--global-options]`

### *Options*

`--adminid, -u`

Administrator ID of running the command.

`--password-file, -f`

File name that contains password of administrator.

`[--realm, -e]`

Realm where circle of trusts reside

## ssoadm list-datastore-types

List the supported data store types

Usage: `ssoadm list-datastore-types --options [--global-options]`

### *Options*

`--adminid, -u`

Administrator ID of running the command.

`--password-file, -f`

File name that contains password of administrator.

## ssoadm list-datastores

List data stores under a realm

Usage: `ssoadm list-datastores --options [--global-options]`

### *Options*

`--adminid, -u`

Administrator ID of running the command.



**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

## ssoadm list-entities

List entities under a realm.

Usage: `ssoadm list-entities --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**[--realm, -e]**

Realm where entities reside.

**[--spec, -c]**

Specify metadata specification, either wsfed, idff or saml2, defaults to saml2

## ssoadm list-identities

List identities in a realm

Usage: `ssoadm list-identities --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--filter, -x**

Filter (Pattern).

**--idtype, -t**

Type of Identity such as User, Role and Group.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

## ssoadm list-identity-assignable-svcs

List the assignable service to an identity

Usage: `ssoadm list-identity-assignable-svcs --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--idname, -i**

Name of identity.

**--idtype, -t**

Type of Identity such as User, Role and Group.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

## ssoadm list-realm-assignable-svcs

List the assignable services to a realm.

Usage: `ssoadm list-realm-assignable-svcs --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

## ssoadm list-realms

List realms by name.

Usage: `ssoadm list-realms --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm where search begins.

**[--filter, -x]**

Filter (Pattern).

**[--recursive, -r]**

Search recursively

## ssoadm list-res-bundle

List resource bundle in data store.

Usage: `ssoadm list-res-bundle --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--bundlename, -b**

Resource Bundle Name.

**--password-file, -f**

File name that contains password of administrator.

**[--bundlelocale, -o]**

Locale of the resource bundle.

## ssoadm list-server-cfg

List server configuration.

Usage: `ssoadm list-server-cfg --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--servername, -s**

Server name, e.g. `http://www.example.com:8080/fam` or enter default to list default server configuration.

**[--withdefaults, -w]**

Set this flag to get default configuration.

## ssoadm list-servers

List all server instances.

Usage: `ssoadm list-servers --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

## ssoadm list-sessions

List stateful sessions.

Usage: `ssoadm list-sessions --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--host, -t**

Host Name.

**--password-file, -f**

File name that contains password of administrator.

**[--filter, -x]**

Filter (Pattern).

**[--quiet, -q]**

Do not prompt for session invalidation.

## **ssoadm list-sites**

List all sites.

Usage: `ssoadm list-sites --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

## **ssoadm list-xacml**

Export policies in realm as XACML.

Usage: `ssoadm list-xacml --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

**[--namesonly, -n]**

Returns only names of matching policies. Policies are not returned.

**[--outfile, -o]**

Filename where policy definition will be printed to. Definition will be printed in standard output if this option is not provided.

**[--policynames, -p]**

Names of policy. This can be a wildcard. All policy definition in the realm will be returned if this option is not provided.

## ssoadm policy-export

Export policy configuration for a given realm

Usage: `ssoadm policy-export --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--jsonfile, -J**

JSON file for which to write the policy model to.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Realm name

**--servername, -s**

Server name, e.g. `http://openam.example.com:8080/openam`

## ssoadm policy-import

Import policy model into a given realm

Usage: `ssoadm policy-import --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--jsonfile, -J**

JSON file containing the policy model to be imported.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Realm name

**--servername, -s**

Server name, e.g. `http://openam.example.com:8080/openam`

## ssoadm register-auth-module

Registers authentication module.

Usage: `ssoadm register-auth-module --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--authmodule, -a**

Java class name of authentication module.

**--password-file, -f**

File name that contains password of administrator.

## ssoadm remove-agent-from-grp

Remove agents from a agent group.

Usage: `ssoadm remove-agent-from-grp --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--agentgroupname, -b**  
Name of agent group.

**--agentnames, -s**  
Names of agents.

**--password-file, -f**  
File name that contains password of administrator.

**--realm, -e**  
Name of realm.

## ssoadm remove-app-priv-resources

Remove policy set privilege resources. Note that policy sets are cached for 30 minutes. Restart OpenAM to apply changes immediately.

Usage: `ssoadm remove-app-priv-resources --options [--global-options]`

### Options

**--adminid, -u**  
Administrator ID of running the command.

**--application, -t**  
Policy set name

**--name, -m**  
Name for the this delegation

**--password-file, -f**  
File name that contains password of administrator.

**--realm, -e**  
Realm name

**[--resources, -r]**  
Resources to removed, All resources in the policy set will be removed if this option is absent.

## ssoadm remove-app-priv-subjects

Remove policy set privilege subjects.

Usage: `ssoadm remove-app-priv-subjects --options [--global-options]`



## Options

**--adminid, -u**

Administrator ID of running the command.

**--name, -m**

Name for the this delegation

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Realm name

**--subjects, -s**

Subject name

**--subjecttype, -b**

Possible values are User or Group

## ssoadm remove-app-privs

Remove policy set privileges.

Usage: `ssoadm remove-app-privs --options [--global-options]`

## Options

**--adminid, -u**

Administrator ID of running the command.

**--names, -m**

Names of policy set privileges to be removed

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Realm name

## ssoadm remove-attr-choicevals

Remove choice values from attribute schema.

Usage: `ssoadm remove-attr-choicevals --options [--global-options]`

### *Options*

- adminid, -u**  
Administrator ID of running the command.
- attributename, -a**  
Name of attribute.
- choicevalues, -k**  
Choice values e.g. Inactive
- password-file, -f**  
File name that contains password of administrator.
- schematype, -t**  
Type of schema.
- servicename, -s**  
Name of service.
- [--subschema, -c]**  
Name of sub schema.

## ssoadm remove-attr-defs

Remove default attribute values in schema.

Usage: `ssoadm remove-attr-defs --options [--global-options]`

### *Options*

- adminid, -u**  
Administrator ID of running the command.
- attributenames, -a**  
Attribute name(s).
- password-file, -f**  
File name that contains password of administrator.
- schematype, -t**  
Type of schema.

**--servicename, -s**  
Name of service.

**[--subschema, -c]**  
Name of sub schema.

## ssoadm remove-cot-member

Remove a member from a circle of trust.

Usage: `ssoadm remove-cot-member --options [--global-options]`

### Options

**--adminid, -u**  
Administrator ID of running the command.

**--cot, -t**  
Circle of Trust

**--entityid, -y**  
Entity ID

**--password-file, -f**  
File name that contains password of administrator.

**[--realm, -e]**  
Realm where circle of trust resides

**[--spec, -c]**  
Specify metadata specification, either wsfed, idff or saml2, defaults to saml2

## ssoadm remove-member

Remove membership of identity from another identity

Usage: `ssoadm remove-member --options [--global-options]`

### Options

**--adminid, -u**  
Administrator ID of running the command.

**--idname, -i**  
Name of identity.

**--idtype, -t**  
Type of Identity

**--memberidname, -m**  
Name of identity that is member.

**--memberidtype, -y**  
Type of Identity of member such as User, Role and Group.

**--password-file, -f**  
File name that contains password of administrator.

**--realm, -e**  
Name of realm.

## ssoadm remove-plugin-schema

Add Plug-in interface to service.

Usage: `ssoadm remove-plugin-schema --options [--global-options]`

### *Options*

**--adminid, -u**  
Administrator ID of running the command.

**--interfacename, -i**  
Name of interface.

**--password-file, -f**  
File name that contains password of administrator.

**--pluginname, -g**  
Name of Plug-in.

**--servicename, -s**  
Name of service.

## ssoadm remove-privileges

Remove privileges from an identity

Usage: `ssoadm remove-privileges --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--idname, -i**

Name of identity.

**--idtype, -t**

Type of Identity such as Role and Group.

**--password-file, -f**

File name that contains password of administrator.

**--privileges, -g**

Name of privileges to be removed. Privilege names are AgentAdmin, ApplicationModifyAccess, ApplicationReadAccess, ApplicationTypesReadAccess, ConditionTypesReadAccess, DecisionCombinersReadAccess, EntitlementRestAccess, FederationAdmin, LogAdmin, LogRead, LogWrite, PolicyAdmin, PrivilegeRestAccess, PrivilegeRestReadAccess, RealmAdmin, RealmReadAccess, ResourceTypeModifyAccess, ResourceTypeReadAccess, SubjectAttributesReadAccess, and SubjectTypesReadAccess.

**--realm, -e**

Name of realm.

## ssoadm remove-res-bundle

Remove resource bundle from data store.

Usage: `ssoadm remove-res-bundle --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--bundlename, -b**

Resource Bundle Name.

**--password-file, -f**

File name that contains password of administrator.

`[--bundlelocale, -o]`

Locale of the resource bundle.

## ssoadm remove-server-cfg

Remove server configuration.

Usage: `ssoadm remove-server-cfg --options [--global-options]`

### Options

`--adminid, -u`

Administrator ID of running the command.

`--password-file, -f`

File name that contains password of administrator.

`--propertynames, -a`

Name of properties to be removed.

`--servername, -s`

Server name, e.g. `http://www.example.com:8080/fam` or enter default to remove default server configuration.

## ssoadm remove-site-members

Remove members from a site.

Usage: `ssoadm remove-site-members --options [--global-options]`

### Options

`--adminid, -u`

Administrator ID of running the command.

`--password-file, -f`

File name that contains password of administrator.

`--servernames, -e`

Server names, e.g. `http://www.example.com:8080/fam`

`--sitename, -s`

Site name, e.g. `mysite`

## ssoadm remove-site-sec-urls

Remove Site Secondary URLs.

Usage: `ssoadm remove-site-sec-urls --options [--global-options]`

### *Options*

- adminid, -u**  
Administrator ID of running the command.
- password-file, -f**  
File name that contains password of administrator.
- secondaryurls, -a**  
Secondary URLs
- sitename, -s**  
Site name, e.g. mysite

## ssoadm remove-sub-schema

Remove sub schema.

Usage: `ssoadm remove-sub-schema --options [--global-options]`

### *Options*

- adminid, -u**  
Administrator ID of running the command.
- password-file, -f**  
File name that contains password of administrator.
- schematype, -t**  
Type of schema.
- servicename, -s**  
Name of service.
- subschemanames, -a**  
Name(s) of sub schema to be removed.
- [--subschemaname, -c]**  
Name of parent sub schema.

## ssoadm remove-svc-attrs

Remove service attribute values in a realm.

Usage: `ssoadm remove-svc-attrs --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

**--servicename, -s**

Name of service.

**[--attributevalues, -a]**

Attribute values to be removed e.g. homeaddress=here.

**[--datafile, -D]**

Name of file that contains attribute values to be removed.

## ssoadm remove-svc-identity

Remove Service from an identity

Usage: `ssoadm remove-svc-identity --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--idname, -i**

Name of identity.

**--idtype, -t**

Type of Identity such as User, Role and Group.

**--password-file, -f**

File name that contains password of administrator.



**--realm, -e**  
Name of realm.

**--servicename, -s**  
Name of service.

## ssoadm remove-svc-realm

Remove service from a realm.

Usage: `ssoadm remove-svc-realm --options [--global-options]`

### *Options*

**--adminid, -u**  
Administrator ID of running the command.

**--password-file, -f**  
File name that contains password of administrator.

**--realm, -e**  
Name of realm.

**--servicename, -s**  
Name of service to be removed.

## ssoadm set-appl

Set policy set attributes. Note that policy sets are cached for 30 minutes. Restart OpenAM to apply changes immediately.

Usage: `ssoadm set-appl --options [--global-options]`

### *Options*

**--adminid, -u**  
Administrator ID of running the command.

**--name, -m**  
Policy set name

**--password-file, -f**  
File name that contains password of administrator.

**--realm, -e**

Realm name

**[--attributevalues, -a]**

Attribute values e.g. applicationType=iPlanetAMWebAgentService.

**[--datafile, -D]**

Name of file that contains attribute values data. Possible attributes are resources, subjects, conditions, actions, searchIndexImpl, saveIndexImpl, resourceComparator, subjectAttributeNames and entitlementCombiner.

## ssoadm set-attr-any

Set any member of attribute schema.

Usage: `ssoadm set-attr-any --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--any, -y**

Attribute Schema Any value

**--attributeschema, -a**

Name of attribute schema

**--password-file, -f**

File name that contains password of administrator.

**--schematype, -t**

Type of schema.

**--servicename, -s**

Name of service.

**[--subschemaname, -c]**

Name of sub schema.

## ssoadm set-attr-bool-values

Set boolean values of attribute schema.

Usage: `ssoadm set-attr-bool-values --options [--global-options]`

### Options

- adminid, -u**  
Administrator ID of running the command.
- attributename, -a**  
Name of attribute.
- falsei18nkey, -j**  
Internationalization key for false value.
- falsevalue, -z**  
Value for false.
- password-file, -f**  
File name that contains password of administrator.
- schematype, -t**  
Type of schema.
- servicename, -s**  
Name of service.
- truei18nkey, -k**  
Internationalization key for true value.
- truevalue, -e**  
Value for true.
- [--subschemaName, -c]**  
Name of sub schema.

### ssoadm set-attr-choicevals

Set choice values of attribute schema.

Usage: `ssoadm set-attr-choicevals --options [--global-options]`

### Options

- adminid, -u**  
Administrator ID of running the command.

**--attributename, -a**  
Name of attribute.

**--password-file, -f**  
File name that contains password of administrator.

**--schematype, -t**  
Type of schema.

**--servicename, -s**  
Name of service.

**[--add, -p]**  
Set this flag to append the choice values to existing ones.

**[--choicevalues, -k]**  
Choice value e.g. o102=Inactive.

**[--datafile, -D]**  
Name of file that contains attribute values data.

**[--subschemaName, -c]**  
Name of sub schema.

## ssoadm set-attr-defs

Set default attribute values in schema.

Usage: `ssoadm set-attr-defs --options [--global-options]`

### Options

**--adminid, -u**  
Administrator ID of running the command.

**--password-file, -f**  
File name that contains password of administrator.

**--schematype, -t**  
Type of schema.

**--servicename, -s**  
Name of service.

**[--attributevalues, -a]**

Attribute values e.g. homeaddress=here.

**[--datafile, -D]**

Name of file that contains attribute values data.

**[--subschemaname, -c]**

Name of sub schema.

## ssoadm set-attr-end-range

Set attribute schema end range.

Usage: `ssoadm set-attr-end-range --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--attributeschema, -a**

Name of attribute schema

**--password-file, -f**

File name that contains password of administrator.

**--range, -r**

End range

**--schematype, -t**

Type of schema.

**--servicename, -s**

Name of service.

**[--subschemaname, -c]**

Name of sub schema.

## ssoadm set-attr-i18n-key

Set i18nKey member of attribute schema.

Usage: `ssoadm set-attr-i18n-key --options [--global-options]`

## Options

- adminid, -u**  
Administrator ID of running the command.
- attributeschema, -a**  
Name of attribute schema
- i18nkey, -k**  
Attribute Schema I18n Key
- password-file, -f**  
File name that contains password of administrator.
- schematype, -t**  
Type of schema.
- servicename, -s**  
Name of service.
- [--subschemaName, -c]**  
Name of sub schema.

## ssoadm set-attr-start-range

Set attribute schema start range.

Usage: `ssoadm set-attr-start-range --options [--global-options]`

## Options

- adminid, -u**  
Administrator ID of running the command.
- attributeschema, -a**  
Name of attribute schema
- password-file, -f**  
File name that contains password of administrator.
- range, -r**  
Start range

**--schematype, -t**  
Type of schema.

**--servicename, -s**  
Name of service.

**[--subschemaName, -c]**  
Name of sub schema.

## ssoadm set-attr-syntax

Set syntax member of attribute schema.

Usage: `ssoadm set-attr-syntax --options [--global-options]`

### *Options*

**--adminid, -u**  
Administrator ID of running the command.

**--attributeschema, -a**  
Name of attribute schema

**--password-file, -f**  
File name that contains password of administrator.

**--schematype, -t**  
Type of schema.

**--servicename, -s**  
Name of service.

**--syntax, -x**  
Attribute Schema Syntax

**[--subschemaName, -c]**  
Name of sub schema.

## ssoadm set-attr-type

Set type member of attribute schema.

Usage: `ssoadm set-attr-type --options [--global-options]`

## Options

- adminid, -u**  
Administrator ID of running the command.
- attributeschema, -a**  
Name of attribute schema
- password-file, -f**  
File name that contains password of administrator.
- schematype, -t**  
Type of schema.
- servicename, -s**  
Name of service.
- type, -p**  
Attribute Schema Type
- [--subschema, -c]**  
Name of sub schema.

## ssoadm set-attr-ui-type

Set UI type member of attribute schema.

Usage: `ssoadm set-attr-ui-type --options [--global-options]`

## Options

- adminid, -u**  
Administrator ID of running the command.
- attributeschema, -a**  
Name of attribute schema
- password-file, -f**  
File name that contains password of administrator.
- schematype, -t**  
Type of schema.



**--servicename, -s**  
Name of service.

**--uitype, -p**  
Attribute Schema UI Type

**[--subschemaName, -c]**  
Name of sub schema.

## ssoadm set-attr-validator

Set attribute schema validator.

Usage: `ssoadm set-attr-validator --options [--global-options]`

### *Options*

**--adminid, -u**  
Administrator ID of running the command.

**--attributeschema, -a**  
Name of attribute schema

**--password-file, -f**  
File name that contains password of administrator.

**--schematype, -t**  
Type of schema.

**--servicename, -s**  
Name of service.

**--validator, -r**  
validator class name

**[--subschemaName, -c]**  
Name of sub schema.

## ssoadm set-attr-view-bean-url

Set properties view bean URL member of attribute schema.

Usage: `ssoadm set-attr-view-bean-url --options [--global-options]`

## Options

- adminid, -u**  
Administrator ID of running the command.
- attributeschema, -a**  
Name of attribute schema
- password-file, -f**  
File name that contains password of administrator.
- schematype, -t**  
Type of schema.
- servicename, -s**  
Name of service.
- url, -r**  
Attribute Schema Properties View Bean URL
- [--subschema, -c]**  
Name of sub schema.

## ssoadm set-entitlement-conf

Set entitlements service configuration

Usage: `ssoadm set-entitlement-conf --options [--global-options]`

## Options

- adminid, -u**  
Administrator ID of running the command.
- password-file, -f**  
File name that contains password of administrator.
- [--attributevalues, -a]**  
Attribute values e.g. evalThreadSize=4.
- [--datafile, -D]**  
Name of file that contains attribute values data. Possible attributes are evalThreadSize, searchThreadSize, policyCacheSize and indexCacheSize.

## ssoadm set-identity-attrs

Set attribute values of an identity

Usage: `ssoadm set-identity-attrs --options [--global-options]`

### Options

`--adminid, -u`

Administrator ID of running the command.

`--idname, -i`

Name of identity.

`--idtype, -t`

Type of Identity such as User, Role and Group.

`--password-file, -f`

File name that contains password of administrator.

`--realm, -e`

Name of realm.

`[--attributevalues, -a]`

Attribute values e.g. homeaddress=here.

`[--datafile, -D]`

Name of file that contains attribute values data.

## ssoadm set-identity-svc-attrs

Set service attribute values of an identity

Usage: `ssoadm set-identity-svc-attrs --options [--global-options]`

### Options

`--adminid, -u`

Administrator ID of running the command.

`--idname, -i`

Name of identity.

**--idtype, -t**

Type of Identity such as User, Role and Group.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

**--servicename, -s**

Name of service.

**[--attributevalues, -a]**

Attribute values e.g. homeaddress=here.

**[--datafile, -D]**

Name of file that contains attribute values data.

## ssoadm set-inheritance

Set Inheritance value of Sub Schema.

Usage: `ssoadm set-inheritance --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--inheritance, -r**

Value of Inheritance.

**--password-file, -f**

File name that contains password of administrator.

**--schematype, -t**

Type of schema.

**--servicename, -s**

Name of service.

**--subschemaname, -c**

Name of sub schema.

## ssoadm set-plugin-viewbean-url

Set properties view bean URL of plug-in schema.

Usage: `ssoadm set-plugin-viewbean-url --options [--global-options]`

### Options

- `--adminid, -u`  
Administrator ID of running the command.
- `--interfacename, -i`  
Name of interface.
- `--password-file, -f`  
File name that contains password of administrator.
- `--pluginname, -g`  
Name of Plug-in.
- `--servicename, -s`  
Name of service.
- `--url, -r`  
Properties view bean URL.

## ssoadm set-realm-attrs

Set attribute values of a realm.

Usage: `ssoadm set-realm-attrs --options [--global-options]`

### Options

- `--adminid, -u`  
Administrator ID of running the command.
- `--password-file, -f`  
File name that contains password of administrator.
- `--realm, -e`  
Name of realm.
- `--servicename, -s`  
Name of service.

**[--append, -p]**

Set this flag to append the values to existing ones.

**[--attributevalues, -a]**

Attribute values e.g. homeaddress=here.

**[--datafile, -D]**

Name of file that contains attribute values data.

## ssoadm set-realm-svc-attrs

Set attribute values of a service that is assigned to a realm. Long content for an attribute can be supplied in a file by appending '-file' to the attribute name, and giving the filename as the value.

Usage: `ssoadm set-realm-svc-attrs --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

**--servicename, -s**

Name of service.

**[--append, -p]**

Set this flag to append the values to existing ones.

**[--attributevalues, -a]**

Attribute values e.g. homeaddress=here.

**[--datafile, -D]**

Name of file that contains attribute values data.

## ssoadm set-revision-number

Set service schema revision number.

Usage: `ssoadm set-revision-number --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--revisionnumber, -r**

Revision Number

**--servicename, -s**

Name of service.

## **ssoadm set-site-id**

Set the ID of a site.

Usage: `ssoadm set-site-id --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--siteid, -i**

Site's ID, e.g. 10

**--sitename, -s**

Site name, e.g. mysite

## **ssoadm set-site-pri-url**

Set the primary URL of a site.

Usage: `ssoadm set-site-pri-url --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--sitename, -s**

Site name, e.g. mysite

**--siteurl, -i**

Site's primary URL, e.g. http://site.www.example.com:8080

## ssoadm set-site-sec-urls

Set Site Secondary URLs.

Usage: `ssoadm set-site-sec-urls --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--secondaryurls, -a**

Secondary URLs

**--sitename, -s**

Site name, e.g. mysite

## ssoadm set-sub-cfg

Set sub configuration. Long content for an attribute can be supplied in a file by appending '-file' to the attribute name, and giving the filename as the value.

Usage: `ssoadm set-sub-cfg --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--operation, -o**

Operation (either add/set/delete) to be performed on the sub configuration.



**--password-file, -f**

File name that contains password of administrator.

**--servicename, -s**

Name of service.

**--subconfigname, -g**

Name of sub configuration.

**[--attributevalues, -a]**

Attribute values e.g. homeaddress=here.

**[--datafile, -D]**

Name of file that contains attribute values data.

**[--realm, -e]**

Name of realm (Sub Configuration shall be set to global configuration if this option is not provided).

## ssoadm set-svc-attrs

Set service attribute values in a realm. Long content for an attribute can be supplied in a file by appending '-file' to the attribute name, and giving the filename as the value.

Usage: `ssoadm set-svc-attrs --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

**--servicename, -s**

Name of service.

**[--attributevalues, -a]**

Attribute values e.g. homeaddress=here.

**[--datafile, -D]**

Name of file that contains attribute values data.

## ssoadm set-svc-i18n-key

Set service schema i18n key.

Usage: `ssoadm set-svc-i18n-key --options [--global-options]`

### Options

`--adminid, -u`

Administrator ID of running the command.

`--i18nkey, -k`

I18n Key.

`--password-file, -f`

File name that contains password of administrator.

`--servicename, -s`

Name of service.

## ssoadm set-svc-view-bean-url

Set service schema properties view bean URL.

Usage: `ssoadm set-svc-view-bean-url --options [--global-options]`

### Options

`--adminid, -u`

Administrator ID of running the command.

`--password-file, -f`

File name that contains password of administrator.

`--servicename, -s`

Name of service.

`--url, -r`

Service Schema Properties View Bean URL

## ssoadm set-svrcfg-xml

Set server configuration XML to centralized data store

Usage: `ssoadm set-svrcfg-xml --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--servername, -s**

Server name, e.g. `http://www.example.com:8080/fam`

**--xmlfile, -X**

XML file that contains configuration.

## **ssoadm show-agent**

Show agent profile.

Usage: `ssoadm show-agent --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--agentname, -b**

Name of agent.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

**[--includepassword, -p]**

Include the hashed password in the export.

**[--inherit, -i]**

Set this to inherit properties from parent group.

**[--outfile, -o]**

Filename where configuration is written to.

## ssoadm show-agent-grp

Show agent group profile.

Usage: `ssoadm show-agent-grp --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--agentgroupname, -b**

Name of agent group.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

**[--outfile, -o]**

Filename where configuration is written to.

## ssoadm show-agent-membership

List agent's membership.

Usage: `ssoadm show-agent-membership --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--agentname, -b**

Name of agent.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

## ssoadm show-agent-types

Show agent types.

Usage: `ssoadm show-agent-types --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

## ssoadm show-app-priv

Show policy set privilege.

Usage: `ssoadm show-app-priv --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--name, -m**

Name of policy set privilege

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Realm name

## ssoadm show-appl

Show policy set attributes.

Usage: `ssoadm show-appl --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--name, -m**

Policy set name

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Realm name

## ssoadm show-appl-type

Show application type details.

Usage: `ssoadm show-appl-type --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--name, -m**

Application Type name

**--password-file, -f**

File name that contains password of administrator.

## ssoadm show-auth-modules

Show the supported authentication modules in the system.

Usage: `ssoadm show-auth-modules --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

## ssoadm show-data-types

Show the supported data type in the system.

Usage: `ssoadm show-data-types --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

## **ssoadm show-datastore**

Show data store profile.

Usage: `ssoadm show-datastore --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--name, -m**

Name of datastore.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

## **ssoadm show-entitlement-conf**

Display entitlements service configuration

Usage: `ssoadm show-entitlement-conf --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

## ssoadm show-identity-ops

Show the allowed operations of an identity a realm

Usage: `ssoadm show-identity-ops --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--idtype, -t**

Type of Identity such as User, Role and Group.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

## ssoadm show-identity-svc-attrs

Show the service attribute values of an identity

Usage: `ssoadm show-identity-svc-attrs --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--idname, -i**

Name of identity.

**--idtype, -t**

Type of Identity such as User, Role and Group.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

**--servicename, -s**

Name of service.



## ssoadm show-identity-types

Show the supported identity type in a realm

Usage: `ssoadm show-identity-types --options [--global-options]`

### Options

`--adminid, -u`

Administrator ID of running the command.

`--password-file, -f`

File name that contains password of administrator.

`--realm, -e`

Name of realm.

## ssoadm show-members

Show the members of an identity. For example show the members of a role

Usage: `ssoadm show-members --options [--global-options]`

### Options

`--adminid, -u`

Administrator ID of running the command.

`--idname, -i`

Name of identity.

`--idtype, -t`

Type of Identity such as User, Role and Group.

`--membershipidtype, -m`

Membership identity type.

`--password-file, -f`

File name that contains password of administrator.

`--realm, -e`

Name of realm.

## ssoadm show-memberships

Show the memberships of an identity. For sample show the memberships of an user.

Usage: `ssoadm show-memberships --options [--global-options]`

### Options

- adminid, -u**  
Administrator ID of running the command.
- idname, -i**  
Name of identity.
- idtype, -t**  
Type of Identity such as User, Role and Group.
- membershipidtype, -m**  
Membership identity type.
- password-file, -f**  
File name that contains password of administrator.
- realm, -e**  
Name of realm.

## ssoadm show-privileges

Show privileges assigned to an identity

Usage: `ssoadm show-privileges --options [--global-options]`

### Options

- adminid, -u**  
Administrator ID of running the command.
- idname, -i**  
Name of identity.
- idtype, -t**  
Type of Identity such Role and Group.
- password-file, -f**  
File name that contains password of administrator.

**--realm, -e**

Name of realm.

## ssoadm show-realm-svcs

Show services in a realm.

Usage: `ssoadm show-realm-svcs --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

**[--mandatory, -y]**

Include Mandatory services.

## ssoadm show-site

Show site profile.

Usage: `ssoadm show-site --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--sitename, -s**

Site name, e.g. mysite

## ssoadm show-site-members

Display members of a site.

Usage: `ssoadm show-site-members --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--sitename, -s**

Site name, e.g. mysite

## **ssoadm start-recording**

Start recording a bundle that contains troubleshooting information, including debug logs, thread dumps, and environment information.

Usage: `ssoadm start-recording --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--jsonfile, -J**

JSON control file for a recording operation.

**--password-file, -f**

File name that contains password of administrator.

**--servername, -s**

Server name, e.g. `http://openam.example.com:8080/openam`

## **ssoadm stop-recording**

Stop an active recording operation.

Usage: `ssoadm stop-recording --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--servername, -s**

Server name, e.g. `http://openam.example.com:8080/openam`

## ssoadm unregister-auth-module

Unregisters authentication module.

Usage: `ssoadm unregister-auth-module --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--authmodule, -a**

Java class name of authentication module.

**--password-file, -f**

File name that contains password of administrator.

## ssoadm update-agent

Update agent configuration.

Usage: `ssoadm update-agent --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--agentname, -b**

Name of agent.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

**[--attributevalues, -a]**

Properties e.g. homeaddress=here.

**[--datafile, -D]**

Name of file that contains properties.

**[--set, -s]**

Set this flag to overwrite properties values.

## ssoadm update-agent-grp

Update agent group configuration.

Usage: `ssoadm update-agent-grp --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--agentgroupname, -b**

Name of agent group.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

**[--attributevalues, -a]**

Properties e.g. homeaddress=here.

**[--datafile, -D]**

Name of file that contains properties.

**[--set, -s]**

Set this flag to overwrite properties values.

## ssoadm update-app-priv

Update a policy set privilege.

Usage: `ssoadm update-app-priv --options [--global-options]`

## Options

**--adminid, -u**

Administrator ID of running the command.

**--name, -m**

Name for the this delegation

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Realm name

**[--actions, -a]**

Possible values are READ, MODIFY, DELEGATE, ALL

**[--description, -p]**

Description for the this delegation.

## ssoadm update-app-priv-resources

Set policy set privilege resources. Note that policy sets are cached for 30 minutes. Restart OpenAM to apply changes immediately.

Usage: `ssoadm update-app-priv-resources --options [--global-options]`

## Options

**--adminid, -u**

Administrator ID of running the command.

**--application, -t**

Policy set name

**--name, -m**

Name for the this delegation

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Realm name

**[--add, -p]**

Resources are added to this policy set if this option is set. Otherwise, resources in the current policy set privilege will be overwritten.

**[--resources, -r]**

Resources to delegate, All resources in the policy set will be delegated if this option is absent.

## ssoadm update-app-priv-subjects

Set policy set privilege subjects.

Usage: `ssoadm update-app-priv-subjects --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--name, -m**

Name for the this delegation

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Realm name

**--subjects, -s**

Subject name

**--subjecttype, -b**

Possible values are User or Group

**[--add, -p]**

Subjects are added to this policy set if this option is set. Otherwise, subjects in the current policy set privilege will be overwritten.

## ssoadm update-auth-cfg-entr

Set authentication configuration entries

Usage: `ssoadm update-auth-cfg-entr --options [--global-options]`



## Options

**--adminid, -u**

Administrator ID of running the command.

**--name, -m**

Name of authentication configuration.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

**[--datafile, -D]**

Name of file that contains formatted authentication configuration entries in this format name|flag|options. option can be REQUIRED, OPTIONAL, SUFFICIENT, REQUISITE. e.g. myauthmodule|REQUIRED|my options.

**[--entries, -a]**

formatted authentication configuration entries in this format name|flag|options. option can be REQUIRED, OPTIONAL, SUFFICIENT, REQUISITE. e.g. myauthmodule|REQUIRED|my options.

## ssoadm update-auth-cfg-props

Set authentication configuration properties

Usage: `ssoadm update-auth-cfg-props --options [--global-options]`

## Options

**--adminid, -u**

Administrator ID of running the command.

**--name, -m**

Name of authentication configuration.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

**[--attributevalues, -a]**

authentication configuration properties, valid configuration keys are: iplanet-am-auth-login-failure-url, iplanet-am-auth-login-success-url and iplanet-am-auth-post-login-process-class.

**[--datafile, -D]**

Name of file that contains authentication configuration properties.

## ssoadm update-auth-instance

Update authentication instance values

Usage: `ssoadm update-auth-instance --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--name, -m**

Name of authentication instance.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

**[--attributevalues, -a]**

Attribute values e.g. homeaddress=here.

**[--datafile, -D]**

Name of file that contains attribute values data.

## ssoadm update-datastore

Update data store profile.

Usage: `ssoadm update-datastore --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--name, -m**

Name of datastore.

**--password-file, -f**

File name that contains password of administrator.

**--realm, -e**

Name of realm.

**[--attributevalues, -a]**

Attribute values e.g. sunIdRepoClass=com.sun.identity.idm.plugins.files.FilesRepo.

**[--datafile, -D]**

Name of file that contains attribute values data.

## ssoadm update-entity-keyinfo

Update XML signing and encryption key information in hosted entity metadata.

Usage: `ssoadm update-entity-keyinfo --options [--global-options]`

### *Options*

**--adminid, -u**

Administrator ID of running the command.

**--entityid, -y**

Entity ID

**--password-file, -f**

File name that contains password of administrator.

**[--idpecertalias, -g]**

Identity provider encryption certificate aliases.

**[--idpscertainalias, -b]**

Identity provider signing certificate aliases

**[--realm, -e]**

Realm where entity resides.

**[--specertainalias, -r]**

Service provider encryption certificate aliases

**[--spec, -c]**

Specify metadata specification, either wsfed, idff or saml2, defaults to saml2

**[--spscertalias, -a]**

Service provider signing certificate aliases

## ssoadm update-server-cfg

Update server configuration.

Usage: `ssoadm update-server-cfg --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--servername, -s**

Server name, e.g. `http://www.example.com:8080/fam` or enter default to update default server configuration.

**[--attributevalues, -a]**

Attribute values e.g. `homeaddress=here`.

**[--datafile, -D]**

Name of file that contains attribute values data.

## ssoadm update-svc

Update service.

Usage: `ssoadm update-svc --options [--global-options]`

### Options

**--adminid, -u**

Administrator ID of running the command.

**--password-file, -f**

File name that contains password of administrator.

**--xmlfile, -X**

XML file(s) that contains schema.

**[--continue, -c]**

Continue updating service if one or more previous services cannot be updated.

## Name

**ssoadm** — multiple attributes in a single command

## Using Multiple Attributes in a Single **ssoadm** Command

You can set multiple attributes in a single **ssoadm** command by using a text file or by specifying multiple attributes with the **-a** option.

### Text File

1. Create a text file with each property on each line followed by a line feed and save the file for example, as **TEXT\_FILE**:

```
iplanet-am-session-max-session-time=150
iplanet-am-session-max-idle-time=15
iplanet-am-session-max-caching-time=5
```

2. Run the **ssoadm** command specifying the name of the file with the **-D** option:

```
$ ./ssoadm set-attr-defs -s iPlanetAMSessionService -t dynamic -u adminID -f passwordfile -D TEXT_FILE
```

### Using the **-a** Option

Run **ssoadm** using the **-a** option. Separate each attribute with a space.

```
$ ./ssoadm set-attr-defs -s iPlanetAMSessionService -t dynamic -u adminID \
-f passwordfile -a iplanet-am-session-max-session-time=150 \
iplanet-am-session-max-idle-time=15 iplanet-am-session-max-caching-time=5
```

## Chapter 2

# Configuration Reference

This chapter covers AM configuration properties accessible through the Configure tab of the AM console, most of which can also be set by using the **ssoadm** command. The chapter is organized to follow the AM console layout.

## 2.1. Authentication Configuration

As described in the [Chapter 2, "Implementing Authentication"](#) in the *Authentication and Single Sign-On Guide*, you configure authentication by realm at the following locations in the AM console:

- Under Realms > *Realm Name* > Authentication > Settings
- Under Realms > *Realm Name* > Authentication > Modules

You can configure default values for authentication modules under Configure > Authentication using the same attributes you use to configure authentication modules per realm. These defaults are used when a module is created for a specific realm.

The core attributes page includes some fields that are not available under Realms > *Realm Name* > Authentication > Settings. Because attributes set under Configure > Authentication > Core Attributes apply on a server level, the changes you make here will apply to all realms. Attributes set by Realm only apply to the realm that you specify. The Authentication Module Defaults list under Configure > Authentication shows all existing types of modules available for configuration, including any customized modules you have added.

The following section describes the properties you can configure on the Global tab under Configure > Authentication > Core Attributes. The properties on the other tabs on that page are described in [Section 11.1, "Core Authentication Attributes"](#) in the *Authentication and Single Sign-On Guide*.

### 2.1.1. Global Attributes

The following properties are available under the Global Attributes tab:

#### Pluggable Authentication Module Classes

Lists the authentication modules classes available to AM. If you have custom authentication modules, add classes to this list that extend from the `com.sun.identity.authentication.spi.AMLoginModule` class.

For more information about custom authentication modules, see Section 10.1, "Creating a Custom Authentication Module" in the *Authentication and Single Sign-On Guide*.

**ssoadm** attribute: `iplanet-am-auth-authenticators`

### LDAP Connection Pool Size

Sets a minimum and a maximum number of LDAP connections to be used by any authentication module that connects to a specific directory server. This connection pool is different than the SDK connection pool configured in `serverconfig.xml` file.

Format is `host:port:minimum:maximum`.

This attribute is for LDAP and Membership authentication modules only.

**ssoadm** attributes: `iplanet-am-auth-ldap-connection-pool-size`

### Default LDAP Connection Pool Size

Sets the default minimum and maximum number of LDAP connections to be used by any authentication module that connects to any directory server. This connection pool is different than the SDK connection pool configured in `serverconfig.xml` file.

Format is `minimum:maximum`.

When tuning for production, start with 10 minimum, 65 maximum. For example, `10:65`.

This attribute is for LDAP and Membership authentication modules only.

**ssoadm** attributes: `iplanet-am-auth-ldap-connection-pool-default-size`

### Remote Auth Security

When enabled, AM requires the authenticating application to send its SSO token. This allows AM to obtain the username and password associated with the application.

**ssoadm** attribute: `sunRemoteAuthSecurityEnabled`

### Keep Post Process Objects for Logout Processing

When enabled, AM stores instances of post-processing classes into the user session. When the user logs out, the original post-processing classes are called instead of new instances. This may be required for special logout processing.

Enabling this setting increases the memory usage of AM.

**ssoadm** attribute: `sunAMAuthKeepPostProcessInstances`

## 2.2. Global Services Configuration

Under Configure > Global Services, you can set defaults for a range of AM services.



## 2.2.1. Audit Logging

**ssoadm** service name: `audit`

### 2.2.1.1. Global Attributes

The following settings appear on the **Global Attributes** tab:

#### Audit logging

Enable audit logging in OpenAM.

Default value: `true`

**ssoadm** attribute: `auditEnabled`

#### Field exclusion policies

A list of fields or values (JSON pointers) to exclude from the audit event.

To specify a field or value within a field to be filtered out of the event, start the pointer with the event topic, for example access, activity, authentication, or config, followed by the field name or the path to the value in the field.

For example, to filter out the `userId` field in an access event the pointer will be `/access/userId`.

To filter out the `content-type` value in the `http.request.headers` field the pointer will be `/access/http/request/headers/content-type`.

Only values that are made up of JSON strings can be manipulated in this way.

Default value:

```
/access/http/request/queryParameters/tokenId
/access/http/request/headers/cache-control
/access/http/request/queryParameters/redirect_uri
/access/http/request/queryParameters/Login.Token1
/access/http/request/headers/accept-language
/config/before
/access/http/request/headers/%AM_AUTH_COOKIE_NAME%
/config/after
/access/http/request/queryParameters/access_token
/access/http/request/headers/X-OpenAM-Password
/access/http/request/queryParameters/id_token_hint
/access/http/request/headers/proxy-authorization
/access/http/request/queryParameters/IDToken1
/access/http/request/queryParameters/requester
/access/http/request/headers/connection
/access/http/request/queryParameters/sessionUpgradeSSOTokenId
/access/http/request/headers/content-type
/access/http/request/cookies/%AM_COOKIE_NAME%
/access/http/request/headers/accept-encoding
/access/http/request/headers/authorization
```

```
/access/http/request/headers/content-length
/access/http/request/headers/%AM_COOKIE_NAME%
```

**ssoadm** attribute: `fieldFilterPolicy`

## 2.2.1.2. Realm Defaults

The following settings appear on the *Realm Defaults* tab:

### Audit logging

Enable audit logging in OpenAM.

Default value: `true`

**ssoadm** attribute: `auditEnabled`

### Field exclusion policies

A list of fields or values (JSON pointers) to exclude from the audit event.

To specify a field or value within a field to be filtered out of the event, start the pointer with the event topic, for example `access`, `activity`, `authentication`, or `config`, followed by the field name or the path to the value in the field.

For example, to filter out the `userId` field in an access event the pointer will be `/access/userId`.

To filter out the `content-type` value in the `http.request.headers` field the pointer will be `/access/http/request/headers/content-type`.

Only values that are made up of JSON strings can be manipulated in this way.

Default value:

```
/access/http/request/queryParameters/tokenId
/access/http/request/headers/cache-control
/access/http/request/queryParameters/redirect_uri
/access/http/request/queryParameters/Login.Token1
/access/http/request/headers/accept-language
/config/before
/access/http/request/headers/%AM_AUTH_COOKIE_NAME%
/config/after
/access/http/request/queryParameters/access_token
/access/http/request/headers/X-OpenAM-Password
/access/http/request/queryParameters/id_token_hint
/access/http/request/headers/proxy-authorization
/access/http/request/queryParameters/IDToken1
/access/http/request/queryParameters/requester
/access/http/request/headers/connection
/access/http/request/queryParameters/sessionUpgradeSS0TokenId
/access/http/request/headers/content-type
/access/http/request/cookies/%AM_COOKIE_NAME%
/access/http/request/headers/accept-encoding
/access/http/request/headers/authorization
```

```
/access/http/request/headers/content-length
/access/http/request/headers/%AM_COOKIE_NAME%
```

**ssoadm** attribute: `fieldFilterPolicy`

### 2.2.1.3. Secondary Configurations

This service has the following Secondary Configurations.

#### 2.2.1.3.1. JMS

A configured secondary instance of the JMS type has the following tabs:

##### General Handler Configuration

The General Handler Configuration tab contains the following secondary configuration properties:

##### Enabled

Enables or disables an audit event handler.

Default value: `true`

**ssoadm** attribute: `enabled`

##### Topics

List of topics handled by an audit event handler.

Default value:

```
access
activity
config
authentication
```

**ssoadm** attribute: `topics`

### Audit Event Handler Factory

The Audit Event Handler Factory tab contains the following secondary configuration properties:

##### Factory Class Name

The fully qualified class name of the factory responsible for creating the Audit Event Handler. The class must implement `org.forgerock.openam.audit.AuditEventHandlerFactory`.

Default value: `org.forgerock.openam.audit.events.handlers.JmsAuditEventHandlerFactory`

**ssoadm** attribute: `handlerFactory`

## JMS Configuration

The JMS Configuration tab contains the following secondary configuration properties:

### Delivery Mode

Specifies whether JMS messages used to transmit audit events use persistent or non-persistent delivery.

With persistent delivery, the JMS provider ensures that messages are not lost in transit in case of a provider failure by logging messages to storage when they are sent.

Specify the delivery mode as persistent if it is unacceptable for delivery of audit events to be lost in JMS transit. If the possible loss of audit events is acceptable, choose non-persistent delivery, which provides better performance.

Default value: `NON_PERSISTENT`

**ssoadm** attribute: `deliveryMode`

### Session Mode

Specifies the JMS session acknowledgement mode: `AUTO`, `CLIENT`, or `DUPS_OK`.

- Auto mode guarantees once-only delivery of JMS messages used to transmit audit events.
- Duplicates OK mode ensures that messages are delivered at least once.
- Client mode does not ensure delivery.

Use the default setting unless your JMS broker implementation requires otherwise. See your broker documentation for more information.

Default value: `AUTO`

**ssoadm** attribute: `sessionMode`

### JNDI Context Properties

Specifies JNDI properties that OpenAM uses to connect to the JMS message broker to which OpenAM will publish audit events.

OpenAM acts as a JMS client, using a JMS connection factory to connect to your JMS message broker. In order for OpenAM to connect to the broker, the JNDI context properties must conform to those needed by the broker. See the documentation for your JMS message broker for required values.

The default properties are example properties for connecting to Apache ActiveMQ.

Default value:

```
topic.audit=audit
```

```
java.naming.factory.initial=org.apache.activemq.jndi.ActiveMQInitialContextFactory
java.naming.provider.url=tcp://localhost:61616
```

**ssoadm** attribute: `jndiContextProperties`

### JMS Topic Name

JNDI lookup name for the JMS topic

Default value: `audit`

**ssoadm** attribute: `jndiTopicName`

### JMS Connection Factory Name

Specifies the JNDI lookup name for the connection factory exposed by your JMS message broker. OpenAM performs a JNDI lookup on this name to locate your broker's connection factory.

See the documentation for your JMS message broker for the required value.

The default is the connection factory name for Apache ActiveMQ.

Default value: `ConnectionFactory`

**ssoadm** attribute: `jndiConnectionFactoryName`

## Batch Events

The Batch Events tab contains the following secondary configuration properties:

### Batch enabled

Boolean for batch delivery of audit events.

Default value: `true`

**ssoadm** attribute: `batchEnabled`

### Capacity

Maximum event count in the batch queue; additional events are dropped.

Default value: `1000`

**ssoadm** attribute: `batchCapacity`

### Max Batched

Maximum number of events per batch.

Default value: `100`

**ssoadm** attribute: `maxBatchedEvents`

### Thread Count

Number of concurrent threads that pull events from the batch queue.

Default value: 3

**ssoadm** attribute: `batchThreadCount`

### Insert Timeout

Waiting period (seconds) for available capacity, when a new event enters the queue.

Default value: 60

**ssoadm** attribute: `insertTimeoutSec`

### Polling Timeout

Worker thread waiting period (seconds) for the next event, before going idle.

Default value: 10

**ssoadm** attribute: `pollTimeoutSec`

### Shutdown Timeout

Application waiting period (seconds) for worker thread termination.

Default value: 60

**ssoadm** attribute: `shutdownTimeoutSec`

## 2.2.1.3.2. Elasticsearch

A configured secondary instance of the Elasticsearch type has the following tabs:

### General Handler Configuration

The General Handler Configuration tab contains the following secondary configuration properties:

#### Enabled

Enables or disables an audit event handler.

Default value: `true`

**ssoadm** attribute: `enabled`

#### Topics

List of topics handled by an audit event handler.

Default value:

```
access
activity
config
authentication
```

**ssoadm** attribute: `topics`

## Audit Event Handler Factory

The Audit Event Handler Factory tab contains the following secondary configuration properties:

### Factory Class Name

The fully qualified class name of the factory responsible for creating the Audit Event Handler. The class must implement `org.forgerock.openam.audit.AuditEventHandlerFactory`.

Default value: `org.forgerock.openam.audit.events.handlers.ElasticsearchAuditEventHandlerFactory`

**ssoadm** attribute: `handlerFactory`

## Elasticsearch Configuration

The Elasticsearch Configuration tab contains the following secondary configuration properties:

### Server Hostname

Host name or IP address of the Elasticsearch server.

**ssoadm** attribute: `host`

### Server Port

Specifies the port number used to access Elasticsearch's REST API.

**ssoadm** attribute: `port`

### SSL Enabled

Specifies whether SSL is configured on the Elasticsearch server.

If SSL is enabled, be sure to import the CA certificate used to sign Elasticsearch node certificates into the Java keystore on the host that runs OpenAM before attempting to log audit events to Elasticsearch.

Default value: `false`

**ssoadm** attribute: `sslEnabled`

### Elasticsearch Index

Specifies the name of the Elasticsearch index to be used for OpenAM audit logging.

**ssoadm** attribute: `index`

## Authentication

The Authentication tab contains the following secondary configuration properties:

### Username

Specifies the username to access the Elasticsearch server.

Required if Elasticsearch Shield authentication is configured.

**ssoadm** attribute: `username`

### Password

Specifies the password to access the Elasticsearch server.

Required if Elasticsearch Shield authentication is configured.

**ssoadm** attribute: `password`

## Buffering

The Buffering tab contains the following secondary configuration properties:

### Buffering Enabled

Default value: `true`

**ssoadm** attribute: `bufferingEnabled`

### Batch Size

Specifies the number of audit log events to hold in the buffer before writing them to Elasticsearch.

Default value: `500`

**ssoadm** attribute: `batchSize`

### Queue Capacity

Maximum number of audit logs in the batch queue. Additional audit events are dropped.

Default value: `10000`

**ssoadm** attribute: `maxEvents`

### Write interval (in milliseconds)

Specifies the interval in milliseconds at which buffered events are written to Elasticsearch.

Default value: `250`

**ssoadm** attribute: `writeInterval`



### 2.2.1.3.3. Syslog

A configured secondary instance of the Syslog type has the following tabs:

#### General Handler Configuration

The General Handler Configuration tab contains the following secondary configuration properties:

##### Enabled

Enables or disables an audit event handler.

Default value: `true`

**ssoadm** attribute: `enabled`

##### Topics

List of topics handled by an audit event handler.

Default value:

```
access
activity
config
authentication
```

**ssoadm** attribute: `topics`

#### Audit Event Handler Factory

The Audit Event Handler Factory tab contains the following secondary configuration properties:

##### Factory Class Name

The fully qualified class name of the factory responsible for creating the Audit Event Handler. The class must implement `org.forgerock.openam.audit.AuditEventHandlerFactory`.

Default value: `org.forgerock.openam.audit.events.handlers.SyslogAuditEventHandlerFactory`

**ssoadm** attribute: `handlerFactory`

#### Syslog Configuration

The Syslog Configuration tab contains the following secondary configuration properties:

##### Server hostname

Host name or IP address of receiving syslog server.

**ssoadm** attribute: `host`

## Server port

Port number of receiving syslog server.

**ssoadm** attribute: `port`

## Transport Protocol

Default value: `TCP`

**ssoadm** attribute: `transportProtocol`

## Connection timeout

Timeout for connecting to syslog server, in seconds.

**ssoadm** attribute: `connectTimeout`

## Facility

Syslog facility value to apply to all events.

Default value: `USER`

**ssoadm** attribute: `facility`

## Buffering

The Buffering tab contains the following secondary configuration properties:

### Buffering Enabled

Enables or disables audit event buffering.

Default value: `true`

**ssoadm** attribute: `bufferingEnabled`

## 2.2.1.3.4. CSV

A configured secondary instance of the CSV type has the following tabs:

### General Handler Configuration

The General Handler Configuration tab contains the following secondary configuration properties:

#### Enabled

Enables or disables an audit event handler.

Default value: `true`

**ssoadm** attribute: `enabled`

## Topics

List of topics handled by an audit event handler.

Default value:

```
access
activity
config
authentication
```

**ssoadm** attribute: `topics`

## Audit Event Handler Factory

The Audit Event Handler Factory tab contains the following secondary configuration properties:

### Factory Class Name

The fully qualified class name of the factory responsible for creating the Audit Event Handler. The class must implement `org.forgerock.openam.audit.AuditEventHandlerFactory`.

Default value: `org.forgerock.openam.audit.events.handlers.CsvAuditEventHandlerFactory`

**ssoadm** attribute: `handlerFactory`

## CSV Configuration

The CSV Configuration tab contains the following secondary configuration properties:

### Log Directory

Directory in which to store audit log CSV files.

Default value: `%BASE_DIR%/SERVER_URI%/log/`

**ssoadm** attribute: `location`

## File Rotation

The File Rotation tab contains the following secondary configuration properties:

### Rotation Enabled

Enables and disables audit file rotation.

Default value: `true`

**ssoadm** attribute: `rotationEnabled`

## Maximum File Size

Maximum size, in bytes, which an audit file can grow to before rotation is triggered. A negative or zero value indicates this policy is disabled.

Default value: 100000000

**ssoadm** attribute: `rotationMaxFileSize`

## File Rotation Prefix

Prefix to prepend to audit files when rotating audit files.

**ssoadm** attribute: `rotationFilePrefix`

## File Rotation Suffix

Suffix to append to audit files when they are rotated. Suffix should be a timestamp.

Default value: `-yyyy.MM.dd-HH.mm.ss`

**ssoadm** attribute: `rotationFileSuffix`

## Rotation Interval

Interval to trigger audit file rotations, in seconds. A negative or zero value disables this feature.

Default value: `-1`

**ssoadm** attribute: `rotationInterval`

## Rotation Times

Durations after midnight to trigger file rotation, in seconds.

**ssoadm** attribute: `rotationTimes`

## File Retention

The File Retention tab contains the following secondary configuration properties:

### Maximum Number of Historical Files

Maximum number of backup audit files allowed. A value of `-1` disables pruning of old history files.

Default value: `1`

**ssoadm** attribute: `retentionMaxNumberOfHistoryFiles`

### Maximum Disk Space

The maximum amount of disk space the audit files can occupy, in bytes. A negative or zero value indicates this policy is disabled.

Default value: `-1`

**ssoadm** attribute: `retentionMaxDiskSpaceToUse`

### Minimum Free Space Required

Minimum amount of disk space required, in bytes, on the system where audit files are stored. A negative or zero value indicates this policy is disabled.

Default value: `-1`

**ssoadm** attribute: `retentionMinFreeSpaceRequired`

## Buffering

The Buffering tab contains the following secondary configuration properties:

### Buffering Enabled

Enables or disables buffering.

Default value: `true`

**ssoadm** attribute: `bufferingEnabled`

### Flush Each Event Immediately

Performance may be improved by writing all buffered events before flushing.

Default value: `false`

**ssoadm** attribute: `bufferingAutoFlush`

## Tamper Evident Configuration

The Tamper Evident Configuration tab contains the following secondary configuration properties:

### Is Enabled

Enables the CSV tamper evident feature.

Default value: `false`

**ssoadm** attribute: `securityEnabled`

### Certificate Store Location

Path to Java keystore.

Default value: `%BASE_DIR%/%SERVER_URI%/Logger.jks`

**ssoadm** attribute: `securityFilename`

### Certificate Store Password

Password for Java keystore.

**ssoadm** attribute: `securityPassword`

### Signature Interval

Signature generation interval, in seconds.

Default value: `900`

**ssoadm** attribute: `securitySignatureInterval`

### 2.2.1.3.5. JDBC

A configured secondary instance of the JDBC type has the following tabs:

#### General Handler Configuration

The General Handler Configuration tab contains the following secondary configuration properties:

##### Enabled

Enables or disables an audit event handler.

Default value: `true`

**ssoadm** attribute: `enabled`

##### Topics

List of topics handled by an audit event handler.

Default value:

```
access
activity
config
authentication
```

**ssoadm** attribute: `topics`

#### Audit Event Handler Factory

The Audit Event Handler Factory tab contains the following secondary configuration properties:

##### Factory Class Name

The fully qualified class name of the factory responsible for creating the Audit Event Handler. The class must implement `org.forgerock.openam.audit.AuditEventHandlerFactory`.

Default value: `org.forgerock.openam.audit.events.handlers.JdbcAuditEventHandlerFactory`

**ssoadm** attribute: `handlerFactory`

## Database Configuration

The Database Configuration tab contains the following secondary configuration properties:

### Database Type

Select the database to use for logging audit events.

Identifies the database in use, for example MySQL, Oracle, or SQL.

Default value: `oracle`

**ssoadm** attribute: `databaseType`

### JDBC Database URL

URL of the JDBC database.

**ssoadm** attribute: `jdbcUrl`

### JDBC Driver

Fully qualified JDBC driver class name.

**ssoadm** attribute: `driverClassName`

### Database Username

Specifies the username to access the database server.

**ssoadm** attribute: `username`

### Database Password

Specifies the password to access the database server.

**ssoadm** attribute: `password`

### Connection Timeout (seconds)

Specifies the maximum wait time before failing the connection, in seconds.

Default value: `30`

**ssoadm** attribute: `connectionTimeout`

### Maximum Connection Idle Timeout (seconds)

Specifies the maximum idle time before the connection is closed, in seconds.

Default value: `600`

**ssoadm** attribute: `idleTimeout`

### Maximum Connection Time (seconds)

Specifies the maximum time a JDBC connection can be open, in seconds.

Default value: 1800

**ssoadm** attribute: maxLifetime

### Minimum Idle Connections

Specifies the minimum number of idle connections in the connection pool.

Default value: 10

**ssoadm** attribute: minIdle

### Maximum Connections

Specifies the maximum number of connections in the connection pool.

Default value: 10

**ssoadm** attribute: maxPoolSize

## Buffering

The Buffering tab contains the following secondary configuration properties:

### Buffering Enabled

Enables or disables audit event buffering.

Default value: true

**ssoadm** attribute: bufferingEnabled

### Buffer Size (number of events)

Size of the queue where events are buffered before they are written to the database.

This queue has to be big enough to store all incoming events that have not yet been written to the database.

If the queue reaches capacity, the process will block until a write occurs.

Default value: 100000

**ssoadm** attribute: bufferingMaxSize

### Write Interval

Specifies the interval (seconds) at which buffered events are written to the database.

Default value: 5

**ssoadm** attribute: bufferingWriteInterval



## Writer Threads

Specifies the number of threads used to write the buffered events.

Default value: `1`

**ssoadm** attribute: `bufferingWriterThreads`

## Max Batched Events

Specifies the maximum number of batched statements the database can support per connection.

Default value: `100`

**ssoadm** attribute: `bufferingMaxBatchedEvents`

### 2.2.1.3.6. JSON

A configured secondary instance of the JSON type has the following tabs:

#### General Handler Configuration

The General Handler Configuration tab contains the following secondary configuration properties:

##### Enabled

Enables or disables an audit event handler.

Default value: `true`

**ssoadm** attribute: `enabled`

##### Topics

List of topics handled by an audit event handler.

Default value:

```
access
activity
config
authentication
```

**ssoadm** attribute: `topics`

## Audit Event Handler Factory

The Audit Event Handler Factory tab contains the following secondary configuration properties:

### Factory Class Name

The fully qualified class name of the factory responsible for creating the Audit Event Handler. The class must implement `org.forgerock.openam.audit.AuditEventHandlerFactory`.

Default value: `org.forgerock.openam.audit.events.handlers.JsonAuditEventHandlerFactory`

**ssoadm** attribute: `handlerFactory`

## JSON Configuration

The JSON Configuration tab contains the following secondary configuration properties:

### Log Directory

Directory in which to store audit log JSON files.

Default value: `%BASE_DIR%/%SERVER_URI%/log/`

**ssoadm** attribute: `location`

### ElasticSearch JSON Format Compatible

JSON format should be transformed to be compatible with ElasticSearch format restrictions.

Default value: `false`

**ssoadm** attribute: `elasticsearchCompatible`

### File Rotation Retention Check Interval

Interval to check time-based file rotation policies, in seconds.

Default value: `5`

**ssoadm** attribute: `rotationRetentionCheckInterval`

## File Rotation

The File Rotation tab contains the following secondary configuration properties:

### Rotation Enabled

Enables and disables audit file rotation.

Default value: `true`

**ssoadm** attribute: `rotationEnabled`

### Maximum File Size

Maximum size, in bytes, which an audit file can grow to before rotation is triggered. A negative or zero value indicates this policy is disabled.

Default value: `100000000`

**ssoadm** attribute: `rotationMaxFileSize`

## File Rotation Prefix

Prefix to prepend to audit files when rotating audit files.

**ssoadm** attribute: `rotationFilePrefix`

## File Rotation Suffix

Suffix to append to audit files when they are rotated. Suffix should be a timestamp.

Default value: `-yyyy.MM.dd-HH.mm.ss`

**ssoadm** attribute: `rotationFileSuffix`

## Rotation Interval

Interval to trigger audit file rotations, in seconds. A negative or zero value disables this feature.

Default value: `-1`

**ssoadm** attribute: `rotationInterval`

## Rotation Times

Durations after midnight to trigger file rotation, in seconds.

**ssoadm** attribute: `rotationTimes`

## File Retention

The File Retention tab contains the following secondary configuration properties:

### Maximum Number of Historical Files

Maximum number of backup audit files allowed. A value of `-1` disables pruning of old history files.

Default value: `1`

**ssoadm** attribute: `retentionMaxNumberOfHistoryFiles`

### Maximum Disk Space

The maximum amount of disk space the audit files can occupy, in bytes. A negative or zero value indicates this policy is disabled.

Default value: `-1`

**ssoadm** attribute: `retentionMaxDiskSpaceToUse`

### Minimum Free Space Required

Minimum amount of disk space required, in bytes, on the system where audit files are stored. A negative or zero value indicates this policy is disabled.

Default value: `-1`

**ssoadm** attribute: `retentionMinFreeSpaceRequired`

## Buffering

The Buffering tab contains the following secondary configuration properties:

### Batch Size

Maximum number of audit log events that can be buffered.

Default value: `100000`

**ssoadm** attribute: `bufferingMaxSize`

### Write interval

Interval at which buffered events are written to a file, in milliseconds.

Default value: `5`

**ssoadm** attribute: `bufferingWriteInterval`

## 2.2.1.3.7. Splunk

A configured secondary instance of the Splunk type has the following tabs:

### General Handler Configuration

The General Handler Configuration tab contains the following secondary configuration properties:

#### Enabled

Enables or disables an audit event handler.

Default value: `true`

**ssoadm** attribute: `enabled`

#### Topics

List of topics handled by an audit event handler.

Default value:

```
access
activity
config
authentication
```

**ssoadm** attribute: `topics`

## Audit Event Handler Factory

The Audit Event Handler Factory tab contains the following secondary configuration properties:

### Factory Class Name

The fully qualified class name of the factory responsible for creating the Audit Event Handler. The class must implement `org.forgerock.openam.audit.AuditEventHandlerFactory`.

Default value: `org.forgerock.openam.audit.events.handlers.SplunkAuditEventHandlerFactory`

**ssoadm** attribute: `handlerFactory`

## Splunk Configuration

The Splunk Configuration tab contains the following secondary configuration properties:

### Authorization Token

Authorization token used to connect to Splunk HTTP Event Collector endpoint.

**ssoadm** attribute: `authzToken`

### Server Hostname

Host name or IP address of Splunk server.

**ssoadm** attribute: `host`

### Server Port

Port number of Splunk server.

**ssoadm** attribute: `port`

### SSL Enabled

Use HTTPS protocol for communication with Splunk.

Default value: `false`

**ssoadm** attribute: `sslEnabled`

## Buffering

The Buffering tab contains the following secondary configuration properties:

### Batch Size

Number of audit log events to batch before submitting to Splunk.

Default value: `500`

**ssoadm** attribute: `batchSize`

## Queue Capacity

Maximum number of audit events in the batch queue; additional events are dropped.

Default value: `10000`

**ssoadm** attribute: `maxEvents`

## Write interval (in milliseconds)

Interval at which buffered events are written to Splunk.

Default value: `250`

**ssoadm** attribute: `writeInterval`

## 2.2.2. Base URL Source

**ssoadm** service name: `baseurl`

### 2.2.2.1. Realm Defaults

The following settings appear on the *Realm Defaults* tab:

#### Base URL Source

Specifies the source of the base URL. Choose from the following:

- Extension class. Specifies that the extension class returns a base URL from a provided `HttpServletRequest`. In the Extension class name field, enter `org.forgerock.openam.services.baseurl.BaseURLProvider`.
- Fixed value. Specifies that the base URL is retrieved from a specific base URL value. In the Fixed value base URL field, enter the base URL value.
- Forwarded header. Specifies that the base URL is retrieved from a forwarded header field in the HTTP request. The Forwarded HTTP header field is standardized and specified in RFC7239.
- Host/protocol from incoming request. Specifies that the hostname, server name, and port are retrieved from the incoming HTTP request.
- X-Forwarded-\* headers. Specifies that the base URL is retrieved from non-standard header fields, such as `X-Forwarded-For`, `X-Forwarded-By`, and `X-Forwarded-Proto`.

The possible values for this property are:

```
FIXED_VALUE
FORWARDED_HEADER
X_FORWARDED_HEADERS
REQUEST_VALUES
```

EXTENSION\_CLASS

Default value: `REQUEST_VALUES`

**ssoadm** attribute: `source`

### Fixed value base URL

If Fixed value is selected as the Base URL source, enter the base URL in the Fixed value base URL field.

**ssoadm** attribute: `fixedValue`

### Extension class name

If Extension class is selected as the Base URL source, enter `org.forgerock.openam.services.baseurl.BaseURLProvider` in the Extension class name field.

**ssoadm** attribute: `extensionClassName`

### Context path

Specifies the context path for the base URL.

If provided, the base URL includes the deployment context path appended to the calculated URL.

For example, `/openam`.

Default value: `/openam`

**ssoadm** attribute: `contextPath`

## 2.2.3. Client Detection

**ssoadm** service name: `clientdetection`

The following settings are available in this service:

### Default Client Type

The name of the client type selected if no client match is found.

Default value: `genericHTML`

**ssoadm** attribute: `defaultClientType`

### Client Detection Class

The default client detection plug-in implementation.

The client detection plug-in is used to determine the client type. The client type is a name that uniquely identifies the client to OpenAM. The plug-in scans the HTTP request from the client in order to determine the name of the client type.

The implementation must implement the `com.ipianet.services.cdm.ClientDetectionInterface` interface.

Default value: `com.ipianet.services.cdm.ClientDetectionDefaultImpl`

**ssoadm** attribute: `detectionClass`

## Enable Client Detection

Enable/Disable the Client Detection Framework in OpenAM.

The Client Detection Framework can be used to identify the type of the client and deliver different content in the Authentication User Interface based on the client type. The default client type is HTML.

*Note:* This functionality is disabled in OpenAM; customisation is required before it can be enabled.

Default value: `false`

**ssoadm** attribute: `enabled`

## 2.2.4. Common Federation Configuration

**ssoadm** service name: `federation/common`

### 2.2.4.1. General Configuration

The following settings appear on the **General Configuration** tab:

#### Maximum allowed content length

The maximum content length allowed in federation communications, in bytes.

Default value: `20480`

**ssoadm** attribute: `maxContentLength`

#### Check presence of certificates

Enable checking of certificates against local copy

Whether to verify that the partner's signing certificate included in the Federation XML document is the same as the one stored in the said partner's meta data.

The possible values for this property are:

off  
on

Default value: `on`



**ssoadm** attribute: `certificateChecking`

## SAML Error Page URL

OpenAM redirects users here when an error occurs in the SAML2 engine.

Both relative and absolute URLs are supported. Users are redirected to an absolute URL using the configured HTTP Binding whereas relative URLs are displayed within the request.

Default value: `/saml2/jsp/saml2error.jsp`

**ssoadm** attribute: `samlErrorPageUrl`

## SAML Error Page HTTP Binding

The possible values are HTTP-Redirect or HTTP-POST.

Default value: `HTTP-POST`

**ssoadm** attribute: `samlErrorPageHttpBinding`

## 2.2.4.2. Implementation Classes

The following settings appear on the **Implementation Classes** tab:

### Datastore SPI implementation class

The Federation system uses this class to get/set user profile attributes.

The default implementation uses the Identity repository APIs to access user profile attributes. A custom implementation must implement the `com.sun.identity.plugin.datastore.DataStoreProvider` interface.

Default value: `com.sun.identity.plugin.datastore.impl.IdRepoDataStoreProvider`

**ssoadm** attribute: `datastoreClass`

### ConfigurationInstance SPI implementation class

The Federation system uses this class to fetch service configuration.

The default implementation uses the SMS APIs to access service configuration. A custom implementation must implement the `com.sun.identity.plugin.configuration.ConfigurationInstance` interface.

Default value: `com.sun.identity.plugin.configuration.impl.ConfigurationInstanceImpl`

**ssoadm** attribute: `configurationClass`

### Logger SPI implementation class

The Federation system uses this class to record log entries.

The default implementation uses the Logging APIs to record log entries. A custom implementation must implement the `com.sun.identity.plugin.log.Logger` interface.

Default value: `com.sun.identity.plugin.log.impl.LogProvider`

**ssoadm** attribute: `loggerClass`

### SessionProvider SPI implementation class

The Federation system uses this class to interface with the session service.

The default implementation uses the standard authentication and SSO APIs to access the session service. A custom implementation must implement the `com.sun.identity.plugin.session.SessionProvider` interface.

Default value: `com.sun.identity.plugin.session.impl.FMSessionProvider`

**ssoadm** attribute: `sessionProviderClass`

### PasswordDecoder SPI implementation class

The Federation system uses this class to decode password encoded by OpenAM.

The default implementation uses the internal OpenAM decryption API to decode passwords. A custom implementation must implement the `com.sun.identity.saml.xmlsig.PasswordDecoder` interface.

Default value: `com.sun.identity.saml.xmlsig.FMPasswordDecoder`

**ssoadm** attribute: `passwordDecoderClass`

### SignatureProvider SPI implementation class

The Federation system uses this class to digitally sign SAML documents.

The default implementation uses the XERCES APIs to sign the documents. A custom implementation must implement the `com.sun.identity.saml.xmlsig.SignatureProvider` interface.

Default value: `com.sun.identity.saml.xmlsig.AMSignatureProvider`

**ssoadm** attribute: `signatureProviderClass`

### KeyProvider SPI implementation class

The Federation system uses this class to provide access to the underlying Java keystore.

The default implementation uses the Java Cryptographic Engine to provide access to the Java keystore. A custom implementation must implement the `com.sun.identity.saml.xmlsig.KeyProvider` interface.

Default value: `com.sun.identity.saml.xmlsig.JKSKeyProvider`

**ssoadm** attribute: `keyProviderClass`

### 2.2.4.3. Algorithms

The following settings appear on the **Algorithms** tab:

#### XML canonicalization algorithm

The algorithm used to canonicalize XML documents.

The possible values for this property are:

```
http://www.w3.org/2001/10/xml-exc-c14n#
http://www.w3.org/2001/10/xml-exc-c14n#WithComments
http://www.w3.org/TR/2001/REC-xml-c14n-20010315
http://www.w3.org/TR/2001/REC-xml-c14n-20010315#WithComments
```

Default value: <http://www.w3.org/2001/10/xml-exc-c14n#>

**ssoadm** attribute: `canonicalizationAlgorithm`

#### XML signature algorithm

The algorithm used to sign XML documents.

The possible values for this property are:

```
http://www.w3.org/2000/09/xmldsig#rsa-sha1
http://www.w3.org/2000/09/xmldsig#hmac-sha1
http://www.w3.org/2000/09/xmldsig#dsa-sha1
http://www.w3.org/2001/04/xmldsig-more#rsa-md5
http://www.w3.org/2001/04/xmldsig-more#rsa-ripemd160
http://www.w3.org/2001/04/xmldsig-more#rsa-sha256
http://www.w3.org/2001/04/xmldsig-more#rsa-sha384
http://www.w3.org/2001/04/xmldsig-more#rsa-sha512
http://www.w3.org/2001/04/xmldsig-more#hmac-md5
http://www.w3.org/2001/04/xmldsig-more#hmac-ripemd160
http://www.w3.org/2001/04/xmldsig-more#hmac-sha256
http://www.w3.org/2001/04/xmldsig-more#hmac-sha384
http://www.w3.org/2001/04/xmldsig-more#hmac-sha512
```

Default value: <http://www.w3.org/2000/09/xmldsig#rsa-sha1>

**ssoadm** attribute: `signatureAlgorithm`

#### XML digest algorithm

The default digest algorithm to use in signing XML.

The possible values for this property are:

```
http://www.w3.org/2000/09/xmldsig#sha1
http://www.w3.org/2001/04/xmldsig-more#sha256
http://www.w3.org/2001/04/xmldsig-more#sha512
http://www.w3.org/2001/04/xmldsig-more#sha384
```

Default value: <http://www.w3.org/2000/09/xmldsig#sha1>

**ssoadm** attribute: `DigestAlgorithm`

### Query String signature algorithm (RSA)

The default signature algorithm to use in case of RSA keys.

The possible values for this property are:

```
http://www.w3.org/2000/09/xmldsig#rsa-sha1
http://www.w3.org/2001/04/xmldsig-more#rsa-sha256
http://www.w3.org/2001/04/xmldsig-more#rsa-sha384
http://www.w3.org/2001/04/xmldsig-more#rsa-sha512
```

Default value: `http://www.w3.org/2000/09/xmldsig#rsa-sha1`

**ssoadm** attribute: `QuerySignatureAlgorithmRSA`

### Query String signature algorithm (DSA)

The default signature algorithm to use in case of DSA keys.

The possible values for this property are:

```
http://www.w3.org/2000/09/xmldsig#dsa-sha1
```

Default value: `http://www.w3.org/2000/09/xmldsig#dsa-sha1`

**ssoadm** attribute: `QuerySignatureAlgorithmDSA`

### Query String signature algorithm (EC)

The default signature algorithm to use in case of EC keys.

The possible values for this property are:

```
http://www.w3.org/2001/04/xmldsig-more#ecdsa-sha1
http://www.w3.org/2001/04/xmldsig-more#ecdsa-sha256
http://www.w3.org/2001/04/xmldsig-more#ecdsa-sha384
http://www.w3.org/2001/04/xmldsig-more#ecdsa-sha512
```

Default value: `http://www.w3.org/2001/04/xmldsig-more#ecdsa-sha512`

**ssoadm** attribute: `QuerySignatureAlgorithmEC`

### XML transformation algorithm

The algorithm used to transform XML documents.

The possible values for this property are:

```
http://www.w3.org/2001/10/xml-exc-c14n#
http://www.w3.org/2001/10/xml-exc-c14n#WithComments
http://www.w3.org/TR/2001/REC-xml-c14n-20010315
http://www.w3.org/TR/2001/REC-xml-c14n-20010315#WithComments
```

```
http://www.w3.org/TR/1999/REC-xsdt-19991116
http://www.w3.org/2000/09/xmldsig#base64
http://www.w3.org/TR/1999/REC-xpath-19991116
http://www.w3.org/2000/09/xmldsig#enveloped-signature
http://www.w3.org/TR/2001/WD-xptr-20010108
http://www.w3.org/2002/04/xmldsig-filter2
http://www.w3.org/2002/06/xmldsig-filter2
http://www.nue.et-inf.uni-siegen.de/~geuer-pollmann/#xpathFilter
```

Default value: `http://www.w3.org/2001/10/xml-exc-c14n#`

**ssoadm** attribute: `transformationAlgorithm`

## 2.2.4.4. Monitoring

The following settings appear on the **Monitoring** tab:

### Monitoring Agent Provider Class

The Federation system uses this class to gain access to the monitoring system.

The default implementation uses the built-in OpenAM monitoring system. A custom implementation must implement the `com.sun.identity.plugin.monitoring.FedMonAgent` interface.

Default value: `com.sun.identity.plugin.monitoring.impl.AgentProvider`

**ssoadm** attribute: `monitoringAgentClass`

### Monitoring Provider Class for SAML1

The SAMLv1 engine uses this class to gain access to the monitoring system

The default implementation uses the built-in OpenAM monitoring system. A custom implementation must implement the `com.sun.identity.plugin.monitoring.FedMonSAML1Svc` interface.

Default value: `com.sun.identity.plugin.monitoring.impl.FedMonSAML1SvcProvider`

**ssoadm** attribute: `monitoringSaml1Class`

### Monitoring Provider Class for SAML2

The SAML2 engine uses this class to gain access to the monitoring system.

The default implementation uses the built-in OpenAM monitoring system. A custom implementation must implement the `com.sun.identity.plugin.monitoring.FedMonSAML2Svc` interface.

Default value: `com.sun.identity.plugin.monitoring.impl.FedMonSAML2SvcProvider`

**ssoadm** attribute: `monitoringSaml2Class`

### Monitoring Provider Class for ID-FF

The ID-FF engine uses this class to gain access to the monitoring system.

The default implementation uses the built-in OpenAM monitoring system. A custom implementation must implement the `com.sun.identity.plugin.monitoring.FedMonIDFFSvc` interface.

Default value: `com.sun.identity.plugin.monitoring.impl.FedMonIDFFSvcProvider`

**ssoadm** attribute: `monitoringIdffClass`

## 2.2.5. Dashboard

**ssoadm** service name: `dashboard`

### 2.2.5.1. Realm Defaults

The following settings appear on the *Realm Defaults* tab:

#### Available Dashboard Apps

List of application dashboard names available by default for realms with the Dashboard service configured.

**ssoadm** attribute: `assignedDashboard`

### 2.2.5.2. Secondary Configurations

This service has the following Secondary Configurations.

#### 2.2.5.2.1. instances

##### Dashboard Class Name

Identifies how to access the application, for example `SAML2ApplicationClass` for a SAML v2.0 application.

**ssoadm** attribute: `className`

##### Dashboard Name

The application name as it will appear to the administrator for configuring the dashboard.

**ssoadm** attribute: `name`

##### Dashboard Display Name

The application name that displays on the dashboard client.

**ssoadm** attribute: `displayName`

##### Dashboard Icon

The icon name that will be displayed on the dashboard client identifying the application.

**ssoadm** attribute: `icon`

### Dashboard Login

The URL that takes the user to the application.

**ssoadm** attribute: `login`

### ICF Identifier

**ssoadm** attribute: `icfIdentifier`

## 2.2.6. Email Service

**ssoadm** service name: `email`

### 2.2.6.1. Realm Defaults

The following settings appear on the *Realm Defaults* tab:

#### Email Message Implementation Class

Specifies the class that sends email notifications, such as those sent for user registration and forgotten passwords.

Default value: `org.forgerock.openam.services.email.MailServerImpl`

**ssoadm** attribute: `emailImplClassName`

#### Mail Server Host Name

Specifies the fully qualified domain name of the SMTP mail server through which to send email notifications.

For example, you might set this property to: `smtp.example.com`

**ssoadm** attribute: `hostname`

#### Mail Server Host Port

Specifies the port number for the SMTP mail server.

Default value: `465`

**ssoadm** attribute: `port`

#### Mail Server Authentication Username

Specifies the user name for the SMTP mail server.

For example, you might set this property to: `username`

**ssoadm** attribute: `username`

## Mail Server Authentication Password

Specifies the password for the SMTP user name.

**ssoadm** attribute: `password`

## Mail Server Secure Connection

Specifies whether to connect to the SMTP mail server using SSL.

The possible values for this property are:

SSL  
Non SSL

Default value: `SSL`

**ssoadm** attribute: `sslState`

## Email From Address

Specifies the address from which to send email notifications.

For example, you might set this property to: `no-reply@example.com`

**ssoadm** attribute: `from`

## Email Attribute Name

Specifies the profile attribute from which to retrieve the end user's email address.

Default value: `mail`

**ssoadm** attribute: `emailAddressAttribute`

## Email Subject

Specifies a subject for notification messages. If you do not set this, OpenAM does not set the subject for notification messages.

**ssoadm** attribute: `subject`

## Email Content

Specifies content for notification messages. If you do not set this, OpenAM includes only the confirmation URL in the mail body.

**ssoadm** attribute: `message`

## 2.2.7. ForgeRock Authenticator (OATH) Service

**ssoadm** service name: `authenticatorOathService`



### 2.2.7.1. Realm Defaults

The following settings appear on the *Realm Defaults* tab:

#### Profile Storage Attribute

Attribute for storing ForgeRock Authenticator OATH profiles.

The default attribute is added to the user store during OpenAM installation. If you want to use a different attribute, you must make sure to add it to your user store schema prior to deploying two-step verification with a ForgeRock OATH authenticator app in OpenAM. OpenAM must be able to write to the attribute.

Default value: `oathDeviceProfiles`

**ssoadm** attribute: `oathAttrName`

#### Device Profile Encryption Scheme

Encryption scheme for securing device profiles stored on the server.

If enabled, each device profile is encrypted using a unique random secret key using the given strength of AES encryption in CBC mode with PKCS#5 padding. A HMAC-SHA of the given strength (truncated to half-size) is used to ensure integrity protection and authenticated encryption. The unique random key is encrypted with the given RSA key-pair and stored with the device profile.

*Note:* AES-256 may require installation of the JCE Unlimited Strength policy files.

The possible values for this property are:

```
RSAES_AES256CBC_HS512
RSAES_AES128CBC_HS256
NONE
```

Default value: `NONE`

**ssoadm** attribute: `authenticatorOATHDeviceSettingsEncryptionScheme`

#### Encryption Key Store

Path to the keystore from which to load encryption keys.

Default value: `/path/to/openam/openam/keystore.jks`

**ssoadm** attribute: `authenticatorOATHDeviceSettingsEncryptionKeystore`

#### Key Store Type

Type of encryption keystore.

*Note:* PKCS#11 keystores require hardware support such as a security device or smart card and is not available by default in most JVM installations.

See the [JDK 8 PKCS#11 Reference Guide](#) for more details.

The possible values for this property are:

```
JKS
JCEKS
PKCS11
PKCS12
```

Default value: `JKS`

**ssoadm** attribute: `authenticatorOATHDeviceSettingsEncryptionKeystoreType`

### Key Store Password

Password to unlock the keystore. This password will be encrypted.

**ssoadm** attribute: `authenticatorOATHDeviceSettingsEncryptionKeystorePassword`

### Key-Pair Alias

Alias of the certificate and private key in the keystore. The private key is used to encrypt and decrypt device profiles.

**ssoadm** attribute: `authenticatorOATHDeviceSettingsEncryptionKeystoreKeyPairAlias`

### Private Key Password

Password to unlock the private key.

**ssoadm** attribute: `authenticatorOATHDeviceSettingsEncryptionKeystorePrivateKeyPassword`

### ForgeRock Authenticator (OATH) Device Skippable Attribute Name

The data store attribute that holds the user's decision to enable or disable obtaining and providing a password obtained from the ForgeRock Authenticator app. This attribute must be writeable.

Default value: `oath2faEnabled`

**ssoadm** attribute: `authenticatorOATHSkippableName`

## 2.2.8. ForgeRock Authenticator (Push) Service

**ssoadm** service name: `authenticatorPushService`

### 2.2.8.1. Realm Defaults

The following settings appear on the *Realm Defaults* tab:

#### Profile Storage Attribute

The user's attribute in which to store Push Notification profiles.

The default attribute is added to the schema when you prepare a user store for use with OpenAM. If you want to use a different attribute, you must make sure to add it to your user store schema prior to deploying push notifications with the ForgeRock Authenticator app in OpenAM. OpenAM must be able to write to the attribute.

Default value: `pushDeviceProfiles`

**ssoadm** attribute: `pushAttrName`

## Device Profile Encryption Scheme

Encryption scheme to use to secure device profiles stored on the server.

If enabled, each device profile is encrypted using a unique random secret key using the given strength of AES encryption in CBC mode with PKCS#5 padding. A HMAC-SHA of the given strength (truncated to half-size) is used to ensure integrity protection and authenticated encryption. The unique random key is encrypted with the given RSA key-pair and stored with the device profile.

*Note:* AES-256 may require installation of the JCE Unlimited Strength policy files.

The possible values for this property are:

```
RSAES_AES256CBC_HS512
RSAES_AES128CBC_HS256
NONE
```

Default value: `NONE`

**ssoadm** attribute: `authenticatorPushDeviceSettingsEncryptionScheme`

## Encryption Key Store

Path to the keystore from which to load encryption keys.

Default value: `/path/to/openam/openam/keystore.jks`

**ssoadm** attribute: `authenticatorPushDeviceSettingsEncryptionKeystore`

## Key Store Type

Type of KeyStore to load.

*Note:* PKCS#11 keystores require hardware support such as a security device or smart card and is not available by default in most JVM installations.

See the [JDK 8 PKCS#11 Reference Guide](#) for more details.

The possible values for this property are:

```
JKS
JCEKS
```

PKCS11  
PKCS12

Default value: **JKS**

**ssoadm** attribute: **authenticatorPushDeviceSettingsEncryptionKeystoreType**

## Key Store Password

Password to unlock the keystore. This password is encrypted when it is saved in the OpenAM configuration. You should modify the default value.

**ssoadm** attribute: **authenticatorPushDeviceSettingsEncryptionKeystorePassword**

## Key-Pair Alias

Alias of the certificate and private key in the keystore. The private key is used to encrypt and decrypt device profiles.

**ssoadm** attribute: **authenticatorPushDeviceSettingsEncryptionKeystoreKeyPairAlias**

## Private Key Password

Password to unlock the private key.

**ssoadm** attribute: **authenticatorPushDeviceSettingsEncryptionKeystorePrivateKeyPassword**

## 2.2.9. Globalization Settings

**ssoadm** service name: **globalization**

### 2.2.9.1. Global Attributes

The following settings appear on the **Global Attributes** tab:

#### Charsets Supported by Each Locale

This table lets you configure the order of supported character sets used for each supported locale. Change the settings only if the defaults are not appropriate.

Default value:

```
locale=zh|charset=UTF-8;GB2312
locale=ar|charset=UTF-8;ISO-8859-6
locale=es|charset=UTF-8;ISO-8859-15
locale=de|charset=UTF-8;ISO-8859-15
locale=zh_TW|charset=UTF-8;BIG5
locale=fr|charset=UTF-8;ISO-8859-15
locale=en|charset=UTF-8;ISO-8859-1
locale=ko|charset=UTF-8;EUC-KR
locale=th|charset=UTF-8;TIS-620
locale=ja|charset=UTF-8;Shift_JIS;EUC-JP
```

**ssoadm** attribute: `charsetMappings`

## Charset Aliases

Use this list to map between different character set names used in Java and in MIME.

Default value:

```
mimeName=EUC-KR|javaName=EUC_KR
mimeName=EUC-JP|javaName=EUC_JP
mimeName=Shift_JIS|javaName=Shift_JIS
```

**ssoadm** attribute: `sun-identity-glnn-settings-charset-alias-mapping`

## 2.2.9.2. Realm Defaults

The following settings appear on the *Realm Defaults* tab:

### Auto Generated Common Name Format

Use this list to configure how OpenAM formats names shown in the console banner.

This setting allows the name of the authenticated user shown in the OpenAM console banner to be customised based on the locale of the user.

Default value: `zh={sn}{givenname}`

**ssoadm** attribute: `commonNameFormats`

## 2.2.10. Legacy User Self Service

**ssoadm** service name: `security`

### 2.2.10.1. Realm Defaults

The following settings appear on the *Realm Defaults* tab:

#### Legacy Self-Service REST Endpoint

Specify whether to enable the legacy self-service endpoint.

OpenAM supports two User Self-Service components: the Legacy User Self-Service, which is based on a Java SDK and is available in OpenAM versions prior to OpenAM 13, and a common REST-based/XUI-based User Self-Service available in OpenAM 13 and later.

The Legacy User Self-Service will be deprecated in a future release.

Default value: `false`

**ssoadm** attribute: `selfServiceEnabled`

## Self-Registration for Users

If enabled, new users can sign up using a REST API client.

Default value: `false`

**ssoadm** attribute: `selfRegistrationEnabled`

## Self-Registration Token LifeTime (seconds)

Maximum life time for the token allowing User Self-Registration using the REST API.

Default value: `900`

**ssoadm** attribute: `selfRegistrationTokenLifetime`

## Self-Registration Confirmation Email URL

This page handles the HTTP GET request when the user clicks the link sent by email in the confirmation request.

Default value: `http://openam.example.com:8080/openam/XUI/confirm.html`

**ssoadm** attribute: `selfRegistrationConfirmationUrl`

## Forgot Password for Users

If enabled, users can assign themselves a new password using a REST API client.

Default value: `false`

**ssoadm** attribute: `forgotPasswordEnabled`

## Forgot Password Token Lifetime (seconds)

Maximum life time for the token that allows a user to process a forgotten password using the REST API.

Default value: `900`

**ssoadm** attribute: `forgotPasswordTokenLifetime`

## Forgot Password Confirmation Email URL

This page handles the HTTP GET request when the user clicks the link sent by email in the confirmation request.

Default value: `http://openam.example.com:8080/openam/XUI/confirm.html`

**ssoadm** attribute: `forgotPasswordConfirmationUrl`

## Destination After Successful Self-Registration

Specifies the behavior when self-registration has successfully completed.

The possible values for this property are:

```
default
login
autologin
```

Default value: **default**

**ssoadm** attribute: **userRegisteredDestination**

## Protected User Attributes

A list of user profile attributes. Users modifying any of the attributes in this list will be required to enter a password as confirmation before the change is accepted. This option applies to XUI deployments only.

**ssoadm** attribute: **protectedUserAttributes**

## 2.2.11. Logging

**ssoadm** service name: **logging**

### 2.2.11.1. General

The following settings appear on the **General** tab:

#### Log Status

Enable the OpenAM logging system.

OpenAM supports two Audit Logging Services: the legacy Logging Service, which is based on a Java SDK and is available in OpenAM versions prior to OpenAM 13.5, and a new common REST-based Audit Logging Service available from OpenAM 13.5.

The legacy Logging Service will be deprecated in a future release.

The possible values for this property are:

```
ACTIVE
INACTIVE
```

Default value: **INACTIVE**

**ssoadm** attribute: **status**

#### Log Record Resolve Host Name

Enable this to have OpenAM perform a DNS host lookup to populate the host name field for log records.

*Note:* Enabling this functionality will increase the load of the logging system and the OpenAM host must have DNS configured.

Default value: `false`

**ssoadm** attribute: `resolveHostName`

## Logging Type

Specifies whether to log to a database, Syslog, or to the filing system.

If you choose database then be sure to set the connection attributes correctly, including the JDBC driver to use.

The possible values for this property are:

```
File
DB
Syslog
```

Default value: `File`

**ssoadm** attribute: `type`

## Configurable Log Fields

Controls the fields that are logged by OpenAM.

This property is the list of fields that are logged by default. Administrators can choose to limit the information logged by OpenAM.

Default value:

```
IPAddr
LoggedBy
LoginID
NameID
ModuleName
ContextID
Domain
LogLevel
HostName
MessageID
```

**ssoadm** attribute: `fields`

## Log Verification Frequency

The frequency (in seconds) that OpenAM verifies security of the log files.

When secure logging is enabled, this is the period that OpenAM will check the integrity of the log files.

Default value: `3600`

**ssoadm** attribute: `verifyPeriod`



## Log Signature Time

The frequency (in seconds) that OpenAM will digitally sign the log records.

When secure logging is enabled, this is the period that OpenAM will digitally signed the contents of the log files. The log signatures form the basis of the log file integrity checking.

Default value: 900

**ssoadm** attribute: `signaturePeriod`

## Secure Logging

Enable or Disable secure logging.

Enabling this setting will cause OpenAM to digitally sign and verify the contents of the log files to help prevent and detect log file tampering. A certificate must be configured for this functionality to be enabled.

The possible values for this property are:

```
ON  
OFF
```

Default value: OFF

**ssoadm** attribute: `security`

## Secure Logging Signing Algorithm

Determines the algorithm used to digitally sign the log records.

The possible values for this property are:

```
MD2withRSA  
MD5withRSA  
SHA1withDSA  
SHA1withRSA
```

Default value: SHA1withRSA

**ssoadm** attribute: `signingAlgorithm`

## Logging Certificate Store Location

The path to the Java keystore containing the logging system certificate.

The secure logging system will use the certificate alias of `Logger` to locate the certificate in the specified keystore.

Default value: `%BASE_DIR%/%SERVER_URI%/Logger.jks`

**ssoadm** attribute: `certificateStore`

## Number of Files per Archive

Controls the number of logs files that will be archived by the secure logging system.

Default value: 5

**ssoadm** attribute: `filesPerKeystore`

## Buffer Size

The number of log records held in memory before the log records will be flushed to the logfile or the database.

Default value: 25

**ssoadm** attribute: `bufferSize`

## Buffer Time

The maximum time (in seconds) OpenAM will hold log records in memory before flushing to the underlying repository.

Default value: 60

**ssoadm** attribute: `bufferTime`

## Time Buffering

Enable or Disable log buffering

When enabled OpenAM holds all log records in a memory buffer that it periodically flush to the repository. The period is set in the *Buffer Time* property.

The possible values for this property are:

```
ON
OFF
```

Default value: ON

**ssoadm** attribute: `buffering`

## Logging Level

Control the level of JDK logging within OpenAM.

The possible values for this property are:

```
OFF
SEVERE
WARNING
INFO
CONFIG
FINE
```

FINER  
FINEST

Default value: **INFO**

**ssoadm** attribute: **jdkLogLevel**

## 2.2.11.2. File

The following settings appear on the **File** tab:

### Log Rotation

Enable log rotation to cause new log files to be created when configured thresholds are reached, such as *Maximum Log Size* or *Logfile Rotation Interval*.

Default value: **true**

**ssoadm** attribute: **rotationEnabled**

### Maximum Log Size

Maximum size of a log file, in bytes.

Default value: **100000000**

**ssoadm** attribute: **maxFileSize**

### Number of History Files

Sets the number of history files for each log that OpenAM keeps, including time-based histories.

The previously live file is moved and is included in the history count, and a new log is created to serve as the live log file. Any log file in the history count that goes over the number specified here will be deleted.

For time-based logs, a new set of logs will be created when OpenAM is started because of the time-based file names that are used.

Default value: **1**

**ssoadm** attribute: **numberHistoryFiles**

### Logfile Rotation Prefix

The name of the log files will be prefixed with the supplied value.

This field defines the log file prefix. The prefix will be added to the name of all logfiles.

*Note:* Only used when time-based log rotation is enabled.

**ssoadm** attribute: **prefix**

## Logfile Rotation Suffix

The name of the log files will be suffixed with the supplied value.

This field defines the log file suffix. If no suffix is provided, then the following default suffix format will be used: `-MM.dd.yy-kk.mm`. The suffix allows use of Date and Time patterns defined in `SimpleDateFormat`

*Note:* This field is only used if the time based rotation is enabled.

Default value: `-MM.dd.yy-kk.mm`

**ssoadm** attribute: `suffix`

## Logfile Rotation Interval

The rotation interval (in minutes).

The rotation interval determines the frequency of when the log files will be rotated. If the value is `-1`, then time based rotation is disabled and log file size based rotation is enabled.

Default value: `-1`

**ssoadm** attribute: `rotationInterval`

## Log File Location

The path to the location of the log files

This property controls the location of the log files; the value of this property varies on whether File or DB logging is in use:

- File: The full pathname to the directory containing the log files.
- DB: The JDBC URL to the database used to store the log file database.

Default value: `%BASE_DIR%/SERVER_URI%/log/`

**ssoadm** attribute: `location`

### 2.2.11.3. Database

The following settings appear on the **Database** tab:

#### Database User Name

When logging to a database, set this to the user name used to connect to the database. If this attribute is incorrectly set, OpenAM performance suffers.

Default value: `dbuser`

**ssoadm** attribute: `user`

### Database User Password

When logging to a database, set this to the password used to connect to the database. If this attribute is incorrectly set, OpenAM performance suffers.

**ssoadm** attribute: `password`

### Database Driver Name

When logging to a database, set this to the class name of the JDBC driver used to connect to the database.

The default is for Oracle. OpenAM also works with the MySQL database driver.

Default value: `oracle.jdbc.driver.OracleDriver`

**ssoadm** attribute: `driver`

### Maximum Number of Records

The maximum number of records read from the logs via the Logging API

Default value: `500`

**ssoadm** attribute: `maxRecords`

### DB Failure Memory Buffer Size

Max number of log records held in memory if DB logging fails.

This is the maximum number of log records that will be held in memory if the database is unavailable. When the buffer is full, new log records cause the oldest record in the buffer to be cleared. OpenAM monitoring records the number of log entries cleared when the database was unavailable.

If the value of this property is less than that of the *Buffer Size* then the buffer size value will take precedence.

Default value: `2`

**ssoadm** attribute: `databaseFailureMemoryBufferSize`

## 2.2.11.4. Syslog

The following settings appear on the **Syslog** tab:

### Syslog server host

The URL or IP address of the syslog server, for example `http://mysyslog.example.com`, or `localhost`.

Default value: `localhost`

**ssoadm** attribute: `host`

### Syslog server port

The port number the syslog server is configured to listen to.

Default value: 514

**ssoadm** attribute: port

### Syslog transport protocol

The protocol to use to connect to the syslog server.

The possible values for this property are:

```
UDP
TCP
```

Default value: UDP

**ssoadm** attribute: protocol

### Syslog facility

Syslog uses the facility level to determine the type of program that is logging the message.

The possible values for this property are:

```
kern
user
mail
daemon
auth
syslog
lpr
news
uucp
cron
authpriv
ftp
local0
local1
local2
local3
local4
local5
local6
local7
```

Default value: local5

**ssoadm** attribute: facility

### Syslog connection timeout

The amount of time to wait when attempting to connect to the syslog server before reporting a failure, in seconds.

Default value: 30

**ssoadm** attribute: timeout

## 2.2.12. Monitoring

**ssoadm** service name: monitoring

The following settings are available in this service:

### Monitoring Status

Enable / Disable the monitoring system

Default value: false

**ssoadm** attribute: enabled

### Monitoring HTTP Port

Port number for the HTTP monitoring interface

Default value: 8082

**ssoadm** attribute: httpPort

### Monitoring HTTP interface status

Enable / Disable the HTTP access to the monitoring system

Default value: false

**ssoadm** attribute: httpEnabled

### Monitoring HTTP interface authentication file path

Path to the monitoring system authentication file

The `openam_mon_auth` file contains the username and password of the account used to protect the monitoring interfaces. The default username is `demo` with a password of `changeit`. Use the `ampassword` command to encrypt a new password.

Default value: %BASE\_DIR%/SERVER\_URI%/openam\_mon\_auth

**ssoadm** attribute: authfilePath

### Monitoring RMI Port

Port number for the JMX monitoring interface

Default value: 9999

**ssoadm** attribute: `rmiPort`

### Monitoring RMI interface status

Enable / Disable the JMX access to the monitoring system

Default value: `false`

**ssoadm** attribute: `rmiEnabled`

### Monitoring SNMP Port

Port number for the SNMP monitoring interface

Default value: `8085`

**ssoadm** attribute: `snmpPort`

### Monitoring SNMP interface status

Enable / Disable the SNMP access to the monitoring system

Default value: `false`

**ssoadm** attribute: `snmpEnabled`

### Policy evaluation monitoring history size

Size of the window of most recent policy evaluations to record to expose via monitoring system.  
Valid range is 100 - 1000000.

Default value: `10000`

**ssoadm** attribute: `policyHistoryWindowSize`

### Session monitoring history size

Size of the window of most recent session operations to record to expose via monitoring system.  
Valid range is 100 - 1000000.

Default value: `10000`

**ssoadm** attribute: `sessionHistoryWindowSize`

## 2.2.13. Multi-Federation Protocol

**ssoadm** service name: `federation/multi`

The following settings are available in this service:

### Single Logout Handler List

List of Logout handlers for each supported federation protocol



The multi-federation protocol engine supports Single Logout. Each federation protocol requires a different single logout handler. Logout handler must implement the `com.sun.identity.multiprotocol.SingleLogoutHandler` interface.

Default value:

```
key=IDFF|class=com.sun.identity.multiprotocol.IDFFSingleLogoutHandler
key=WSFED|class=com.sun.identity.multiprotocol.WSFederationSingleLogoutHandler
key=SAML2|class=com.sun.identity.multiprotocol.SAML2SingleLogoutHandler
```

**ssoadm** attribute: `singleLogoutHandlerList`

## 2.2.14. Naming

**ssoadm** service name: `naming`

### 2.2.14.1. General Configuration

The following settings appear on the **General Configuration** tab:

#### Profile Service URL

Specifies the endpoint used by the profile service.

This attribute is deprecated.

Default value: `%protocol://%host:%port%uri/profileservice`

**ssoadm** attribute: `profileUrl`

#### Session Service URL

Specifies the endpoint used by the session service.

Default value: `%protocol://%host:%port%uri/sessionservice`

**ssoadm** attribute: `sessionUrl`

#### Logging Service URL

Specifies the endpoint used by the logging service.

Default value: `%protocol://%host:%port%uri/loggingservice`

**ssoadm** attribute: `loggingUrl`

#### Policy Service URL

Specifies the endpoint used by the policy service.

Default value: `%protocol://%host:%port%uri/policyservice`

**ssoadm** attribute: `policyUrl`

### Authentication Service URL

Specifies the endpoint used by the authentication service.

Default value: `%protocol://%host:%port%uri/authservice`

**ssoadm** attribute: `authUrl`

## 2.2.14.2. Federation Configuration

The following settings appear on the **Federation Configuration** tab:

### SAML Web Profile/Artifact Service URL

Specifies the SAML v1 endpoint.

Default value: `%protocol://%host:%port%uri/SAMLAwareServlet`

**ssoadm** attribute: `samlAwareServletUrl`

### SAML SOAP Service URL

Specifies the SAML v1 SOAP service endpoint.

Default value: `%protocol://%host:%port%uri/SAMLSOAPReceiver`

**ssoadm** attribute: `samlSoapReceiverUrl`

### SAML Web Profile/POST Service URL

Specifies the SAML v1 Web Profile endpoint.

Default value: `%protocol://%host:%port%uri/SAMLPOSTProfileServlet`

**ssoadm** attribute: `samlPostServletUrl`

### SAML Assertion Manager Service URL

Specifies the SAML v1 assertion service endpoint.

Default value: `%protocol://%host:%port%uri/AssertionManagerServlet/AssertionManagerIF`

**ssoadm** attribute: `samlAssertionManagerUrl`

### JAXRPC Endpoint URL

Specifies the JAXRPC endpoint URL used by the remote IDM/SMS APIs.

Default value: `%protocol://%host:%port%uri/jaxrpc/`

**ssoadm** attribute: `jaxrpcUrl`

### 2.2.14.3. Endpoint Configuration

The following settings appear on the **Endpoint Configuration** tab:

#### **Federation Assertion Manager Service URL**

Specifies the ID-FF assertion manager endpoint.

Default value: `%protocol://%host:%port%uri/FSAssertionManagerServlet/FSAssertionManagerIF`

**ssoadm** attribute: `federationAssertionManagerUrl`

#### **Security Token Manager URL**

Specifies the security token manager endpoint.

Default value: `%protocol://%host:%port%uri/SecurityTokenManagerServlet/SecurityTokenManagerIF`

**ssoadm** attribute: `securityTokenManagerUrl`

#### **Identity Web Services Endpoint URL**

Specifies the endpoint for the Identity WSDL services.

Default value: `%protocol://%host:%port%uri/identityservices/`

**ssoadm** attribute: `jaxwsUrl`

#### **Identity REST Services Endpoint URL**

Specifies the endpoint for the Identity REST services.

Default value: `%protocol://%host:%port%uri/identity/`

**ssoadm** attribute: `idsvcsRestUrl`

#### **Security Token Service Endpoint URL**

Specifies the STS endpoint.

Default value: `%protocol://%host:%port%uri/sts`

**ssoadm** attribute: `stsUrl`

#### **Security Token Service MEX Endpoint URL**

Specifies the STS MEX endpoint.

Default value: `%protocol://%host:%port%uri/sts/mex`

**ssoadm** attribute: `stsMexUrl`

### 2.2.15. OAuth2 Provider

**ssoadm** service name: `oauth-oidc`

### 2.2.15.1. Global Attributes

The following settings appear on the **Global Attributes** tab:

#### Token Blacklist Cache Size

Number of blacklisted tokens to cache in memory to speed up blacklist checks and reduce load on the CTS.

Default value: `10000`

**ssoadm** attribute: `blacklistCacheSize`

#### Blacklist Poll Interval (seconds)

How frequently to poll for token blacklist changes from other servers, in seconds.

How often each server will poll the CTS for token blacklist changes from other servers. This is used to maintain a highly compressed view of the overall current token blacklist improving performance. A lower number will reduce the delay for blacklisted tokens to propagate to all servers at the cost of increased CTS load. Set to 0 to disable this feature completely.

Default value: `60`

**ssoadm** attribute: `blacklistPollInterval`

#### Blacklist Purge Delay (minutes)

Length of time to blacklist tokens beyond their expiry time.

Allows additional time to account for clock skew to ensure that a token has expired before it is removed from the blacklist.

Default value: `1`

**ssoadm** attribute: `blacklistPurgeDelay`

#### HMAC ID Token Authenticity Secret

A secret to use when signing a claim in HMAC-signed ID tokens so that authenticity can be assured when they are presented back to OpenAM.

Default value: `0ERl/2qAqqQTW0wvLrTsUH2icdnRqKE3tzD+UBi08iY=`

**ssoadm** attribute: `idTokenAuthenticitySecret`

#### ID Token Signing Key Alias for Agent Clients

The alias for the RSA key that should be used signing ID tokens for Agent OAuth2 Clients

Default value: `test`

**ssoadm** attribute: `agentIdTokenSigningKeyAlias`

## 2.2.15.2. Core

The following settings appear on the **Core** tab:

### Use Stateless Access & Refresh Tokens

When enabled, OpenAM issues access and refresh tokens that can be inspected by resource servers.

Default value: `false`

**ssoadm** attribute: `statelessTokensEnabled`

### Authorization Code Lifetime (seconds)

The time an authorization code is valid for, in seconds.

Default value: `120`

**ssoadm** attribute: `codeLifetime`

### Refresh Token Lifetime (seconds)

The time in seconds a refresh token is valid for. If this field is set to `-1`, the token will never expire.

Default value: `604800`

**ssoadm** attribute: `refreshTokenLifetime`

### Access Token Lifetime (seconds)

The time an access token is valid for, in seconds.

Default value: `3600`

**ssoadm** attribute: `accessTokenLifetime`

### Issue Refresh Tokens

Whether to issue a refresh token when returning an access token.

Default value: `true`

**ssoadm** attribute: `issueRefreshToken`

### Issue Refresh Tokens on Refreshing Access Tokens

Whether to issue a refresh token when refreshing an access token.

Default value: `true`

**ssoadm** attribute: `issueRefreshTokenOnRefreshedToken`

## Saved Consent Attribute Name

Name of a multi-valued attribute on resource owner profiles where OpenAM can save authorization consent decisions.

When the resource owner chooses to save the decision to authorize access for a client application, then OpenAM updates the resource owner's profile to avoid having to prompt the resource owner to grant authorization when the client issues subsequent authorization requests.

**ssoadm** attribute: `savedConsentAttribute`

## 2.2.15.3. Advanced

The following settings appear on the **Advanced** tab:

### Custom Login URL Template

Custom URL for handling login, to override the default OpenAM login page.

Supports Freemarker syntax, with the following variables:

Variable	Description
<code>gotoUrl</code>	The URL to redirect to after login.
<code>acrValues</code>	The Authentication Context Class Reference (acr) values for the authorization request.
<code>realm</code>	The OpenAM realm the authorization request was made on.
<code>module</code>	The name of the OpenAM authentication module requested to perform resource owner authentication.
<code>service</code>	The name of the OpenAM authentication chain requested to perform resource owner authentication.
<code>locale</code>	A space-separated list of locales, ordered by preference.

The following example template redirects users to a non-OpenAM front end to handle login, which will then redirect back to the `/oauth2/authorize` endpoint with any required parameters:

```
http://mylogin.com/login?goto=${goto}<#if acrValues??>&acr_values=${acrValues}</#if><#if realm??>&realm=${realm}</#if><#if module??>&module=${module}</#if><#if service??>&service=${service}</#if><#if locale??>&locale=${locale}</#if>
```

**ssoadm** attribute: `customLoginUrlTemplate`

### Scope Implementation Class

The class that contains the required scope implementation, must implement the `org.forgerock.oauth2.core.ScopeValidator` interface.

Default value: `org.forgerock.openam.oauth2.OpenAMScopeValidator`

**ssoadm** attribute: `scopeImplementationClass`

## Response Type Plugins

List of plugins that handle the valid `response_type` values.

OAuth 2.0 clients pass response types as parameters to the OAuth 2.0 Authorization endpoint (`/oauth2/authorize`) to indicate which grant type is requested from the provider. For example, the client passes `code` when requesting an authorization code, and `token` when requesting an access token.

Values in this list take the form `response-type|plugin-class-name`.

Default value:

```
code|org.forgerock.oauth2.core.AuthorizationCodeResponseTypeHandler
device_code|org.forgerock.oauth2.core.TokenResponseTypeHandler
token|org.forgerock.oauth2.core.TokenResponseTypeHandler
```

**ssoadm** attribute: `responseTypeClasses`

## User Profile Attribute(s) the Resource Owner is Authenticated On

Names of profile attributes that resource owners use to log in. You can add others to the default, for example `mail`.

Default value: `uid`

**ssoadm** attribute: `authenticationAttributes`

## User Display Name attribute

The profile attribute that contains the name to be displayed for the user on the consent page.

Default value: `cn`

**ssoadm** attribute: `displayNameAttribute`

## Supported Scopes

The set of supported scopes, with translations.

Scopes may be entered as simple strings or pipe-separated strings representing the internal scope name, locale, and localized description.

For example: `read|en|Permission to view email messages in your account`

Locale strings are in the format: `language_country_variant`, for example `en`, `en_GB`, or `en_US_WIN`.

If the locale and pipe is omitted, the description is displayed to all users that have undefined locales.

If the description is also omitted, nothing is displayed on the consent page for the scope. For example specifying `read` would allow the scope read to be used by the client, but would not display it to the user on the consent page when requested.

**ssoadm** attribute: `supportedScopes`

### Subject Types supported

List of subject types supported. Valid values are:

- `public` - Each client receives the same subject (`sub`) value.
- `pairwise` - Each client receives a different subject (`sub`) value, to prevent correlation between clients.

Default value: `public`

**ssoadm** attribute: `supportedSubjectTypes`

### Default Client Scopes

List of scopes a client will be granted if they request registration without specifying which scopes they want. Default scopes are NOT auto-granted to clients created through the OpenAM console.

**ssoadm** attribute: `defaultScopes`

### OAuth2 Token Signing Algorithm

Algorithm used to sign stateless OAuth 2.0 tokens in order to detect tampering.

OpenAM supports signing algorithms listed in JSON Web Algorithms (JWA): "alg" (Algorithm) Header Parameter Values for JWS:

- `HS256` - HMAC with SHA-256.
- `HS384` - HMAC with SHA-384.
- `HS512` - HMAC with SHA-512.
- `ES256` - ECDSA with SHA-256 and NIST standard P-256 elliptic curve.
- `ES384` - ECDSA with SHA-384 and NIST standard P-384 elliptic curve.
- `ES512` - ECDSA with SHA-512 and NIST standard P-521 elliptic curve.
- `RS256` - RSASSA-PKCS-v1\_5 using SHA-256.

The possible values for this property are:

```
HS256
HS384
HS512
RS256
ES256
```



```
ES384
ES512
```

Default value: `HS256`

**ssoadm** attribute: `tokenSigningAlgorithm`

## Stateless Token Compression

Whether stateless access and refresh tokens should be compressed.

**ssoadm** attribute: `tokenCompressionEnabled`

## Token Signing HMAC Shared Secret

Base64-encoded key used by HS256, HS384 and HS512.

Default value: `0ERl/2qAqqQTW0wvLrTsUH2icdnRqKE3tzD+UBi08iY=`

**ssoadm** attribute: `tokenSigningHmacSharedSecret`

## Token Signing RSA public/private key pair

The public/private key pair used by RS256.

The public/private key pair will be retrieved from the keystore referenced by the property `com.sun.identity.saml.xmlsig.keystore`.

Default value: `test`

**ssoadm** attribute: `keypairName`

## Token Signing ECDSA public/private key pair alias

The list of public/private key pairs used for the elliptic curve algorithms (ES256/ES384/ES512). Add an entry to specify an alias for a specific elliptic curve algorithm, for example `ES256|es256Alias`.

Each of the public/private key pairs will be retrieved from the keystore referenced by the property `com.sun.identity.saml.xmlsig.keystore`.

Default value:

```
ES512|es512test
ES384|es384test
ES256|es256test
```

**ssoadm** attribute: `tokenSigningECDSAKeyAlias`

## Subject identifier hash salt

If *pairwise* subject types are supported, it is *STRONGLY RECOMMENDED* to change this value. It is used in the salting of hashes for returning specific `sub` claims to individuals using the same `request_uri` or `sector_identifier_uri`.

For example, you might set this property to: *changeme*

**ssoadm** attribute: `hashSalt`

### Code verifier parameter required

If enabled, requests using the authorization code grant require a `code_challenge` attribute.

For more information, read the [draft specification](#) for this feature.

Default value: `false`

**ssoadm** attribute: `codeVerifierEnforced`

### Modified Timestamp attribute name

The identity Data Store attribute used to return modified timestamp values.

**ssoadm** attribute: `modifiedTimestampAttribute`

### Created Timestamp attribute name

The identity Data Store attribute used to return created timestamp values.

**ssoadm** attribute: `createdTimestampAttribute`

### Allow clients to skip consent

If enabled, clients may be configured so that the resource owner will not be asked for consent during authorization flows.

Default value: `false`

**ssoadm** attribute: `clientsCanSkipConsent`

### Enable auth module messages for Password Credentials Grant

If enabled, authentication module failure messages are used to create Resource Owner Password Credentials Grant failure messages. If disabled, a standard authentication failed message is used.

The Password Grant Type requires the `grant_type=password` parameter.

Default value: `false`

**ssoadm** attribute: `moduleMessageEnabledInPasswordGrant`

## 2.2.15.4. OpenID Connect

The following settings appear on the **OpenID Connect** tab:

### OIDC Claims Script

The script that is run when issuing an ID token or making a request to the *userinfo* endpoint during OpenID requests.

The script gathers the scopes and populates claims, and has access to the access token, the user's identity and, if available, the user's session.

The possible values for this property are:

```
OIDC Claims Script
```

Default value: `OIDC Claims Script`

**ssoadm** attribute: `oidcClaimsScript`

## ID Token Signing Algorithms supported

Algorithms supported to sign OpenID Connect `id_tokens`.

OpenAM supports signing algorithms listed in JSON Web Algorithms (JWA): "alg" (Algorithm) Header Parameter Values for JWS:

- `HS256` - HMAC with SHA-256.
- `HS384` - HMAC with SHA-384.
- `HS512` - HMAC with SHA-512.
- `ES256` - ECDSA with SHA-256 and NIST standard P-256 elliptic curve.
- `ES384` - ECDSA with SHA-384 and NIST standard P-384 elliptic curve.
- `ES512` - ECDSA with SHA-512 and NIST standard P-521 elliptic curve.
- `RS256` - RSASSA-PKCS-v1\_5 using SHA-256.

Default value:

```
ES384
HS256
HS512
ES256
RS256
HS384
ES512
```

**ssoadm** attribute: `supportedIDTokenSigningAlgorithms`

## ID Token Encryption Algorithms supported

Encryption algorithms supported to encrypt OpenID Connect ID tokens in order to hide its contents.

OpenAM supports the following ID token encryption algorithms:

- `RSA-OAEP` - RSA with Optimal Asymmetric Encryption Padding (OAEP) with SHA-1 and MGF-1.
- `RSA-OAEP-256` - RSA with OAEP with SHA-256 and MGF-1.

- **A128KW** - AES Key Wrapping with 128-bit key derived from the client secret.
- **RSA1\_5** - RSA with PKCS#1 v1.5 padding.
- **A256KW** - AES Key Wrapping with 256-bit key derived from the client secret.
- **dir** - Direct encryption with AES using the hashed client secret.
- **A192KW** - AES Key Wrapping with 192-bit key derived from the client secret.

Default value:

```
RSA-OAEP
RSA-OAEP-256
A128KW
RSA1_5
A256KW
dir
A192KW
```

**ssoadm** attribute: **supportedIDTokenEncryptionAlgorithms**

## ID Token Encryption Methods supported

Encryption methods supported to encrypt OpenID Connect ID tokens in order to hide its contents.

OpenAM supports the following ID token encryption algorithms:

- **A128GCM**, **A192GCM**, and **A256GCM** - AES in Galois Counter Mode (GCM) authenticated encryption mode.
- **A128CBC-HS256**, **A192CBC-HS384**, and **A256CBC-HS512** - AES encryption in CBC mode, with HMAC-SHA-2 for integrity.

Default value:

```
A256GCM
A192GCM
A128GCM
A128CBC-HS256
A192CBC-HS384
A256CBC-HS512
```

**ssoadm** attribute: **supportedIDTokenEncryptionMethods**

## Supported Claims

Set of claims supported by the OpenID Connect **/oauth2/userinfo** endpoint, with translations.

Claims may be entered as simple strings or pipe separated strings representing the internal claim name, locale, and localized description.

For example: **name|en|Your full name..**

Locale strings are in the format: `language + "_" + country + "_" + variant`, for example `en`, `en_GB`, or `en_US_WIN`. If the locale and pipe is omitted, the description is displayed to all users that have undefined locales.

If the description is also omitted, nothing is displayed on the consent page for the claim. For example specifying `family_name|` would allow the claim `family_name` to be used by the client, but would not display it to the user on the consent page when requested.

**ssoadm** attribute: `supportedClaims`

### OpenID Connect JWT Token Lifetime (seconds)

The amount of time the JWT will be valid for, in seconds.

Default value: `3600`

**ssoadm** attribute: `jwtTokenLifetime`

### Token Encryption RSA public/private key pair alias

The list of public/private key pairs used for the RSA algorithms (RSA1\_5/RSA-OAEP/RSA-OAEP-256). Add an entry to specify an alias for a specific RSA algorithm, for example `RSA1_5|rsal_5Alias`.

Each of the public/private key pairs will be retrieved from the keystore referenced by the property `com.sun.identity.saml.xmlsig.keystore`.

Default value:

```
RSA1_5|test
RSA-OAEP|test
RSA-OAEP-256|test
```

**ssoadm** attribute: `tokenEncryptionSigningKeyAlias`

## 2.2.15.5. Advanced OpenID Connect

The following settings appear on the **Advanced OpenID Connect** tab:

### Remote JSON Web Key URL

The Remote URL where the providers JSON Web Key can be retrieved.

If this setting is not configured, then OpenAM provides a local URL to access the public key of the private key used to sign ID tokens.

**ssoadm** attribute: `jkwsURI`

### Idtokeninfo endpoint requires client authentication

When enabled, the `/oauth2/idtokeninfo` endpoint requires client authentication if the signing algorithm is set to `HS256`, `HS384`, or `HS512`.

Default value: `true`

**ssoadm** attribute: `idTokenInfoClientAuthenticationEnabled`

### Enable "claims\_parameter\_supported"

If enabled, clients will be able to request individual claims using the `claims` request parameter, as per section 5.5 of the OpenID Connect specification.

Default value: `false`

**ssoadm** attribute: `claimsParameterSupported`

### Allow Open Dynamic Client Registration

Allow clients to register without an access token. If enabled, you should consider adding some form of rate limiting. See [Client Registration](#) in the OpenID Connect specification for details.

Default value: `false`

**ssoadm** attribute: `allowDynamicRegistration`

### Generate Registration Access Tokens

Whether to generate Registration Access Tokens for clients that register via open dynamic client registration. Such tokens allow the client to access the [Client Configuration Endpoint](#) as per the OpenID Connect specification. This setting has no effect if open dynamic client registration is disabled.

Default value: `true`

**ssoadm** attribute: `generateRegistrationAccessTokens`

### OpenID Connect acr\_values to Auth Chain Mapping

Maps OpenID Connect ACR values to authentication chains. See the `acr_values` parameter in the OpenID Connect authentication request specification for more details.

**ssoadm** attribute: `loadMapping`

### OpenID Connect default acr claim

Default value to use as the `acr` claim in an OpenID Connect ID Token when using the default authentication chain.

**ssoadm** attribute: `defaultACR`

### OpenID Connect id\_token amr values to Auth Module mappings

Specify `amr` values to be returned in the OpenID Connect `id_token`. Once authentication has completed, the authentication modules that were used from the authentication service will be mapped to the `amr` values. If you do not require `amr` values, or are not providing OpenID Connect tokens, leave this field blank.

**ssoadm** attribute: `amrMappings`

### Always return claims in ID Tokens

If enabled, include scope-derived claims in the `id_token`, even if an access token is also returned that could provide access to get the claims from the `userinfo` endpoint.

If not enabled, if an access token is requested the client must use it to access the `userinfo` endpoint for scope-derived claims, as they will not be included in the ID token.

Default value: `false`

**ssoadm** attribute: `alwaysAddClaimsToToken`

### Store Ops Tokens

Whether OpenAM will store the *ops* tokens corresponding to OpenID Connect sessions in the CTS store. Note that session management related endpoints will not work when this setting is disabled.

Default value: `true`

**ssoadm** attribute: `storeOpsTokens`

### Request parameter Signing Algorithms supported

Algorithms supported when verifying the signature of a signed `request` parameter.

AM supports the following signing algorithms, as listed in the JSON Web Algorithms (JWA) specification "alg" (Algorithm) Header Parameter Values for JWS:

- `HS256` - HMAC with SHA-256.
- `HS384` - HMAC with SHA-384.
- `HS512` - HMAC with SHA-512.
- `ES256` - ECDSA with SHA-256 and NIST standard P-256 elliptic curve.
- `ES384` - ECDSA with SHA-384 and NIST standard P-384 elliptic curve.
- `ES512` - ECDSA with SHA-512 and NIST standard P-521 elliptic curve.
- `RS256` - RSASSA-PKCS-v1\_5 using SHA-256.

Default value:

```
ES384
HS256
HS512
ES256
RS256
HS384
```

ES512

**ssoadm** attribute: `supportedRequestParameterSigningAlgorithms`

### Request parameter Encryption Algorithms supported

Encryption algorithms supported when decrypting a `request` parameter.

OpenAM supports the following encryption algorithms:

- `RSA-OAEP` - RSA with Optimal Asymmetric Encryption Padding (OAEP) with SHA-1 and MGF-1.
- `RSA-OAEP-256` - RSA with OAEP with SHA-256 and MGF-1.
- `A128KW` - AES Key Wrapping with 128-bit key derived from the client secret.
- `RSA1_5` - RSA with PKCS#1 v1.5 padding.
- `A256KW` - AES Key Wrapping with 256-bit key derived from the client secret.
- `dir` - Direct encryption with AES using the hashed client secret.
- `A192KW` - AES Key Wrapping with 192-bit key derived from the client secret.

Default value:

```
RSA-OAEP
RSA-OAEP-256
A128KW
RSA1_5
A256KW
dir
A192KW
```

**ssoadm** attribute: `supportedRequestParameterEncryptionAlgorithms`

### Request parameter Encryption Methods supported

Encryption methods supported when decrypting a `request` parameter.

OpenAM supports the following encryption methods:

- `A128GCM`, `A192GCM`, and `A256GCM` - AES in Galois Counter Mode (GCM) authenticated encryption mode.
- `A128CBC-HS256`, `A192CBC-HS384`, and `A256CBC-HS512` - AES encryption in CBC mode, with HMAC-SHA-2 for integrity.

Default value:

```
A256GCM
A192GCM
A128GCM
```



```
A128CBC-HS256
A192CBC-HS384
A256CBC-HS512
```

**ssoadm** attribute: `supportedRequestParameterEncryptionEnc`

### Require request URI supported

Specifies whether `request_uri` values must be pre-registered using the `request_uris` registration parameter.

Default value: `false`

**ssoadm** attribute: `requireRequestUriRegistration`

## 2.2.15.6. Device Flow

The following settings appear on the **Device Flow** tab:

### Verification URL

The URL that the user will be instructed to visit to complete their OAuth 2.0 login and consent when using the device code flow.

**ssoadm** attribute: `verificationUrl`

### Device Completion URL

The URL that the user will be sent to on completion of their OAuth 2.0 login and consent when using the device code flow.

**ssoadm** attribute: `completionUrl`

### Device Code Lifetime (seconds)

The lifetime of the device code, in seconds.

Default value: `300`

**ssoadm** attribute: `deviceCodeLifetime`

### Device Polling Interval

The polling frequency for devices waiting for tokens when using the device code flow.

Default value: `5`

**ssoadm** attribute: `devicePollInterval`

## 2.2.16. Platform

**ssoadm** service name: `platform`

The following settings are available in this service:

### Platform Locale

Set the fallback locale used when the user locale cannot be determined.

Default value: `en_US`

**ssoadm** attribute: `locale`

### Cookie Domains

Set the list of domains into which OpenAM writes cookies.

If you set multiple cookie domains, OpenAM still only sets the cookie in the domain the client uses to access OpenAM. If this property is left blank, then the fully qualified domain name of the server is used to set the cookie domain, meaning that a host cookie rather than a domain cookie is set.

Default value: `openam.example.com`

**ssoadm** attribute: `cookieDomains`

## 2.2.17. Policy Configuration

**ssoadm** service name: `policyconfiguration`

### 2.2.17.1. Global Attributes

The following settings appear on the **Global Attributes** tab:

#### Resource Comparator

OpenAM uses resource comparators to match resources specified in policy rules. When setting comparators on the command line, separate fields with `|` characters.

Default value:

```
serviceType=iPlanetAMWebAgentService|class=com.sun.identity.policy.plugins.HttpURLResourceName|
wildcard=*<code>|oneLevelWildcard=-*-<code>|delimiter=/|caseSensitive=false
serviceType=sunIdentityServerDiscoveryService|
class=com.sun.identity.policy.plugins.PrefixResourceName|wildcard=*<code>|oneLevelWildcard=-*-<code>|delimiter=;<code>|
caseSensitive=false
```

**ssoadm** attribute: `resourceComparators`

#### Continue Evaluation on Deny Decision

If no, then OpenAM stops evaluating policy as soon as it reaches a deny decision.

Default value: `false`

**ssoadm** attribute: `continueEvaluationOnDeny`

## Realm Alias Referrals

If yes, then OpenAM allows creation of policies for HTTP and HTTPS resources whose FQDN matches the DNS alias for the realm even when no referral policy exists.

Default value: `false`

**ssoadm** attribute: `realmAliasReferrals`

## 2.2.17.2. Realm Defaults

The following settings appear on the *Realm Defaults* tab:

### Primary LDAP Server

Configuration directory server host:port that OpenAM searches for policy information.

Format: `local server name | host name:port`

Multiple entries must be prefixed by local server name.

Default value: `openam.example.com:50389`

**ssoadm** attribute: `ldapServer`

### LDAP Users Base DN

Base DN for LDAP Users subject searches.

Default value: `dc=openam,dc=forgerock,dc=org`

**ssoadm** attribute: `usersBaseDn`

### OpenAM Roles Base DN

Base DN for OpenAM Roles searches.

Default value: `dc=openam,dc=forgerock,dc=org`

**ssoadm** attribute: `rolesBaseDn`

### LDAP Bind DN

Bind DN to connect to the directory server for policy information.

Default value: `cn=Directory Manager`

**ssoadm** attribute: `bindDn`

### LDAP Bind Password

Bind password to connect to the directory server for policy information.

**ssoadm** attribute: `bindPassword`

## LDAP Organization Search Filter

Search filter to match organization entries.

Default value: `(objectclass=sunismanagedorganization)`

**ssoadm** attribute: `realmSearchFilter`

## LDAP Users Search Filter

Search filter to match user entries.

Default value: `(objectclass=inetorgperson)`

**ssoadm** attribute: `usersSearchFilter`

## LDAP Users Search Scope

Search scope to find user entries.

The possible values for this property are:

```
SCOPE_BASE
SCOPE_ONE
SCOPE_SUB
```

Default value: `SCOPE_SUB`

**ssoadm** attribute: `usersSearchScope`

## OpenAM Roles Search Scope

Search scope to find OpenAM roles entries.

The possible values for this property are:

```
SCOPE_BASE
SCOPE_ONE
SCOPE_SUB
```

Default value: `SCOPE_SUB`

**ssoadm** attribute: `rolesSearchScope`

## LDAP Users Search Attribute

Naming attribute for user entries.

Default value: `uid`

**ssoadm** attribute: `usersSearchAttribute`

## Maximum Results Returned from Search

Search limit for LDAP searches.

Default value: `100`

**ssoadm** attribute: `maximumSearchResults`

## Search Timeout

Time after which OpenAM returns an error for an incomplete search, in seconds.

Default value: `5`

**ssoadm** attribute: `searchTimeout`

## LDAP SSL/TLS

If enabled, OpenAM connects securely to the directory server. This requires that you install the directory server certificate.

Default value: `false`

**ssoadm** attribute: `sslEnabled`

## LDAP Connection Pool Minimum Size

Minimum number of connections in the pool.

Default value: `1`

**ssoadm** attribute: `connectionPoolMinimumSize`

## LDAP Connection Pool Maximum Size

Maximum number of connections in the pool.

Default value: `10`

**ssoadm** attribute: `connectionPoolMaximumSize`

## Subjects Result Time to Live

Maximum time that OpenAM caches a subject result for evaluating policy requests, in minutes. A value of `0` prevents OpenAM from caching subject evaluations for policy decisions.

Default value: `10`

**ssoadm** attribute: `subjectsResultTTL`

## User Alias

If enabled, OpenAM can evaluate policy for remote users aliased to local users.

Default value: `false`

**ssoadm** attribute: `userAliasEnabled`

## 2.2.18. Push Notification Service

**ssoadm** service name: `pushNotification`

### 2.2.18.1. Realm Defaults

The following settings appear on the *Realm Defaults* tab:

#### SNS Access Key ID

Amazon Simple Notification Service Access Key ID. For more information, see <https://aws.amazon.com/developers/access-keys/>.

For example, you might set this property to: `AKIAIOSFODNN7EXAMPLE`

**ssoadm** attribute: `accessKey`

#### SNS Access Key Secret

Amazon Simple Notification Service Access Key Secret. For more information, see <https://aws.amazon.com/developers/access-keys/>.

For example, you might set this property to: `wJalrXUtnFEMI/K7MDENG/bPxRfiCYEXAMPLEKEY`

**ssoadm** attribute: `secret`

#### SNS Endpoint for APNS

The Simple Notification Service endpoint in Amazon Resource Name format, used to send push messages to the Apple Push Notification Service (APNS).

For example, you might set this property to: `arn:aws:sns:us-east-1:1234567890:app/APNS/production`

**ssoadm** attribute: `appleEndpoint`

#### SNS Endpoint for GCM

The Simple Notification Service endpoint in Amazon Resource Name format, used to send push messages over Google Cloud Messaging (GCM).

For example, you might set this property to: `arn:aws:sns:us-east-1:1234567890:app/GCM/production`

**ssoadm** attribute: `googleEndpoint`

#### SNS Client Region

Region of your registered Amazon Simple Notification Service client. For more information, see <https://docs.aws.amazon.com/general/latest/gr/rande.html>.

The possible values for this property are:

```
us-gov-west-1
us-east-1
us-west-1
us-west-2
eu-west-1
eu-central-1
ap-southeast-1
ap-southeast-2
ap-northeast-1
ap-northeast-2
sa-east-1
cn-north-1
```

Default value: `us-east-1`

**ssoadm** attribute: `region`

### Message Transport Delegate Factory

The fully qualified class name of the factory responsible for creating the `PushNotificationDelegate`. The class must implement `org.forgerock.openam.services.push.PushNotificationDelegate`.

Default value: `org.forgerock.openam.services.push.sns.SnsHttpDelegateFactory`

**ssoadm** attribute: `delegateFactory`

### Response Cache Duration

The minimum lifetime to keep unanswered message records in the message dispatcher cache, in seconds. To keep unanswered message records indefinitely, set this property to `0`. Should be tuned so that it is applicable to the use case of this service. For example, the ForgeRock Authenticator (Push) authentication module has a default timeout of 120 seconds.

Default value: `120`

**ssoadm** attribute: `mdDuration`

### Response Cache Concurrency

Level of concurrency to use when accessing the message dispatcher cache. Defaults to `16`, and must be greater than `0`. Choose a value to accommodate as many threads as will ever concurrently access the message dispatcher cache.

Default value: `16`

**ssoadm** attribute: `mdConcurrency`

### Response Cache Size

Maximum size of the message dispatcher cache, in number of records. If set to `0` the cache can grow indefinitely. If the number of records that need to be stored exceeds this maximum, then older items in the cache will be removed to make space.

Default value: 10000

**ssoadm** attribute: mdCacheSize

## 2.2.19. RADIUS Server

**ssoadm** service name: RadiusServerService

### 2.2.19.1. Configuration

The following settings appear on the **Configuration** tab:

#### Enabled

Enables the OpenAM RADIUS server to listen for requests on the listener port and to handle the requests.

The possible values for this property are:

YES  
NO

Default value: NO

**ssoadm** attribute: radiusListenerEnabled

#### Listener Port

The UDP port on which each OpenAM server will listen for RADIUS Access-Request packets

According to the RADIUS Authentication Specification, RFC 2865, the officially assigned port number for RADIUS is 1812. Specify a value from 1024 to 65535. All client requests are handled through the same port.

Default value: 1812

**ssoadm** attribute: radiusServerPort

#### Thread Pool Core Size

When a RADIUS request is received and fewer than corePoolSize threads are running, a new thread is created to handle the request, even if other worker threads are idle. If there are more than "Thread Pool Core Size" but less than "Thread Pool Max Size" threads running, a new thread will be created only if the queue is full. By setting "Thread Pool Core Size" and "Thread Pool Max Size" to the same value, you create a fixed-size thread pool. Specify a value from 1 to 100.

Default value: 1

**ssoadm** attribute: radiusThreadPoolCoreSize



## Thread Pool Max Size

Maximum number of threads allowed in the pool. See also "Thread Pool Core Size".

Default value: 10

**ssoadm** attribute: `radiusThreadPoolMaxSize`

## Thread Pool Keep-Alive Seconds

If the pool currently has more than Thread Pool Core Size threads, excess threads will be terminated if they have been idle for more than the Keep-Alive Seconds. Specify a value from 1 to 3600.

Default value: 10

**ssoadm** attribute: `radiusThreadPoolKeepaliveSeconds`

## Thread Pool Queue Size

The number of requests that can be queued for the pool before further requests will be silently dropped. See also "Thread Pool Core Size" and "Thread Pool Max Size". Specify a value from 1 to 1000.

Default value: 20

**ssoadm** attribute: `radiusThreadPoolQueueSize`

## 2.2.19.2. Secondary Configurations

This service has the following Secondary Configurations.

### 2.2.19.2.1. radiusClient

#### Client IP Address

The IP Address of the client.

Section 5.4 of the RADIUS Authentication Specification, RFC 2865, indicates that the source IP address of the Access-Request packet *MUST* be used to identify a configured client and hence determine the shared secret to use for decrypting the User-Password field.

This property should hold the source IP address of the client. This should match the value obtained from Java's `InetSocketAddress.getAddress().toString()` function.

To verify the value, send an Access-Request packet to OpenAM's RADIUS port and watch for a message stating: `"No Defined RADIUS Client matches IP address '/127.0.0.1'. Dropping request."`. The value used in this property should match the IP address returned in the single quotes.

Default value: `/127.0.0.1`

**ssoadm** attribute: `clientIpAddress`

## Client Secret

This secret shared between server and client for encryption of the user password.

This secret must be conveyed to the RADIUS client and entered into its configuration before the User-Password field of incoming Access-Request packets can be decrypted to validate the password for the represented by that packet. A default value is generated for you but you can enter a custom value if desired.

Default value: `ov1Q0Bpw+urxFczT`

**ssoadm** attribute: `clientSecret`

## Log Packet Contents for this Client

Indicates if full packet contents should be dumped to the log.

When troubleshooting issues with RADIUS it is helpful to know what was received in a given packet. Enabling this feature will cause packet contents to be logged in a human consumable format. The only caveat is that the USER\_PASSWORD field will be obfuscated by replacing with asterisks. This should only be enabled for troubleshooting as it adds significant content to logs and slows processing.

Default value: `NO`

**ssoadm** attribute: `clientPacketsLogged`

## Handler Class

The fully qualified name of a class to handle incoming RADIUS Access-Requests for this client.

This class must implement the `com.sun.identity.authentication.modules.radius.server.spi.AccessRequestHandler` interface to handle incoming Access-Request packets and provide a suitable response. An instance of this class is created when configuration is first loaded to validate the class and then once for each new request. The configuration properties will only be passed for the request handling instances and not when validating the class.

Default value: `org.forgerock.openam.radius.server.spi.handlers.OpenAMAuthHandler`

**ssoadm** attribute: `handlerClass`

## Handler Class Configuration Properties

Properties needed by the handler class for its configuration.

These properties are provided to the handler via its `init` method prior to the call to handle the request packet. If these values are changed the next handler instance created for an incoming request will receive the updated values. Each entry assumes that the first '=' character incurred separates a key from its value. All entries are placed in a properties file handed to each handler instance.

Default value:

```
realm=/  
chain=ldapService
```

**ssoadm** attribute: `handlerConfig`

## 2.2.20. REST APIs

**ssoadm** service name: `rest`

The following settings are available in this service:

### Default Resource Version

The API resource version to use when the REST request does not specify an explicit version. Choose from:

- **Latest**. If an explicit version is not specified, the latest resource version of an API is used.
- **Oldest**. If an explicit version is not specified, the oldest supported resource version of an API is used. Note that since APIs may be deprecated and fall out of support, the oldest *supported* version may not be the first version.
- **None**. If an explicit version is not specified, the request will not be handled and an error status is returned.

The possible values for this property are:

```
Latest  
Oldest  
None
```

Default value: `Latest`

**ssoadm** attribute: `defaultVersion`

### Warning Header

Whether to include a warning header in the response to a request which fails to include the `Accept-API-Version` header.

Default value: `false`

**ssoadm** attribute: `warningHeader`

### API Descriptions

Whether API Explorer and API Docs are enabled in OpenAM and how the documentation for them is generated. Dynamic generation includes descriptions from any custom services and authentication modules you may have added. Static generation only includes services and authentication modules that were present when OpenAM was built. Note that dynamic documentation generation may not work in some application containers.

The possible values for this property are:

```
DYNAMIC
STATIC
DISABLED
```

Default value: **STATIC**

**ssoadm** attribute: **descriptionsState**

## Default Protocol Version

The API protocol version to use when a REST request does not specify an explicit version. Choose from:

- **Oldest**. If an explicit version is not specified, the oldest protocol version is used.
- **Latest**. If an explicit version is not specified, the latest protocol version is used.
- **None**. If an explicit version is not specified, the request will not be handled and an error status is returned.

The possible values for this property are:

```
Oldest
Latest
None
```

Default value: **Latest**

**ssoadm** attribute: **defaultProtocolVersion**

## 2.2.21. SAML v2.0 SOAP Binding

**ssoadm** service name: **federation/saml2soapbinding**

The following settings are available in this service:

### Request Handler List

List of handlers to deal with SAML v2.0 requests bound to SOAP.

The required format is: **key=Meta Alias|class=Handler Class**

Set the **key** property for a request handler to the meta alias, and the **class** property to the name of the class that implements the handler.

For example: **key=/pdp|class=com.sun.identity.xacml.plugins.XACMLAuthzDecisionQueryHandler**

**ssoadm** attribute: **requestHandlers**

## 2.2.22. SAML v2.0 Service Configuration

**ssoadm** service name: `saml2`

### 2.2.22.1. Global Attributes

The following settings appear on the **Global Attributes** tab:

#### Cache cleanup interval (in seconds)

Time between cache cleanup operations, in seconds.

Default value: `600`

**ssoadm** attribute: `cacheCleanupInterval`

#### Attribute name for Name ID information

User entry attribute to store name identifier information.

Default value: `sun-fm-saml2-nameid-info`

**ssoadm** attribute: `nameIDInfoAttribute`

#### Attribute name for Name ID information key

User entry attribute to store the name identifier key.

Default value: `sun-fm-saml2-nameid-infokey`

**ssoadm** attribute: `nameIDInfoKeyAttribute`

#### Cookie domain for IdP Discovery Service

Specifies the cookie domain for the IDP discovery service.

Default value: `openam.example.com`

**ssoadm** attribute: `idpDiscoveryCookieDomain`

#### Cookie type for IdP Discovery Service

Specifies the cookie type to use.

The possible values for this property are:

PERSISTENT  
SESSION

Default value: `PERSISTENT`

**ssoadm** attribute: `idpDiscoveryCookieType`

## URL scheme for IdP Discovery Service

Specifies the URL scheme to use.

The possible values for this property are:

```
http
https
```

Default value: `https`

**ssoadm** attribute: `idpDiscoveryUrlSchema`

## XML Encryption SPI implementation class

Used by the SAML2 engine to *encrypt* and *decrypt* documents.

Default value: `com.sun.identity.saml2.xmlenc.FMEncProvider`

**ssoadm** attribute: `xmlEncryptionClass`

## Include xenc:EncryptedKey inside ds:KeyInfo Element

Specify whether to include the `xenc:EncryptedKey` property inside the `ds:KeyInfo` element.

Default value: `true`

**ssoadm** attribute: `encryptedKeyInKeyInfo`

## XML Signing SPI implementation class

Used by the SAML2 engine to *sign* documents.

Default value: `com.sun.identity.saml2.xmlsig.FMSigProvider`

**ssoadm** attribute: `xmlSigningClass`

## XML Signing Certificate Validation

If enabled, then validate certificates used to sign documents.

Default value: `false`

**ssoadm** attribute: `signingCertValidation`

## CA Certificate Validation

If enabled, then validate CA certificates.

Default value: `false`

**ssoadm** attribute: `caCertValidation`

## Enable SAML v2.0 failover

If enabled, OpenAM can failover SAML v2.0 requests to another instance.

Default value: `false`

**ssoadm** attribute: `failOverEnabled`

### Buffer length (in bytes) to decompress request

Specify the size of the buffer used for decompressing requests, in bytes.

Default value: `2048`

**ssoadm** attribute: `bufferLength`

## 2.2.22.2. Realm Defaults

The following settings appear on the *Realm Defaults* tab:

### Metadata signing key alias

Specify the private key alias to be used to sign the given entity's metadata when requesting signed metadata, either by using `exportmetadata.jsp` or the `ssoadm` command.

Default value: `test`

**ssoadm** attribute: `metadataSigningKey`

### Metadata signing key password

Specify the password used to retrieve the signing key from the keystore.

**ssoadm** attribute: `metadataSigningKeyPass`

## 2.2.23. Scripting

**ssoadm** service name: `scripting`

### 2.2.23.1. Configuration

The following settings appear on the **Configuration** tab:

#### Default Script Type

The default script context type when creating a new script.

The possible values for this property are:

```
POLICY_CONDITION
AUTHENTICATION_SERVER_SIDE
AUTHENTICATION_CLIENT_SIDE
OIDC_CLAIMS
```

Default value: `POLICY_CONDITION`

**ssoadm** attribute: `defaultContext`

## 2.2.23.2. Secondary Configurations

This service has the following Secondary Configurations.

### 2.2.23.2.1. Engine Configuration

The following properties are available for Scripting Service secondary configuration instances:

#### Engine Configuration

Configure script engine parameters for running a particular script type in OpenAM.

**ssoadm** attribute: `engineConfiguration`

To access a secondary configuration instance using the **ssoadm** command, use: `--subconfigname [primary configuration]/[secondary configuration]` For example:

```
$ ssoadm set-sub-cfg \  
--adminid amAdmin \  
--password-file admin_pwd_file \  
--servicename ScriptingService \  
--subconfigname OIDC_CLAIMS/engineConfiguration \  
--operation set \  
--attributevalues maxThreads=300 queueSize=-1
```

#### Note

Supports server-side scripts only. OpenAM cannot configure engine settings for client-side scripts.

The configurable engine settings are as follows:

#### Server-side Script Timeout

The maximum execution time any individual script should take on the server (in seconds). OpenAM terminates scripts which take longer to run than this value.

**ssoadm** attribute: `serverTimeout`

#### Core thread pool size

The initial number of threads in the thread pool from which scripts operate. OpenAM will ensure the pool contains at least this many threads.

**ssoadm** attribute: `coreThreads`

#### Maximum thread pool size

The maximum number of threads in the thread pool from which scripts operate. If no free thread is available in the pool, OpenAM creates new threads in the pool for script execution up to the configured maximum.



**ssoadm** attribute: `maxThreads`

### Thread pool queue size

The number of threads to use for buffering script execution requests when the maximum thread pool size is reached.

**ssoadm** attribute: `queueSize`

### Thread idle timeout (seconds)

Length of time (in seconds) for a thread to be idle before OpenAM terminates created threads. If the current pool size contains the number of threads set in `Core thread pool size` idle threads will not be terminated, to maintain the initial pool size.

**ssoadm** attribute: `idleTimeout`

### Java class whitelist

Specifies the list of class-name patterns allowed to be invoked by the script. Every class accessed by the script must match at least one of these patterns.

You can specify the class name as-is or use a regular expression.

**ssoadm** attribute: `whiteList`

### Java class blacklist

Specifies the list of class-name patterns that are NOT allowed to be invoked by the script. The blacklist is applied AFTER the whitelist to exclude those classes - access to a class specified in both the whitelist and the blacklist will be denied.

You can specify the class name to exclude as-is or use a regular expression.

**ssoadm** attribute: `blackList`

### Use system SecurityManager

If enabled, OpenAM will make a call to `System.getSecurityManager().checkPackageAccess(...)` for each class that is accessed. The method throws `SecurityException` if the calling thread is not allowed to access the package.

#### Note

This feature only takes effect if the security manager is enabled for the JVM.

**ssoadm** attribute: `useSecurityManager`

### Scripting languages

Select the languages available for scripts on the chosen type. Either `GROOVY` or `JAVASCRIPT`.

**ssoadm** attribute: `languages`

## Default Script

The source code that is presented as the default when creating a new script of this type.

**ssoadm** attribute: `defaultScript`

## 2.2.24. Session

**ssoadm** service name: `session`

### 2.2.24.1. Global Attributes

The following settings appear on the **Global Attributes** tab:

#### Resulting behavior if session quota exhausted

Specify the action to take if a session quota is exhausted:

- **Deny Access.** New session creation requests will be denied.
- **Destroy Next Expiring.** The session that would expire next will be destroyed.
- **Destroy Oldest.** The oldest session will be destroyed.
- **Destroy All.** All previous sessions will be destroyed.

The possible values for this property are:

```
DENY_ACCESS  
DESTROY_OLD_SESSION
```

Default value: `DESTROY_OLD_SESSION`

**ssoadm** attribute: `iplanet-am-session-constraint-resulting-behavior`

### 2.2.24.2. General

The following settings appear on the **General** tab:

#### Latest Access Time Update Frequency

Defaults to `60` seconds. At most, OpenAM updates a session's latest access time this often.

Subsequent touches to the session that occur less than the specified number of seconds after an update will not cause additional updates to the session's access time.

Refreshing a session returns the idle time as the number of seconds since an update has occurred, which will be between `0` and the specified Latest Access Time Update Frequency.

Default value: `60`

**ssoadm** attribute: `latestAccessTimeUpdateFrequency`

### DN Restriction Only Enabled

If enabled, OpenAM will not perform DNS lookups when checking restrictions in cookie hijacking mode.

Default value: `false`

**ssoadm** attribute: `dnRestrictionOnly`

### Session Timeout Handler implementations

Lists plugin classes implementing session timeout handlers. Specify the fully qualified name.

**ssoadm** attribute: `timeoutHandlers`

## 2.2.24.3. Session Search

The following settings appear on the **Session Search** tab:

### Maximum Number of Search Results

Maximum number of results from a session search. Do not set this attribute to a large value, for example more than 1000, unless sufficient system resources are allocated.

Default value: `120`

**ssoadm** attribute: `maxSessionListSize`

### Timeout for Search

Time after which OpenAM sees an incomplete search as having failed, in seconds.

Default value: `5`

**ssoadm** attribute: `sessionListRetrievalTimeout`

## 2.2.24.4. Session Property Change Notifications

The following settings appear on the **Session Property Change Notifications** tab:

### Enable Property Change Notifications

If on, then OpenAM notifies other applications participating in SSO when a session property in the Notification Properties list changes on a stateful session.

The possible values for this property are:

ON  
OFF

Default value: `OFF`

**ssoadm** attribute: `propertyChangeNotifications`

### Notification Properties

Lists session properties for which OpenAM can send notifications upon modification. Session notification applies to stateful sessions only.

**ssoadm** attribute: `notificationPropertyList`

## 2.2.24.5. Session Quotas

The following settings appear on the **Session Quotas** tab:

### Enable Quota Constraints

If on, then OpenAM allows you to set quota constraints on stateful sessions.

The possible values for this property are:

ON  
OFF

Default value: `OFF`

**ssoadm** attribute: `iplanet-am-session-enable-session-constraint`

### Read Timeout for Quota Constraint

Maximum wait time after which OpenAM considers a search for live session count as having failed if quota constraints are enabled, in milliseconds.

Default value: `6000`

**ssoadm** attribute: `quotaConstraintMaxWaitTime`

### Resulting behavior if session quota exhausted

Specify the action to take if a session quota is exhausted:

- **Deny Access.** New session creation requests will be denied.
- **Destroy Next Expiring.** The session that would expire next will be destroyed.
- **Destroy Oldest.** The oldest session will be destroyed.
- **Destroy All.** All previous sessions will be destroyed.

The possible values for this property are:

org.forgerock.openam.session.service.DenyAccessAction  
org.forgerock.openam.session.service.DestroyNextExpiringAction  
org.forgerock.openam.session.service.DestroyOldestAction  
org.forgerock.openam.session.service.DestroyAllAction

Default value: `org.forgerock.openam.session.service.DestroyNextExpiringAction`

**ssoadm** attribute: `behaviourWhenQuotaExhausted`

### Deny user login when session repository is down

This property only takes effect when the session quota constraint is enabled, and the session data store is unavailable.

The possible values for this property are:

YES  
NO

Default value: `NO`

**ssoadm** attribute: `denyLoginWhenRepoDown`

## 2.2.24.6. Stateless Sessions

The following settings appear on the **Stateless Sessions** tab:

### Signing Algorithm Type

Specifies the algorithm that OpenAM uses to sign a JSON Web Token (JWT) containing a stateless session. Signing the JWT enables tampering detection. Note that OpenAM stores stateless sessions in a JWT that resides in an HTTP cookie.

Applies only to deployments using stateless sessions. OpenAM supports the following signing algorithms:

- **HS256**. HMAC using SHA-256.
- **HS384**. HMAC using SHA-384.
- **HS512**. HMAC using SHA-512.
- **RS256**. RSASSA-PKCS1-v1\_5 using SHA-256.
- **ES256**. ECDSA using SHA-256 and NIST standard P-256 elliptic curve.
- **ES384**. ECDSA using SHA-384 and NIST standard P-384 elliptic curve.
- **ES512**. ECDSA using SHA-512 and NIST standard P-521 elliptic curve.

The possible values for this property are:

NONE  
HS256  
HS384  
HS512  
RS256

ES256  
ES384  
ES512

Default value: **HS256**

**ssoadm** attribute: **statelessSigningType**

## Signing HMAC Shared Secret

Specifies the shared secret that OpenAM uses when performing HMAC signing on the stateless session JWT.

Specify a shared secret when using a "Signing Algorithm Type" of **HS256**, **HS384**, or **HS512**. Applies only to deployments using stateless sessions.

Default value: **MSq4Vgp9uy6ZP/I0uWqvB1VEVtDQBTwMkXVhn0BgHGg=**

**ssoadm** attribute: **statelessSigningHmacSecret**

## Signing RSA/ECDSA Certificate Alias

Specify the alias of a certificate containing a public/private key pair that OpenAM uses when performing RSA or ECDSA signing on the stateless session JWT. Specify a signing certificate alias when using a "Signing Algorithm Type" of **RS256**, **ES256**, **ES384**, or **ES512**.

Certificate will be retrieved from the keystore specified by the **com.sun.identity.saml.xmlsig.keystore** property.

Default value: **test**

**ssoadm** attribute: **statelessSigningRsaCertAlias**

## Encryption Algorithm

Specifies the algorithm that OpenAM uses to encrypt JWTs containing stateless sessions.

Applies only to deployments using stateless sessions. OpenAM supports the following algorithms:

- **NONE**. No encryption is selected.
- **RSA**. Session content is encrypted with AES using a unique key. The key is then encrypted with an RSA public key and appended to the JWT.

OpenAM supports the three padding modes, which you can set using the **org.forgerock.openam.session.stateless.rsa.padding** advanced property:

- **RSA1\_5**. RSA with PKCS#1 v1.5 padding.
- **RSA-OAEP**. RSA with optimal asymmetric encryption padding (OAEP) and SHA-1.
- **RSA-OAEP-256**. RSA with OAEP padding and SHA-256.

- **AES KeyWrapping.** Session content is encrypted with AES using a unique key and is then wrapped using AES KeyWrap and the master key. This provides additional security, compared to RSA, at the cost of 128 or 256 bits (or 32 bytes) depending on the size of the master key. This method provides authenticated encryption, which removes the need for a separate signature and decreases the byte size of the JWT. See RFC 3394.
- **Direct AES Encryption.** Session content is encrypted with direct AES encryption with a symmetric key. This method provides authenticated encryption, which removes the need for a separate signature and decreases the byte size of the JWT.

**Important:** To prevent users from accidentally disabling all authentication support, which can be accomplished by disabling signing and not using an authenticated encryption mode, you must set the `org.forgerock.openam.session.stateless.signing.allownone` system property to `true` to turn off signing completely.

The possible values for this property are:

```
NONE
RSA
AES_KEYWRAP
DIRECT
```

Default value: `DIRECT`

**ssoadm** attribute: `statelessEncryptionType`

## Encryption RSA Certificate Alias

Specifies the alias of a certificate containing a public/private key pair that OpenAM uses when encrypting a JWT. Specify an encryption certificate alias when using an Encryption Algorithm Type of RSA.

Applies only to deployments using stateless sessions.

Certificate will be retrieved from the keystore referenced by the `com.sun.identity.saml.xmlsig.keystore` property.

Default value: `test`

**ssoadm** attribute: `statelessEncryptionRsaCertAlias`

## Enable Session Blacklisting

Enables session blacklisting for logged out stateless sessions.

It is recommended to enable this setting if the maximum session time is high. Blacklist state is stored in the core token service (CTS) until the session token expires in order to ensure that session tokens cannot continue to be used. Requires a server restart for changes to take effect.

Default value: `false`

**ssoadm** attribute: `openam-session-stateless-enable-session-blacklisting`

## Session Blacklist Cache Size

Number of blacklisted stateless sessions to cache in memory to speed up blacklist checks and reduce load on the CTS. The cache size should be around the number of logouts expected in the maximum session time.

Applies only to deployments using stateless sessions.

Default value: `10000`

**ssoadm** attribute: `openam-session-stateless-blacklist-cache-size`

## Blacklist Poll Interval (seconds)

Specifies the interval at which OpenAM polls the Core Token Service for changes to logged out sessions, in seconds.

The longer the polling interval, the more time a malicious user has to connect to other OpenAM servers in a cluster and make use of a stolen session cookie. Shortening the polling interval improves the security for logged out sessions, but might incur a minimal decrease in overall OpenAM performance due to increased network activity. Set to `0` to disable this feature completely.

Applies only to deployments using stateless sessions and session blacklisting.

Default value: `60`

**ssoadm** attribute: `openam-session-stateless-blacklist-poll-interval`

## Blacklist Purge Delay (minutes)

When added to the maximum session time, specifies the amount of time that OpenAM tracks logged out sessions.

Increase the blacklist purge delay if you expect system clock skews in a cluster of OpenAM servers to be greater than one minute. There is no need to increase the blacklist purge delay for servers running a clock synchronization protocol, such as Network Time Protocol.

Applies only to deployments using stateless sessions and session blacklisting.

Default value: `1`

**ssoadm** attribute: `openam-session-stateless-blacklist-purge-delay`

## Symmetric AES Key

AES key for use with Direct or AES KeyWrap encryption modes.

The symmetric AES key is a base64-encoded random key.

For direct encryption with `AES-GCM` or for `AES-KeyWrap` with any content encryption method, this should be 128, 192, or 256 bits.



For direct encryption with **AES-CBC-HMAC**, the key should be double those sizes (one half for the AES key, the other half for the HMAC key).

AES key sizes greater than 128 bits require installation of the JCE Unlimited Strength policy files in your JRE.

**ssoadm** attribute: **statelessEncryptionAesKey**

## Compression Algorithm

If enabled the session state will be compressed before signing and encryption.

**WARNING:** Enabling compression may compromise encryption. This may leak information about the content of the session state if encryption is enabled.

The possible values for this property are:

NONE
DEF

Default value: **NONE**

**ssoadm** attribute: **statelessCompressionType**

### 2.2.24.7. Dynamic Attributes

The following settings appear on the **Dynamic Attributes** tab:

#### Maximum Session Time

Maximum time a session can remain valid before OpenAM requires the user to authenticate again, in minutes.

Default value: **120**

**ssoadm** attribute: **maxSessionTime**

#### Maximum Idle Time

Maximum time a stateful session can remain idle before OpenAM requires the user to authenticate again, in minutes.

Default value: **30**

**ssoadm** attribute: **maxIdleTime**

#### Maximum Caching Time

Maximum time before OpenAM refreshes a session that has been cached, in minutes.

Default value: **3**

**ssoadm** attribute: **maxCachingTime**

## Active User Sessions

Maximum number of concurrent stateful sessions OpenAM allows a user to have.

Default value: 5

**ssoadm** attribute: `quotaLimit`

## 2.2.25. Session Property Whitelist Service

**ssoadm** service name: `amSessionPropertyWhitelist`

### 2.2.25.1. Realm Defaults

The following settings appear on the *Realm Defaults* tab:

#### Whitelisted Session Property Names

A list of properties that users may read, edit the value of, or delete from their session.

Adding properties to sessions can impact OpenAM's performance. Because there is no size constraint limiting the set of properties that you can add to sessions, and no limit on the number of session properties you can add, keep in mind that adding session properties can increase the load on an OpenAM deployment in the following areas:

- OpenAM server memory
- OpenDJ storage
- OpenDJ replication

Protected attributes will NOT be allowed to be set, edited or deleted, even if they are included in this whitelist.

**ssoadm** attribute: `sessionPropertyWhitelist`

## 2.2.26. Social Authentication Implementations

**ssoadm** service name: `socialauthentication`

### 2.2.26.1. Realm Defaults

The following settings appear on the *Realm Defaults* tab:

#### Display Names

The display names for the implementations - this will be used to provide a name for the icon displayed on the login page. The key should be used across all the settings on this page to join them together.

For example:

Key	Value
google	Google

**ssoadm** attribute: `displayNames`

## Authentication Chains

The name of the authentication chains that are the entry points to being authenticated by each respective social authentication provider. The key should correspond to a key used to define a Display Name above.

For example:

Key	Value
google	socialAuthChainGoogle

**ssoadm** attribute: `authenticationChains`

## Icons

Either a full URL or a path relative to the base of the site/server where the image can be found. The image will be used on the login page to link to the authentication chain defined above. The key should correspond to a key used to define a Display Name above.

For example:

Key	Value
google	/images/google-sign-in.png

**ssoadm** attribute: `icons`

## Enabled Implementations

Provide a key that has been used to define the settings above to enable that set of settings.

For example: google

**ssoadm** attribute: `enabledKeys`

## 2.2.27. UMA Provider

**ssoadm** service name: `uma`

### 2.2.27.1. Realm Defaults

The following settings appear on the *Realm Defaults* tab:

### Requesting Party Token Lifetime (seconds)

The maximum life of a Requesting Party Token (RPT) before it expires, in seconds.

Default value: `3600`

**ssoadm** attribute: `rptLifetime`

### Permission Ticket Lifetime (seconds)

The maximum life of a permission ticket before it expires, in seconds.

Default value: `120`

**ssoadm** attribute: `permissionTicketLifetime`

### Delete user policies when Resource Server is removed

Delete all user policies that relate to a Resource Server when removing the OAuth2 agent entry or removing the `uma_protection` scope from the OAuth2 agent.

Default value: `true`

**ssoadm** attribute: `deletePoliciesOnDeleteRS`

### Delete resource sets when Resource Server is removed

Delete all resource sets that relate to a Resource Server when removing the OAuth2 agent entry or removing the `uma_protection` scope from the OAuth2 agent.

Default value: `true`

**ssoadm** attribute: `deleteResourceSetsOnDeleteRS`

### Email Resource Owner on Pending Request creation

Whether to send an email to the Resource Owner when a Pending Request is created when a Requesting Party requests authorization to a resource.

Default value: `true`

**ssoadm** attribute: `emailResourceOwnerOnPendingRequestCreation`

### Email Requesting Party on Pending Request approval

Whether to send an email to the Requesting Party when a Pending Request is approved by the Resource Owner.

Default value: `true`

**ssoadm** attribute: `emailRequestingPartyOnPendingRequestApproval`

### User profile preferred Locale attribute

User profile attribute storing the user's preferred locale.

Default value: `inetOrgPerson`

**ssoadm** attribute: `userProfileLocaleAttribute`

## Re-Sharing Mode

Whether re-sharing is off or on implicitly for all users, allowing all users to re-share resource sets that have been shared with them.

The possible values for this property are:

OFF  
IMPLICIT

Default value: `IMPLICIT`

**ssoadm** attribute: `resharingMode`

## Require Trust Elevation

Determine if trust elevation is required and claims (such as an OpenID Connection ID token) need to be present in the authorization request. If not, the AAT is sufficient to determine the requesting party of the authorization request.

Default value: `true`

**ssoadm** attribute: `requireTrustElevation`

## 2.2.28. User

**ssoadm** service name: `user`

### 2.2.28.1. Dynamic Attributes

The following settings appear on the **Dynamic Attributes** tab:

#### User Preferred Timezone

Time zone for accessing OpenAM console.

**ssoadm** attribute: `preferredTimezone`

#### Administrator DN Starting View

Specifies the DN for the initial screen when the OpenAM administrator successfully logs in to the OpenAM console.

**ssoadm** attribute: `adminDNStartingView`

#### Default User Status

Inactive users cannot authenticate, though OpenAM stores their profiles.

The possible values for this property are:

Active  
Inactive

Default value: `Active`

**ssoadm** attribute: `defaultUserStatus`

## 2.2.29. User Self-Service

**ssoadm** service name: `selfService`

### 2.2.29.1. General Configuration

The following settings appear on the **General Configuration** tab:

#### Encryption Key Pair Alias

An encryption key alias in the OpenAM server's JCEKS keystore. Used to encrypt the JWT token that OpenAM uses to track end users during User Self-Service operations.

For example, you might set this property to: `selfserviceenctest`

**ssoadm** attribute: `encryptionKeyPairAlias`

#### Signing Secret Key Alias

A signing secret key alias in the OpenAM server's JCEKS keystore. Used to sign the JWT token that OpenAM uses to track end users during User Self-Service operations.

For example, you might set this property to: `selfservicesigntest`

**ssoadm** attribute: `signingSecretKeyAlias`

#### Google reCAPTCHA Site Key

Google reCAPTCHA plugin site key.

**ssoadm** attribute: `captchaSiteKey`

#### Google reCAPTCHA Secret Key

Google reCAPTCHA plugin secret key.

**ssoadm** attribute: `captchaSecretKey`

#### Google Re-captcha Verification URL

Google reCAPTCHA plugin verification URL.

Default value: `https://www.google.com/recaptcha/api/siteverify`

**ssoadm** attribute: `captchaVerificationUrl`

## Security Questions

Specifies the default set of knowledge-based authentication (KBA) security questions. The security questions can be set for the User Self-Registration, forgotten password reset, and forgotten username services, respectively.

Format is `unique key|locale|question`.

Default value:

```
4|en|What is your mother's maiden name?
3|en|What was the name of your childhood pet?
2|en|What was the model of your first car?
1|en|What is the name of your favourite restaurant?
```

**ssoadm** attribute: `kbaQuestions`

## Minimum Answers to Define

Specifies the minimum number of KBA answers that users must define.

Default value: `1`

**ssoadm** attribute: `minimumAnswersToDefine`

## Minimum Answers to Verify

Specifies the minimum number of KBA questions that users need to answer to be granted the privilege to carry out an action, such as registering for an account, resetting a password, or retrieving a username. Specify a value from `0` to `50`.

Default value: `1`

**ssoadm** attribute: `minimumAnswersToVerify`

## Valid Query Attributes

Specifies the valid query attributes used to search for the user. This is a list of attributes used to identify your account for forgotten password and forgotten username.

Default value:

```
uid
mail
givenName
sn
```

**ssoadm** attribute: `validQueryAttributes`

## 2.2.29.2. User Registration

The following settings appear on the **User Registration** tab:

## User Registration

If enabled, new users can sign up for an account.

Default value: `false`

**ssoadm** attribute: `userRegistrationEnabled`

## Captcha

If enabled, users must pass a Google reCAPTCHA challenge during user self-registration to mitigate against software bots.

Default value: `false`

**ssoadm** attribute: `userRegistrationCaptchaEnabled`

## Email Verification

If enabled, users who self-register must perform email address verification.

Default value: `true`

**ssoadm** attribute: `userRegistrationEmailVerificationEnabled`

## Security Questions

If enabled, users must set up their security questions during the self-registration process.

Default value: `false`

**ssoadm** attribute: `userRegistrationKbaEnabled`

## Token Lifetime (seconds)

Maximum lifetime of the token allowing User Self-Registration, in seconds.

Default value: `900`

**ssoadm** attribute: `userRegistrationTokenTTL`

## Outgoing Email Subject

Customize the User Self-Registration verification email subject text. Format is `locale|subject text`.

Default value: `en|Registration email`

**ssoadm** attribute: `userRegistrationEmailSubject`

## Outgoing Email Body

Customize the User Self-Registration verification email body text. Format is: `locale|body text`.

Default value: `en|<h2>Click on this <a href="%link%">link</a> to register.</h2>`

**ssoadm** attribute: `userRegistrationEmailBody`



## Valid Creation Attributes

Specifies a whitelist of user attributes that can be set during user creation.

Default value:

```
userPassword
mail
kbaInfo
givenName
inetUserStatus
sn
username
```

**ssoadm** attribute: `userRegistrationValidUserAttributes`

## Destination After Successful Self-Registration

Specifies the action to be taken after a user successfully registers a new account. Choose from:

- `default`. User is sent to a success page without being logged in.
- `login`. User is sent to the login page to authenticate.
- `autologin`. User is automatically logged in and sent to the appropriate page.

The possible values for this property are:

```
default
login
auto-login
```

Default value: `default`

**ssoadm** attribute: `userRegisteredDestination`

### 2.2.29.3. Forgotten Password

The following settings appear on the **Forgotten Password** tab:

#### Forgotten Password

If enabled, users can reset their forgotten password.

Default value: `false`

**ssoadm** attribute: `forgottenPasswordEnabled`

#### Captcha

If enabled, users must pass a Google reCAPTCHA challenge during password reset to mitigate against software bots.

Default value: `false`

**ssoadm** attribute: `forgottenPasswordCaptchaEnabled`

## Email Verification

If enabled, users who reset passwords must perform email address verification.

Default value: `true`

**ssoadm** attribute: `forgottenPasswordEmailVerificationEnabled`

## Security Questions

If enabled, users must answer their security questions during the forgotten password process.

Default value: `false`

**ssoadm** attribute: `forgottenPasswordKbaEnabled`

## Token Lifetime (seconds)

Maximum lifetime for the token allowing forgotten password reset, in seconds.

Specify a value from 0 to 2147483647.

Default value: `900`

**ssoadm** attribute: `forgottenPasswordTokenTTL`

## Outgoing Email Subject

Customize the forgotten password email subject text. Format is `locale|subject text`.

Default value: `en|Forgotten password email`

**ssoadm** attribute: `forgottenPasswordEmailSubject`

## Outgoing Email Body

Customize the forgotten password email body text. Format is `locale|body text`.

Default value: `en|<h2>Click on this <a href="%link%">link</a> to reset your password.</h2>`

**ssoadm** attribute: `forgottenPasswordEmailBody`

## 2.2.29.4. Forgotten Username

The following settings appear on the **Forgotten Username** tab:

### Forgotten Username

If enabled, users can retrieve their forgotten username.

Default value: `false`

**ssoadm** attribute: `forgottenUsernameEnabled`

## Captcha

If enabled, users must pass a Google reCAPTCHA challenge during the forgotten username retrieval process to mitigate against software bots.

Default value: `false`

**ssoadm** attribute: `forgottenUsernameCaptchaEnabled`

## Security Questions

If enabled, users must answer their security questions during the forgotten username process.

Default value: `false`

**ssoadm** attribute: `forgottenUsernameKbaEnabled`

## Email Username

If enabled, users receive their forgotten username by email.

Default value: `true`

**ssoadm** attribute: `forgottenUsernameEmailUsernameEnabled`

## Show Username

If enabled, users see their forgotten username on the browser page.

Default value: `false`

**ssoadm** attribute: `forgottenUsernameShowUsernameEnabled`

## Token LifeTime (seconds)

Maximum lifetime for the token allowing forgotten username, in seconds.

Default value: `900`

**ssoadm** attribute: `forgottenUsernameTokenTTL`

## Outgoing Email Subject

Customizes the forgotten username email subject text. Format is `locale|subject text`.

Default value: `en|Forgotten username email`

**ssoadm** attribute: `forgottenUsernameEmailSubject`

## Outgoing Email Body

Customizes the forgotten username email body text. Format is `locale|body text`.

Default value: `en|<h2>Your username is <span style="color:blue">%username%</span>.</h2>`

**ssoadm** attribute: `forgottenUsernameEmailBody`

## 2.2.29.5. Profile Management

The following settings appear on the **Profile Management** tab:

### Protected Update Attributes

Specifies a profile's protected user attributes, which causes re-authentication when the user attempts to modify these attributes.

**ssoadm** attribute: `profileProtectedUserAttributes`

## 2.2.29.6. Advanced Configuration

The following settings appear on the **Advanced Configuration** tab:

### User Registration Confirmation Email URL

Specifies the confirmation URL that the user receives during the self-registration process. The `${realm}` string is replaced with the current realm.

Default value: `http://openam.example.com:8080/openam/XUI/?realm=${realm}#register/`

**ssoadm** attribute: `userRegistrationConfirmationUrl`

### Forgotten Password Confirmation Email URL

Specifies the confirmation URL that the user receives after confirming their identity during the forgotten password process. The `${realm}` string is replaced with the current realm.

Default value: `http://openam.example.com:8080/openam/XUI/?realm=${realm}#passwordReset/`

**ssoadm** attribute: `forgottenPasswordConfirmationUrl`

### User Registration Service Config Provider Class

Specifies the provider class to configure any custom plugins.

Default value: `org.forgerock.openam.selfservice.config.flows.UserRegistrationConfigProvider`

**ssoadm** attribute: `userRegistrationServiceConfigClass`

### Forgotten Password Service Config Provider Class

Specifies the provider class to configure any custom plugins.

Default value: `org.forgerock.openam.selfservice.config.flows.ForgottenPasswordConfigProvider`

**ssoadm** attribute: `forgottenPasswordServiceConfigClass`

## Forgotten Username Service Config Provider Class

Specifies the provider class to configure any custom plugins.

Default value: `org.forgerock.openam.selfservice.config.flows.ForgottenUsernameConfigProvider`

**ssoadm** attribute: `forgottenUsernameServiceConfigClass`

## 2.2.30. Validation Service

**ssoadm** service name: `validation`

### 2.2.30.1. Realm Defaults

The following settings appear on the *Realm Defaults* tab:

#### Valid goto URL Resources

List of valid goto URL resources.

OpenAM's default behavior after login or logout is to redirect the user to the URL specified in the `goto` or `gotoOnFail` query string parameters supplied to the authentication interface during login or logout.

To enhance security, a list of valid URL resources can be specified here so OpenAM can validate the `goto` and `gotoOnFail` URL against them.

OpenAM will only redirect a user after login or logout if the URL matches any of the resources specified in this property. If the URL does not match, the user is redirected to either the user profile page or administration console after login, or the logged out page after logout. If this property is not set, it is assumed that all redirect URLs are valid.

The resources defined here can have the `*` wildcard defined, which matches all characters except `?`. Example values for this setting:

- `http://app.example.com:80/*`
- `http://app.example.com:80/*?*`

**ssoadm** attribute: `validGotoDestinations`

## 2.3. Deployment Configuration

Under Deployment, you can manage different configurations for AM server instances, and site configurations when using multiple AM server instances.

This section describes the following sets of properties.

- Section 2.3.1, "Configuring Servers"

- Section 2.3.2, "Configuring Sites"

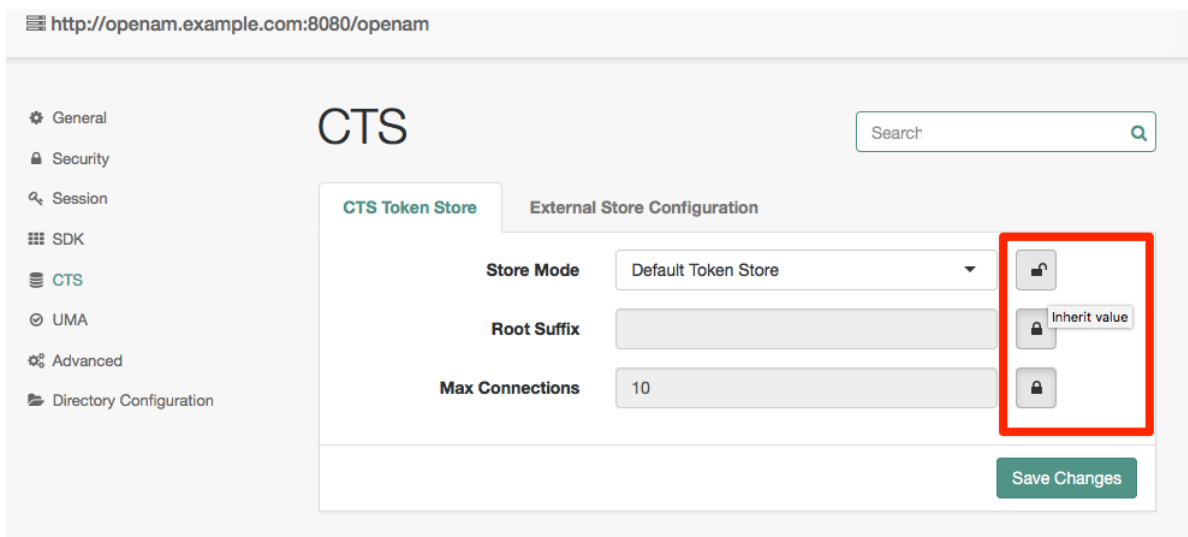
## 2.3.1. Configuring Servers

AM server properties reside in two places:

- The default configuration, under Configure > Server Defaults
- Per-server basis configuration, under Deployment > Servers > *Server Name*.

Default server properties are applied to all server instances, and can be overridden on a per-server basis. Changes to the value of a default server property are applied to all servers that are not overriding that property. The ability to set default properties and override them for an individual server allows you to keep a set of properties with identical configuration across the environment, while providing the flexibility to change properties on specific servers when required.

*Figure 2.1. Inherited Properties*



- A closed lock means the property is inherited from the defaults. To change an inherited value click on the lock, and the property will become localized for that server.
- An open lock means the property is localized for this server. To return to the inherited values, click on the lock.

The Advanced section also takes values from the defaults, but the properties do not have locks for inheritance. Instead, if you want to override a particular Advanced property value on a per-server basis, you need to add that property with its new value under Deployment > Servers > *Server Name* > Advanced.

**Note**

After changing server configurations, restart AM or the web application container where AM runs for the changes to take effect unless otherwise noted.

### 2.3.1.1. General Properties

The General page provides access to properties, such as site configuration, server base installation directory, default locale, debug levels, and other properties.

#### 2.3.1.1.1. Site

The following properties are available under the Site tab:

**Parent Site**

Specifies the site the server belongs to. The drop-down list defaults to `[empty]` until there is at least one site created in the deployment.

**Note**

The Site tab is only available by navigating to Deployment > Servers > *Server Name* > General.

#### 2.3.1.1.2. System

The following properties are available under the System tab:

**Base installation directory**

Specifies the directory where AM's configuration data and logs reside. For example, `/path/to/openam/openam`.

property: `com.iplanet.services.configpath`

**Default Locale**

Specifies the default locale of the UI pages when the client does not request a locale either by using the `locale` query string parameter or by setting the HTTP header, `Accept-Language`.

To set the locale when AM cannot find UI files for the requested locale, set the JVM platform locale instead.

Default: `en_US`

property: `com.iplanet.am.locale`

**Notification URL**

Specifies the URL of the notification service endpoint. For example, `https://openam.example.com:443/openam/notificationservice`

Default: `%SERVER_PROTO%://%SERVER_HOST%:%SERVER_PORT%/%SERVER_URI%/notificationsservice`

property: `com.sun.identity.client.notification.url`

## XML Validation

When enabled, AM validates any XML document it parses.

Default: `Off`

property: `com.iplanet.am.util.xml.validating`

### 2.3.1.1.3. Debugging

The following properties are available under the Debugging tab:

#### Debug Level

Specifies the log level shared across components for debug logging.

Changes to this property take effect immediately. No server restart is necessary.

Default: `Error`

property: `com.iplanet.services.debug.level`

#### Merge Debug Files

When enabled, AM writes debug log messages to a single file, `debug.out`. By default, AM writes a debug log per component.

Changes to this property take effect immediately. No server restart is necessary.

Default: `Off`

property: `com.iplanet.services.debug.mergeall`

#### Debug Directory

Specifies the path where AM writes debug logs. For example, `/path/to/openam/openam/debug`

Changes to this property do not take effect until you restart the AM server.

Default: `%BASE_DIR%/%SERVER_URI%/debug`

property: `com.iplanet.services.debug.directory`

### 2.3.1.1.4. Mail Server

The following properties are available under the Mail Server tab:

#### Mail Server Host Name

Specifies the hostname of the SMTP server AM uses for sending email.



Default: `localhost`

property: `com.ipplanet.am.smtphost`

### Mail Server Port Number

Specifies the port of the SMTP server AM uses for sending email.

Default: `25`

property: `com.ipplanet.am.smtpport`

## 2.3.1.2. Security Properties

Most security settings are inherited by default.

### 2.3.1.2.1. Encryption

The following properties are available under the Encryption tab:

#### Password Encryption Key

Specifies the encryption key for decrypting stored passwords.

The value of the `am.encryption.pwd` property must be the same for all deployed servers in a site. You can set the Password Encryption Key property at Deployment > Servers > *Server Name* > Security. Verify that all servers have the same setting for this property.

Example: `TF1Aue9c63bWTTY4mmZJeFYubJbNiSE3`

property: `am.encryption.pwd`

#### Authentication Service Shared Secret

Specifies the shared secret for application authentication

Example: `AQICQ7QMKN5TStlfpYFZBMZ8hRwkYkkrUaFk`

property: `com.ipplanet.am.service.secret`

#### Encryption class

Specifies the default class used to handle encryption

Default: `com.ipplanet.services.util.JCEEncryption`

property: `com.ipplanet.security.encryptor`

#### Secure Random Factory Class

Specifies the class used to provide AM with cryptographically strong random strings. Possible values are the `com.ipplanet.am.util.JSSSecureRandomFactoryImpl` class for JSS and the `com.ipplanet.am.util.SecureRandomFactoryImpl` class for pure Java.

Default: `com.iplanet.am.util.SecureRandomFactoryImpl`

property: `com.iplanet.security.SecureRandomFactorImpl`

#### 2.3.1.2.2. Validation

The following properties are available under the Validation tab:

##### **Platform Low Level Comm. Max. Content Length**

Specifies the maximum content length for an HTTP request.

Default: 16384

property: `com.iplanet.services.comm.server.pllrequest.maxContentLength`

##### **Client IP Address Check**

When enabled, AM checks client IP addresses when creating and validating SSO tokens.

Default: Disabled

property: `com.iplanet.am.clientIPCheckEnabled`

#### 2.3.1.2.3. Cookie

The following properties are available under the Cookie tab:

##### **Cookie Name**

Specifies the cookie name AM uses to set a session handler ID during authentication.

Default: `iPlanetDirectoryPro`

property: `com.iplanet.am.cookie.name`

##### **Secure Cookie**

When enabled, AM generates secure cookies, which are only transmitted over an encrypted connection like HTTPS.

Default: Disabled

property: `com.iplanet.am.cookie.secure`

##### **Encode Cookie Value**

When enabled, AM URL-encodes the cookie values.

Default: Disabled

property: `com.iplanet.am.cookie.encode`

#### 2.3.1.2.4. Key Store

The following properties are available under the Key Store tab:

##### Keystore File

Specifies the path to the AM keystore file, for example, `/path/to/openam/openam/keystore.jceks`.

Default: `%BASE_DIR%/%SERVER_URI%/keystore.jceks`

property: `com.sun.identity.saml.xmlsig.keystore`

##### Keystore Type

Specifies the keystore type—either JCEKS or JKS.

Default: `JCEKS`

property: `com.sun.identity.saml.xmlsig.storetype`

##### Keystore Password File

Specifies the path to the password file for the keystore, for example, `/path/to/openam/openam/.storepass`. The password contained in this file is in cleartext.

Default: `%BASE_DIR%/%SERVER_URI%/.storepass`

property: `com.sun.identity.saml.xmlsig.storepass`

##### Private Key Password File

Specifies the path to the password file for the private key aliases contained in the keystore, for example, `/path/to/openam/openam/.keypass`. The password contained in this file is in cleartext.

Default: `%BASE_DIR%/%SERVER_URI%/.keypass`

property: `com.sun.identity.saml.xmlsig.keypass`

##### Certificate Alias

Specifies the key alias to sign SAML v1.x XML files. If you do not require SAML v1.x functionality, you can leave the default `test` alias.

property: `com.sun.identity.saml.xmlsig.certalias`

#### 2.3.1.2.5. Certificate Revocation List Caching

The following properties are available under the Certificate Revocation List Caching tab:

##### LDAP server host name

Specifies the hostname of the LDAP server where AM caches the certificate revocation list (CRL).

property: `com.sun.identity.crl.cache.directory.host`

### LDAP server port number

Specifies the port number of the LDAP server where AM caches the certificate revocation list.

property: `com.sun.identity.crl.cache.directory.port`

### SSL/TLS Enabled

When enabled, AM connects securely to the directory server holding the CRL cache. Ensure that AM trust the certificate from the LDAP server when enabling this option.

Default: Disabled

property: `com.sun.identity.crl.cache.directory.ssl`

### LDAP server bind user name

Specifies the bind DN username AM uses to authenticate to the LDAP server holding the CRL cache.

property: `com.sun.identity.crl.cache.directory.user`

### LDAP server bind password

Specifies the bind password of the username set in the LDAP server bind user name property.

property: `com.sun.identity.crl.cache.directory.password`

### LDAP search base DN

Specifies a valid Base DN for the LDAP search, such as `dc=example,dc=com`.

property: `com.sun.identity.crl.cache.directory.searchlocs`

### Search Attributes

Specifies which DN component of issuer's subject DN is used to retrieve the CRL in the LDAP server, for example, `cn`.

property: `com.sun.identity.crl.cache.directory.searchattr`

## 2.3.1.2.6. Online Certificate Status Protocol Check

The following properties are available under the Online Certificate Status Protocol Check tab:

### Check Enabled

When enabled, AM checks the revocation status of certificates using the Online Certificate Status Protocol (OCSP).

Default: Disabled

property: `com.sun.identity.authentication.ocspCheck`

### Responder URL

Specifies the URL for the OCSP responder to contact about the revocation status of certificates.

property: `com.sun.identity.authentication.ocsp.responder.url`

### Certificate Nickname

Specifies the nickname for the OCSP responder certificate set in the Responder URL property.

property: `com.sun.identity.authentication.ocsp.responder.nickname`

## 2.3.1.2.7. Object Deserialisation Class Whitelist

### Whitelist

Specifies a list of classes that are considered valid when AM performs object deserialization operations.

Default: `com.ipplanet.dpro.session.DNOrIPAddressListTokenRestriction, com.sun.identity.common.CaseInsensitiveHashMap, com.sun.identity.common.CaseInsensitiveHashSet, com.sun.identity.common.CaseInsensitiveKey, com.sun.identity.common.configuration.ServerConfigXML, com.sun.identity.common.configuration.ServerConfigXML$DirUserObject, com.sun.identity.common.configuration.ServerConfigXML$ServerGroup, com.sun.identity.common.configuration.ServerConfigXML$ServerObject, com.sun.identity.console.base.model.SMSubConfig, com.sun.identity.console.service.model.SMDescriptionData, com.sun.identity.console.service.model.SMDiscoEntryData, com.sun.identity.console.session.model.SMSessionData, com.sun.identity.console.user.model.UMUserPasswordResetOptionsData, com.sun.identity.shared.datastruct.OrderedSet, com.sun.xml.bind.util.ListImpl, com.sun.xml.bind.util.ProxyListImpl, java.lang.Boolean, java.lang.Integer, java.lang.Number, java.lang.StringBuffer, java.net.InetAddress, java.security.cert.Certificate, java.security.cert.Certificate$CertificateRep, java.util.ArrayList, java.util.Collections$EmptyMap, java.util.Collections$EmptySet, java.util.Collections$SingletonList, java.util.HashMap, java.util.HashSet, java.util.LinkedHashSet, java.util.Locale, org.forgerock.openam.authentication.service.protocol.RemoteCookie, org.forgerock.openam.authentication.service.protocol.RemoteHttpServletRequest, org.forgerock.openam.authentication.service.protocol.RemoteHttpServletResponse, org.forgerock.openam.authentication.service.protocol.RemoteServletRequest, org.forgerock.openam.authentication.service.protocol.RemoteServletResponse, org.forgerock.openam.authentication.service.protocol.RemoteSession, org.forgerock.openam.dpro.session.NoOpTokenRestriction`

property: `openam.deserialisation.classes.whitelist`

## 2.3.1.3. Session Properties

Session settings are inherited by default.

### 2.3.1.3.1. Session Limits

The following properties are available under the Sessions Limits tab:

## Maximum Session Cache Size

Specifies the maximum number of sessions to cache in the AM server's internal session cache.

Default: `5000`

property: `org.forgerock.openam.session.service.access.persistence.caching.maxsize`

## Invalidate Session Max Time

Specifies the time in minutes after which invalid stateful sessions are removed from the session table.

Default: `3` (minutes)

property: `com.iplanet.am.session.invalidsessionmaxtime`

### 2.3.1.3.2. Statistics

The following properties are available under the Statistics tab:

#### Logging Interval (in seconds)

Specifies the time in seconds AM delays between logging stateful session statistics. Any value lower than `5` is interpreted as `5` seconds.

Default: `60`

property: `com.iplanet.am.stats.interval`

#### State

Specifies whether to write statistics to a `File`, to the `Console`, or to turn recording `Off`.

Default: `File`

property: `com.iplanet.services.stats.state`

#### Directory

Specifies the path where AM writes the statistic files, for example, `/path/to/openam/openam/stats`.

Default: `%BASE_DIR%/%SERVER_URI%/stats`

property: `com.iplanet.services.stats.directory`

#### Enable Host Lookup

When enabled, AM performs host lookup during stateful session logging.

Default: `Disabled`

property: `com.sun.am.session.enableHostLookUp`

### 2.3.1.3.3. Notification

The following properties are available under the Notification tab:

#### Notification Pool Size

Specifies the number of threads in the session change notification thread pool. Session notification applies to stateful sessions only.

Default: 10

property: `com.iplanet.am.notification.threadpool.size`

#### Notification Thread Pool Threshold

Specifies the maximum number of tasks in the queue for serving session change notification threads. Session notification applies to stateful sessions only.

Default: 5000

property: `com.iplanet.am.notification.threadpool.threshold`

### 2.3.1.3.4. Validation

The following properties are available under the Validation tab:

#### Case Insensitive client DN comparison

When enabled, AM performs case insensitive distinguished name comparison.

Default: Enabled

property: `com.sun.am.session.caseInsensitiveDN`

### 2.3.1.4. SDK Properties

Most SDK settings are inherited.

#### 2.3.1.4.1. Data Store

The following properties are available under the Data Store tab:

#### Enable Datastore Notification

When enabled, AM uses data store notification. Otherwise, AM uses in-memory notification.

Changes to this property take effect immediately. No server restart is necessary.

Default: Enabled

property: `com.sun.identity.sm.enableDataStoreNotification`

### Enable Directory Proxy

When enabled, AM accounts for the use of a directory proxy to access the directory server.

Default: `Disabled`

property: `com.sun.identity.sm.ldap.enableProxy`

### Notification Pool Size

Specifies the thread pool size of the service management notification service.

Default: `10`

property: `com.sun.identity.sm.notification.threadpool.size`

#### 2.3.1.4.2. Event Service

The following properties are available under the Event Service tab:

##### Number of retries for Event Service connections

Specifies the maximum number of attempts to reestablish event service connections.

Default: `3`

property: `com.iplanet.am.event.connection.num.retries`

##### Delay between Event Service connection retries

Specifies the time in milliseconds between attempts to reestablish entry service connections.

Default: `3000`

property: `com.iplanet.am.event.connection.delay.between.retries`

##### Error codes for Event Service connection retries

Specifies the LDAP error codes for which AM retries rather than returning failure.

Default: `80,81,91`

property: `com.iplanet.am.event.connection.ldap.error.codes.retries`

##### Disabled Event Service Connection

Specifies which persistent search connections AM can disable. Any connection that is not specified as disabled is enabled. Possible values are:

- `aci`. Obtain notification changes to the `aci` attribute.
- `um`. Obtain notification changes in AM's user store. For example, modifying a password.



- **sm**. Obtain notification changes in AM's configuration store. For example, creating a realm.

Multiple values should be separated with a comma ,.

Default: `aci,um`

property: `com.sun.am.event.connection.disable.list`

#### 2.3.1.4.3. LDAP Connection

The following properties are available under the LDAP Connection tab:

##### **Number of retries for LDAP Connection**

Specifies the maximum number of attempts to reestablish LDAP connections.

Default: `3`

property: `com.iplanet.am.ldap.connection.num.retries`

##### **Delay between LDAP connection retries**

Specifies the time, in milliseconds, between attempts to reestablish LDAP connections.

Default: `1000`

property: `com.iplanet.am.ldap.connection.delay.between.retries`

##### **Error Codes for LDAP connection retries**

Specifies the LDAP error codes for which AM retries rather than returning failure.

Default: `80,81,91`

property: `com.iplanet.am.ldap.connection.ldap.error.codes.retries`

#### 2.3.1.4.4. Caching and Replica

The following properties are available under the Caching and Replica tab:

##### **SDK Caching Max. Size**

Specifies the cache size used when SDK caching is enabled. The size should be an integer greater than 0, or the default size of `10000` will be used.

Changes to this property clear the contents of the cache. No server restart is necessary.

Default: `10000`

property: `com.iplanet.am.sdk.cache.maxSize`

### SDK Replica Retries

Specifies the maximum number of attempts to retry when an entry not found error is returned to the SDK.

Changes to this property take effect immediately. No server restart is necessary.

Default: 0

property: `com.iplanet.am.replica.num.retries`

### Delay between SDK Replica Retries

Specifies the time in milliseconds between attempts to retrieve entries through the SDK.

Changes to this property take effect immediately. No server restart is necessary.

Default: 1000

property: `com.iplanet.am.replica.delay.between.retries`

## 2.3.1.4.5. Time To Live Configuration

The following properties are available under the Time to Live Configuration tab:

### Cache Entry Expiration Enabled

When disabled, cache entries expire based on the User Entry Expiration Time property.

Default: Disabled

property: `com.iplanet.am.sdk.cache.entry.expire.enabled`

### User Entry Expiration Time

Specifies the time in minutes for which user entries remain valid in cache after their last modification. When AM accesses a user entry that has expired, it reads the entry from the directory server instead of from the cache.

Default: 15

property: `com.iplanet.am.sdk.cache.entry.user.expire.time`

### Default Entry Expiration Time

Specifies the time in minutes for which non-user entries remain valid in cache after their last modification. When AM accesses a non-user entry that has expired, it reads the entry from the directory server instead of from the cache.

Default: 30

property: `com.iplanet.am.sdk.cache.entry.default.expire.time`

### 2.3.1.5. CTS Properties

The Core Token Service (CTS) does not need to be configured in the same LDAP storage as the external or embedded configuration store. The CTS can instead be configured on its own external directory server. There are some specific requirements for indexing and replication which need to be accounted for. In particular, WAN replication is an important consideration which needs to be handled carefully for optimum performance.

You may also choose to set advanced properties related to token size, including `com.sun.identity.session.repository.enableEncryption`, `com.sun.identity.session.repository.enableCompression`, and `com.sun.identity.session.repository.enableAttributeCompression`. For more information about these three properties, see [Section 2.3.1.7, "Advanced Properties"](#).

#### 2.3.1.5.1. CTS Token Store

The following properties are available under the CTS Token Store tab:

##### Store Mode

Specifies whether AM stores CTS tokens in the default token store or in an external token store.

CTS tokens are stored in the same external or embedded data store used for the AM configuration when you specify the `Default Token Store` option. When specifying this option, you can only configure the properties available under the CTS Token Store tab.

You can separate the CTS store from the AM configuration on different external servers by selecting the `External Token Store` option. When specifying this option, you can configure the properties available under both the CTS Token Store and the External Store Configuration tabs.

##### Root Suffix

For either default or external token stores, specifies the base DN for CTS storage information in LDAP format, such as `dc=cts,dc=forgerock,dc=com`. The Root Suffix specifies a database that can be maintained and replicated separately from the standard user data store.

##### Max Connections

Specifies the maximum number of remote connections to the external data store. For affinity deployments, this property specifies the maximum number of remote connections to each directory server in the connection string.

Default: `10`

For suggested settings, see [Section 8.4.1.2.3, "Tuning LDAP CTS and Configuration Store Settings"](#) in the *Setup and Maintenance Guide*.

#### 2.3.1.5.2. External Store Configuration

AM honors the following properties when `External Token Store` is selected under the CTS Token Store tab:

## SSL/TLS Enabled

When enabled, AM accesses the external directory service using StartTLS or SSL.

## Connection String(s)

Specifies the ordered list of connection strings for external DS servers. The format is `HOST:PORT[|SERVERID[|SITEID]]`, where `HOST:PORT` are the LDAP server and its port. `SERVERID` and `SITEID` are optional parameters to specify an AM instance that prioritizes the particular connection. This does not exclude other AM instances from using that connection, although they must have no remaining priority connections available to them before they use it.

When a failed DS server becomes available again, AM instances create new connections to it based on the order specified in the list.

Examples for active/passive deployments:

`cts-dj1.example.com:389,cts-dj2.example.com:389`

Every AM instance accesses `cts-dj1.example.com:389` for all CTS operations. If it goes down, they access `cts-dj2.example.com:389`.

Every instance will open new connections to `cts-dj1.example.com:389` when it becomes available.

`cts-dj1.example.com:389|1|1,cts-dj2.example.com:389|2|1`

Server 1 site 1 gives priority to `cts-dj1.example.com:389`. Server 2 site 1 gives priority to `cts-dj2.example.com:389`. Any server not specified accesses the first server on the list, while it is available.

If `cts-dj1.example.com:389` goes down, server 1 site 1 accesses `cts-dj2.example.com:389`. Any server not specified access the second server on the list.

If `cts-dj2.example.com:389` goes down, server 2 site 1 accesses `cts-dj1.example.com:389`. Any server not specified still accesses the first server on the list.

Server 1 site 1 and any server not specified will open new connections to `cts-dj1.example.com:389` when it becomes available. Only server 2 site 1 will open new connections to `cts-dj2.example.com:389` when it becomes available.

`cts-dj1.example.com:389|1|1,cts-dj2.example.com:389|1|1,cts-dj3.example.com:389|1|2`

Server 1 site 1 gives priority to `cts-dj1.example.com:389`. Any server not specified accesses the first server on the list, while it is available.

If `cts-dj1.example.com` goes down, server 1 site 1 accesses `cts-dj2.example.com:389`. Any server not specified accesses the second server on the list.

If both `cts-dj1.example.com` and `cts-dj2.example.com` go down, server 1 site 1 accesses `cts-dj3.example.com:389` in site 2. Any server not specified accesses the third server on the list.

Server 1 site 1 and any server not specified will open new connections to any server in site 1 when they become available, with `cts-dj1.example.com` being the preferred server.

Example for affinity deployments:

```
cts-dj1.example.com:389,cts-dj2.example.com:389,cts-dj3.example.com:389,cts-dj4.example.com:389
```

Access CTS tokens from one of the four servers listed in the connection string. For any given CTS token, AM determines the token's affinity for one of the four servers, and always accesses the token from that same server. Tokens are distributed equally across the four servers.

### Login Id

Specifies the user, in DN format, needed to authenticate to the external data store. The user needs sufficient privileges to read and write to the root suffix of the external data store.

### Password

Specifies the password associated with the login ID.

### Heartbeat

Specifies how often AM should send a heartbeat request to the directory server to ensure that the connection does not remain idle, in seconds. Configure the heartbeat to ensure that network hardware, such as routers and firewalls, does not drop the connection between AM and the directory server.

Default: **10**

### Affinity Enabled

When enabled, specifies whether to access the CTS token store by using multiple directory instances in an affinity deployment rather than a single master directory instance using an active/passive deployment.

When you enable this option, you must ensure that the value of the Connection String(s) property is identical for every server in multi-server deployments.

Default: Disabled

## 2.3.1.6. UMA Properties

UMA server settings are inherited by default.

### 2.3.1.6.1. Resource Sets Store

The following settings appear on the Resource Sets Store tab:

#### Store Mode

Specifies the data store where AM stores UMA tokens. Possible values are:

- **Default Token Store**: AM stores UMA tokens in the embedded data store.

- **External Token Store:** AM stores UMA tokens in an external data store.

### Root Suffix

Specifies the base DN for storage information in LDAP format, such as `dc=uma-rs,dc=forgerock,dc=com`.

### Max Connections

Specifies the maximum number of connections to the data store.

## 2.3.1.6.2. External Resource Sets Store Configuration

AM honors the following properties when **External Token Store** is selected under the Resource Sets Store tab:

### SSL/TLS Enabled

When enabled, AM uses SSL or TLS to connect to the external data store. Make sure AM trusts the data store's certificate when using this option.

### Connection String(s)

Specifies an ordered list of connection strings for external data stores. The format is `HOST:PORT[|SERVERID[|SITEID]]`, where `HOST:PORT` specify the FQDN and port of the data store, and `SERVERID` and `SITEID` are optional parameters that let you prioritize the particular connection when used by the specified node(s).

Multiple connection strings must be comma-separated, for example, `uma-ldap1.example.com:389|1|1,uma-ldap2.example.com:389|2|1`.

See the entry for Connection String(s) in [Section 2.3.1.5, "CTS Properties"](#) for more syntax examples.

### Login Id

Specifies the username AM uses to authenticate to the data store. This user must be able to read and write to the root suffix of the data store.

### Password

Specifies the password associated with the login ID property.

### Heartbeat

Specifies, in seconds, how often AM should send a heartbeat request to the data store to ensure that the connection does not remain idle.

Default: `10`

## 2.3.1.6.3. UMA Audit Store

The following settings appear on the UMA Audit Store tab:

## Store Mode

Specifies the data store where AM stores audit information generated when users access UMA resources. Possible values are:

- **Default Token Store**: AM stores UMA audit information in the embedded data store.
- **External Token Store**: AM stores UMA audit information in an external data store.

## Root Suffix

Specifies the base DN for storage information in LDAP format, such as `dc=uma-rs,dc=forgerock,dc=com`.

## Max Connections

Specifies the maximum number of connections to the data store.

### 2.3.1.6.4. External UMA Audit Store Configuration

AM honors the following properties when **External Token Store** is selected under the UMA Audit Store tab:

#### SSL/TLS Enabled

When enabled, AM uses SSL or TLS to connect to the external data store. Make sure AM trusts the data store's certificate when using this option.

#### Connection String(s)

Specifies an ordered list of connection strings for external data stores. The format is `HOST:PORT[|SERVERID[|SITEID]]`, where `HOST:PORT` specify the FQDN and port of the data store, and `SERVERID` and `SITEID` are optional parameters that let you prioritize the particular connection when used by the specified node(s).

Multiple connection strings must be comma-separated, for example, `uma-ldap1.example.com:389|1|1,uma-ldap2.example.com:389|2|1`.

See the entry for Connection String(s) in [Section 2.3.1.5, "CTS Properties"](#) for more syntax examples.

#### Login Id

Specifies the username AM uses to authenticate to the data store. This user must be able to read and write to the root suffix of the data store.

#### Password

Specifies the password associated with the login ID property.

#### Heartbeat

Specifies, in seconds, how often AM should send a heartbeat request to the data store to ensure that the connection does not remain idle.

Default: 10

#### 2.3.1.6.5. Pending Requests Store

The following settings appear on the Pending Requests Store tab:

##### Store Mode

Specifies the data store where AM stores pending requests to UMA resources. Possible values are:

- **Default Token Store**: AM stores UMA pending requests in the embedded data store.
- **External Token Store**: AM stores UMA pending requests in an external data store.

##### Root Suffix

Specifies the base DN for storage information in LDAP format, such as `dc=uma-rs,dc=forgerock,dc=com`.

##### Max Connections

Specifies the maximum number of connections to the data store.

#### 2.3.1.6.6. External Pending Requests Store Configuration

AM honors the following properties when **External Token Store** is selected under the Pending Requests Store tab:

##### SSL/TLS Enabled

When enabled, AM uses SSL or TLS to connect to the external data store. Make sure AM trusts the data store's certificate when using this option.

##### Connection String(s)

Specifies an ordered list of connection strings for external data stores. The format is `HOST:PORT[SERVERID[|SITEID]]`, where `HOST:PORT` specify the FQDN and port of the data store, and `SERVERID` and `SITEID` are optional parameters that let you prioritize the particular connection when used by the specified node(s).

Multiple connection strings must be comma-separated, for example, `uma-ldap1.example.com:389|1|1,uma-ldap2.example.com:389|2|1`.

See the entry for Connection String(s) in Section 2.3.1.5, "CTS Properties" for more syntax examples.

##### Login Id

Specifies the username AM uses to authenticate to the data store. This user must be able to read and write to the root suffix of the data store.



## Password

Specifies the password associated with the login ID property.

## Heartbeat

Specifies, in seconds, how often AM should send a heartbeat request to the data store to ensure that the connection does not remain idle.

Default: 10

### 2.3.1.6.7. UMA Resource Set Labels Store

The following settings appear on the UMA Resource Set Labels Store tab:

#### Store Mode

Specifies the data store where AM stores user-created labels used for organizing UMA resource sets. Possible values are:

- **Default Token Store**: AM stores user-created labels in the embedded data store.
- **External Token Store**: AM stores user-created labels in an external data store.

#### Root Suffix

Specifies the base DN for storage information in LDAP format, such as `dc=uma-rs,dc=forgerock,dc=com`.

#### Max Connections

Specifies the maximum number of connections to the data store.

### 2.3.1.6.8. External Resource Set Labels Store Configuration

AM honors the following properties when **External Token Store** is selected under the UMA Resource Set Labels Store tab.

#### SSL/TLS Enabled

When enabled, AM uses SSL or TLS to connect to the external data store. Make sure AM trusts the data store's certificate when using this option.

#### Connection String(s)

Specifies an ordered list of connection strings for external data stores. The format is `HOST:PORT[SERVERID[|SITEID]]`, where `HOST:PORT` specify the FQDN and port of the data store, and `SERVERID` and `SITEID` are optional parameters that let you prioritize the particular connection when used by the specified node(s).

Multiple connection strings must be comma-separated, for example, `uma-ldap1.example.com:389|1|1,uma-ldap2.example.com:389|2|1`.

See the entry for Connection String(s) in Section 2.3.1.5, "CTS Properties" for more syntax examples.

### Login Id

Specifies the username AM uses to authenticate to the data store. This user must be able to read and write to the root suffix of the data store.

### Password

Specifies the password associated with the login ID property.

### Heartbeat

Specifies, in seconds, how often AM should send a heartbeat request to the data store to ensure that the connection does not remain idle.

Default: `10`

## 2.3.1.7. Advanced Properties

Each server has a list of advanced properties that can be modified by navigating to Deployment > Servers > *Server Name* > Advanced. For a list of inherited advanced properties relevant to all servers, navigate to Configure > Server Defaults > Advanced.

#### `bootstrap.file`

File that contains the path to the AM installation, for example, `/path/to/openam/.openamcfg/AMConfig_usr_local_apache-tomcat-8.0.35_webapps_openam_`

#### `com.forgerock.openam.dj.backendType`

The backend type for the embedded DS server.

Default: `je`

#### `com.ipplanet.am.cookie.c66Encode`

Properly URL encode session tokens.

Default: `true`

#### `com.ipplanet.am.daemons`

Modules for which to open daemons at AM startup.

Default: `securid`

#### `com.ipplanet.am.directory.ssl.enabled`

Whether to connect to the configuration directory server over LDAPS.

Default: `false`

**com.iplanet.am.installdir**

AM Configuration and log file location.

Default: `~/openam/server-uri`, such as `~/openam/openam`

**com.iplanet.am.jssproxy.checkSubjectAltName**

When using JSS or JSSE, check whether the name values in the `SubjectAltName` certificate match the server FQDN.

Default: `false`

**com.iplanet.am.jssproxy.resolveIPAddress**

When using JSS or JSSE, check that the IP address of the server resolves to the host name.

Default: `false`

**com.iplanet.am.jssproxy.SSLTrustHostList**

When using JSS or JSSE, comma-separated list of server FQDNs to trust if they match the certificate CN, even if the domain name is not correct.

**com.iplanet.am.jssproxy.trustAllServerCerts**

When using JSS or JSSE, set to `true` to trust whatever certificate is presented without checking.

Default: `true`

**com.iplanet.am.lbcookie.name**

Used with sticky load balancers that can inspect the cookie value.

Default: `amlbcookie`

**com.iplanet.am.lbcookie.value**

Used with sticky load balancers that can inspect the cookie value. Set this property to a unique value if your load balancer requires it. Restart AM for the change to take effect.

Default: `01`

**com.iplanet.am.pcookie.name**

Persistent cookie name.

Default: `DProPCookie`

**com.iplanet.am.profile.host**

Not used

Default: `server-host`, such as `openam.example.com`

**com.iplanet.am.profile.port**

Not used

Default: *server-port*, such as 8080 or 8443

#### `com.ipplanet.am.sdk.caching.enabled`

Enables caching for configuration data and user data. See Section 8.4.3.1, "Overall Server Cache Settings" in the *Setup and Maintenance Guide* for important information about this property.

Changes to this property take effect immediately. No server restart is necessary.

Default: `true`

#### `com.ipplanet.am.session.agentSessionIdleTime`

Time in *minutes* after which a policy agent's stateful session expires. Note that this setting is ignored when AM creates a stateless session for a policy agent.

Default: 0 (never time out). You can set this property to 0, or 30 and higher (no maximum limit).

#### `com.ipplanet.am.session.client.polling.enable`

Whether client applications such as policy agents poll for stateful session changes. If `false`, then client applications register listeners for notifications about changes to stateful sessions.

Default: `false`

#### `com.ipplanet.am.session.client.polling.period`

If client applications poll for changes, number of seconds between polls.

Default: 180

#### `com.ipplanet.am.session.failover.cluster.stateCheck.period`

Time in milliseconds between health checks of other servers in the same site.

Default: 1000

#### `com.ipplanet.am.session.failover.cluster.stateCheck.timeout`

Socket timeout in milliseconds for health checks of other servers in the same site.

Default: 1000

#### `com.ipplanet.am.session.httpSession.enabled`

Create an `HttpSession` for users on successful authentication.

Default: `true`

#### `com.ipplanet.security.SSLSocketFactoryImpl`

SSL socket factory implementation used by AM.

Default: `com.sun.identity.shared.ldap.factory.JSSESocketFactory`, uses a pure Java provider

#### `com.ipplanet.services.cdc.invalidGotoStrings`

Strings that AM rejects as values in `goto` query string parameters.

Default: `<,>javascript:,javascript%3a,%3c,%3e`

#### `com.sun.embedded.replicationport`

Replication port for the embedded DS server.

Default: `8989`

#### `com.sun.embedded.sync.servers`

This setting applies to multi-server AM deployments that use the embedded DS store.

When this property is set to `on`, AM servers check during startup to determine whether the replication settings for the embedded store are consistent with the number of servers in the site. If they are not consistent, AM reconfigures replication to match the existing number of servers in the site.

Default: `on`

#### `com.sun.identity.am.cookie.check`

Whether to check for cookie support in the user agent, and if not to return an error.

Default: `false`

#### `com.sun.identity.appendSessionCookieInURL`

Whether to append the session cookie to URL for a zero page session.

Default: `true`

#### `com.sun.identity.auth.cookieName`

Cookie used by the AM authentication service to handle the authentication process.

Default: `AMAuthCookie`

#### `com.sun.identity.authentication.client.ipAddressHeader`

Set the name of the HTTP header that AM can examine to learn the client IP address when requests go through a proxy or load balancer. (When requests go through an HTTP proxy or load balancer, checking the IP address on the request alone returns the address of the proxy or load balancer rather than that of the client.) AM must be able to trust the proxy or load balancer to set the client IP address correctly in the header specified.

Example: `com.sun.identity.authentication.client.ipAddressHeader=X-Forwarded-For`

#### `com.sun.identity.authentication.multiple.tabs.used`

Whether to allow users to open many browser tabs to the login page at the same time without encountering an error.

Default: `false`

#### `com.sun.identity.authentication.setCookieToAllDomains`

Whether to allow multiple cookie domains.

Default: `true`

#### `com.sun.identity.authentication.special.users`

List of special users always authenticated against the local directory server.

Default: `cn=dsameuser,ou=DSAME Users,dc=openam,dc=forgerock,dc=org|cn=amService-UrlAccessAgent,ou=DSAME Users,dc=openam,dc=forgerock,dc=org`

#### `com.sun.identity.authentication.super.user`

AM privileged administrator user.

Default: `uid=amAdmin,ou=People,dc=openam,dc=forgerock,dc=org`

#### `com.sun.identity.authentication.uniqueCookieName`

When cookie hijacking protection is configured, name of the cookie holding the URL to the AM server that authenticated the user.

Default: `sunIdentityServerAuthNServer`

#### `com.sun.identity.client.notification.url`

Notification service endpoint for clients such as policy agents.

Default: `server-protocol://server-host:server-port/server-uri/notificationservice`, such as `https://openam.example.com:8443/openam/notificationservice`

#### `com.sun.identity.common.systemtimerpool.size`

Number of threads in the shared system timer pool used to schedule operations such as session timeout.

Default: `3`

#### `com.sun.identity.cookie.httponly`

When set to `true`, mark cookies as HTTPOnly to prevent scripts and third-party programs from accessing the cookies.

Note that this configuration option is used only in non-XUI deployments. The XUI cannot set the HTTPOnly name in a cookie.

Default: `false`

#### `com.sun.identity.enableUniqueSSOTokenCookie`

If `true`, then AM is using protection against cookie hijacking.

Default: `false`

#### `com.sun.identity.jss.donotInstallAtHighestPriority`

Whether JSS should take priority over other providers.

Default: `true`

#### `com.sun.identity.monitoring`

Whether monitoring is active for AM.

Default: `off`

#### `com.sun.identity.monitoring.local.conn.server.url`

URL for local connection to the monitoring service.

Default: `service:jmx:rmi://`

#### `com.sun.identity.password.deploymentDescriptor`

Internal property used by AM.

Default: `server-uri`, such as `openam`

#### `com.sun.identity.policy.Policy.policy_evaluation_weights`

Weights of the cost of evaluating policy subjects, rules, and conditions. Evaluation is in order of heaviest weight to lightest weight.

Default: `10:10:10`, meaning evaluation of rules, then conditions, then subjects

#### `com.sun.identity.policy.resultsCacheMaxSize`

Maximum number of policy decisions AM caches.

Default: `10000`

#### `com.sun.identity.security.checkcaller`

Whether to perform a Java security permissions check for AM.

Default: `false`

#### `com.sun.identity.server.fqdnMap`

Enables virtual hosts, partial hostname and IP address. Maps invalid or virtual name keys to valid FQDN values for proper redirection.

To map `myserver` to `myserver.example.com`, set `com.sun.identity.server.fqdnMap[myserver]=myserver.example.com`.

#### `com.sun.identity.session.repository.enableAttributeCompression`

For additional compression of CTS token JSON binaries, beyond GZip, if desired.

Default: `false`

#### `com.sun.identity.session.repository.enableCompression`

For GZip-based compression of CTS tokens, if desired.

Default: `false`

#### `com.sun.identity.session.repository.enableEncryption`

Enables tokens to be encrypted when stored.

Multi-instance deployments require consistent use of this property, which should be configured under Configure > Server Defaults > Advanced.

The `am.encryption.pwd` property must also be the same for all deployed instances. You can set the Password Encryption Key property under Deployment > Servers > *Server Name* > Security. Verify that all servers have the same setting for this property.

Default: `false`

#### `com.sun.identity.sm.cache.enabled`

Enables service configuration caching. See Section 8.4.3.1, "Overall Server Cache Settings" in the *Setup and Maintenance Guide* for important information about this property.

Changes to this property take effect immediately. No server restart is necessary.

Default: `true`

#### `com.sun.identity.sm.cache.ttl`

When service configuration caching time-to-live is enabled, this sets the time to live in minutes.

Changes to this property take effect immediately. No server restart is necessary.

Default: `30`

#### `com.sun.identity.sm.cache.ttl.enable`

If service configuration caching is enabled, whether to enable a time-to-live for cached configuration.

Changes to this property take effect immediately. No server restart is necessary.

Default: `false`

#### `com.sun.identity.sm.flatfile.root_dir`

File system directory to hold file-based representation of AM configuration.

Default: `~/openam/server-uri/sms` such as `~/openam/openam/sms`



#### `com.sun.identity.sm.sms_object_class_name`

Class used to read and write AM service configuration entries in the directory.

Default: `com.sun.identity.sm.ldap.SMSEmbeddedLdapObject`

#### `com.sun.identity.url.readTimeout`

Used to set the read timeout in milliseconds for HTTP and HTTPS connections to other servers.

Default: `30000`

#### `com.sun.identity.urlchecker.dorequest`

Whether to perform an HTTP GET on `com.sun.identity.urlchecker.targeturl` as a health check against another server in the same site.

If set to `false`, then AM only checks the Socket connection, and does not perform an HTTP GET.

If each AM server runs behind a reverse proxy, then the default setting of `true` means the health check actually runs against the AM instance, rather than checking only the Socket to the reverse proxy.

Default: `true`

#### `com.sun.identity.urlchecker.targeturl`

URL to monitor when `com.sun.identity.urlchecker.dorequest` is set to `true`.

Default: URL to the `/openam/namingservice` endpoint on the remote server

#### `com.sun.identity.urlconnection.useCache`

Whether to cache documents for HTTP and HTTPS connections to other servers.

Default: `false`

#### `com.sun.identity.webcontainer`

Name of the web container to correctly set character encoding, if necessary.

Default: `WEB_CONTAINER`

#### `console.privileged.users`

Used to assigned privileged console access to particular users. Set to a `|` separated list of users'

Universal IDs, such as `console.privileged.users=uid=demo,ou=user,dc=openam,dc=forgerock,dc=org|uid=demo2,ou=user,dc=openam,dc=forgerock,dc=org`.

#### `openam.auth.destroy_session_after_upgrade`

Where to destroy the old session after a session is successfully upgraded.

Default: `true`

**openam.auth.distAuthCookieName**

Cookie used by the AM distributed authentication service to handle the authentication process.

Default: `AMDistAuthCookie`

**openam.auth.session\_property\_upgrader**

Class that controls which session properties are copied during session upgrade, where default is to copy all properties to the upgraded session.

Default: `org.forgerock.openam.authentication.service.DefaultSessionPropertyUpgrader`

**openam.auth.version.header.enabled**

The X-DSAMEVersion http header provides detailed information about the version of AM currently running on the system, including the build and date/time of the build. AM will need to be restarted once this property is enabled.

Default: `false`

**openam.authentication.ignore\_goto\_during\_logout**

Whether to ignore the `goto` query string parameter on logout, instead displaying the logout page.

Default: `false`

**openam.cdm.default.charset**

Character set used for globalization.

Default: `UTF-8`

**openam.forbidden.to.copy.headers**

Comma-separated list of HTTP headers not to copy when the distributed authentication server forwards a request to another distributed authentication server.

Default: `connection`

**openam.forbidden.to.copy.request.headers**

Comma-separated list of HTTP headers not to copy when the distributed authentication server forwards a request to another distributed authentication server.

Default: `connection`

**openam.retained.http.headers**

Comma-separated list of HTTP headers to copy to the forwarded response when the server forwards a request to another server.

Requests are forwarded when the server receiving the request is not the server that originally initiated authentication. The server that originally initiated authentication is identified by a cookie.

When the distributed authentication service (DAS) is in use, then the cookie is the `AMDistAuthCookie` that identifies the DAS server by its URL.

When authentication is done directly on AM, then the cookie is the `AMAuthCookie` that holds a session ID that identifies the AM server.

On subsequent requests the server receiving the request checks the cookie. If the cookie identifies another server, the current server forwards the request to that server.

If a header such as `Cache-Control` has been included in the list of values for the property `openam.retained.http.request.headers` and the header must also be copied to the response, then add it to the list of values for this property.

Example: `openam.retained.http.headers=X-DSAMEVersion,Cache-Control`

Default: `X-DSAMEVersion`

#### `openam.retained.http.request.headers`

Comma-separated list of HTTP headers to copy to the forwarded request when the server forwards a request to another server.

Requests are forwarded when the server receiving the request is not the server that originally initiated authentication. The server that originally initiated authentication is identified by a cookie.

When the distributed authentication service (DAS) is in use, then the cookie is the `AMDistAuthCookie` that identifies the DAS server by its URL.

When authentication is done directly on AM, then the cookie is the `AMAuthCookie` that holds a session ID that identifies the AM server.

On subsequent requests the server receiving the request checks the cookie. If the cookie identifies another server, the current server forwards the request to that server.

When configuring the distributed authentication service, or when a reverse proxy is set up to provide the client IP address in the `X-Forwarded-For` header, if your deployment includes multiple AM servers, then this property must be set to include the header.

Example: `openam.retained.http.request.headers=X-DSAMEVersion,X-Forwarded-For`

AM copies the header when forwarding a request to the authoritative server where the client originally began the authentication process, so that the authoritative AM server receiving the forwarded request can determine the real client IP address.

In order to retain headers to return in the response to the AM server that forwarded the request, use the property `openam.retained.http.headers`.

Default: `X-DSAMEVersion`

#### `openam.session.case.sensitive.uuid`

Whether universal user IDs are considered case sensitive when matching them.

Default: `false`

#### `opensso.protocol.handler.pkgs`

If the web application containers sets `java.protocol.handler.pkgs`, then set this property to `com.sun.identity.protocol`.

#### `org.forgerock.openam.audit.access.attempt.enabled`

Specifies whether AM should log `AM-ACCESS-ATTEMPT` events to the audit logs. These events are a subset of the information included in `AM-ACCESS-OUTCOME` events, which are also logged.

Possible values are:

- `true`. AM logs both `AM-ACCESS-ATTEMPT` and `AM-ACCESS-OUTCOME` events. This setting increases I/O activity and could affect performance.
- `false`. AM logs only `AM-ACCESS-OUTCOME` events.

Default: `false`

#### `org.forgerock.openam.authLevel.excludeRequiredOrRequisite`

Specifies whether a session's authentication level is *always* the highest authentication level of any authentication module that passed, even if there are `requisite` or `required` modules in the authentication chain that were not executed. For more information, see [Section 1.4, "About Authentication Levels"](#) in the *Authentication and Single Sign-On Guide*.

Default: `false`

#### `org.forgerock.embedded.dsadminport`

Administration port for the embedded DS server.

Default: `4444`

#### `org.forgerock.openam.authentication.accountExpire.days`

Days until account expiration set after successful authentication by the account expiration post authentication plugin.

Default: `30`

#### `org.forgerock.openam.cdc.validLoginURIs`

This property sets a whitelist of valid login URIs. It is used by the CDCServlet to validate `LoginURI` parameter values.

Set only the URIs, not the query string parameters. If the actual `LoginURI` parameter value includes query string parameters, then AM strips them off before comparing the URI with the value or values in the whitelist.

Separate multiple values with a comma, as in the following example: `org.forgerock.openam.cdc.validLoginURIs=/XUI/?realm=/#login,/customLoginURI.`

Default: `/UI/Login`

#### `org.forgerock.openam.console.autocomplete.enabled`

Specifies whether input forms and password fields can be autocompleted. This property only affects end-user pages in the classic UI. Possible values are `true`, to enable autocomplete, and `false`, to disable it.

Default: `true`

#### `org.forgerock.openam.core.resource.lookup.cache.enabled`

Controls whether the results of resource file lookup should be cached.

While you are customizing the UI as described in the [UI Customization Guide](#), set this property to `false` to allow AM immediately to pick up changes to the files as you customize them.

Reset this to the default, `true`, when using AM in production.

Default: `true`

#### `org.forgerock.openam.cts.rest.enabled`

Enables access to the CTS REST endpoint `/json/tokens`.

Even when access to the CTS REST endpoint is enabled, only the AM global administrator has authorization to perform operations against `/json/tokens`.

Default: `false`

After changing this property, you must restart AM or the container in which it runs for the change to take effect.

#### `org.forgerock.openam.encryption.key.digest`

Determines the digest algorithm used along with PBKDF2 key derivation method for AES Key Wrap encryption. Possible values are `SHA1`, `SHA256`, `SHA384`, or `SHA512`.

Set this property to the same value specified in AM's web container's startup script. For more information, see [Section 1.2.6, "Preparing AES Wrap Encryption"](#) in the *Installation Guide*.

Default: `SHA1`, which results in the usage of PBKDF2WithHmacSHA1 key derivation algorithm.

#### `org.forgerock.openam.encryption.key.iterations`

The number of iterations for the key derivation process specified in the `org.forgerock.openam.encryption.key.digest` advanced property.

Set this property to the same value specified in AM's web container's startup script. For more information, see [Section 1.2.6, "Preparing AES Wrap Encryption"](#) in the *Installation Guide*.

Default: `10000`

**`org.forgerock.openam.encryption.key.size`**

The size of the derived key for the AES Key Wrap encryption operations. Key sizes greater than 128 bits require JCE Unlimited Strength policy files to be installed in your system. PBKDF2 using `SHA256`, `SHA384`, and `SHA512` is only available when AM's web container uses JDK 8.

Set this property to the same value specified in AM's web container's startup script. For more information, see Section 1.2.6, "Preparing AES Wrap Encryption" in the *Installation Guide*.

Default: `128`

**`org.forgerock.openam.idm.attribute.names.lower.case`**

Specifies whether the fields in JSON responses are always returned in lowercase. When `true`, AM converts the fields to lowercase.

Default: `false`

**`org.forgerock.openam.ldap.default.time.limit`**

Configures the client-side timeout, in milliseconds, applied to LDAP operations performed with the Netscape LDAP SDK.

Default: `0` (no time limit)

**`org.forgerock.openam.ldap.heartbeat.timeout`**

Specifies the amount of time in seconds AM should wait for a heartbeat operation to the DS server to complete before considering the connection unavailable.

Default: `3`

**`org.forgerock.openam.notifications.agents.enabled`**

Reserved for future use.

Default: `true`

**`org.forgerock.openam.openidconnect.allow.open.dynamic.registration`**

Controls whether OpenID Connect clients can register dynamically without providing an access token.

If you set this to `true` in production, take care to limit or throttle dynamic client registrations.

Default: `false`

**`org.forgerock.openam.radius.server.context.cache.size`**

Maximum number of RADIUS client sessions that can be cached concurrently on the AM server.

Default: `5000`

**org.forgerock.openam.redirecturlvalidator.maxUrlLength**

Specifies the maximum length of redirection URLs validated by AM. The Validation Service and other AM services perform redirection URL validation.

The default value should be adequate in most cases. Increase the default value as needed if messages similar to the following appear in your debug log files with message-level debugging enabled:

```
RedirectUrlValidator.isRedirectUrlValid: The url was length 2015 which is longer than the allowed maximum of 2000
```

Default: 2000

**org.forgerock.openam.session.stateless.encryption.method**

Sets the encryption method for stateless sessions. Possible values are:

- **A128CBC-HS256**. AES 128-bit in CBC mode using HMAC-SHA-256-128 hash (HS256 truncated to 128 bits)
- **A192CBC-HS384**. AES 192-bit in CBC mode using HMAC-SHA-384-192 hash (HS384 truncated to 192 bits)
- **A256CBC-HS512**. AES 256-bit in CBC mode using HMAC-SHA-512-256 hash (HS512 truncated to 256 bits)
- **A128GCM**. AES 128-bit in GCM mode
- **A192GCM**. AES 192-bit in GCM mode
- **A256GCM**. AES 256-bit in GCM mode

Default: A128CBC-HS256

**org.forgerock.openam.session.stateless.rsa.padding**

Sets the padding mode for RSA encryption of stateless sessions. Possible values are:

- **RSA1\_5**. RSA with PKCS#1 v1.5 padding.
- **RSA-OAEP**. RSA with OAEP and SHA-1.
- **RSA-OAEP-256**. RSA with OAEP padding and SHA-256.

Default: RSA-OAEP-256

**org.forgerock.openam.session.stateless.signing.allownone**

Specifies whether signing stateless sessions is enabled. When **true**, AM allows selecting **NONE** as the signing algorithm for stateless sessions under Configure > Global Services > Session > Stateless Sessions.

**org.forgerock.openam.slf4j.enableTraceInMessage**

Controls whether trace-level logging messages are generated when message-level debug logging is enabled in AM.

Certain components that run in AM's JVM—for example, embedded DS configuration stores—write a large volume of trace-level debug records that are not required for troubleshooting in

many cases. With this option set to `false`, trace-level debug records are not written for these components.

If you set this to `true` in production, take care to monitor the amount of disk space occupied by the AM debug logs.

Default: `false`

#### `org.forgerock.openam.sso.providers.list`

Specifies an ordered list of SSO providers. AM chooses the first applicable provider depending on the context for the requested SSO operation.

Default: `org.forgerock.openidconnect.sso.provider.OpenIdConnectSSOProvider, org.forgerock.openam.sso.providers.stateless.StatelessSSOProvider`

#### `org.forgerock.openam.xui.user.session.validation.enabled`

Changes the XUI's behavior when a user session expires. Possible values are `false`, where the user notices that their session has expired when trying to interact with the XUI and they are redirected to the login screen, or `true`, where AM redirects the user to a page with the session expired message when their session expires. This prevents the display of possible sensitive information on the screen after a session expires.

This setting does not apply to those users that are global or realm administrators, for example, `amadmin`.

Default: `true`

#### `org.forgerock.openidconnect.sso.provider.maxcachesize`

Maximum size in entries of the `OpenIdConnectSSOProvider` provider's cache. This cache is used to map OIDC tokens to SSO tokens for quick lookup.

Default: `5000`

#### `org.forgerock.services.cts.reaper.cache.size`

Number of records of tokens to cache locally that the server is responsible for deleting when expired.

Default: `500000`

For tuning information, see Section 3.5.1, "Reaper Cache Size" in the *Installation Guide*.

#### `org.forgerock.services.dataLayer.connection.timeout`

Timeout in seconds for LDAP connections to the configuration data store.

Default: `10` (seconds)

For suggested settings, see Section 8.4.1.2.3, "Tuning LDAP CTS and Configuration Store Settings" in the *Setup and Maintenance Guide*.



**org.forgerock.services.dataLayer.connection.timeout.cts.async**

Timeout in seconds for LDAP connections used for most CTS operations.

Default: **10** (seconds)

For suggested settings, see Section 8.4.1.2.3, "Tuning LDAP CTS and Configuration Store Settings" in the *Setup and Maintenance Guide*.

**org.forgerock.services.dataLayer.connection.timeout.cts.reaper**

Timeout in seconds for the LDAP connection used for CTS token cleanup.

Default: None (do not time out)

For suggested settings, see Section 8.4.1.2.3, "Tuning LDAP CTS and Configuration Store Settings" in the *Setup and Maintenance Guide*.

**securidHelper.ports**

Port on which SecurID daemon listens.

Default: 58943

**ssoadm.disabled**

Set to **false** to enable the deprecated **ssoadm.jsp** page.

Default: **true**

## 2.3.1.8. Directory Configuration Properties

Configure connection settings and additional LDAP directory server instances by navigating to Deployment > Servers > *Server Name* > Directory Configuration.

### 2.3.1.8.1. Directory Configuration

The following properties are available under the Directory Configuration tab:

**Minimum Connection Pool**

Sets the minimum number of connections in the pool.

Changes to this property take effect immediately. No server restart is necessary.

**Maximum Connection Pool**

Sets the maximum number of connections in the pool.

Changes to this property take effect immediately. No server restart is necessary.

**Bind DN**

Sets the bind DN to connect to the configuration directory servers.

Changes to this property take effect immediately. No server restart is necessary.

### Bind Password

Set the bind password to connect to the configuration directory servers.

Changes to this property take effect immediately. No server restart is necessary.

### 2.3.1.8.2. Server

In the LDAP connection table, edit existing LDAP connections by selecting the pen icon to the right of the row you want to modify. To add a new entry, fill the NAME, HOST NAME, PORT NUMBER and CONNECTION TYPE columns using the following hints:

- **NAME.** The name of the LDAP connection.
- **DIRECTORY CONFIGURATION.** The FQDN of the LDAP server.
- **PORT NUMBER.** The port number to connect to the LDAP server.
- **CONNECTION TYPE.** Whether the connection between the LDAP server and AM is **SIMPLE** (unsecured) or **SSL** (secured).

### 2.3.2. Configuring Sites

Sites involve multiple AM servers working together to provide services. You can use sites with load balancers and session high availability to configure pools of servers capable of responding to client requests in highly available fashion.

#### Name

Sets the name of the site.

#### Primary URL

Sets the primary entry point to the site, such as the URL, to the load balancer for the site configuration.

#### Secondary URLs

Sets alternate entry points to the site.

## Chapter 3

# Ports Used

The software uses a number of ports by default.

Default ports are shown in the following table:

*Table 3.1. Default Ports Used*

Port Number	Protocol	Description
1689	TCP/IP	Port for Java Management eXtension traffic, disabled by default
1812	UDP	Port for AM's RADIUS server, disabled by default
4444	TCP/IP	Port for the embedded administration connector, enabled by default.
8080	TCP/IP	Web application container port number
8082	TCP/IP	HTTP port for monitoring AM, disabled by default
8085	TCP/IP	SNMP port for monitoring AM, disabled by default
9999	TCP/IP	RMI port for monitoring AM, disabled by default.
50389, 50899, 58989	TCP/IP	Supports LDAP communication between embedded AM data stores.
57943, 58943	TCP/IP	Used by the SecurID authentication module. See <a href="#">Section 2.2.25, "SecurID Authentication Module"</a> in the <i>Authentication and Single Sign-On Guide</i> .

Sometimes multiple services are configured on a single system with slightly different port numbers. For example, while the default port number for a servlet container such as Tomcat is 8080, a second instance of Tomcat might be configured with a port number of 18080. In all cases shown, communications proceed using the protocol shown in the table.

When you configure a firewall for AM, make sure to include open ports for any installed and related components, including web services (80, 443), servlet containers (8009, 8080, 8443), and external applications.

Additional ports may be used, depending on other components of your deployment. If you are using external DS servers, refer to the *Ports Used* appendix of the *ForgeRock Directory Services Reference*.

## Chapter 4

# Supported Standards

AM implements the following RFCs, Internet-Drafts, and standards:

### OAuth 2.0

The OAuth 2.0 Authorization Framework

The OAuth 2.0 Authorization Framework: Bearer Token Usage

OAuth 2.0 Token Revocation

JSON Web Signature (JWS)

JSON Web Key (JWK)

JSON Web Algorithms (JWA)

JSON Web Token (JWT)

Security Assertion Markup Language (SAML) 2.0 Profile for OAuth 2.0 Client Authentication and Authorization Grants

JSON Web Token (JWT) Profile for OAuth 2.0 Client Authentication and Authorization Grants

Proof Key for Code Exchange by OAuth Public Clients

OAuth 2.0 Token Introspection

Proof-of-Possession Key Semantics for JSON Web Tokens (JWTs)

### OpenID Connect 1.0

AM can be configured to play the role of OpenID provider. The OpenID Connect specifications depend on OAuth 2.0, JSON Web Token, Simple Web Discovery and related specifications. The following specifications make up OpenID Connect 1.0.

- OpenID Connect Core 1.0 defines core OpenID Connect 1.0 features.

**Note**

In section 5.6 of the specification, AM supports *Normal Claims*. The optional *Aggregated Claims* and *Distributed Claims* representations are not supported by AM.

- OpenID Connect Discovery 1.0 defines how clients can dynamically recover information about OpenID providers.
- OpenID Connect Dynamic Client Registration 1.0 defines how clients can dynamically register with OpenID providers.
- OpenID Connect Session Management 1.0 describes how to manage OpenID Connect sessions, including logout.
- OAuth 2.0 Multiple Response Type Encoding Practices defines additional OAuth 2.0 response types used in OpenID Connect.
- OAuth 2.0 Form Post Response Mode defines how OpenID providers return OAuth 2.0 Authorization Response parameters in auto-submitting forms.

OpenID Connect 1.0 also provides implementer's guides for client developers.

- OpenID Connect Basic Client Implementer's Guide 1.0
- OpenID Connect Implicit Client Implementer's Guide 1.0

**User-Managed Access (UMA) 1.0.1**

User-Managed Access (UMA) Profile of OAuth 2.0, in which AM can play the role of authorization server.

OAuth 2.0 Resource Set Registration, in which AM plays the role of authorization server.

**Representational State Transfer (REST)**

Style of software architecture for web-based, distributed systems.

**Security Assertion Markup Language (SAML)**

Standard, XML-based framework for creating and exchanging security information between online partners. AM supports multiple versions of SAML including 2.0, 1.1, and 1.0.

Specifications are available from the OASIS standards page.

**Liberty Alliance Project Identity Federation Framework (Liberty ID-FF)**

Federation standard, whose concepts and capabilities contributed to SAML v2.0.

**Simple Object Access Protocol (SOAP)**

Lightweight protocol intended for exchanging structured information in a decentralized, distributed environment.

**Web Services Description Language (WSDL)**

XML format for describing network services as a set of endpoints operating on messages containing either document-oriented or procedure-oriented information.

**Web Services Federation Language (WS-Federation)**

Identity federation standard, part of the Web Services Security framework.

**eXtensible Access Control Markup Language (XACML)**

Declarative access control policy language implemented in XML, and also a processing model, describing how to interpret policies.

## Chapter 5

# Service Endpoints

A service endpoint is a URL which serves as the access port for a web service. It may be a standard HTML-based web page, or it may be a `*.jsp` page.

As every service endpoint is a potential security issue, it may be appropriate to restrict access to some of those endpoints that you do not use. But be careful. Some endpoints, such as `isAlive.jsp` in the main `/path/to/tomcat/webapps/openam` directory, are essential and should not be blocked or changed.

Given the large number of available endpoints, this chapter has been organized primarily by subdirectory. Most of the directories were created when the AM war archive was copied to the appropriate web application container, such as the `webapps` subdirectory.

AM may expose several hundred service endpoints, listed in this chapter. Each endpoint shown is listed relative to the deployment URL. For example, if you have deployed AM at `https://openam.example.com:8443/openam/`, the full URL to the `isAlive.jsp` endpoint is `https://openam.example.com:8443/openam/isAlive.jsp`.

AM includes two types of endpoints. One is based on URL patterns, shown with the `url-pattern` tag. You can find these patterns in the `web.xml` file, in the `/path/to/tomcat/webapps/openam/WEB-INF` directory. The other type is based on `*.jsp` pages, starting in the main `/path/to/tomcat/webapps/openam` directory, and also in many associated subdirectories. If you copied or created a WAR archive to a name other than `openam.war`, as described in the installation guide, substitute for the second `openam` accordingly.

Some of these endpoints can be applied directly to a URL when you have connected to the AM server; for example, if you have configured AM on `http://idp.example.com:8080/openam`, you can log in and review debug options by navigating to `http://idp.example.com:8080/openam/Debug.jsp`.

Other endpoints can only be used when called by some option in the AM console. For example, while the `AgentAdd.jsp` endpoint exists in the `console/agentconfig` subdirectory, you would get an error by navigating directly to a URL such as `http://sp.example.com:8080/openam/console/agentconfig/AgentAdd.jsp`. For that particular endpoint, you will have click through the options required to add an agent (Realms > *Realm Name* > Applications > Agents > J2EE > New).

In general, this chapter does not include dynamic endpoints, such as those that may include security tokens. The endpoints described in this chapter are based on files included in the installation of an AM server.

Several options are available for endpoints at risk. Recommendations from the noted security advisories include the following:

- Filter requests to prevent or restrict access to vulnerable endpoints with a reverse proxy or equivalent hardware device. Such options can be configured to limit access by IP address or fully-qualified domain name.
- Use a patch. If available, download links should be listed in the security advisory. The patch may be limited to one or more endpoint files.
- Remove access from the configuration. If a problematic endpoint is configured in the web.xml file of the aforementioned WEB-INF subdirectory, you can remove the section that points to that endpoint.
- Remove the endpoint file from the configuration. Some endpoint files, such as `proxy.jsp`, are not essential to the basic operation of AM.

Of course, you can take additional steps to help secure your AM deployment. For more information, see [Chapter 4, "Securing Installations"](#) in the *Installation Guide*.

## 5.1. JSP Endpoints

The AM WAR archive includes `*.jsp` files in a number of different categories. Many are associated with the applicable subdirectory, such as `console/realm`. The following sections will examine each `*.jsp` file, divided by subdirectories.

In some highlighted cases, the noted `*.jsp` file appears in the code for one or more `.java` files. If you remove the noted `*.jsp` file from the container, there is a risk that will break some functionality within AM. In other cases, such as any files related to the GUI installation wizard, the applicable `*.jsp` file can be safely removed from a production system.

### 5.1.1. Main Directory JSP Endpoints

If you are working in Tomcat, you will find the endpoints in this subsection in the `/path/to/tomcat/webapps/openam` directory. For other web application containers, you may find the endpoints in a different `openam` subdirectory.

#### `Debug.jsp`

Supports debug logging by service. For more information, see [Section 9.2.3, "Debug Logging By Service"](#) in the *Setup and Maintenance Guide*

#### `encode.jsp`

Enables access to a page that encodes text passwords. The algorithm is based on PBESWithMD5AndDES, password-based encryption (PBE) using the MD5 message-digest algorithm, configured with the data encryption standard (DES)

#### `getServerInfo.jsp`

Supports requests for server information. As `getServerInfo.jsp` is encoded in some `.java` files, you should retain `getServerInfo.jsp` in your deployment.



### `isAlive.jsp`

Verifies the current status of the AM service; the "Server is ALIVE:" message also verifies activity on AM systems behind load balancers. This can be a useful tool in a production environment.

### `proxyidpfinder.jsp`

Supports access to a remote identity provider, through the federation broker.

### `services.jsp`

Lists active services within AM. The details shown on this page can be used with the **ssoadm** command to create a second AM server with matching services. Be aware, the `amadmin` administrative user is hard-coded into this file. If you change the identity of the administrative user to something other than `amadmin`, that user will not have access to `services.jsp`.

### `showServerConfig.jsp`

Specifies configuration information for the system, including the URL, the OS, the Java VM, the configuration directory, and more.

### `validateWait.jsp`

May be called by the `validator.jsp` or `validatorMain.jsp` files, to display progress in verifying the status of federation.

### `validator.jsp`

Refers to the `ValidateSAML2` function to identify the realm, IdP and SP for the federation.

### `validatorAuthFail.jsp`

Starts an "Authentication Failed" message.

### `validatorFooter.jsp`

Incorporates a "Back to Login" button in `validatorMain.jsp`.

### `validatorMain.jsp`

Sets up a federation connectivity test. If you have set up a Federation Circle of Trust, this file is accessible from the "Test Federation Connectivity" option in the main the AM console.

### `validatorRpt.jsp`

Opens a "Connectivity Test Results" window, specifying the status of a federation circle of trust. Tests relate to IdP authentication, SP authentication, account linking, single log out, single sign on, and account unlinking.

### `validatorStatus.jsp`

Adds information to `validator.jsp` and `validatorMain.jsp` with federation status information as it relates to the currently configured circle of trust.

All of the `validat*.jsp` files near the end of this list relate to testing and verifying federation. It requires at least one identity provider (IDP) and one service provider (SP). At least one of these

components must be configured remotely to set up a valid Circle of Trust (COT). If federation does not apply to your configuration, the `validat*.jsp` files are not essential to your configuration.

## 5.1.2. User Interface JSP Endpoints

The endpoints in this section can be found in several `com_sun_web_ui/jsp/` subdirectories. These endpoints appear to relate to JavaHelp; per OPENAM-806, this functionality was removed from OpenAM starting with version 9.5.3. Thus, the endpoints in this section, with one possible exception (`Masthead.jsp` in the `com_sun_web_ui/jsp/version` subdirectory) may no longer serve any purpose.

### `DateTimeWindow.jsp`

The only endpoint in the `com_sun_web_ui/jsp/datetime` subdirectory. May be a legacy endpoint; it calls a `DateTimeWindowViewBean` class; the corresponding `.java` file does not exist in the current trunk.

### `Help.jsp`

One of two endpoints in the `com_sun_web_ui/jsp/help` subdirectory. May be a legacy endpoint; it calls a `HelpViewBean` class; the corresponding `.java` file does not exist in the current trunk.

### `Masthead.jsp`

One of two endpoints in the `com_sun_web_ui/jsp/help`, `com_sun_web_ui/jsp/help2`, and `com_sun_web_ui/jsp/version` subdirectories, in slightly different formats. May be a legacy endpoint; it calls a `MastheadViewBean` class; the `Masthead.jsp` file and the corresponding `MastheadViewBean.java` were last changed in 2004. (However, the `Masthead.jsp` file in the `com_sun_web_ui/jsp/version` subdirectory includes a `VersionViewBean.java` file that is used by the `Version.jsp` endpoint used in the `console/base` subdirectory.

### `ButtonNav.jsp`

Specifies an endpoint in the `com_sun_web_ui/jsp/help2` directory. Points to a `ButtonNavViewBean` class; the associated `.java` file no longer exists in the trunk.

### `Help2Ie.jsp`

Specifies an endpoint in the `com_sun_web_ui/jsp/help2` directory. Points to a `Help2ViewBean` class; the associated `.java` file no longer exists in the trunk.

### `Help2Nav4.jsp`

Specifies an endpoint in the `com_sun_web_ui/jsp/help2` directory. Points to a `Help2ViewBean` class; the associated `.java` file no longer exists in the trunk.

### `Help2Nav6up.jsp`

Specifies an endpoint in the `com_sun_web_ui/jsp/help2` directory. Points to a `Help2ViewBean` class; the associated `.java` file no longer exists in the trunk.

### `Navigator.jsp`

Specifies an endpoint in the `com_sun_web_ui/jsp/help2` directory. Points to a `NavigatorViewBean` class; the associated `.java` file no longer exists in the trunk.

#### AdvancedSort.jsp

Specifies an endpoint in the `com_sun_web_ui/jsp/table` directory.

#### Table.jsp

Specifies an endpoint in the `com_sun_web_ui/jsp/table` directory. Points to a `TableViewBean` class; the associated `.java` file no longer exists in the trunk.

#### WizardWindow.jsp

Points to an endpoint in the `com_sun_web_ui/jsp/wizard` subdirectory. Points to a `WizardWindowViewBean` class, which appears to be unused by any other `.jsp` file.

### 5.1.3. Default Authentication JSP Endpoints

Many of the `.jsp` files in this category can be modified to help you modify the messages that appear to users in the AM console. Standard messages for most of these endpoints can be found in the `amAuth.properties` and `amAuthUI.properties` files. You will find the endpoints in this subsection in the `config/auth/default` subdirectory.

#### account\_expired.jsp

Specifies an error page for account expiration. The message displayed to the user can be modified in the `amAuthUI.properties` file.

#### authException.jsp

Option to `Exception.jsp`; called if there is an existing resource bundle, as specified in `AuthExceptionViewBean.java`.

#### auth\_error\_template.jsp

Specifies an error page for authentication errors. The message displayed to the user can be modified in the `amAuthUI.properties` file.

#### disclaimer.jsp

Associated with the self-registration module, which can be configured in the AM console, under `Realms > Realm Name > Authentication > Modules`. The default disclaimer is associated with the `disclaimer.notice` parameter, defined in the `amAuthUI.properties` file.

#### disclaimerDeclined.jsp

Associated with the self-registration module, which can be configured in the AM console, under `Realm > Realm Name > Authentication > Modules`. The default disclaimer\_denied message is associated with the `disclaimer.declined` parameter, defined in the `amAuthUI.properties` file.

#### Exception.jsp

Includes the following error message: "Authentication Service is not initialized." Cited by several other `.java` files in the code, so it should not be removed in a secure deployment.

**invalidAuthlevel.jsp**

Used to specify an issue with the authentication level. The default invalidauthlevel and contactadmin messages can be redefined in the `amAuthUI.properties` file.

**invalid\_domain.jsp**

Displays a "No such Organization found" message when a domain is not defined in the AM database. Refers to the `nosuch.domain` parameter in the `amAuthUI.properties` file.

**login\_denied.jsp**

Defines the response of AM to a user who enters an undefined profile. Uses the `userhasnosuchprofile.org` and `contactadmin` parameters in the `amAuthUI.properties` file.

**login\_failed\_template.jsp**

Provides a message in the event of a login failure. The message uses the `auth.failed` parameter in the `amAuthUI.properties` file.

**Login.jsp**

Specifies a regular authentication template. As noted in Section 4.3, "Securing Administration" in the *Installation Guide*, the `Login.jsp` file may be customized for different deployments.

**Logout.jsp**

The `Logout.jsp` file may also be customized for different deployments.

**membership.jsp**

Specifies information for the page associated with the self-registration module.

**Message.jsp**

Calls text messages related to the authentication process.

**module\_denied.jsp**

Includes a message to a target user that he does not have access to a specified module. The message uses the `authmodule.denied` parameter defined in the `amAuthUI.properties` file.

**module\_template.jsp**

Adds a page which can be used to help customize appropriate modules.

**new\_org.jsp**

Includes a warning when a user is trying to access a different realm. The message uses the `newOrg.agree` parameter, as defined in the `amAuthUI.properties` file.

**noConfig.jsp**

Specifies the lack of a defined configuration module. The message uses the `noconfig.found` parameter, defined in the `amAuthUI.properties` file.

**OAuthActivate.jsp**

Shows a default template for entering an activation code. Used by `OAuth.xml` for password changes. As this file is not configured for OAuth2, the file is deprecated and may be removed from a future release.

**OAuthPwd.jsp**

Displays a password change screen, with an option for terms and conditions of service. As this file is not configured for OAuth2, it is deprecated and may be removed from a future release.

**org\_inactive.jsp**

Transmits the message that the target organization is not active in the AM database.

**profileError.jsp**

Specifies the message that is sent when there's a failure in the use of the self-registration module. Associated with the `profile.error` parameter, defined in the `amAuthUI.properties` file.

**Redirect.jsp**

Notes a file used by other code to redirect users for events such as login failures.

**register.jsp**

Identifies the page with the self-registration template.

**session\_timeout.jsp**

Adds a message to a user when a session has gone past its allocated login time. Uses the `session.timeout` parameter, defined in the `amAuthUI.properties` file.

**userDenied.jsp**

Associated with role-based authentication. Tells a user when the required role has not been configured for that user. The message is defined by the `user.not.inrole` parameter, which is defined in the `amAuthUI.properties` file.

**user\_inactive.jsp**

Identifies a message sent to a user that is not currently active in the database. The message is defined by the `usernot.active` parameter, as shown in the `amAuthUI.properties` file.

## 5.1.4. Default Federation JSP Endpoints

Many of the files in this `config/federation/default` subdirectory use the `com.sun.liberty.LibertyManager` interface. In general, you will want to keep these files in a production deployment, to support adding to and deleting users from different Circles Of Trust (COT). Many of these files are customizable for different organizational interfaces. Interfaces in different languages may be configured in slightly different subdirectories, such as `config/federation/default_fr`.

**cdclogin.jsp**

Supports a non-blank page for cross-domain single sign-ons; associated with a Cross-Domain Controller (CDC) servlet.

**CommonLogin.jsp**

Supports links to login pages of trusted identity providers.

**Error.jsp**

Sets up an error message, using the `com.sun.liberty.LibertyManager` interface.

**Federate.jsp**

Supports a connection to providers that can be configured in a federation.

**FederationDone.jsp**

Specifies the status of a federation request; the default response is either "The user has cancelled account federation." or "Federation has been successfully completed with the remote provider."

**Footer.jsp**

Sets up code that you can use to include a custom footer on all pages.

**Header.jsp**

Sets up code that you can use to include a custom header on all pages; the default version is configured with the AM logo.

**ListOfCOTs.jsp**

When a service provider (SP) belongs to more than one COT, this page prompts the user to select a preferred identity provider (IDP).

**LogoutDone.jsp**

Specifies success or failure during a logout operation. Where a user has an account on multiple providers, he may see the following message: "Unable to log the user out from one or more providers where the user may still have active sessions."

**NameRegistration.jsp**

Supports registration with a new remote provider. This endpoint is associated with `NameRegistrationDone.jsp`.

**NameRegistrationDone.jsp**

Displays different messages based on a registration attempt with a remote provider. The message varies depending on whether the request was successful, a failure, or cancelled.

**Termination.jsp**

Supports defederation from an existing remote provider; goes with `TerminationDone.jsp`.

### TerminationDone.jsp

Displays different messages based on a defederation attempt with a remote provider. The message varies depending on whether the request was successful, a failure, or cancelled.

## 5.1.5. Console Agent Configuration JSP Endpoints

The JSP files in the `console/agentconfig` subdirectory relate to the configuration of Web Agents. To see what is done by each JSP file, log into the AM console as the administrator. Select Realms > *Realm Name* > Agents. Several of the options that appear corresponds to the JSP files in the target subdirectory.

Some of the endpoints include messages from relevant sections of the `amConsole.properties` file. The agents in this directory are part of the `com.sun.identity.console.agentconfig` package.

Several endpoints relate to Web Service Client (WSC) policy agents, which secure outgoing requests and validate incoming requests from Web Service Providers (WSP). If you are not using agent functionality such as that related to the Security Token Service (STS), the related endpoints listed in this section may not be essential in a production deployment.

### AgentAdd.jsp

Includes a newly created web agent for a specified realm. The AgentAdd page appears in the AM console after an agent is added to a realm.

### AgentConfigInherit.jsp

Allows an administrator to review default settings for the agent, as configured in the Inheritance Settings page. Inheritance assumes that agent is part of a previously configured group. To access Inheritance Settings, see [Creating Agent Profiles in the ForgeRock Access Management Java EE Policy Agent Guide](#) or [Creating Agent Profiles in the ForgeRock Access Management Web Policy Agent Guide](#).

### AgentDump.jsp

Displays information about the current configuration of an agent or an agent group, and how it might be exported.

### AgentGroupAdd.jsp

Includes a newly created agent group for common web agents within a specified realm. The AgentGroupAdd page appears in the AM console after an agent group is added to a realm.

### AgentGroupMembers.jsp

Supports the display of agents that are members of a specified agent group.

### Agents.jsp

Enables access to a form to specify a new agent to add. The same form is used for every category of new agents configured from the AM console, when you navigate to Realms > *Realm Name* > Agents.

### GenericAgentProfile.jsp

A template that the AM console uses when it builds pages for editing agent properties.

### Home.jsp

Per comments in the HomeViewBean, this file should forward requests for other agents.

## 5.1.6. Console Ajax JSP Endpoints

You can find console AJAX endpoints in the console/ajax subdirectory. The AJAX endpoints provide AJAX functionality triggered from other JSP endpoints.

### AjaxProxy.jsp

Specifies an element used by endpoints triggered from the AM console's Common Tasks tab, including the `ConfigureGoogleApps.jsp` and `ConfigureSalesForceApps.jsp` endpoints.

### FileUpload.jsp

Provides functionality used for file uploading. This JSP is used for uploading:

- Federation metadata files
- Scripts, such as those used with scripted authentication modules

You can adjust the maximum file upload size for the uploader by setting the `org.forgerock.openam.console.max.file.upload.size` property. The property's default value is 750K.

## 5.1.7. Console Authentication JSP Endpoints

You can find console authentication endpoints in the console/authentication subdirectory. The associated endpoints relate to authentication settings in a realm. To access these endpoints, navigate to Realms > *Realm Name* > Authentication.

### AuthConfig.jsp

Part of the creation of a New Authentication Chain; associated with the Authentication Chaining section of the Authentication tab for a realm.

### AuthProperties.jsp

Specifies properties that might be configured under the authentication tab for a specific or top-level realm.

### CoreAttributes.jsp

Associated with the Core section of the Authentication tab of a specific or the top-level realm. Includes options for Realm Attributes, Account Lockout, and Post Authentication Processing.

### EditAuthType.jsp

Supports changes to Module Instances, under the Authentication tab of a specific or the top-level realm.



**NewAuthConfig.jsp**

Associated with the creation of a New Authentication Chain, an option available from the Authentication Chaining section of the Authentication tab.

**NewAuthInstance.jsp**

Supports the implementation of a new authentication module, available from the Module Instances section of the Authentication tab.

**ReorderAuthChains.jsp**

Supports a change in sequence of authentication criteria; to access, select an existing Authentication Chaining service under the Authentication tab for a specified realm.

**ScriptUploader.jsp**

Supports uploading a script when configuring a scripted authentication module.

## 5.1.8. Base Console JSP Endpoints

The endpoints in this subdirectory (console/base) relate to options associated with the "home page" for the AM GUI console; in essence, these are the options available when you log in as the administrative user (typically `amadmin`).

**AMAdminFrame.jsp**

Defaults to the opening page for the AM console.

**AMInvalidURL.jsp**

Provides an "Invalid URL" error message.

**AMLogin.jsp**

Redirects users to the default login page; assumes no user is currently logged into AM.

**AMPost.jsp**

Endpoint that either returns success of a post or an "Invalid or Missing Input" error.

**AMUncaughtException.jsp**

Default uncaught exception error message endpoint: "An error occurred while processing this request. Contact your administrator."

**Authenticated.jsp**

Displays a "You're logged in" information message.

**CloseWindow.jsp**

Endpoint that closes existing windows.

**Message.jsp**

Specifies a template endpoint used for messages.

**Version.jsp**

Specifies current version information, copyright notice, and licensing.

### 5.1.9. Delegation Console JSP Endpoints

The two service endpoints under the console/delegation subdirectory relate to the privileges associated with configured realms.

**Delegation.jsp**

Associated with the privileges for a realm. The privileges can be assigned for different groups of users, as configured via Realms > *Realm Name* > Subjects > Group.

**DelegationProperties.jsp**

Supports changes in properties for group privileges, described in the **Delegation.jsp** endpoint. To get to these properties, select Realms > *Realm Name* > Privileges > *Group Name*.

### 5.1.10. Federation Console JSP Endpoints

The JSP files in this section relate to federation, specified in the console/federation subdirectory. Specifically, when you access the AM GUI console and navigate to Realms > *Realm Name* > Applications > SAML, the variety of options that you select call the JSP files in this directory.

Generally, the JSP files in this directory are essential if you want to add or modify federation partners in your Circles of Trust (COT), SAML v2.0 / ID-FF / WS-Federation entity providers, and SAML v1.x configured partners.

If you are not using the legacy elements of federation, such as Liberty ID-FF, WS-Federation, and SAML v1.x, you may be able to delete related service endpoints in a more secure deployment.

Many of the endpoints in this section are accessible from the AM console. Navigate to Realms > *Realm Name* > Applications > SAML. Some of the endpoints are accessible only after you have created an appropriate entity provider, such as SAML v2.0, ID-FF, or WS-Federation.

**CreateCOT.jsp**

When you create a Circle of Trust (COT) by using Realms > *Realm Name* > Applications > SAML > Circle of Trust > New, you can access the COT Configuration window. You can then access all configured COTs.

**CreateSAML2Metadata.jsp**

Used when creating a new entity provider, configured with the SAML2 protocol.

**FSAuthDomainsEditViewBean.jsp**

Associated with an edit of a COT; to access, select a previously configured COT.

**FSSAMLSelectTrustedPartnerType.jsp**

Opened when you configure a new Trusted Partner under the SAML v1.x Configuration section.

**FSSAMLService.jsp**

Associated with FSSAMLServiceViewBean, which is used by a number of other JSP files in the console/federation subdirectory.

**FSSAMLSetTrustedPartnerType.jsp**

Associated with the **FSSAMLSetTrustedPartnersEdit.jsp** file; used when you select a configured SAML v1.x Configuration trusted partner.

**FSSAMLSiteIDAdd.jsp**

Supports the addition of a Site ID for a SAML-configured partner.

**FSSAMLSiteIDEdit.jsp**

Supports the modification of a Site ID for a SAML-configured partner.

**FSSAMLTARGETURLSAdd.jsp**

Includes a new POST to a specified URL.

**FSSAMLTARGETURLEdit.jsp**

Supports editing of a POST to a specified URL.

**FSSAMLTrustedPartnersAdd.jsp**

Called when you create a new "trusted partner" in the SAML v1.x Configuration area of the Federation window.

**FSSAMLTrustedPartnersEdit.jsp**

Called when you edit an existing "trusted partner" in the SAML v1.x Configuration area of the Federation window.

**Federation.jsp**

Cited when you click New in the "Circle of Trust" section of the Federation window.

**FileUploader.jsp**

Called by the **ImportEntity.jsp** file, to support uploads of metadata files associated with a previously configured entity provider.

**IDFFAffiliate.jsp**

Specifies an IDFF affiliate in a COT.

**IDFFGeneral.jsp**

Includes general parameters associated with an IDFF affiliate in a COT. The corresponding **IDFFGeneralViewBean** parameter is cited only in this and the **IDFFGeneralViewBean.java** files.

**IDFFIDP.jsp**

Associated with the Identity Provider (IDP) for IDFF.

**ISFFSP.jsp**

Associated with the Service Provider (SP) for IDFF.

**ImportEntity.jsp**

Supports the import of pre-existing metadata files which define an entity provider. Allows you to import metadata from a URL to a desired Realm.

**SAMLv2Affiliate.jsp**

Enables a view of SAML version 2 affiliates.

**SAMLv2AttrAuthority.jsp**

Associated with an IDP acting as an attribute authority.

**SAMLv2AttrQuery.jsp**

Supports queries and saves of SAML2 attribute metadata.

**SAMLv2AuthnAuthority.jsp**

Enables communication with an IDP acting as an authentication authority.

**SAMLv2General.jsp**

Identifies general properties of a SAML version 2 affiliate.

**SAMLv2IDPAdvanced.jsp**

Supports the configuration of advanced properties for a SAML v2.0 IDP.

**SAMLv2AssertionContent.jsp**

Associated with the Assertion Content tab. Navigate to Realms > *Realm Name* > Applications > SAML > Entity Providers > *Provider Name*.

**SAMLv2AssertionProcessing.jsp**

Associated with the Assertion Processing tab. Navigate xmlns:tools="http://schemas.android.com/tools" Realms > *Realm Name* > Applications > SAML > Entity Providers > *Provider Name*.

**SAMLv2IDPServices.jsp**

Supports the configuration of IDP service properties for a SAML2 provider.

**SAMLv2PDP.jsp**

Enables the configuration of a SAML v2.0-based Policy Decision Point (PDP).

**SAMLv2PEP.jsp**

Enables the configuration of a SAML v2.0-based Policy Enforcement Point (PEP).

**SAMLv2SPAdvanced.jsp**

Supports the configuration of advanced properties for a SP. Navigate to Realms > *Realm Name* > Applications > SAML > Entity Providers > *Provider Name* > SP > Advanced.

#### **SAMLv2SPAssertionContent.jsp**

Associated with the Assertion Content tab; supports the configuration of such for SPs; Navigate to Realms > *Realm Name* > Applications > SAML > Entity Providers > *Provider Name* > SP > Assertion Content.

#### **SAMLv2SPAssertionProcessing.jsp**

Associated with the Assertion Content tab; supports the configuration of assertion processing-related properties for SPs. Navigate to Realms > *Realm Name* > Applications > SAML > Entity Providers > *Provider Name* > SP > Assertion Processing.

#### **SAMLv2SPServices.jsp**

Supports the configuration of services-related properties for an SP. Navigate to Realms > *Realm Name* > Applications > SAML > Entity Providers > *Provider Name* > SP > Services.

#### **WSFedGeneral.jsp**

Associated with the configuration of a legacy WS-Federation entity provider.

#### **WSFedIDP.jsp**

Supports the configuration of an IDP under WS-Federation.

#### **WSFedSP.jsp**

Supports the configuration of an SP under WS-Federation.

### 5.1.11. IDM Console JSP Endpoints

This group of service endpoints are associated with an identity management (IDM) interface from AM. You can find these endpoints in the `console/idm` subdirectory. You may not need all of the functionality provided by the endpoints in this section.

Some of the endpoints in this section include references to `UM*.jsp` endpoints, User Console JSP Endpoints located in the `console/user` subdirectory, and described later in this chapter.

#### **EndUser.jsp**

Accesses the information page for the currently logged in user.

#### **Entities.jsp**

Opens the list of currently configured users, available via Realms > *Realm Name* > Subjects.

#### **EntityAdd.jsp**

Used when adding a new user or group.

#### **EntityDiscoveryDescriptionAdd.jsp**

Associated with the Discovery Service. To access that service, select a non-administrative user and select the Services tab. The `EntityDiscoveryDescriptionAdd.jsp` file is used when selecting a new Security Mechanism ID as a Service Description as a new Discovery Resource Offering.

**EntityDiscoveryDescriptionEdit.jsp**

Associated with an edit of an existing Security Mechanism ID.

**EntityEdit.jsp**

Called when saving changes to an existing user.

**EntityMembers.jsp**

Lists the members of a configured group.

**EntityMembersFilteredIdentity.jsp**

Lists the members of a configured group based on some filter.

**EntityMembership.jsp**

Accessed when a regular user is made a member of a previously configured group.

**EntityResourceOffering.jsp**

Supports custom resource offering entries for a previously configured user. Also used when accessing the `UMUserResourceOffering.jsp` file.

**EntityResourceOfferingAdd.jsp**

Supports entries of new resource offerings for a previously configured user. Also used when accessing the `UMUserResourceOfferingAdd.jsp` file.

**EntityResourceOfferingEdit.jsp**

Supports edits of existing resource offerings for a previously configured user. Also used when accessing the `UMUserResourceOfferingEdit.jsp` file.

**EntityServices.jsp**

Supports a new service for a specific user. As of this writing, available services are: Dashboard, Discovery Service, Liberty Personal Profile Service, and Session.

**Home.jsp**

Opens a list of currently configured users.

**ServicesAdd.jsp**

Accessible after adding a new service for a currently configured user; associated with the `EntityServices.jsp` file.

**ServicesEdit.jsp**

Accessible for editing services associated with a currently configured user.

**ServicesNoAttribute.jsp**

Used if a configured organization has no available attributes.

**ServicesSelect.jsp**

Opened when adding a service for a specific user.

## 5.1.12. Console Realm JSP Endpoints

If you want to know how to configure services and data stores within a realm, you will want to understand the workings of these service endpoints. If you want to customize realms in production, you will want to keep these endpoints available. You can find these endpoints in the `console/realm` subdirectory.

**HomePage.jsp**

Associated with the main Access Control page in the legacy AM console, which lists configured realms. If you call `realm/HomePage.jsp` directly, it cites messages associated with changes for a specific user, and functions more closely associated with JSP endpoints in the `console/idm` subdirectory.

**IDRepo.jsp**

Enables links with directory server data stores within a realm. To access, select Realms > *Realm Name* > Data Stores > New. You should see a variety of supported directory server data stores, such as ForgeRock Directory Services, Active Directory, and Tivoli Directory Server.

**IDRepoAdd.jsp**

Appears when you add a data store; associated with the `IDRepo.jsp` service endpoint.

**IDRepoEdit.jsp**

Appears when you edit an existing data store; associated with the `IDRepo.jsp` service endpoint.

**IDRepoSelectType.jsp**

Includes a list of supported data stores, from ForgeRock Directory Services to Active Directory; associated with the `IDRepo.jsp` service endpoint.

**RMRealm.jsp**

Supports the configuration of a new realm, or editing of an existing realm.

**RMRealmAdd.jsp**

Supports the addition of a new realm; associated with the `RMRealm.jsp` service endpoint.

**RealmDiscoveryDescriptionAdd.jsp**

Supports a new description for a realm; associated with the `RealmResourceOffering.jsp` service endpoint.

**RealmDiscoveryDescriptionEdit.jsp**

Supports an edited description; associated with the `RealmResourceOffering.jsp` service endpoint.

**RealmProperties.jsp**

Works with the pages that allow you to edit an existing realm.

**RealmResourceOffering.jsp**

Supports the configuration of a security mechanism to a new realm resource offering. Requires the configuration of the discovery service, and the configuration of a directory resource offering for the specified realm.

**RealmResourceOfferingAdd.jsp**

Supports the addition of a security mechanism to a new realm resource offering. Requires the configuration of the discovery service, and the configuration of a directory resource offering for the specified realm.

**RealmResourceOfferingEdit.jsp**

Supports the editing of a security mechanism for an existing realm resource offering. Requires the configuration of the discovery service, and the configuration of a directory resource offering for the specified realm.

**Services.jsp**

Supports the configuration of a service within a specified realm.

**ServicesAdd.jsp**

Supports the addition of a service to a specified realm; available services to add include Administration, Dashboard, Discovery, Globalization Settings, OAuth2 Provider, Password Reset, Session, and User.

**ServicesCannotAssignService.jsp**

If a desired service is not compatible with directory data available from an organization, it is rejected.

**ServicesEdit.jsp**

Supports the editing of an existing service; associated with the **Services.jsp** endpoint.

**ServicesNoAttribute.jsp**

Supports the editing of an existing service; called if the attribute cannot be found or changed.

**ServicesSelect.jsp**

Implements step 1 of the addition of a new service; associated with the **Services.jsp** endpoint.

## 5.1.13. Service Console JSP Endpoints

You can find the JSP files in this category in the console/service subdirectory. Most of the endpoints are accessible in the console, from various options associated with the Configuration menu. If you do



not use some of the functionality described such as Liberty ID-FF or SOAP binding, you may be able to delete the associated endpoints.

#### **G11NCharsetAliasAdd.jsp**

Supports the configuration of a new character set alias. Navigate to Configure > Global Services > Console > Globalization Settings > Charset Aliases submenu.

#### **G11NCharsetAliasEdit.jsp**

Supports the editing of an existing character set alias. Navigate to Configure > Global Services > Console > Globalization Settings > Charset Aliases submenu.

#### **G11NSupportedCharsetAdd.jsp**

Supports the configuration of a new character set supported by a locale. Navigate to Configure > Global Services > Console > Globalization Settings > Charsets Supported by Each Locale submenu.

#### **G11NSupportedCharsetEdit.jsp**

Supports the editing of an existing character set supported by a locale. Navigate to Configure > Global Services > Console > Globalization Settings > Charsets Supported by Each Locale submenu.

#### **MAPClientManager.jsp**

Supports a list of client types. Associated with the Default Client Type option available via Configure > Global Services > System > Client Detection.

#### **MAPCreateDevice.jsp**

Supports creation of client devices.

#### **MAPCreateDeviceTwo.jsp**

Supports creation of client devices.

#### **MAPDeviceProfile.jsp**

Supports step 1 of creating a new client device.

#### **MAPDuplicationDevice.jsp**

Used with duplicate client devices.

#### **SCConfig.jsp**

Associated with basic Service Configuration data, and the other endpoints accessible from the Configuration menu.

#### **SCConfigAuth.jsp**

Supports the configuration of available authentication databases. You can get to this window by navigating to Configure > Authentication.

**SCConfigConsole.jsp**

Supports the configuration of administrative and globalization console properties. You can get to this window by navigating to Configure > Global Services > Console.

**SCConfigGlobal.jsp**

Supports the configuration of AM global properties. You can get to this window by selecting Configure > Server Defaults.

**SCConfigSystem.jsp**

Supports the configuration of AM system properties. You can get to this window by selecting Configure > Global Services > System.

**SCPlatform30.jsp**

Accesses current global attributes and cookie domain settings. To get to this window, select Configure > Global Services > System > Platform.

**SCPPolicy.jsp**

Supports a view of the current policy configuration. To access this window, select Configure > Global Services > Policy Configuration.

**SCPPolicyResourceComparatorAdd.jsp**

Supports the addition of a new resource comparator to the current policy configuration. To access the relevant window, select Configure > Global Services > Policy Configuration.

**SCPPolicyResourceComparatorEdit.jsp**

Supports the editing of an existing resource comparator in the current policy configuration. To access the relevant window, select Configure > Global Services > Policy Configuration.

**SCSAML2SOAPBinding.jsp**

Enables a review of current SAML v2.0 SOAP binding request handlers. Associated with SOAP-based communications, using SAML v2.0 requests, between a client and a server. To access the relevant screen, select Configure > Global Services > SAMLv2 SOAP Binding.

**SCSAML2SOAPBindingRequestHandlerListAdd.jsp**

Allows you to add a new SAML v2.0 SOAP binding request handler. To access the relevant screen, select Configure > Global Services > SAMLv2 SOAP Binding.

**SCSAML2SOAPBindingRequestHandlerListDup.jsp**

Allows you to duplicate an existing SAML v2.0 SOAP binding request handler. To access the relevant screen, select Configure > Global Services > SAMLv2 SOAP Binding.

**SCSAML2SOAPBindingRequestHandlerListEdit.jsp**

Allows you to edit an existing SAML v2.0 SOAP binding request handler. To access the relevant screen, select Configure > Global Services > SAMLv2 SOAP Binding.

**SCSOAPBinding.jsp**

Enables a review of current SOAP binding request handlers. Associated with the Liberty Alliance Project Identity Federation Framework (Liberty ID-FF).

**SCSOAPBindingRequestHandlerListAdd.jsp**

Allows you to add a new SOAP binding request handler. Associated with the Liberty Alliance Project Identity Federation Framework (Liberty ID-FF).

**SCSOAPBindingRequestHandlerListDup.jsp**

Allows you to duplicate an existing SOAP binding request handler. Associated with the Liberty Alliance Project Identity Federation Framework (Liberty ID-FF).

**SCSOAPBindingRequestHandlerListEdit.jsp**

Allows you to edit an existing SOAP binding request handler. Associated with the Liberty Alliance Project Identity Federation Framework (Liberty ID-FF).

**SecurityTokenService.jsp**

Supports the configuration of tokens associated with the Security Token Service (STS). To access the associated screen, select Configure > Global Services > Security Token Service.

**ServerAdd.jsp**

Supports the addition of an AM server to work behind a load balancer in support of Session Failover (SFO). Available from Deployment > Servers.

**ServerClone.jsp**

Supports the cloning of an existing AM server to work behind a load balancer in support of session high availability. Available from Deployment > Servers.

**ServerConfigInherit.jsp**

Supports the inheritance of the default configuration for servers, as it relates to SFO.

**ServerConfigXMLAddServer.jsp**

Enables the configuration for a new server; relates to SFO.

**ServerConfigXML.jsp**

Supports the review of the XML settings of an existing server, as it relates to SFO.

**ServerEditAdvanced.jsp**

Supports the editing of advanced properties for default servers, in the configuration of servers for SFO. To access, navigate to Configure > Server Defaults > Advanced.

**ServerEditCTS.jsp**

Supports the editing of properties for the Core Token Service. To access, navigate to Configure > Server Defaults > CTS.

### ServerEditGeneral.jsp

Supports the editing of general properties for default servers, such as the base directory, default locale, debug level, mail server for notifications, and more. Relates to the configuration of servers for SFO. To access, select Configure > Server Defaults.

### ServerEditSDK.jsp

Supports the editing of SDK-related properties for default servers, associated with SFO. Supports editing of settings such as datastore notifications, event service connection retries, LDAP connections, Time To Live (TTL) for user entries, and more. To access, navigate to Configure > Server Defaults > SDK.

### ServerEditSecurity.jsp

Supports the editing of security properties for default servers; associated with SFO. Includes default security settings such as encryption keys, cookie encoding, keystores, and certificate management. To access, navigate to Configure > Server Defaults > Security.

### ServerEditSession.jsp

Supports the editing of session properties for default servers; associated with SFO. Note the Session Limit default specifies a maximum of 5000, well short of the 100,000 sessions that can be handled by a standard 3GB dual-core production system. To access, navigate to Configure > Server Defaults > Session.

### ServerEditUMA.jsp

Supports the editing of UMA properties for default servers. To access, select Configure > Server Defaults > UMA.

### ServerSite.jsp

Associated with the addition or editing of a load balancer that distributes requests to other AM servers. To access, select Deployment > Servers.

### SiteAdd.jsp

Enables the configuration of a load balancer to distribute requests to other existing AM servers. To access, select Configure > Sites.

### SiteEdit.jsp

Enables changes to a configured load balancer in how it distributes requests to other existing AM servers. To access, select Configure > Sites.

### SMDiscoveryBootstrapRefOffAdd.jsp

Includes new resource offerings for the discovery service, bootstrapped using a standard such as SAML2.

### SMDiscoveryBootstrapRefOffEdit.jsp

Supports the editing of existing resource offerings for the discovery service, bootstrapped with a standard such as SAML2.

**SMDiscoveryDescriptionAdd.jsp**

Includes the addition of new options for the discovery service.

**SMDiscoveryDescriptionEdit.jsp**

Supports the editing of existing options for the discovery service.

**SMDiscoveryProviderResourceIdMapperAdd.jsp**

Supports the mapping of a new resource ID for the discovery service.

**SMDiscoveryProviderResourceIdMapperEdit.jsp**

Supports the editing of an existing resource ID for the discovery service.

**SMDiscoveryService.jsp**

Supports a review and configuration of the Discovery Server, for global attributes, the ResourceID Mapper plug-in, and bootstrapping.

**SMG11N.jsp**

Allows you to configure globalization settings for AM; navigate to Configure > Global Services > Console > Globalization Settings.

**SubConfigAdd.jsp**

Allows you to configure a secondary configuration instance; navigate to Configure > Global Services > Session.

**SubConfigEdit.jsp**

Allows you to edit an existing secondary configuration instance; navigate to Configure > Global Services > Session.

**SubSchemaTypeSelect.jsp**

Allows you to configure a schema associated with breadcrumbs.

## 5.1.14. Session Console JSP Endpoints

There are currently two service endpoints configured in the `console/session` subdirectory, related to login sessions.

**SMPProfile.jsp**

Provides statistics on current stateful login sessions. Available from Realms > *Realm Name* > Sessions.

**SessionHASStatistics.jsp**

Supports session high availability statistics collection.

### 5.1.15. Task Console JSP Endpoints

The service endpoints in the `console/task` subdirectory relate to the options available from the default start page when an administrator logs into the AM console. If you do not use Google Apps or Salesforce, you may not need some of the functionality in the associated endpoints.

#### `CompleteCreateHostedIDP.jsp`

Provides information on what the administrator can do after configuring an Identity Provider (IDP). Options listed include registering a remote Service Provider (SP), creating a fedlet, configuring Google Apps, and configuring Salesforce CRM. Includes links to such functionality, which depend on the configuration of a Circle of Trust (CoT).

#### `ConfigureGoogleApps.jsp`

Supports the configuration of Google Apps for Single-sign on (SSO). Requires a CoT configured with an IDP.

#### `ConfigureGoogleAppsComplete.jsp`

Enables entries to configure the SP. Includes steps "To Enable Access to the Google Apps API."

#### `ConfigureGoogleAppsWarning.jsp`

Includes a default warning message related to the `ConfigureGoogleApps.jsp` endpoint. The message is: "Unable to configure because there are no circle of trust with Identity Provider."

#### `ConfigureOAuth2.jsp`

Supports the configuration of OAuth2 Authorization. For more information, see the OAuth 2.0 Guide.

#### `ConfigureSalesForceApps.jsp`

Accessible when you select the Configure Salesforce CRM link shown in the main GUI console. Requires IDP and SP information for an appropriate CoT, where AM is the IDP and Salesforce is configured as the SP.

#### `ConfigureSalesForceAppsComplete.jsp`

Supports the configuration of SSO with a Salesforce CRM account. Includes instructions on the settings to add to an applicable Salesforce account.

#### `ConfigureSalesForceAppsFinishWarning.jsp`

Includes a warning message related to the `ConfigureSalesForceApps.jsp` endpoint. The message is: "Unable to configure because there are no circle of trust with Identity Provider."

#### `ConfigureSalesForceAppsWarning.jsp`

Sets up a warning message related to a need for a circle of trust for the configuration.

#### `ConfigureSocialAuthN.jsp`

Accessible when you select one of the Configure Social Authentication options shown in the main GUI console.

**CreateFedLet.jsp**

A fedlet supports federation for a SP that does not already have its own federation solution. For more information, see Chapter 3, *"Implementing SAML v2.0 Service Providers Using the Fedlet"* in the *SAML v2.0 Guide*.

**CreateFedLetWarning.jsp**

Sets up a warning message related to the prerequisite for a CoT with the IDP.

**CreateHostedIDP.jsp**

Supports the configuration of a SAML v2.0 IDP on the local instance of AM.

**CreateHostedSP.jsp**

Supports the configuration of a SAML v2.0 SP on the local instance of AM.

**CreateRemoteIDP.jsp**

Supports the configuration of a SAML v2.0 IDP on a remote system, within a configured CoT.

**CreateRemoteSP.jsp**

Supports the configuration of a SAML v2.0 SP on a remote system, within a configured CoT.

**Home.jsp**

Endpoint that redirects the client to the startup page for AM.

**ValidateSAML2Setup.jsp**

Supports the test of a federation connection between an IDP and SP in a CoT.

## 5.1.16. User Console JSP Endpoints

Endpoints in the console/user subdirectory support account configuration tasks. Many of these endpoints are accessible by realm. From the home page screen, select Realms > *Realm Name* > Subjects > *User Name*. This should open up an Edit User screen

**UMChangeUserPassword.jsp**

This service endpoint is normally opened in a separate window to enable a user (or administrator) to change their login password. Accessible from the Edit User screen. All you need to do from the screen is click Edit next to the Password entry.

**UMUserDiscoveryDescriptionAdd.jsp**

Relates to the security mechanism identifier associated with a user. To access from the screen for an individual user, select Services > Discovery Service > Add > scroll down to the Service Description box > New Description > select and Add a Security Mechanism ID. An example ID is `urn:liberty:security:2003-08:ClientTLS:SAML`, which relates to the former Liberty Alliance project. The ID also uses Transaction Layer Security (TLS) on the client with SAML assertions.

#### UMUserDiscoveryDescriptionEdit.jsp

Supports editing of the security mechanism identifier associated with a user. Closely related to the `UMUserDiscoveryDescriptionAdd.jsp` endpoint.

#### UMUserPasswordResetOptions.jsp

Allows you to "Force Change Password on Next Login". Accessible from the Edit User screen for a specific user, via the "Password Reset Options" entry near the bottom of the window.

#### UMUserResourceOffering.jsp

Accessible as an option to the Discovery Service for a specific user. To access from the Edit User screen for a specific user, select Services > Discovery Service > Add.

#### UMUserResourceOfferingAdd.jsp

Accessible as an option to the Discovery Service for a specific user. To access from the Edit User screen for a specific user, select Services > Discovery Service > Add.

#### UMUserResourceOfferingEdit.jsp

Accessible as an option to the Discovery Service for a specific user. To edit an existing resource offering, navigate to the Edit User screen for a specific user, select Services > Discovery Service > *[some previously configured service]*.

## 5.1.17. Web Services Console JSP Endpoints

Web services include endpoints in the `console/webservices` subdirectory. You can use them to define legacy options for services, such as the Liberty Identity Federation Framework (ID-FF). As such, these endpoints may be less essential to your implementation of AM. For more information, see the *AM Wiki on Web Services*.

#### WSAuthNServices.jsp

Supports the configuration of various mechanism handlers for authentication, including CRAM-MD5, PLAIN, and SSOToken.

#### WSAuthNServicesHandlersAdd.jsp

Supports the addition of a new mechanism handler for authentication.

#### WSAuthNServicesHandlersEdit.jsp

Supports changes to an existing mechanism handler for authentication.

#### WSPPServiceDSAttributeMapListAdd.jsp

Enables the addition of a new LDAP attribute, with a name prefix.

#### WSPPServiceDSAttributeMapListEdit.jsp

Enables the editing of an existing LDAP attribute, with a name prefix.



**WSPPServiceSupportedContainerAdd.jsp**

Enables the creation of a new supported container for ID-FF.

**WSPPServiceSupportedContainerEdit.jsp**

Enables the editing of an existing container.

**WSPersonalProfileService.jsp**

Allows you to configure ID-FF for global attributes, supported containers, PPLDAP attributes and alternative security mechanisms.

## 5.1.18. OAuth and Related JSP Endpoints

Includes endpoints in the `oauth2` and `oauth2c` subdirectories. Some of the service endpoints in the `oauth` subdirectory are based on OAuth 1.0, which is deprecated.

**checkSession.jsp**

Enables retrieval of session status change notifications for OpenID Connect 1.0. For more information, see the Session Status Change Notification section in the *OpenID Connect Session Management 1.0 specification*.

**registerClient.jsp**

Enables registration of an OAuth 2.0 client with the AM OAuth 2.0 authorization service. For details, see Section 2.2, "Registering OAuth 2.0 Clients With the Authorization Service" in the *OAuth 2.0 Guide*.

**OAuthLogout.jsp**

Used to log out the resource owner with the OAuth 2.0 provider. For more information, see Section 2.2, "Registering OAuth 2.0 Clients With the Authorization Service" in the *OAuth 2.0 Guide*.

**OAuthProxy.jsp**

Endpoint used for redirection. For more information, see Section 2.2, "Registering OAuth 2.0 Clients With the Authorization Service" in the *OAuth 2.0 Guide*.

## 5.1.19. Password JSP Endpoints

The endpoints in this section can be found in the `password/ui` subdirectory. Each of these endpoints use the `PWResetViewBeanBase.java` file, as a class to set up messages. You can view some of these endpoints by omitting the `password`. For example, to view the effect of the `PWResetUserValidation.jsp` endpoint on an AM system using a URL of `openam.example.org` in a standard Tomcat container, navigate to <http://openam.example.org/openam/ui/PWResetUserValidation.jsp>. To set associated options, in the AM console navigate to Configure > Global Services, and then click Password Reset, the legacy Password Reset Service.

#### `PWResetBase.jsp`

This simple endpoint includes a redirection of the ServiceURI, and specifies AM as the ProductName. It is used by the other endpoints in the `password/ui` subdirectory.

#### `PWResetInvalidURL.jsp`

This endpoint is called with the `PWResetInvalidURLViewBean` class, when a module servlet gets an invalid URL.

#### `PWResetQuestion.jsp`

Starts the password reset process by prompting for the User ID. For more information on the process, see the method for the associated `PWResetQuestionModel`, available from the [Interface PWResetQuestionModel](#) specification page.

#### `PWResetSuccess.jsp`

Specifies the endpoint that is called when an account password is successfully reset.

#### `PWResetUncaughtException.jsp`

Specifies a "Contact your administrator" message when there is an error in a related endpoint.

#### `PWResetUserValidation.jsp`

Opens a screen that prompts for a user ID (UID). If that UID is found in the database, configured with an accessible email address, on a system connected to a mail server, a reset link is sent to that address.

## 5.1.20. SAML2 JSP Endpoints

You can find the endpoints described in this section in the `saml2/jsp` subdirectory. As of this writing, some of these endpoints are not used in the current implementation of AM. Active endpoints in this category are discussed in the [SAML v2.0 Guide](#).

#### `autologout.jsp`

May be dispatched to perform a single logout.

#### `autologoutwml.jsp`

May be dispatched to perform a single logout in a WML environment.

#### `autosubmitaccessrights.jsp`

Auto-submitting form used to post an error message and relay state. Used by the Fedlet.

#### `autosubmittingerror.jsp`

Auto-submitting form used to post error messages.

### default.jsp

May be used by other files to return a success or failure message. While the `default.jsp` name is common in the trunk, the `jsp/default.jsp` filename is used only by `SPSingleLogout.java`, which is not commonly used.

### exportmetadata.jsp

Supports the export of XML-based metadata with other providers within a circle of trust (CoT). Currently used. For more information, see the [SAML v2.0 Guide](#).

### idpMNIPOST.jsp

The MNI in several JSP files relate to ManageNameID, which sets up corresponding accounts on IDPs and SPs. This particular JSP file processes a request from an IDP through an HTTP redirect.

### idpMNIRedirect.jsp

The MNI in several JSP files relate to ManageNameID, which sets up corresponding accounts on IDPs and SPs. This particular JSP file processes a request from an IDP through an HTTP redirect. It uses a metadata-based alias, an entity ID for the service provider, and the type of MNI request; examples include `NewID` and `terminate`.

### idpMNIRequestInit.jsp

The MNI in several JSP files relate to ManageNameID, which sets up corresponding accounts on IDPs and SPs. As described in Section 2.5.1, "Changing Federation of Persistently Linked Accounts" in the *SAML v2.0 Guide*, it allows you to change federation of persistently linked accounts. The chapter also includes an example of this endpoint at work.

### idpSSOFederate.jsp

Specifies an endpoint that takes authentication requests from an SP, with a `SAMLRequest` data, a `metaAlias` and a `RelayState` with information from the target URL.

### idpSSOInit.jsp

Specifies an endpoint that starts SSO, either from cache, or by verifying `metaAlias` and SP identifier data. For more information, see the [SAML v2.0 Guide](#).

### idpSingleLogoutInit.jsp

Starts a `LogoutRequest` from the identity provider. For more information, see the [SAML v2.0 Guide](#).

### idpSingleLogoutPOST.jsp

Specifies an endpoint that receives logout requests from IDPs and receives logout responses from SPs. Also sends logout responses to SPs.

### idpSingleLogoutRedirect.jsp

Takes the `SAMLRequest` and `SAMLResponse` messages for logouts from the SP. May also handle the `RelayState` directive.

### SA\_IDP.jsp

Used for SAML authentication for communication with identity providers (IDPs).

**SA\_SP.jsp**

Used for SAML authentication for communication with service providers (SPs).

**saeerror.jsp**

Returns an error message related to Secure Attribute Exchange (SAE). Currently used only by the `SA_IDP.jsp` and `SA_SP.jsp` endpoints.

**saml2error.jsp**

Endpoint that may return one of many error codes, specified in the comments of the file.

**saml2AuthAssertionConsumer.jsp**

Used on a SP, to interpret information from an IDP. The request to the IDP is an `AuthnRequest`; the response from the IDP is read by this endpoint. SAML v2.0 single sign-on implemented using integrated mode uses this endpoint.

**spAssertionConsumer.jsp**

Used on a SP, to interpret information from an IDP. The request to the IDP is an `AuthnRequest`; the response from the IDP is read by this endpoint. SAML v2.0 single sign-on implemented using standalone mode uses this endpoint.

**spMNIPOST.jsp**

The MNI in several JSP files relate to `ManageNameID`, which sets up corresponding accounts on IDPs and SPs. This particular endpoint takes the associated request, using an HTTP Redirect, from a SP. Less commonly used.

**spMNIRedirect.jsp**

This particular endpoint handles the `ManageNameIDRequest` and `ManageNameIDResponse` messages with the help of HTTP Redirect. Less commonly used.

**spMNIRequestInit.jsp**

This particular endpoint supports changes to federation of persistently linked accounts, in a fashion similar to `idpMNIRequestInit.jsp`. For an example of this endpoint in work, see the [SAML v2.0 Guide](#).

**spSSOInit.jsp**

Supports SSO messages from the SP. For more information and an example of how this endpoint is used, see the [SAML v2.0 Guide](#).

**spSingleLogoutInit.jsp**

Supports SSO messages from the SP. For more information, see the [SAML v2.0 Guide](#).

**spSingleLogoutPOST.jsp**

Specifies an endpoint that receives logout requests from SPs and receives logout responses from IDPs. Also sends logout responses to IDPs. Converse endpoint to `idpSingleLogoutPOST.jsp`.

### `spSingleLogoutRedirect.jsp`

Takes the `SAMLRequest` and `SAMLResponse` messages for logouts from the IDP. May also handle the `RelayState` directive. Converse endpoint to `idpSingleLogoutRedirect.jsp`.

## 5.1.21. WS Federation JSP Endpoints

The endpoints described in this section, in the `wsfederation/jsp` subdirectory, relate to Kantara Initiative standards that originated with the Liberty Alliance Project Identity Federation Framework.

### `logout.jsp`

Shows a page after a successful logout.

### `multi.jsp`

Used for multi-federation protocol configurations.

### `post.jsp`

Sets up a form for single sign-on (SSO) responses sent from the IDP to the SP.

### `realmSelection.jsp`

Default display if no realms are defined.

## 5.2. WEB-INF Endpoints

The AM WAR archive includes the deployment descriptor file, `/path/to/webapps/openam/WEB-INF/web.xml`, which contains references to different URL patterns that AM accesses as endpoints. These endpoints are based on what could be added to an AM URL. Many of the endpoints that appear in the `web.xml` file are not directly related to the `.jsp` files described in other parts of this chapter.

Endpoints in the `web.xml` file are tagged with the `url-pattern` label. Each of the `url-pattern` entries shown in the `web.xml` file is associated with a `filter-name` or a `servlet-name` element. The definitions that follow use those elements to help identify the function of each endpoint.

If you want to disable one or more of these endpoints, you may be able to delete them from the `web.xml` file.

The `web.xml` file changes from release to release of AM. If you do choose to remove endpoints from this file in order to disable access to parts of the AM configuration, be sure to review the `web.xml` file when you upgrade to a new release of AM. You will need to remove the restricted endpoints after each upgrade, and you should review new endpoints to determine whether you want to disable them.

The endpoints in this section are in the order found in the list of `url-pattern` entries shown in the `web.xml` file at the time of this writing.

`/service/*, /federation/*, /realm/*, /agentconfig/*, /sts/*, /delegation/*, /idm/*, /Debug.jsp`

Filters for various endpoints. Associated with the `JatoAuditFilter`, which implements the `org.forgerock.openam.audit.servlet.AuditAccessServletFilter` filter class.

`/*`

Implements the `AuditContextFilter` for all endpoints. This filter implements the `org.forgerock.openam.audit.context.AuditContextFilter` filter class.

`/*`

Implements the `amSetupFilter` for all endpoints. This filter implements the `com.sun.identity.setup.AMSetupFilter` filter class.

`/UI/*, /idm/EndUser`

Implements the `XUIFilter`. This filter implements the `org.forgerock.openam.xui.XUIFilter` filter class.

`/*`

Implements the `ResponseValidationFilter` for all endpoints. This filter implements the `org.forgerock.openam.validation.ResponseValidationFilter` filter class.

`/XUI/index.html`

Implements the `CacheForFiveMinutes`. This filter implements the `org.forgerock.openam.headers.SetHeadersFilter` filter class.

`/XUI/*`

Implements the `CacheForAMonth`. This filter implements the `org.forgerock.openam.headers.SetHeadersFilter` filter class.

`/ws/*`

Implements the `AuthNFilter` and `AuthZFilter`. These filters implement the `com.sun.identity.rest.AuthNFilter` and `com.sun.identity.rest.AuthZFilter` filter classes.

`/login`

With the help of the `LoginLogoutMapping.java` file, this would forward to the `/UI/Login.jsp` endpoint.

`/logout`

With the help of the `LoginLogoutMapping.java` file, this would forward to the `/UI/Logout.jsp` endpoint.

`/UI/*`

Uses the `LoginServlet`.

`/config/configurator`

Uses the `AMSetupServlet`, which is the first class to get loaded by the Servlet \* container (as noted in the associated `.java` file)

#### `/setup/setSetupProgress`

Used by the installation wizard to display the progress.

#### `/upgrade/setUpgradeProgress`

Used by the upgrade wizard to display progress.

#### `/ui/*`

Associated with the servlet named `PWResetServlet`, associated with password resets.

#### `/gateway`

Used with the servlet named `GatewayServlet`. Associated with the `Gateway.java` file, which takes an authentication module and forwards it to a login URL.

#### `/GetHttpSession`

The associated `.java` file is associated with session high availability.

#### `/sessionservice, /profiles-service, /policy-service, /naming-service, /logging-service, /auth-service, /notification-service`

All of these endpoints are associated with [OpenAM Security Advisory #201203](#). As suggested in the advisory, if you are using OpenAM version 9.5.4 or 10.0.0, you should be sure to apply the updates required to upgrade your systems to versions 9.5.5 or 10.0.1 (or higher).

#### `/jaxrpc/*, /identityservices/*`

These endpoints provide information on configured web services, including the port name, status, URL, and implementation class. Both endpoints show the same data. The `IdentityServices` servlet name points to the following description: "Web Service Endpoint - Identity Services".

#### `/SMSServlet`

Includes system configuration information when available, as documented in the comments to the `AMSystemConfig.java` file.

#### `/identity/*`

Possibly a legacy endpoint. While the associated `IdentityServicesHandler` servlet is identified as "REST Endpoint - Identity Services", it is only cited in the `IdentityServicesHandler.java` file.

#### `/notification/*`

The associated servlet named `notificationServlet` appears to be commonly used. When the URL is entered, the default output is 200, which is associated with a URL success message.

#### `/entitlementmonitor/*`

Used by the `NetworkMonitor.java` file, which is useful for the monitoring of AM services.

#### `/resources/*`

Linked to an `oauth` servlet. The associated `com.sun.identity.oauth.service.RestService` class is rarely used.

#### `/SPMniSoap/*`

Used by a servlet named `SPMniSoap`; associated with a `com.sun.identity.saml2.servlet.SPManageNameIDServiceSOAP` servlet class. The associated `.java` file works with Manage Name ID communications using SOAP binding from the SP. As the former `spMNI SOAP.jsp` file no longer exists in the trunk, this may be a legacy endpoint.

#### `/SPMniPOST/*`

Used by a servlet named `spMNIPOST.jsp`; previously defined in the SAML2 JSP Endpoints section.

#### `/SPMniRedirect/*`

Used by a servlet named `spMNIRedirect.jsp`, which is defined in the SAML2 JSP Endpoints section.

#### `/SPMniInit/*`

Used by a servlet named `spMNIRequestInit.jsp`, which is defined in the SAML2 JSP Endpoints section.

#### `/SPECP/*`

The associated `SPECPServlet` class receives and processes single logout (SLO) requests, using SOAP bindings on the SP.

#### `/SPSloSoap/*`

The associated `SPSingleLogoutServiceSOAP` class receives and processes single logout (SLO) requests, using SOAP bindings on the SP.

#### `/SPSloPOST/*`

Used by a servlet named `spSingleLogoutPOST.jsp`, which is defined in the SAML2 JSP Endpoints section.

#### `/SPSloRedirect/*`

Used by a servlet named `spSingleLogoutRedirect.jsp`, which is defined in the SAML2 JSP Endpoints section.

#### `/SPSloInit/*`

Used by a servlet named `spSingleLogoutInit.jsp`, which is defined in the SAML2 JSP Endpoints section.

#### `/Consumer/*`

Used by a servlet named `spAssertionConsumer.jsp`, which is defined in the SAML2 JSP Endpoints section.

#### `/AuthConsumer/*`

Used by a servlet named `AuthConsumer.jsp`, which is defined in the SAML2 JSP Endpoints section. Used with SAML v2.0 integrated mode deployments.

#### `/SSOPOST/*`, `/SSORedirect/*`

Used by a servlet named `idpSSOFederate.jsp`, which is defined in the SAML2 JSP Endpoints section.



**/NIMSoap/\***

Used by a servlet named `NameIDMappingServiceSOAP`.

**/AIDReqUri/\***

Used by a servlet named `AssertionIDRequestServiceSoap`.

**/AIDReqSoap/\***

Used by a servlet named `AssertionIDRequestServiceSoap`.

**/AuthnQueryServiceSoap/\***

Used by a servlet named `AuthnQueryServiceSoap`.

**/AttributeServiceSoap/\***

Used by a servlet named `AttributeServiceSoap`.

**/SSOSoap/\***

Used by a servlet named `SSOSoap`.

**/IDPMniSoap/\***

Used by a servlet named `IDPMniSoap`.

**/IDPMniPOST/\***

Used by a servlet named `idpMNIPOST.jsp`, which is defined in the SAML2 JSP Endpoints section.

**/IDPMniRedirect/\***

Used by a servlet named `idpMNIRedirect.jsp`, which is defined in the SAML2 JSP Endpoints section.

**/IDPMniInit/\***

Used by a servlet named `idpMNIRequestInit.jsp`, which is defined in the SAML2 JSP Endpoints section.

**/IDPSloSoap/\***

Used by a servlet named `IDPSloSoap`.

**/IDPSloPOST/\***

Used by a servlet named `idpSingleLogoutPOST.jsp`, which is defined in the SAML2 JSP Endpoints section.

**/IDPSloRedirect/\***

Used by a servlet named `idpSingleLogoutRedirect.jsp`, which is defined in the SAML2 JSP Endpoints section.

**/IDPSloInit/\***

Used by a servlet named `idpSingleLogoutInit.jsp`, which is defined in the SAML2 JSP Endpoints section.

#### `/ArtifactResolver/*`

Used by a servlet named `IDPArtifactResolver`.

#### `/spssoinit`

Used by a servlet named `spSSOInit.jsp`, which is defined in the SAML2 JSP Endpoints section.

#### `/idpssoinit`

Used by a servlet named `idpSSOInit.jsp`, which is defined in the SAML2 JSP Endpoints section.

#### `/idpSSOFederate`

Used by a servlet named `idpSSOFederate.jsp`, which is defined in the SAML2 JSP Endpoints section.

#### `/idpsaehandler/*`

Used by a servlet named `SA_IDP.jsp`, which is defined in the SAML2 JSP Endpoints section.

#### `/spsaehandler/*`

Used by a servlet named `IDP_SP.jsp`, which is defined in the SAML2 JSP Endpoints section.

#### `/idpfinder`

Used by a servlet named `IDPFinderService`; the associated `FSIDPFinderService.java` file can be used to find a preferred IDP with a common domain cookie.

#### `/cdcservlet`

Used by a servlet named `CDCServlet`. It is associated with a Cross Domain Controller Servlet, as described in the the chapter on Section 1.9.2, "Cross-Domain SSO" in the *Authentication and Single Sign-On Guide*.

#### `/SAMLAwareServlet`

Used by a servlet named `SAMLAwareServlet`. It is associated with communications between a client, an SP, and an IDP. The transfer service on the IDP is the SAML Aware Servlet, and is part of the client web browser artifact profile. It validates a session token from a request run through the IDP.

#### `/SAMLPOSTProfileServlet`

Used by a servlet named `SAMLPOSTProfileServlet`. It is associated with communications between a client, an SP, and an IDP. The transfer service on the IDP is the SAML Aware Servlet, and is part of the client web browser POST profile, which supplies assertion IDs, and returns the response to the client browser.

#### `/SAMLSOAPReceiver`

Used by a servlet named `SAMLSOAPReceiver`. The servlet extracts a SAML request from a message sent in SOAP format. That message can be a query for authorization, attributes, or authentication. It supports POST messages only.

#### `/AssertionManagerServlet/*`

Used by a servlet named `AssertionManagerServlet`. It supports dynamic substitution, using the host name, port number, and the deployment location.

#### `/FSAssertionManagerServlet/*`

Used by a servlet named `FSAssertionManagerServlet`. It provides remote interfaces for the assertion manager class.

#### `/SecurityTokenManagerServlet/*`

Used by a servlet named `SecurityTokenManagerServlet`. It supports dynamic substitution, using session parameters.

#### `/preLogin`

Used by a servlet named `preLoginHandler`. As there is no associated `.java` or `.jsp` file, it may be a legacy endpoint.

#### `/postLogin/*`

Used by a servlet named `postLoginHandler`. As there is no associated `.java` or `.jsp` file, it may be a legacy endpoint.

#### `/federation`

Used by a servlet named `FederationServlet`. Associated with the `com.sun.identity.federation.login.FSFederationHandler` class. The matching `FSFederationHandler.java` file processes requests to initiate a federation.

#### `/consentHandler`

Used by a servlet named `consentHandler`. Associated with the `com.sun.identity.federation.login.FSConsentHandler` class. The matching `FSConsentHandler.java` file processes redirect requests in an existing federation.

#### `/ProcessLogout/*`

Used by a servlet named `ProcessLogout`. Associated with the `FSProcessLogoutServlet` class. It is designed to handle single logout requests related to Kantara/Liberty ID-FF processes.

#### `/ReturnLogout/*`

Used by a servlet named `ReturnLogout`. Associated with the `FSReturnLogoutServlet` class. It is designed to handle single logout responses related to Kantara/Liberty ID-FF processes. (Note the subtle difference with the `ProcessLogout` endpoint which handles logout requests.)

#### `/Liberty-logout`

Used by a servlet named `LogoutServlet`. Associated with the `FSSingleLogoutServlet` class. It is designed to start single logout requests related to Kantara/Liberty ID-FF processes.

#### `/SingleSignOnService/*`

Used by a servlet named `SingleSignOnService`. Associated with the `FSSSOAndFedService` class. Configured for SSO on the IDP.

#### `/IntersiteTransferService`

Used by a servlet named `IntersiteTransferService`. Associated with the `FSIntersiteTransferService` class. It is designed to send a `AuthnRequest` to an IDP.

#### `/AssertionConsumerService/*`

Used by a servlet named `AssertionConsumerService`. Associated with the `FSAssertionConsumerService` class. For more information, see the SAML v2.0 Guide.

#### `/SOAPReceiver/*`

Used by a servlet named `SOAPReceiver`. Associated with the `FSSOAPReceiver` class. SOAP endpoint that handles federation and specifies a URI to the SP.

#### `/federation-terminate`

Used by a servlet named `FederationTerminationServlet`. Associated with the `FSTerminationInitiationServlet.java` file, used to initiate termination of a federation connection. The IDP will send the termination request to the associated URL.

#### `/ProcessTermination/*`

Used by a servlet named `ProcessTermination`. Associated with the `FSTerminationRequestServlet` class. The associated `.java` file is used when a request is received by a remote SP.

#### `/ReturnTermination/*`

Used by a servlet named `ReturnTermination`. Associated with the `FSTerminationReturnServlet` class. The associated `.java` file is used to define a URL used by an IP to send termination responses.

#### `/InitiateRegistration/*`

Used by a servlet named `InitiateRegistration`. Associated with the `FSRegistrationInitiationServlet` class. The associated `.java` file is used to handle the registration request from a remote IDP.

#### `/ProcessRegistration/*`

Used by a servlet named `ProcessRegistration`. Associated with the `FSRegistrationRequestServlet` class. Processes registration requests from remote SPs.

#### `/ReturnRegistration/*`

Used by a servlet named `ReturnRegistration`. Associated with the `SRegistrationReturnServlet` class. Defines a URL for IDPs to send registration responses.

#### `/Liberty/*`

Used by a servlet named `WSSOAPReceiver`. Associated with the `SOAPReceiver` class. Defines an endpoint that handles SOAP requests.

#### `/WSPRedirectHandler/*`

Used by a servlet named `WSPRedirectHandler`. Associated with the `WSPRedirectHandlerServlet` class. Used by the SP for user redirects.

#### `/idffwriter, /saml2writer`

Used by a servlet with a matching name (`idffwriter`, `saml2writer`). Associated with the `CookieWriterServlet` class. Used by the IDP to help the web container find app-specific info, such as Java classes or Java Archives (JARs).

#### `/idffreader, /saml2reader`

Used by a servlet with a matching name (`idffreader`, `saml2reader`). Associated with the `CookieReaderServlet` class. Used by the SP to help find the preferred IDP.

#### `/multiprotocolrelay`

Used by a servlet named `MultiProtocolRelayServlet`. Associated with the `MultiProtocolRelayServlet` class. Also used in federation as a `RelayState` to continue to the next protocol.

#### `/WSFederationServlet/*, /FederationMetadata/*`

Used by a servlet named `WSFederationServlet`. Associated with the `WSFederationServlet` class. Used as a service endpoint for WS-Federation.

#### `/RealmSelection/*`

Used by an endpoint named `realmSelection.jsp`, which was defined in the WS-Federation JSP Endpoints section.

#### `/saml2query/*`

Used by a servlet named `saml2query`. Associated with the `QueryHandlerServlet` class. The corresponding `.java` file receives and processes SAML2 queries.

#### `/federationws/*`

Used by a servlet named `federationrest`. Associated with the `ServletContainer` class. Does not appear to be included in any current `.java` or `.jsp` file, so it may be a legacy endpoint.

#### `/oauth2/registerClient.jsp`

Used by a servlet named `OAuth2RegisterClient`. For more information, see the OAuth 2.0 Guide.

#### `/oauth2/connect/checkSession`

Used by a servlet named `OAuth2ConnectCheckSession`.

#### `/.well-known/*`

AM's well-known endpoints. See Section 5.4, "Well-Known Endpoints".

#### `/json/*`

Used by a servlet named `ForgeRockRest`. Associated with the `HttpServlet` class. For more information, see Chapter 2, "Developing with the REST API" in the *Development Guide*. In addition, you can read more about associated REST endpoints in Section 5.3, "REST API Endpoints".

### `/frrest/oauth2/*`

Used by a servlet named `OAuth2Rest`. Associated with the `RestTokenDispatcher` class. For more information, see Section 3.4, "OAuth 2.0 Token Administration Endpoint" in the *OAuth 2.0 Guide*.

### `/rest-sts, /sts-publish, /sts-tokengen`

Endpoints that expose AM's RESTful STS and SOAP STS functionality.

### `/xacml/*`

Endpoints that expose AM's XACML functionality.

### `/oauth2/*`

Used by a servlet named `OAuth2RestletAdapter`. Associated with the `RestTokenDispatcher` class. For more information, see Section 3.1, "OAuth 2.0 Client and Resource Server Endpoints" in the *OAuth 2.0 Guide*.

### `/uma/*`

Endpoints that expose AM's RESTful UMA functionality.

### `/authentication/*`

Associated with the servlet named `AuthServlet`. The associated `AuthServer.java` file is the controller servlet for realm authentication pages. When the URL is entered prior to login, it defaults to the standard login page.

### `/base/*`

Associated with the servlet named `AMBaseServlet`. While the associated `AMBaseServlet.java` file is rarely used, any URL entered prior to login defaults to the standard login page.

### `/service/*`

Associated with the servlet named `SCServlet`.

### `/session/*`

Associated with the servlet named `SMServlet`. While the associated `SMServlet.java` file is rarely used, any URL entered prior to login defaults to the standard login page.

### `/realm/*`

Associated with the servlet named `RMServlet`.

### `/policy/*`

Associated with the servlet named `PMServlet`. While the associated `PMServlet.java` file is rarely used, any URL entered prior to login defaults to the standard login page.

### `/idm/*`

Associated with the servlet named `IDMServlet`. While the associated `IDMServlet.java` file is rarely used, any URL entered prior to login defaults to the standard login page.

**/user/\***

Associated with the servlet named `UMServlet`. While the associated `UMServlet.java` file is rarely used, any URL entered prior to login defaults to the standard login page.

**/delegation/\***

Associated with the servlet named `DelegationServlet`. While the associated `DelegationServlet.java` file is rarely used, any URL entered prior to login defaults to the standard login page.

**/task/\***

Associated with the servlet named `TaskServlet`. While the associated `TaskServlet.java` file is rarely used, any URL entered prior to login defaults to the standard login page.

**/agentconfig/\***

Associated with the servlet named `AgentConfigurationServlet`. The associated `AgentConfigurationServlet` class is called by the `amAccessControl.xml` file. It is rarely used otherwise. Any URL entered prior to login defaults to the standard login page.

**/ccversion/\***

Associated with the servlet named `click-servlet`. There is no associated `click-servlet.java` or `ClickServlet.java` file.

**/federation/\***

Associated with the servlet named `FSServlet`. While the associated `FSServlet.java` file is rarely used, the URL prior to login defaults to the standard login page.

**/webservices/\***

Used by the `WSServlet.java` and `SecurityTokenService.java` files. If you are using web services and/or the Security Token Service (STS), you may want to keep this in place.

**/sts/\***

Associated with the STS. Be aware, this endpoint exposes basic service and port information for STS, Metadata Exchange (MEX), Simple Object Access Protocol 1.1 (SOAP11), and Web Service Definition Language (WSDL) endpoints without requiring authentication.

**/audit/\***

Associated with the servlet named `AuditServlet`.

## 5.3. REST API Endpoints

REST API endpoints are discussed in detail as follows:

### Developing with the REST API in the *Development Guide*

How to use the AM REST APIs for direct integration between web client applications and AM, including REST API versioning, token encoding, authentication, logout, and logging.

**Implementing Authorization Using the REST API in the *Authorization Guide***

How to use the AM REST APIs for authorization and policy management.

**Using OAuth 2.0 in the *OAuth 2.0 Guide***

How to use the AM REST APIs for OAuth 2.0 and OpenID Connect 1.0.

**RESTful User Self Service in the *User Self Service Guide***

How to use the AM REST APIs for user self-registration and forgotten password reset.

**Implementing Realms using the REST API in the *Setup and Maintenance Guide***

How to use the AM REST APIs for managing AM identities and realms.

**Managing Scripts With the REST API in the *Authentication and Single Sign-On Guide***

How to use the AM REST APIs to manage AM scripts.

**Recording Troubleshooting Information in the *Setup and Maintenance Guide***

How to use the AM REST APIs to record information that can help you troubleshoot AM.

**Implementing STS Using the REST API in the *Security Token Service Guide***

How to use the AM REST APIs to manage AM's Security Token Service, which lets you bridge identities across web and enterprise identity access management (IAM) systems through its token transformation process.

## 5.4. Well-Known Endpoints

The endpoints described in this section are [Well-Known](#) URIs supported by AM.

**[/.well-known/openid-configuration](#)**

Exposes OpenID Provider configuration by HTTP GET as specified by OpenID Connect Discovery 1.0. No query string parameters are required.

**[/uma/.well-known/uma-configuration](#)**

Exposes User-Managed Access (UMA) configuration by HTTP GET as specified by UMA Profile of OAuth 2.0. No query string parameters are required.

For an example, see Section 3.1, "Discovering UMA Configuration" in the *User-Managed Access (UMA) Guide*.

**[/.well-known/webfinger](#)**

Allows a client to retrieve the provider URL for an end user by HTTP GET as specified by OpenID Connect Discovery 1.0.

For an example, see Section 2.2, "Configuring for OpenID Connect Discovery" in the *OpenID Connect 1.0 Guide*.



## Chapter 6

# Log Files and Messages

This chapter gives information about the different log files and messages for OpenAM's classic Logging Service, which is based on the Java SDK.

### Note

OpenAM 13.0.0 introduces a new Audit Logging Service, which is an audit logging framework common across all ForgeRock products. Both logging services are available in OpenAM `${serverDocTargetVersion}`, but the classic Logging Service will be deprecated in a future release.

## 6.1. Log Files

This section describes the different OpenAM log files.

### 6.1.1. Audit Log Files

This chapter describes OpenAM audit log files:

Audit logs record information about OpenAM events. You can adjust the amount of detail in the administrative logs under Configuration > System > Logging.

#### **amAuthentication.access**

Contains log data for when users log into and out of OpenAM, including failed authentications

#### **amAuthentication.error**

Contains log data about errors encountered when users login and out of OpenAM

#### **amConsole.access**

Contains data about actions run as the administrator in the console, including changes to realms and policies

#### **amConsole.error**

Contains data on errors encountered during administrator sessions

#### **amPolicy.access**

Contains data about authorization actions permitted by policies, including policy creation, removal, or modification

**amPolicy.error**

Contains data on errors encountered during actions related to the policy

**amPolicyDelegation.access**

Contains data about actions as part of the policy delegation, including any changes to the delegation

**amRemotePolicy.access**

Contains data about policies accessed remotely

**amRest.access**

Contains data about access to REST endpoints

**amRest.authz**

Contains data about authorizations to access REST endpoints

**amSSO.access**

Contains data about user sessions, including times of access, session time outs, session creation, and session termination for stateful sessions; contains data about session creation and session termination for stateless sessions

**CoreToken.access**

Contains data about actions run against the core token

**CoreToken.error**

Contains data on errors encountered regarding the core token

**COT.access**

Contains data about the circle of trust

**COT.error**

Contains data on errors encountered for the circle of trust

**Entitlement.access**

Contains data about entitlement actions or changes

**IDFF.access**

Contains data about federation actions, including the creation of authentication domains or the hosted providers

**IDFF.error**

Contains data on errors encountered during federation actions

**Liberty.access**

Contains data about actions run for the federation Liberty schema

**Liberty.error**

Contains data on errors encountered for the federation Liberty schema

**OAuth2Provider.access**

Contains data about actions for the OAuth 2.0 provider

**OAuth2Provider.error**

Contains data about errors encountered by the OAuth 2.0 provider

**SAML2.access**

Contains data about SAML 2 actions, including changes to assertions, artifacts, response, and requests

**SAML2.error**

Contains data about errors encountered during SAML 2 actions

**SAML.access**

Contains data about SAML actions, including changes to assertions, artifacts, response, and requests

**SAML.error**

Contains data about errors encountered during SAML actions

**ssoadm.access**

Contains data about actions completed for SSO as admin

**WebServicesSecurity.access**

Contains data about activity for Web Services Security

**WebServicesSecurity.error**

Contains data on errors encountered by Web Services Security

**WSFederation.access**

Contains data about activity for WS Federation, including changes and access information

**WSFederation.error**

Contains data on errors encountered during WS Federation

## 6.1.2. Debug Log Files

Debug log files provide information to help troubleshoot OpenAM problems.

The number of messages that OpenAM logs to the debug log files varies depends on the debug logging level. The default debug logging level is Error. With other logging levels, such as Warning

and Message, OpenAM logs many more debug log messages and creates many more debug log files than it does by default.

When configured with the Message logging level, OpenAM can produce more than a hundred debug log files. Use the debug log file names to determine the type of troubleshooting information in each file. For example, the OpenAM command-line interface logs debug messages to the `amCLI` debug file. The OpenAM OAuth2 provider logs debug messages to the `OAuth2Provider` debug file. The OpenAM Naming Service logs messages to the `amNaming` debug file.

For information about configuring the location and verbosity of debug log files, see [Section 9.2, "Debug Logging"](#) in the *Setup and Maintenance Guide*.

## 6.2. Log Messages

This section describes OpenAM log messages.

OpenAM logs the following COT messages.

### **INVALID\_COT\_NAME**

ID: COT-1

Level: INFO

Description: Invalid circle of trust name.

Data: Realm or organization name, Circle of Trust Name

Triggers: Accessing the circle of trust.

Actions: Check the name and retry accessing the circle of trust.

### **CONFIG\_ERROR\_MODIFY\_COT\_DESCRIPTOR**

ID: COT-2

Level: INFO

Description: Configuration error modifying the circle of trust.

Data: Error message, Name of the circle of trust, Realm or organization name

Triggers: Modifying the circle of trust.

Actions: Check COT debug , fmCOT, for more detailed error message.

### **CONFIG\_ERROR\_GET\_ALL\_COT\_DESCRIPTOR**

ID: COT-3

Level: INFO

Description: Error retrieving all circle of trusts.

Data: Error message, Realm or organization name

Triggers: Getting all circle of trust.

Actions: Check configuration; check debug for more detailed error message.

### **NO\_COT\_NAME\_CREATE\_COT\_DESCRIPTOR**

ID: COT-4

Level: INFO

Description: Invalid name , error creating the circle of trust.

Data: Realm or organization name

Triggers: Creating the circle of trust.

Actions: Check the name to create circle of trust descriptor.

### **COT\_EXISTS\_CREATE\_COT\_DESCRIPTOR**

ID: COT-5

Level: INFO

Description: Circle of Trust exists.

Data: Name of the circle of trust, Realm or organization name

Triggers: Creating the circle of trust.

Actions: Create Circle of Trust with a unique name.

### **INVALID\_COT\_TYPE**

ID: COT-6

Level: INFO

Description: Circle of Trust Type is invalid

Data: Realm or organization name, Circle of Trust Type

Triggers: Creating the circle of trust.

Actions: The values for Circle of Trust type are IDFF , SAML2. Create Circle of Trust using either of these values.

### **CONFIG\_ERROR\_CREATE\_COT\_DESCRIPTOR**

ID: COT-7

Level: INFO

Description: Configuration error while creating circle of trust.

Data: Error message, Entity ID, Realm or organization name

Triggers: Create circle of trust.

Actions: Check the fmCOT debug file for detailed errors.

### **COT\_DESCRIPTOR\_CREATED**

ID: COT-8

Level: INFO

Description: Circle of trust created.

Data: Name of the circle of trust, Realm or organization name

Triggers: Creating the circle of trust.

### **NULL\_COT\_NAME\_ADD\_COT\_DESCRIPTOR**

ID: COT-9

Level: INFO

Description: Circle of Trust name is null, error adding to circle of trust.

Data: Realm or organization name

Triggers: Adding to the circle of trust.

Actions: Check the name of the circle of trust.

### **NULL\_ENTITYID\_ADD\_COT\_DESCRIPTOR**

ID: COT-10

Level: INFO

Description: Entity Identifier is null , cannot add entity to circle of trust

Data: Realm or organization name

Triggers: Adding to the circle of trust.

Actions: Check the value of entity id.

### **CONFIG\_ERROR\_ADD\_COT\_MEMBER**

ID: COT-11

Level: INFO

Description: Error adding entity to the circle of trust.

Data: Error message, Name of the circle of trust, Entity Id, Realm or organization name

Triggers: Adding entity to circle of trust.

Actions: Check COT debug for more detailed error message.

### **NO\_COT\_NAME\_REMOVE\_COT\_MEMBER**

ID: COT-12

Level: INFO

Description: Null circle of trust name.

Data: Realm or organization name

Triggers: Removing member from the circle of trust.

Actions: Check the name of the circle of trust.

### **NULL\_ENTITYID\_REMOVE\_COT\_MEMBER**

ID: COT-13

Level: INFO

Description: Null entity identifier.

Data: Name of the circle of trust, Realm or organization name

Triggers: Removing member from the circle of trust.

Actions: Check the value of the entity identifier.

### **CONFIG\_ERROR\_REMOVE\_COT\_MEMBER**

ID: COT-14

Level: INFO

Description: Error while removing entity from the circle of trust.

Data: Error message, Name of the circle of trust, Entity Id, Realm or organization name

Triggers: Removing entity identifier from the circle of trust.

Actions: Check COT debug for more detailed error message.

### **NULL\_COT\_NAME\_LIST\_COT**

ID: COT-15

Level: INFO

Description: Null circle of trust name.

Data: Realm or organization name

Triggers: Listing entities in Circle of Trust

Actions: Check the name of the circle of trust.

### **CONFIG\_ERROR\_LIST\_COT\_MEMBER**

ID: COT-16

Level: INFO

Description: Error listing providers in the circle of trust.

Data: Error message, Name of the circle of trust, Realm or organization name

Triggers: Listing providers in the circle of trust.

Actions: Check COT debug for more detailed error message.

### **CONFIG\_ERROR\_DELETE\_COT\_DESCRIPTOR**

ID: COT-17

Level: INFO

Description: Error while deleting the circle of trust.

Data: Error message, Name of the circle of trust, Realm or organization name

Triggers: Deleting the circle of trust.

Actions: Check COT debug for more detailed error message.

### **INVALID\_NAME\_ERROR\_DELETE\_COT\_DESCRIPTOR**

ID: COT-18

Level: INFO

Description: Invalid name, cannot delete circle of trust.

Data: Circle of Trust Name, Realm or organization name

Triggers: Deleting the circle of trust.

Actions: Check the circle of trust name and retry deletion.

### **HAS\_ENTITIES\_DELETE\_COT\_DESCRIPTOR**

ID: COT-19



Level: INFO

Description: Cannot delete circle of trust which has entities.

Data: Circle of Trust Name, Realm or organization name

Triggers: Deleting the circle of trust.

Actions: Remove all entities from the circle of trust and retry deletion.

### **INVALID\_COT\_TYPE\_DELETE\_COT\_DESCRIPTOR**

ID: COT-20

Level: INFO

Description: Invalid type cannot delete circle of trust.

Data: Realm or organization name, Circle of Trust Name, Circle of Trust Type

Triggers: Deleting the circle of trust.

Actions: Specify correct Circle of Trust type and retry delete.

### **COT\_DESCRIPTOR\_DELETED**

ID: COT-21

Level: INFO

Description: Circle of trust deleted.

Data: Name of the circle of trust, Realm or organization name

Triggers: Deleting the circle of trust.

### **COT\_FROM\_CACHE**

ID: COT-22

Level: FINE

Description: Retrieved the circle of trust from cache.

Data: Name of the circle of trust, Realm or organization name

Triggers: Retrieved the circle of trust from cache.

### **CONFIG\_ERROR\_GET\_COT\_DESCRIPTOR**

ID: COT-23

Level: INFO

Description: Error while getting the circle of trust from data store.

Data: Error message, Name of the circle of trust, Realm or organization name

Triggers: Retrieving the circle of trust

Actions: Check configuration; check debug for more detailed error message.

### **CONFIG\_ERROR\_RETRIEVE\_COT**

ID: COT-24

Level: INFO

Description: Error determining an entity is in a circle of trust.

Data: Error message, Name of the circle of trust, ID of an entity, Realm or organization name

Triggers: Determining an entity is in a circle of trust.

Actions: Check debug for more detailed error message.

### **COT\_DESCRIPTOR\_RETRIEVED**

ID: COT-25

Level: INFO

Description: Retrieved the circle of trust descriptor.

Data: Name of the circle of trust, Realm or organization name

Triggers: Retrieving the circle of trust under a realm.

OpenAM logs the following IDFF messages.

### **WRITE\_ACCOUNT\_FED\_INFO**

ID: IDFF-14

Level: INFO

Description: Write Account Federation Info

Data: user DN, federation info key, federation info value

Triggers: Account Federation Info with key was added to user

### **REMOVE\_ACCOUNT\_FED\_INFO**

ID: IDFF-15

Level: INFO

Description: Remove Account Federation Info

Data: user DN, provider id, existing federation info key

Triggers: Account federation info with key and provider ID was removed from user

### **CREATE\_ASSERTION**

ID: IDFF-16

Level: FINER

Description: Create Assertion

Data: assertion id or string

Triggers: Assertion Created

### **LOGOUT\_REQUEST\_PROCESSING\_FAILED**

ID: IDFF-18

Level: INFO

Description: Logout Request processing failed.

Data: message

Triggers: Logout Request processing failed

### **TERMINATION\_REQUEST\_PROCESSING\_FAILED**

ID: IDFF-19

Level: INFO

Description: Termination request processing failed

Data: message

Triggers: Termination request processing failed

### **FAILED\_SOAP\_URL\_END\_POINT\_CREATION**

ID: IDFF-20

Level: INFO

Description: Failed in creating SOAP URL End point.

Data: soap end point url

Triggers: Failed in creating SOAP URL End point

**MISMATCH\_AUTH\_TYPE\_AND\_PROTOCOL**

ID: IDFF-21

Level: INFO

Description: Mismatched AuthType and the protocol (based on SOAPUrl).

Data: protocol, authentication type

Triggers: AuthType and the protocol (based on SOAPUrl) do not match.

**WRONG\_AUTH\_TYPE**

ID: IDFF-22

Level: INFO

Description: Wrong Authentication type

Data: authentication type

Triggers: Wrong Authentication type

**SOAP\_RECEIVER\_URL**

ID: IDFF-23

Level: FINER

Description: SAML SOAP Receiver URL

Data: soap url

Triggers: SAML SOAP Receiver URL

**INVALID\_SOAP\_RESPONSE**

ID: IDFF-24

Level: INFO

Description: SOAP Response is Invalid

Data: message

Triggers: SOAP Response is Invalid.

**INVALID\_ASSERTION**

ID: IDFF-25

Level: INFO

Description: Assertion is invalid

Data: message

Triggers: This Assertion is invalid

### **SINGLE\_SIGNON\_FAILED**

ID: IDFF-26

Level: INFO

Description: Single SignOn Failed

Data: message

Triggers: Single SignOn Failed

### **ACCESS\_GRANTED\_REDIRECT\_TO**

ID: IDFF-27

Level: INFO

Description: Redirect to URL after granting access.

Data: redirect url

Triggers: Redirecting to URL after granting access.

### **MISSING\_AUTHN\_RESPONSE**

ID: IDFF-28

Level: INFO

Description: Authentication Response is missing

Data: message

Triggers: Authentication Response not found

### **ACCOUNT\_FEDERATION\_FAILED**

ID: IDFF-29

Level: INFO

Description: Account Federation Failed

Data: message

Triggers: Account Federation Failed

**FAILED\_SSO\_TOKEN\_GENERATION**

ID: IDFF-30

Level: INFO

Description: SSOToken Generation Failed

Data: message

Triggers: Failed to generate SSOToken

**INVALID\_AUTHN\_RESPONSE**

ID: IDFF-31

Level: INFO

Description: Authentication Response is invalid

Data: invalid authentication response

Triggers: Authentication Response is invalid

**AUTHN\_REQUEST\_PROCESSING\_FAILED**

ID: IDFF-32

Level: INFO

Description: Authentication Request processing failed

Data: message

Triggers: Authentication Request processing failed.

**SIGNATURE\_VERIFICATION\_FAILED**

ID: IDFF-33

Level: INFO

Description: Signature Verification Failed.

Data: message

Triggers: Signature Verification Failed.

**CREATE\_SAML\_RESPONSE**

ID: IDFF-34

Level: INFO

Description: Created SAML Response

Data: sending saml response to remote server's IP address, saml response or response ID and InResponseTo ID

Triggers: Created SAML Response

### **REDIRECT\_TO**

ID: IDFF-35

Level: FINER

Description: Redirect URL

Data: redirect url

Triggers: Redirect to :

### **COMMON\_DOMAIN\_META\_DATA\_NOT\_FOUND**

ID: IDFF-36

Level: INFO

Description: Common Domain Service Information not found

Data: message

Triggers: Common Domain Service Information not found.

### **PROVIDER\_NOT\_TRUSTED**

ID: IDFF-37

Level: INFO

Description: Provider is not trusted

Data: provider id

Triggers: Provider is not trusted.

### **INVALID\_AUTHN\_REQUEST**

ID: IDFF-38

Level: INFO

Description: Authentication Request is invalid

Data: message

Triggers: Authentication Request is invalid

**USER\_ACCOUNT\_FEDERATION\_INFO\_NOT\_FOUND**

ID: IDFF-39

Level: INFO

Description: Account Federation Information not found for user

Data: user name

Triggers: Account Federation Information not found for user :

**USER\_NOT\_FOUND**

ID: IDFF-40

Level: INFO

Description: User not found.

Data: user name

Triggers: User not found.

**LOGOUT\_PROFILE\_NOT\_SUPPORTED**

ID: IDFF-41

Level: INFO

Description: Logout profile not supported.

Data: logout profile

Triggers: Logout profile not supported.

Actions: Verify metadata is correct.

**LOGOUT\_SUCCESS**

ID: IDFF-42

Level: INFO

Description: Logout is successful.

Data: user name

Triggers: Logout is successful.

**LOGOUT\_REDIRECT\_FAILED**

ID: IDFF-43



Level: INFO

Description: Logout failed to redirect due to incorrect URL.

Data: message

Triggers: Logout failed to redirect due to incorrect URL.

#### **LOGOUT\_FAILED\_REQUEST\_IMPROPER**

ID: IDFF-44

Level: INFO

Description: Logout request not formed properly.

Data: user name

Triggers: Logout request not formed properly.

#### **LOGOUT\_FAILED\_INVALID\_HANDLER**

ID: IDFF-45

Level: INFO

Description: Failed to get Pre/Logout handler.

Data: logout url

Triggers: Failed to get Pre/Logout handler.

#### **LOGOUT\_FAILED**

ID: IDFF-46

Level: INFO

Description: Single logout failed.

Data: user name

Triggers: Single logout failed.

#### **REGISTRATION\_FAILED\_SP\_NAME\_IDENTIFIER**

ID: IDFF-47

Level: INFO

Description: Failed to create SPProvidedNameIdentifier.

Data: message

Triggers: Failed to create SPProvidedNameIdentifier.

### **INVALID\_SIGNATURE**

ID: IDFF-48

Level: INFO

Description: Invalid Signature.

Data: message

Triggers: Invalid Signature.

### **TERMINATION\_FAILED**

ID: IDFF-49

Level: INFO

Description: Federation Termination failed.

Data: user name

Triggers: Federation Termination failed. Cannot update account.

### **TERMINATION\_SUCCESS**

ID: IDFF-50

Level: INFO

Description: Federation Termination succeeded.

Data: userDN

Triggers: Federation Termination succeeded. User account updated.

### **INVALID\_RESPONSE**

ID: IDFF-51

Level: INFO

Description: Response is Invalid

Data: saml response

Triggers: SAML Response is Invalid.

### **INVALID\_PROVIDER**

ID: IDFF-52

Level: INFO

Description: Invalid Provider Registration.

Data: provider id, Realm or Organization Name

Triggers: Invalid Provider.

## **ERROR\_GET\_IDFF\_META\_INSTANCE**

ID: IDFF-61

Level: INFO

Description: Error getting Configuration instance.

Data: message

Triggers: Trying to initialize IDFF Metadata configuration.

Actions: Check if the Data Repository has the IDFFMetaData Service. If it is not present then it wil need to be loading using the FM Administration command. Check the Administration Guide on how to load services.

## **NULL\_ENTITY\_DESCRIPTOR**

ID: IDFF-62

Level: INFO

Description: EntityDescriptor is null.

Data: message

Triggers: Trying to create EntityDescriptor.

Actions: Pass a valid non-null EntityDescriptorElement object to the IDFFMetaManager:createEntityDescriptor method.

## **NULL\_ENTITY\_ID**

ID: IDFF-63

Level: INFO

Description: Entity Identifier in the EntityDescriptor is null.

Data: message

Triggers: Trying to create, modify, retrieve or delete EntityDescriptor or extended Entity Config.

Actions: The EntityDescriptor Element passed should have the Entity Identifier , this is the "providerID" attribute in the IDFF MetaData schema.

**CREATE\_ENTITY\_SUCCEEDED**

ID: IDFF-64

Level: INFO

Description: Creating of Entity Descriptor succeeded.

Data: Entity ID, Realm or Organization Name

Triggers: EntityDescriptor is stored in the data repository.

**CREATE\_ENTITY\_FAILED**

ID: IDFF-65

Level: INFO

Description: Storing of IDFF Meta Data in the repository failed.

Data: Entity ID, Realm or Organization Name

Triggers: Trying to create EntityDescriptor.

Actions: Check the IDFF Meta Data Debug "libIDFFMeta" for specific errors. Check if the data repository exists and is accessible. Check if the IDFF Meta Data Service exists in the data repository.

**UNSUPPORTED\_OPERATION**

ID: IDFF-66

Level: INFO

Description: Unsupported operation.

Data: message

Triggers: Trying to create, modify or delete EntityDescriptor or extended EntityConfig.

Actions: Check the System Configuration Implementation to find out how IDFF Meta Data can be stored in the repository.

**INVALID\_ENTITY\_DESCRIPTOR**

ID: IDFF-67

Level: INFO

Description: The EntityDescriptor object is not valid.

Data: Entity ID, Realm or Organization Name

Triggers: Trying to retrieve or modify EntityDescriptor.

Actions: Check the EntityDescriptor Element is valid and follows the IDFF Standard Meta Data Schema Description.

**GET\_ENTITY\_FAILED**

ID: IDFF-68

Level: INFO

Description: Retrieval of Entity Configuration failed.

Data: Entity ID, Realm or Organization Name

Triggers: EntityDescriptor is retrieved.

Actions: Check if the entity identifier is correct.

**GET\_ENTITY\_SUCCEEDED**

ID: IDFF-69

Level: INFO

Description: Retrieval of Entity Descriptor succeeded.

Data: Entity ID, Realm or Organization Name

Triggers: Entity Configuration is returned to the requester.

**SET\_ENTITY\_FAILED**

ID: IDFF-70

Level: INFO

Description: Storing of Entity Configuration failed.

Data: Entity ID, Realm or Organization Name

Triggers: Trying to modify IDFF Standard Meta data.

Actions: Check if the entity identifier is correct.; Check if the data repository exists and is accessible.

**SET\_ENTITY\_SUCCEEDED**

ID: IDFF-71

Level: INFO

Description: Modifying Entity Descriptor succeeded.

Data: Entity ID, Realm or Organization Name

Triggers: Entity Descriptor is modified in the data repository.

### **DELETE\_ENTITY\_SUCCEEDED**

ID: IDFF-72

Level: INFO

Description: Deleting of IDFF Standard Meta Data succeeded.

Data: Entity ID, Realm or Organization Name

Triggers: IDFF Standard Meta data for the entity is deleted in the data repository.

### **DELETE\_ENTITY\_FAILED**

ID: IDFF-73

Level: INFO

Description: Deleting of Standard Metadata for entity identifier failed.

Data: Entity ID, Realm or Organization Name

Triggers: Trying to delete IDFF Standard Meta data for the entity.

Actions: Check if the entity identifier is correct.; Check if the data repository exists and is accessible

### **NULL\_ENTITY\_CONFIG**

ID: IDFF-74

Level: INFO

Description: Extended Entity Configuration is null.

Data: message

Triggers: Trying to create IDFF extended Meta data.

Actions: Check the validity of the extended entity configuration.

### **ENTITY\_CONFIG\_NOT\_FOUND**

ID: IDFF-75

Level: INFO

Description: Entity Configuration could not be found.

Data: Entity ID, Realm or Organization Name

Triggers: Trying to create IDFF extended Meta data.

Actions: Check the validity of the entity configuration.

### **ENTITY\_CONFIG\_EXISTS**

ID: IDFF-76

Level: INFO

Description: Creation of Extended Entity Configuration failed since it already exists.

Data: Entity ID, Realm or Organization Name

Triggers: Trying to create IDFF extended Meta data.

Actions: Cannot create entity configuration if it already exists. If new attributes are to be set in the extended entity configuration then use the setConfiguration method or delete the existing entity configuration and then try create again.

### **GET\_ENTITY\_CONFIG\_FAILED**

ID: IDFF-77

Level: INFO

Description: Failed to get entity configuration.

Data: Entity ID, Realm or Organization Name

Triggers: Trying to retrieve IDFF extended Meta data.

Actions: Check the IDFF Meta Data Debug "libIDFFMeta" for specific errors.

### **GET\_ENTITY\_CONFIG\_SUCCEEDED**

ID: IDFF-78

Level: INFO

Description: Retrieval of Entity Configuration succeeded.

Data: Entity ID, Realm or Organization Name

Triggers: Entity Configuration is retrieved from the data repository

### **SET\_ENTITY\_CONFIG\_SUCCEEDED**

ID: IDFF-79

Level: INFO

Description: Extended Entity Configuration was modified.

Data: Entity ID, Realm or Organization Name

Triggers: Extended Entity Configuration is modified in the data repository

### **SET\_ENTITY\_CONFIG\_FAILED**

ID: IDFF-80

Level: INFO

Description: Failed to modify Extended Entity Configuration.

Data: Entity ID, Realm or Organization Name

Triggers: Extended Entity Configuration is modified in the data repository

Actions: Check the IDFF Meta Data Debug "libIDFFMeta" for specific errors.

### **CREATE\_ENTITY\_CONFIG\_SUCCEEDED**

ID: IDFF-81

Level: INFO

Description: Extended Entity Configuration was created.

Data: Entity ID, Realm or Organization Name

Triggers: Extended Entity Configuration is stored in the data repository

### **CREATE\_ENTITY\_CONFIG\_FAILED**

ID: IDFF-82

Level: INFO

Description: Storing of IDFF Extended Configuration in the repository failed.

Data: Entity ID, Realm or Organization Name

Triggers: Trying to create Extended Entity Configuration.

Actions: Check the IDFF Meta Data Debug "libIDFFMeta" for specific errors.; Check if the data repository exists and is accessible.; Check if the IDFF Meta Data Service exists in the data repository.

### **INVALID\_ENTITY\_CONFIG**

ID: IDFF-83

Level: INFO

Description: The Extended Entity Configuration is invalid.

Data: Entity ID, Realm or Organization Name



Triggers: Trying to create, modify or retrieve Extended Entity Configuration.

Actions: Check the Extended Entity Configuration is valid and retry creating the entity config.

### **GET\_ALL\_ENTITIES\_SUCCEEDED**

ID: IDFF-84

Level: INFO

Description: Retrieve all Entity Descriptors succeeded.

Data: message

Triggers: Retrieve all Entity Descriptors

### **GET\_ALL\_ENTITIES\_FAILED**

ID: IDFF-85

Level: INFO

Description: Failed to get all Entity Descriptors.

Data: message

Triggers: Retrieve all Entity Descriptors

Actions: Check the IDFF Meta Data Debug "libIDFFMeta" for specific errors.; Check if the data repository exists and is accessible.; Check if the IDFF Meta Data Service exists in the data repository.

### **GET\_ENTITY\_NAMES\_SUCCEEDED**

ID: IDFF-86

Level: INFO

Description: Retrieve names of all Entities.

Data: message

Triggers: Retrieve names of all Entities.

### **GET\_ENTITY\_NAMES\_FAILED**

ID: IDFF-87

Level: INFO

Description: Failed to get names for all Entities.

Data: message

Triggers: Retrieving names of all Entities.

Actions: Check the IDFF Meta Data Debug "libIDFFMeta" for specific errors.; Check if the data repository exists and is accessible.; Check if the IDFF Meta Data Service exists in the data repository.

### **GET\_HOSTED\_ENTITIES\_SUCCEEDED**

ID: IDFF-88

Level: INFO

Description: Retrieve all hosted Entities succeeded.

Data: message

Triggers: Retrieving all hosted Entities.

### **GET\_HOSTED\_ENTITIES\_FAILED**

ID: IDFF-89

Level: INFO

Description: Failed to get all hosted Entities.

Data: message

Triggers: Retrieving all hosted Entities.

Actions: Check the IDFF Meta Data Debug "libIDFFMeta" for specific errors.; Check if the data repository exists and is accessible.; Check if the IDFF Meta Data Service exists in the data repository.

### **GET\_REMOTE\_ENTITIES\_SUCCEEDED**

ID: IDFF-90

Level: INFO

Description: Retrieval of all remote Entities succeeded.

Data: message

Triggers: Retrieve all remote Entities.

### **GET\_REMOTE\_ENTITIES\_FAILED**

ID: IDFF-91

Level: INFO

Description: Failed to get all remote Entities.

Data: message

Triggers: Retrieving all remote Entities.

Actions: Check the IDFF Meta Data Debug "libIDFFMeta" for specific errors.; Check if the data repository exists and is accessible.; Check if the IDFF Meta Data Service exists in the data repository.

#### **GET\_HOSTED\_SERVICE\_PROVIDERS\_SUCCEEDED**

ID: IDFF-92

Level: INFO

Description: Retrieval of all hosted services providers succeeded.

Data: message

Triggers: Retrieving all hosted services providers.

#### **GET\_REMOTE\_SERVICE\_PROVIDERS\_SUCCEEDED**

ID: IDFF-93

Level: INFO

Description: Retrieval of all remote services providers succeeded.

Data: message

Triggers: Retrieve all remote services providers.

#### **GET\_HOSTED\_IDENTITY\_PROVIDERS\_SUCCEEDED**

ID: IDFF-94

Level: INFO

Description: Retrieval of all hosted identity providers succeeded.

Data: message

Triggers: Retrieve all hosted identity providers.

#### **GET\_REMOTE\_IDENTITY\_PROVIDERS\_SUCCEEDED**

ID: IDFF-95

Level: INFO

Description: Retrieval of all remote identity providers succeeded.

Data: message

Triggers: Retrieve all remote identity providers.

### **IS\_AFFILIATE\_MEMBER\_SUCCEEDED**

ID: IDFF-96

Level: INFO

Description: Checking Affiliation member succeeded.

Data: Entity ID, Affiliation ID, Realm or Organization Name

Triggers: Checks if the provider is a member of the Affiliation.

### **NO\_ENTITY\_CONFIG\_TO\_DELETE**

ID: IDFF-97

Level: INFO

Description: No entity configuration to delete.

Data: Entity ID, Realm or Organization Name

Triggers: Delete Entity Configuration.

Actions: Check the entityID to make sure the Entity Configuration does exist.

### **DELETE\_ENTITY\_CONFIG\_FAILED**

ID: IDFF-98

Level: INFO

Description: Failed to delete entity configuration.

Data: Entity ID, Realm or Organization Name

Triggers: Delete Entity Configuration.

Actions: Check the IDFF Meta Data Debug "libIDFFMeta" for specific errors.; Check if the data repository exists and is accessible.; Check if the IDFF Meta Data Service exists in the data repository.

### **DELETE\_ENTITY\_CONFIG\_SUCCEEDED**

ID: IDFF-99

Level: INFO

Description: Entity configuration deleted successfully.

Data: Entity ID, Realm or Organization Name

Triggers: Delete Entity Configuration.

### **ENTITY\_DOES\_NOT\_EXISTS**

ID: IDFF-100

Level: INFO

Description: Entity does not exist.

Data: Entity ID, Realm or Organization Name

Triggers: Delete Entity Descriptor.

Actions: Check to make sure you have the right entity ID.; Check if the data repository exists and is accessible.; Check if the IDFF Meta Data Service exists in the data repository.

### **CREATE\_AUTHN\_RESPONSE**

ID: IDFF-101

Level: INFO

Description: Created Authn Response

Data: saml response or response ID and InResponseTo ID

Triggers: Created SAML Response

### **SENT\_AUTHN\_RESPONSE**

ID: IDFF-102

Level: INFO

Description: Sent Authn Response

Data: Service provider's assertion consumer service URL, response ID and InResponseTo ID

Triggers: Sent Authn Response

OpenAM logs the following LIBERTY messages.

### **AS\_Abort**

ID: LIBERTY-1

Level: INFO

Description: Unable to process SASL Request

Data: message id, authentication mechanism, authorization id, advisory authentication id

Triggers: Unable to process SASL Request.

**AS\_OK**

ID: LIBERTY-2

Level: INFO

Description: SASL Response Ok

Data: message id, authentication mechanism, authorization id, advisory authentication id

Triggers: SASL Response Ok.

**AS\_Continue**

ID: LIBERTY-3

Level: INFO

Description: Return SASL Authenticon Response

Data: message id, authentication mechanism, authorization id, advisory authentication id

Triggers: Returned SASL Response , continue Authentication.

**DS\_Lookup\_Failure**

ID: LIBERTY-4

Level: INFO

Description: User not found in Data store

Data: user name

Triggers: User not found in Data store

**DS\_Lookup\_Success**

ID: LIBERTY-5

Level: INFO

Description: User found in Data Store

Data: user name

Triggers: User found in Data Store

**DS\_Update\_Failure**

ID: LIBERTY-6

Level: INFO

Description: Cannot locate user from resourceID

Data: resourceID

Triggers: Cannot locate user from resourceID

### **DS\_Update\_Success**

ID: LIBERTY-7

Level: INFO

Description: Successfully updated user profile

Data: user name

Triggers: Successfully updated user profile

### **PP\_Query\_Failure**

ID: LIBERTY-8

Level: INFO

Description: Unauthorized. Failed to Query Personal Profile Service

Data: resource id

Triggers: Failed to Query Personal Profile Service

### **PP\_Interaction\_Failure**

ID: LIBERTY-9

Level: INFO

Description: Interaction Failed

Data: resource id

Triggers: Interaction with Personal Profile Service Failed

### **PP\_Query\_Success**

ID: LIBERTY-10

Level: INFO

Description: Successfully queried PP Service

Data: resource id

Triggers: Personal Profile Service Query Succeeded

**PP\_Modify\_Failure**

ID: LIBERTY-11

Level: INFO

Description: Modify Failure

Data: resource id

Triggers: Failed to modify Personal Profile Service

**PP\_Modify\_Success**

ID: LIBERTY-12

Level: INFO

Description: Modify Success

Data: resource id

Triggers: Personal Profile Service Successfully modified.

**PP\_Interaction\_Success**

ID: LIBERTY-13

Level: INFO

Description: Interaction Successful

Data: successful interaction message

Triggers: Successful interaction with Personal Profile Service

**IS\_Sending\_Message**

ID: LIBERTY-14

Level: INFO

Description: Sending Message

Data: request message id

Triggers: Sending SOAP Request Message to WSP.

**IS\_Returning\_Response\_Message**

ID: LIBERTY-15

Level: INFO

Description: Returning Response Message



Data: response message id, request message id

Triggers: Returning Response Message for SOAP Request.

### **IS\_Resending\_Message**

ID: LIBERTY-16

Level: INFO

Description: Resending Message

Data: message id

Triggers: Resending SOAP Request Message to WSP

### **IS\_Redirected\_User\_Agent**

ID: LIBERTY-17

Level: INFO

Description: Interaction manager redirecting user agent to interaction service

Data: request message id

Triggers: Interaction manager redirecting user agent to interaction service

### **IS\_Returning\_Response\_Element**

ID: LIBERTY-18

Level: INFO

Description: Interaction manager returning response element

Data: message id, reference message id, cache entry status

Triggers: Interaction manager returning response element

### **IS\_Presented\_Query\_To\_User\_Agent**

ID: LIBERTY-19

Level: INFO

Description: Interaction query presented to user agent

Data: message id

Triggers: Interaction query presented to user agent

### **IS\_Collected\_Response\_From\_User\_Agent**

ID: LIBERTY-20

Level: INFO

Description: User agent responded to interaction query

Data: message id

Triggers: User agent responded to interaction query

### **IS\_Redirected\_User\_Agent\_Back**

ID: LIBERTY-21

Level: INFO

Description: User agent redirected back to SP

Data: message id

Triggers: User agent redirected back to SP

### **WS\_Success**

ID: LIBERTY-22

Level: INFO

Description: Webservices Success

Data: message id, handler key

Triggers: Webservices success.

### **WS\_Failure**

ID: LIBERTY-23

Level: INFO

Description: Webservices Failure

Data: error message

Triggers: Webservices Failure.

OpenAM logs the following SAML2 messages.

### **INVALID\_SP**

ID: SAML2-1

Level: INFO

Description: Invalid Service Provider Identifier

Data: Service Provider Entity Identifier

Triggers: Invalid Service Provider, cannot process request

Actions: Check the Service Provider Name.

### **INVALID\_IDP**

ID: SAML2-2

Level: INFO

Description: Invalid Identity Provider Identifier

Data: Identity Provider Entity Identifier

Triggers: Invalid Identity Provider, cannot process request

Actions: Check the Identity Provider Name.

### **SP\_METADATA\_ERROR**

ID: SAML2-3

Level: INFO

Description: Unable to retrieve Service Provider Metadata.

Data: Service Provider Entity Identifier

Triggers: Cannot retrieve Service Provider Metadata

Actions: Check the Data Store is accessible .; Check the Realm name.; Check the Service Provider Entity Identifier.

### **IDP\_METADATA\_ERROR**

ID: SAML2-4

Level: INFO

Description: Unable to retrieve Identity Provider Metadata.

Data: Identity Provider Entity Identifier

Triggers: Cannot retrieve Identity Provider Metadata

Actions: Check the Data Store is accessible .; Check the Realm name.; Check the Identity Provider Entity Identifier.

### **SSO\_NOT\_FOUND**

ID: SAML2-5

Level: INFO

Description: Unable to retrieve SingleSignOnService URL.

Data: Identity Provider Entity Identifier

Triggers: Error retrieving SingleSignOnService URL.

Actions: Check the Data Store is accessible .; Check the Realm name.; Check the Identity Provider Entity Identifier.

### **REDIRECT\_TO\_SP**

ID: SAML2-6

Level: INFO

Description: Redirecting to SingleSignOnService

Data: SingleSignOnService URL

Triggers: Sending Authentication Request by redirecting to Single SignOn Service URL.

### **RESPONSE\_NOT\_FOUND\_FROM\_CACHE**

ID: SAML2-7

Level: INFO

Description: Unable to retrieve Response using Response ID after local login.

Data: Response ID

Triggers: Response doesn't exist in the SP cache.

Actions: Check the SP cache clean up interval configuration.

### **MISSING\_ARTIFACT**

ID: SAML2-8

Level: INFO

Description: Unable to retrieve Artifact from HTTP Request.

Triggers: SAMLart is missing from HTTP Request

Actions: Check with sender.; Check web container server log.

### **RECEIVED\_ARTIFACT**

ID: SAML2-9

Level: INFO

Description: Received Artifact from HTTP Request.

Data: Artifact value

Triggers: Received Artifact from HTTP Request in the process of Single Sign On using Artifact Profile.

### **IDP\_NOT\_FOUND**

ID: SAML2-10

Level: INFO

Description: Unable to find Identity Provider Entity ID based on the SourceID in Artifact.

Data: Artifact value, Realm or organization name

Triggers: No matching Identity Provider Entity ID found in meta data configuration.

Actions: Check if Identity Provider's meta data is loaded.

### **IDP\_META\_NOT\_FOUND**

ID: SAML2-11

Level: INFO

Description: Unable to load Identity Provider's meta data.

Data: Realm or organization name, Identity Provider Entity ID

Triggers: Unable to load Identity Provider's meta data.

Actions: Check Identity Provider Entity ID.; Check Realm or organization name.; Check if the identity provider's meta is loaded.

### **ARTIFACT\_RESOLUTION\_URL\_NOT\_FOUND**

ID: SAML2-12

Level: INFO

Description: Unable to find Identity Provider's Artifact resolution service URL.

Data: Identity Provider Entity ID

Triggers: Artifact resolution service URL is not defined in Identity Provider's metadata.

Actions: Check Identity Provider's meta data.

### **CANNOT\_CREATE\_ARTIFACT\_RESOLVE**

ID: SAML2-13

Level: INFO

Description: Unable to create ArtifactResolve.

Data: Hosted Service Provider Entity ID, Artifact value

Triggers: Error when creating ArtifactResolve instance.

Actions: Check implementation of ArtifactResolve.

## **CANNOT\_GET\_SOAP\_RESPONSE**

ID: SAML2-14

Level: INFO

Description: Unable to obtain response from SOAP communication with Identity Provider's artifact resolution service.

Data: Hosted Service Provider Entity ID, Identity Provider's Artifact Resolution Service URL

Triggers: Error in SOAP communication.

Actions: Check Identity Provider's Artifact Resolution Service URL.; Check SOAP message authentication requirements for Identity Provider's Artifact Resolution Service.

## **GOT\_RESPONSE\_FROM\_ARTIFACT**

ID: SAML2-15

Level: INFO

Description: Obtained response using artifact profile.

Data: Hosted Service Provider Entity ID, Remote Identity Provider Entity ID, Artifact value, Response xml String if the log level was set to LL\_FINE at run time

Triggers: Single Sign On using Artifact Profile.

## **SOAP\_ERROR**

ID: SAML2-16

Level: INFO

Description: Unable to obtain Artifact Response due to SOAP error.

Data: Identity Provider Entity ID

Triggers: Error in SOAP communication.

Actions: Check configuration for Identity Provider

**SOAP\_FAULT**

ID: SAML2-17

Level: INFO

Description: Received SOAP Fault instead of Artifact Response.

Data: Identity Provider Entity ID

Triggers: Error in Identity Provider's Artifact Resolution.

Actions: Check Identity Provider; Check debug file for detailed fault info.

**TOO\_MANY\_ARTIFACT\_RESPONSE**

ID: SAML2-18

Level: INFO

Description: Received too many Artifact Response.

Data: Identity Provider Entity ID

Triggers: Identity Provider sent more than one Artifact Response in SOAPMessage.

Actions: Check Identity Provider

**CANNOT\_INSTANTIATE\_ARTIFACT\_RESPONSE**

ID: SAML2-19

Level: INFO

Description: Unable to instantiate Artifact Response.

Data: Identity Provider Entity ID

Triggers: Error while instantiating Artifact Response.

Actions: Check Identity Provider; Check debug message for detailed error.

**MISSING\_ARTIFACT\_RESPONSE**

ID: SAML2-20

Level: INFO

Description: Unable to obtain Artifact Response from SOAP message.

Data: Identity Provider Entity ID

Triggers: No ArtifactResponse is included in SOAPMessage.

Actions: Check Identity Provider

#### **ARTIFACT\_RESPONSE\_INVALID\_SIGNATURE**

ID: SAML2-21

Level: INFO

Description: Unable to verify signature on Artifact Response.

Data: Identity Provider Entity ID

Triggers: Error while trying to verify signature on ArtifactResponse.

Actions: Check configuration for Identity Provider; Check debug file for detailed info

#### **ARTIFACT\_RESPONSE\_INVALID\_INRESPONSETO**

ID: SAML2-22

Level: INFO

Description: Invalid InResponseTo attribute in Artifact Response.

Data: Identity Provider Entity ID

Triggers: InResponseTo attribute in Artifact Response is missing or doesn't match with Artifact Resolve ID.

Actions: Check with Identity Provider

#### **ARTIFACT\_RESPONSE\_INVALID\_ISSUER**

ID: SAML2-23

Level: INFO

Description: Invalid Issuer in Artifact Response.

Data: Identity Provider Entity ID

Triggers: Issuer in Artifact Response is missing or doesn't match with Identity Provider Entity ID.

Actions: Check with Identity Provider

#### **ARTIFACT\_RESPONSE\_INVALID\_STATUS\_CODE**

ID: SAML2-24

Level: INFO

Description: Invalid status code in Artifact Response.

Data: Identity Provider Entity ID, Status code if the log level was set to LL\_FINE at runtime



Triggers: Status in Artifact Response is missing or status code is not Success.

Actions: Check with Identity Provider

### **CANNOT\_INSTANTIATE\_RESPONSE\_ARTIFACT**

ID: SAML2-25

Level: INFO

Description: Unable to instantiate Responses from Artifact Response.

Data: Identity Provider Entity ID

Triggers: Error occurred while instantiating Response.

Actions: Check debug file for detailed error.

### **MISSING\_SAML\_RESPONSE\_FROM\_POST**

ID: SAML2-26

Level: INFO

Description: SAML Response is missing from http post.

Triggers: Parameter SAMLResponse is missing from http POST.

### **CANNOT\_INSTANTIATE\_RESPONSE\_POST**

ID: SAML2-27

Level: INFO

Description: Unable to instantiate Response from POST.

Triggers: Error occurred while instantiating Response.

Actions: Check debug file for more info

### **CANNOT\_DECODE\_RESPONSE**

ID: SAML2-28

Level: INFO

Description: Unable to decode Response.

Triggers: Error occurred while decoding Response.

Actions: Check debug file for more info

### **GOT\_RESPONSE\_FROM\_POST**

ID: SAML2-29

Level: INFO

Description: Obtained response using POST profile.

Data: Response xml String if the log level was set to LL\_FINE at runtime

Triggers: Single Sign On using POST Profile.

### **FED\_INFO\_WRITTEN**

ID: SAML2-30

Level: INFO

Description: Written federation info.

Data: Username, NameIDInfo value string if the log level was set to LL\_FINE at runtime

Triggers: Federation is done.

### **REDIRECT\_TO\_IDP**

ID: SAML2-31

Level: INFO

Description: Redirect request to IDP.

Data: redirection url

Triggers: Single logout.

### **NO\_ACS\_URL**

ID: SAML2-32

Level: INFO

Description: Unable to find Assertion Consumer Service URL.

Data: meta alias

Triggers: Single Sign On.

### **NO\_RETURN\_BINDING**

ID: SAML2-33

Level: INFO

Description: Unable to find return binding.

Data: meta alias

Triggers: Single Sign On.

### **POST\_TO\_TARGET\_FAILED**

ID: SAML2-34

Level: INFO

Description: Unable to post the response to target.

Data: Assertion Consumer Service URL

Triggers: Single Sign On with POST binding.

### **CANNOT\_CREATE\_ARTIFACT**

ID: SAML2-35

Level: INFO

Description: Unable to create an artifact.

Data: IDP entity ID

Triggers: Single Sign On with Artifact binding.

### **RECEIVED\_AUTHN\_REQUEST**

ID: SAML2-36

Level: INFO

Description: Received AuthnRequest.

Data: SP entity ID, IDP meta alias, authnRequest xml string

Triggers: Single Sign On.

### **POST\_RESPONSE**

ID: SAML2-37

Level: INFO

Description: Post response to SP.

Data: SP entity ID, IDP meta alias, response xml string

Triggers: Single Sign On with POST binding.

### **SEND\_ARTIFACT**

ID: SAML2-38

Level: INFO

Description: Send an artifact to SP.

Data: IDP entity ID, IDP realm, redirect URL

Triggers: Single Sign On with Artifact binding.

### **INVALID\_SOAP\_MESSAGE**

ID: SAML2-39

Level: INFO

Description: Encounter invalid SOAP message in IDP.

Data: IDP entity ID

Triggers: Single Sign On with Artifact binding.

### **ARTIFACT\_RESPONSE**

ID: SAML2-40

Level: INFO

Description: The artifact response being sent to SP.

Data: IDP entity ID, artifact string, artifact response

Triggers: Single Sign On with Artifact binding.

### **GOT\_ENTITY\_DESCRIPTOR**

ID: SAML2-41

Level: FINE

Description: Entity descriptor obtained.

Data: Entity ID, Realm or organization name

Triggers: Obtain entity descriptor.

### **INVALID\_REALM\_GET\_ENTITY\_DESCRIPTOR**

ID: SAML2-42

Level: INFO

Description: Invalid realm while getting entity descriptor.

Data: Realm or organization name

Triggers: Obtain entity descriptor.

Actions: Check the Realm name.

### **GOT\_INVALID\_ENTITY\_DESCRIPTOR**

ID: SAML2-43

Level: INFO

Description: Obtained invalid entity descriptor.

Data: Entity ID, Realm or organization name

Triggers: Obtain entity descriptor.

Actions: Delete invalid entity descriptor and import it again.

### **CONFIG\_ERROR\_GET\_ENTITY\_DESCRIPTOR**

ID: SAML2-44

Level: INFO

Description: Configuration error while getting entity descriptor.

Data: Error message, Entity ID, Realm or organization name

Triggers: Obtain entity descriptor.

Actions: Check debug message for detailed error.

### **NO\_ENTITY\_ID\_SET\_ENTITY\_DESCRIPTOR**

ID: SAML2-45

Level: INFO

Description: No entity ID while setting entity descriptor.

Data: Realm or organization name

Triggers: Set entity descriptor.

Actions: Set entity ID in entity descriptor.

### **INVALID\_REALM\_SET\_ENTITY\_DESCRIPTOR**

ID: SAML2-46

Level: INFO

Description: Invalid realm while setting entity descriptor.

Data: Realm or organization name

Triggers: Set entity descriptor.

Actions: Check the Realm name.

### **NO\_ENTITY\_DESCRIPTOR\_SET\_ENTITY\_DESCRIPTOR**

ID: SAML2-47

Level: INFO

Description: Entity descriptor doesn't exist while setting entity descriptor.

Data: Entity ID, Realm or organization name

Triggers: Set entity descriptor.

Actions: Create entity descriptor before set.

### **SET\_ENTITY\_DESCRIPTOR**

ID: SAML2-48

Level: INFO

Description: Entity descriptor was set.

Data: Entity ID, Realm or organization name

Triggers: Set entity descriptor.

### **CONFIG\_ERROR\_SET\_ENTITY\_DESCRIPTOR**

ID: SAML2-49

Level: INFO

Description: Configuration error while setting entity descriptor.

Data: Error message, Entity ID, Realm or organization name

Triggers: Set entity descriptor.

Actions: Check debug message for detailed error.

### **SET\_INVALID\_ENTITY\_DESCRIPTOR**

ID: SAML2-50

Level: INFO

Description: Invalid entity descriptor to set.

Data: Entity ID, Realm or organization name

Triggers: Set entity descriptor.

Actions: Check entity descriptor if it follows the schema.

#### **NO\_ENTITY\_ID\_CREATE\_ENTITY\_DESCRIPTOR**

ID: SAML2-51

Level: INFO

Description: No entity ID while creating entity descriptor.

Data: Realm or organization name

Triggers: Create entity descriptor.

Actions: Set entity ID in entity descriptor.

#### **INVALID\_REALM\_CREATE\_ENTITY\_DESCRIPTOR**

ID: SAML2-52

Level: INFO

Description: Invalid realm while creating entity descriptor.

Data: Realm or organization name

Triggers: Create entity descriptor.

Actions: Check the Realm name.

#### **ENTITY\_DESCRIPTOR\_EXISTS**

ID: SAML2-53

Level: INFO

Description: Entity descriptor exists while creating entity descriptor.

Data: Entity ID, Realm or organization name

Triggers: Create entity descriptor.

Actions: Delete existing entity descriptor first.

#### **ENTITY\_DESCRIPTOR\_CREATED**

ID: SAML2-54

Level: INFO

Description: Entity descriptor was created.

Data: Entity ID, Realm or organization name

Triggers: Create entity descriptor.

### **CONFIG\_ERROR\_CREATE\_ENTITY\_DESCRIPTOR**

ID: SAML2-55

Level: INFO

Description: Configuration error while creating entity descriptor.

Data: Error message, Entity ID, Realm or organization name

Triggers: Create entity descriptor.

Actions: Check debug message for detailed error.

### **CREATE\_INVALID\_ENTITY\_DESCRIPTOR**

ID: SAML2-56

Level: INFO

Description: Invalid entity descriptor to create.

Data: Entity ID, Realm or organization name

Triggers: Create entity descriptor.

Actions: Check entity descriptor if it follows the schema.

### **INVALID\_REALM\_DELETE\_ENTITY\_DESCRIPTOR**

ID: SAML2-57

Level: INFO

Description: Invalid realm while deleting entity descriptor.

Data: Realm or organization name

Triggers: Delete entity descriptor.

Actions: Check the Realm name.

### **NO\_ENTITY\_DESCRIPTOR\_DELETE\_ENTITY\_DESCRIPTOR**

ID: SAML2-58

Level: INFO



Description: Entity descriptor doesn't exist while deleting entity descriptor.

Data: Entity ID, Realm or organization name

Triggers: Delete entity descriptor.

### **ENTITY\_DESCRIPTOR\_DELETED**

ID: SAML2-59

Level: INFO

Description: Entity descriptor was deleted.

Data: Entity ID, Realm or organization name

Triggers: Delete entity descriptor.

### **CONFIG\_ERROR\_DELETE\_ENTITY\_DESCRIPTOR**

ID: SAML2-60

Level: INFO

Description: Configuration error while deleting entity descriptor.

Data: Error message, Entity ID, Realm or organization name

Triggers: Delete entity descriptor.

Actions: Check debug message for detailed error.

### **GOT\_ENTITY\_CONFIG**

ID: SAML2-61

Level: FINE

Description: Entity config obtained.

Data: Entity ID, Realm or organization name

Triggers: Obtain entity config.

### **INVALID\_REALM\_GET\_ENTITY\_CONFIG**

ID: SAML2-62

Level: INFO

Description: Invalid realm while getting entity config.

Data: Realm or organization name

Triggers: Obtain entity config.

Actions: Check the Realm name.

### **GOT\_INVALID\_ENTITY\_CONFIG**

ID: SAML2-63

Level: INFO

Description: Obtained invalid entity config.

Data: Entity ID, Realm or organization name

Triggers: Obtain entity config.

Actions: Delete invalid entity config and import it again.

### **CONFIG\_ERROR\_GET\_ENTITY\_CONFIG**

ID: SAML2-64

Level: INFO

Description: Configuration error while getting entity config.

Data: Error message, Entity ID, Realm or organization name

Triggers: Obtain entity config.

Actions: Check debug message for detailed error.

### **NO\_ENTITY\_ID\_SET\_ENTITY\_CONFIG**

ID: SAML2-65

Level: INFO

Description: No entity ID while setting entity config.

Data: Realm or organization name

Triggers: Set entity config.

Actions: Set entity ID in entity config.

### **INVALID\_REALM\_SET\_ENTITY\_CONFIG**

ID: SAML2-66

Level: INFO

Description: Invalid realm while setting entity config.

Data: Realm or organization name

Triggers: Set entity config.

Actions: Check the Realm name.

### **NO\_ENTITY\_DESCRIPTOR\_SET\_ENTITY\_CONFIG**

ID: SAML2-67

Level: INFO

Description: Entity config doesn't exist while setting entity config.

Data: Entity ID, Realm or organization name

Triggers: Set entity config.

Actions: Create entity descriptor before set entity config.

### **SET\_ENTITY\_CONFIG**

ID: SAML2-68

Level: INFO

Description: Entity config was set.

Data: Entity ID, Realm or organization name

Triggers: Set entity config.

### **CONFIG\_ERROR\_SET\_ENTITY\_CONFIG**

ID: SAML2-69

Level: INFO

Description: Configuration error while setting entity config.

Data: Error message, Entity ID, Realm or organization name

Triggers: Set entity config.

Actions: Check debug message for detailed error.

### **SET\_INVALID\_ENTITY\_CONFIG**

ID: SAML2-70

Level: INFO

Description: Invalid entity config to set.

Data: Entity ID, Realm or organization name

Triggers: Set entity config.

Actions: Check entity config if it follows the schema.

#### **NO\_ENTITY\_ID\_CREATE\_ENTITY\_CONFIG**

ID: SAML2-71

Level: INFO

Description: No entity ID while creating entity config.

Data: Realm or organization name

Triggers: Create entity config.

Actions: Set entity ID in entity config.

#### **INVALID\_REALM\_CREATE\_ENTITY\_CONFIG**

ID: SAML2-72

Level: INFO

Description: Invalid realm while creating entity config.

Data: Realm or organization name

Triggers: Create entity config.

Actions: Check the Realm name.

#### **NO\_ENTITY\_DESCRIPTOR\_CREATE\_ENTITY\_CONFIG**

ID: SAML2-73

Level: INFO

Description: Entity config doesn't exist while creating entity config.

Data: Entity ID, Realm or organization name

Triggers: Create entity config.

Actions: Create entity descriptor before create entity config.

#### **ENTITY\_CONFIG\_EXISTS**

ID: SAML2-74

Level: INFO

Description: Entity config exists while creating entity config.

Data: Entity ID, Realm or organization name

Triggers: Create entity config.

Actions: Delete existing entity config first.

#### **ENTITY\_CONFIG\_CREATED**

ID: SAML2-75

Level: INFO

Description: Entity config was created.

Data: Entity ID, Realm or organization name

Triggers: Create entity config.

#### **CONFIG\_ERROR\_CREATE\_ENTITY\_CONFIG**

ID: SAML2-76

Level: INFO

Description: Configuration error while creating entity config.

Data: Error message, Entity ID, Realm or organization name

Triggers: Create entity config.

Actions: Check debug message for detailed error.

#### **CREATE\_INVALID\_ENTITY\_CONFIG**

ID: SAML2-77

Level: INFO

Description: Invalid entity config to create.

Data: Entity ID, Realm or organization name

Triggers: Create entity config.

Actions: Check entity config if it follows the schema.

#### **INVALID\_REALM\_DELETE\_ENTITY\_CONFIG**

ID: SAML2-78

Level: INFO

Description: Invalid realm while deleting entity config.

Data: Realm or organization name

Triggers: Delete entity config.

Actions: Check the Realm name.

#### **NO\_ENTITY\_CONFIG\_DELETE\_ENTITY\_CONFIG**

ID: SAML2-79

Level: INFO

Description: Entity config doesn't exist while deleting entity config.

Data: Entity ID, Realm or organization name

Triggers: Delete entity config.

Actions: Check debug message for detailed error.

#### **ENTITY\_CONFIG\_DELETED**

ID: SAML2-80

Level: INFO

Description: Entity config was deleted.

Data: Entity ID, Realm or organization name

Triggers: Delete entity config.

#### **CONFIG\_ERROR\_DELETE\_ENTITY\_CONFIG**

ID: SAML2-81

Level: INFO

Description: Configuration error while deleting entity config.

Data: Error message, Entity ID, Realm or organization name

Triggers: Delete entity config.

Actions: Check debug message for detailed error.

#### **INVALID\_REALM\_GET\_ALL\_HOSTED\_ENTITIES**

ID: SAML2-82

Level: INFO

Description: Invalid realm while getting all hosted entities.

Data: Realm or organization name

Triggers: Get all hosted entities.

Actions: Check the Realm name.

### **CONFIG\_ERROR\_GET\_ALL\_HOSTED\_ENTITIES**

ID: SAML2-83

Level: INFO

Description: Configuration error while getting all hosted entities.

Data: Error message, Realm or organization name

Triggers: Get all hosted entities.

Actions: Check debug message for detailed error.

### **GOT\_ALL\_HOSTED\_ENTITIES**

ID: SAML2-84

Level: FINE

Description: Obtained all hosted entities.

Data: Error message, Realm or organization name

Triggers: Get all hosted entities.

### **INVALID\_REALM\_GET\_ALL\_REMOTE\_ENTITIES**

ID: SAML2-85

Level: INFO

Description: Invalid realm while getting all remote entities.

Data: Realm or organization name

Triggers: Get all remote entities.

Actions: Check the Realm name.

### **CONFIG\_ERROR\_GET\_ALL\_REMOTE\_ENTITIES**

ID: SAML2-86

Level: INFO

Description: Configuration error while getting all remote entities.

Data: Error message, Realm or organization name

Triggers: Get all remote entities.

Actions: Check debug message for detailed error.

### **GOT\_ALL\_REMOTE\_ENTITIES**

ID: SAML2-87

Level: FINE

Description: Obtained all remote entities.

Data: Error message, Realm or organization name

Triggers: Get all remote entities.

### **INVALID\_INRESPONSETO\_RESPONSE**

ID: SAML2-88

Level: INFO

Description: InResponseTo attribute in Response is invalid.

Data: Response ID

Triggers: Service Provider received a Response for Single Sign On.

Actions: Check debug message for detailed error.

### **INVALID\_ISSUER\_RESPONSE**

ID: SAML2-89

Level: INFO

Description: Issuer in Response is invalid.

Data: Hosted Entity ID, Name of Realm or organization, Response ID

Triggers: Issuer in Response is not configured or not trusted by the hosted provider

Actions: Check configuration.

### **WRONG\_STATUS\_CODE**

ID: SAML2-90

Level: INFO



Description: Status code in Response was not Success.

Data: Response ID, Status code (if log level is set to LL\_FINE)

Triggers: Service provider received a Response with wrong Status code. Most likely an error occurred at Identity Provider.

Actions: Check the status code. Contact Identity Provider if needed.

### **ASSERTION\_NOT\_ENCRYPTED**

ID: SAML2-91

Level: INFO

Description: Assertion in Response was not encrypted.

Data: Response ID

Triggers: Service provider requested the assertion in Response to be encrypted, but it received a Response with unencrypted assertion(s).

Actions: Check configuration. Notify Identity Provider regarding the requirement.

### **MISSING\_ASSERTION**

ID: SAML2-92

Level: INFO

Description: Response had no Assertion.

Data: Response ID

Triggers: Service provider received a Response for Single Sign On, but the response contained no Assertion.

Actions: Check error code of the Response. Notify Identity Provider if needed.

### **INVALID\_ISSUER\_ASSERTION**

ID: SAML2-93

Level: INFO

Description: Issuer in Assertion is not valid.

Data: Assertion ID

Triggers: Issuer in Assertion for single sign on was not configured at service provider, or not trusted by the service provider.

Actions: Check configuration

**MISMATCH\_ISSUER\_ASSERTION**

ID: SAML2-94

Level: INFO

Description: Issuer in Assertion didn't match the Issuer in Response or other Assertions in the Response.

Data: Assertion ID

Triggers: Service provider received Response which had mismatch Issuer inside the Assertion it contained.

Actions: Check debug message

**INVALID\_SIGNATURE\_ASSERTION**

ID: SAML2-95

Level: INFO

Description: Assertion is not signed or signature is not valid.

Data: Assertion ID

Triggers: Service provider requested the Assertion to be signed but the assertion received was not; or the signature on the Assertion received was not valid.

Actions: Check configuration; check debug for more detailed error message.

**MISSING\_SUBJECT\_CONFIRMATION\_DATA**

ID: SAML2-96

Level: INFO

Description: SubjectConfirmationData had no Subject.

Data: Assertion ID

Triggers: Service provider received an Assertion whose SubjectConfirmationData had no Subject.

Actions: Check debug for the Assertion received. Contact Identity Provider if needed.

**MISSING\_RECIPIENT**

ID: SAML2-97

Level: INFO

Description: SubjectConfirmationData had no Recipient.

Data: Assertion ID

Triggers: Service provider received an Assertion whose SubjectConfirmationData had no Recipient.

Actions: Check debug for the Assertion received. Contact Identity Provider if needed.

### **WRONG\_RECIPIENT**

ID: SAML2-98

Level: INFO

Description: Service Provider is not the intended recipient.

Data: Assertion ID

Triggers: Service provider received an Assertion. But the provider is not the intended recipient of the Assertion.

Actions: Check debug for the Assertion received. Check meta data. Contact Identity Provider if needed.

### **INVALID\_TIME\_SUBJECT\_CONFIRMATION\_DATA**

ID: SAML2-99

Level: INFO

Description: Time in SubjectConfirmationData of the Assertion is invalid.

Data: Assertion ID

Triggers: The assertion service provider received had expired timewise.

Actions: Synchronize the time between service provider and identity provider. Increase the time skew attribute for the service provider in its entity config.

### **CONTAINED\_NOT\_BEFORE**

ID: SAML2-100

Level: INFO

Description: SubjectConfirmationData of the Assertion had NotBefore.

Data: Assertion ID

Triggers: The assertion service provider received had NotBefore.

Actions: Check debug for the Assertion received. Contact identity provider if needed.

### **WRONG\_INRESPONSETO\_ASSERTION**

ID: SAML2-101

Level: INFO

Description: Assertion contained wrong InResponseTo attribute.

Data: Assertion ID

Triggers: InResponseTo in Assertion is different from the one in Response. Or Assertion didn't contain InResponseTo, but Response did.

Actions: Check debug for the Assertion received. Contact identity provider if needed.

## **MISSING\_CONDITIONS**

ID: SAML2-102

Level: INFO

Description: Assertion contained no Conditions.

Data: Assertion ID

Triggers: Conditions is missing from the Single Sign On Assertion.

Actions: Check debug for the Assertion received. Contact identity provider if needed.

## **MISSING\_AUDIENCE\_RESTRICTION**

ID: SAML2-103

Level: INFO

Description: Assertion contained no AudienceRestriction.

Data: Assertion ID

Triggers: AudienceRestriction is missing from the Single Sign On Assertion.

Actions: Check debug for the Assertion received. Contact identity provider if needed.

## **WRONG\_AUDIENCE**

ID: SAML2-104

Level: INFO

Description: Assertion contained wrong Audience.

Data: Assertion ID

Triggers: This service provider was not the intended audience of the single sign on assertion.

Actions: Check debug for the Assertion received. Check meta data. Contact identity provider if needed.

**FOUND\_AUTHN\_ASSERTION**

ID: SAML2-105

Level: INFO

Description: Found authentication assertion in the Response.

Data: Assertion ID, Subject if the log level was set to LL\_FINE, SesionIndex if any

Triggers: Both the Response and Assertion(s) inside the Response are valid.

**INVALID\_SSOTOKEN**

ID: SAML2-106

Level: INFO

Description: Invalid SSOToken found in Request.

Data: SSOToken value

Triggers: Initiate Single Logout without SSOToken.

**MISSING\_ENTITY**

ID: SAML2-107

Level: INFO

Description: No entity ID is specified in Request.

Data: EntityID value

Triggers: Initiate Request without EntityID.

Actions: Specify EntityID parameter in request URL.

**MISSING\_META\_ALIAS**

ID: SAML2-108

Level: INFO

Description: No metaAlias is specified in Request.

Data: MetaAlias value

Triggers: Initiate Request without metaAlias.

Actions: Specify metaAlias parameter in request URL.

**REDIRECT\_TO\_AUTH**

ID: SAML2-109

Level: INFO

Description: Redirect request to authentication page.

Data: URL to Authentication page

Triggers: Initiate Request without SSOToken.

### **CANNOT\_DECODE\_REQUEST**

ID: SAML2-110

Level: INFO

Description: Can not decode URL encoded Query parameter.

Data: URL encoded Query parameter

Triggers: Initiate to decode incorrectly URL encoded Query parameter.

### **CANNOT\_INSTANTIATE\_MNI\_RESPONSE**

ID: SAML2-111

Level: INFO

Description: Can not instantiate MNI Response with input xml.

Data: Input XML string for MNI Response

Triggers: Initiate parse MNI Response with incorrect XML string.

### **CANNOT\_INSTANTIATE\_MNI\_REQUEST**

ID: SAML2-112

Level: INFO

Description: Can not instantiate MNI Request with input XML.

Data: Input XML string for MNI Request

Triggers: Initiate parse MNI Request with incorrect XML string.

### **CANNOT\_INSTANTIATE\_SLO\_RESPONSE**

ID: SAML2-113

Level: INFO

Description: Can not instantiate SLO Response with input XML.

Data: Input XML string for SLO Response

Triggers: Initiate parse SLO Response with incorrect XML string.

### **CANNOT\_INSTANTIATE\_SLO\_REQUEST**

ID: SAML2-114

Level: INFO

Description: Can not instantiate SLO Request with input XML.

Data: Input XML string for SLO Request

Triggers: Initiate parse SLO Request with incorrect XML string.

### **MNI\_REQUEST\_INVALID\_SIGNATURE**

ID: SAML2-115

Level: INFO

Description: Can not varify signature in MNI Request.

Data: MNI Request with signature

Triggers: Sinature in MNI Request is incorrect.

### **MNI\_RESPONSE\_INVALID\_SIGNATURE**

ID: SAML2-116

Level: INFO

Description: Can not valify signature in MNI Response.

Data: MNI Response with signature

Triggers: Sinature in MNI Response is incorrect.

### **SLO\_REQUEST\_INVALID\_SIGNATURE**

ID: SAML2-117

Level: INFO

Description: Can not valify signature in SLO Request.

Data: SLO Request with signature

Triggers: Sinature in SLO Request is incorrect.

### **SLO\_RESPONSE\_INVALID\_SIGNATURE**

ID: SAML2-118

Level: INFO

Description: Can not valify signature in SLO Response.

Data: SLO Response with signature

Triggers: Sinature in SLO Response is incorrect.

### **NAMEID\_INVALID\_ENCRYPTION**

ID: SAML2-119

Level: INFO

Description: Can not decrypt EncryptedID.

Data: Exception message

Triggers: Decrypt the incorrectly encrypted EncryptedID.

### **INVALID\_MNI\_RESPONSE**

ID: SAML2-120

Level: INFO

Description: MNI Response has error status.

Data: Status message

Triggers: Requested MNI Request caused problem.

### **INVALID\_SLO\_RESPONSE**

ID: SAML2-121

Level: INFO

Description: SLO Response has error status.

Data: Status message

Triggers: Requested SLO Request caused problem.

### **MISSING\_ENTITY\_ROLE**

ID: SAML2-122

Level: INFO

Description: Entity Role is not specified in the request.

Data: Entity Role value



Triggers: Initiate request without Role value.

Actions: Specify Entity Role parameter in the request.

### **INVALID\_ISSUER\_REQUEST**

ID: SAML2-123

Level: INFO

Description: Issuer in Request is invalid.

Data: Hosted Entity ID, Name of Realm or organization, Request ID

Triggers: Issuer in Request is not configured or not trusted by the hosted provider

Actions: Check configuration.

### **INVALID\_REALM\_GET\_ALL\_ENTITIES**

ID: SAML2-124

Level: INFO

Description: Invalid realm while getting all entities.

Data: Realm or organization name

Triggers: Get all entities.

Actions: Check the Realm name.

### **CONFIG\_ERROR\_GET\_ALL\_ENTITIES**

ID: SAML2-125

Level: INFO

Description: Configuration error while getting all entities.

Data: Error message, Realm or organization name

Triggers: Get all entities.

Actions: Check debug message for detailed error.

### **GOT\_ALL\_ENTITIES**

ID: SAML2-126

Level: FINE

Description: Obtained all entities.

Data: Realm or organization name

Triggers: Get all entities.

### **INVALID\_PEP\_ID**

ID: SAML2-127

Level: INFO

Description: Invalid Policy Enforcement Point (PEP) Identifier.

Data: PEP Identifier

Triggers: Cannot retrieve PEP Metadata

Actions: Provide valid PEP Identifier and retry.

### **INVALID\_PDP\_ID**

ID: SAML2-128

Level: INFO

Description: Invalid Policy Decision Point (PDP) Identifier.

Data: PDP Identifier

Triggers: Cannot retrieve PDP Metadata

Actions: Provide valid PDP Identifier and retry.

### **NULL\_PDP\_SIGN\_CERT\_ALIAS**

ID: SAML2-129

Level: INFO

Description: Certificate Alias is null, cannot sign the message.

Data: The realm from which the metadata was retrieved., Entity Identifier for the Policy Decision Point.

Triggers: Cannot sign the message.

Actions: Check the entity's metadata to verify the certificate alias is correct.

### **NULL\_PEP\_SIGN\_CERT\_ALIAS**

ID: SAML2-130

Level: INFO

Description: Certificate Alias is null, cannot retrieve the certificate.

Data: The realm from which the metadata was retrieved., Entity Identifier for the Policy Enforcement Point.

Triggers: Cannot validate the signature in the request message.

Actions: Check the entity's metadata to verify the certificate alias is correct.

### **INVALID\_SIGNATURE\_QUERY**

ID: SAML2-131

Level: INFO

Description: Invalid Signature in Query Request.

Data: The realm from which the metadata was retrieved., Entity Identifier for the Policy Decision Point., Cert Alias used to retrieve certificate from keystore.

Triggers: Cannot process the request, server will send back error to the Requester.

Actions: Check the entity's metadata to verify the certificate alias is correct.; Check the certificate in the keystore for its existence and validity.

### **INVALID\_ISSUER\_IN\_PEP\_REQUEST**

ID: SAML2-132

Level: INFO

Description: Issuer in Request is invalid.

Data: Name of Realm or organization, Identity of the Issuer, Hosted Entity Identifier

Triggers: Issuer in Request is not configured or not trusted by the hosted provider therefore Query will fail.

Actions: Check the hosted entity configuration attribute cotlist to make sure the issuer identifier is in the list.

### **PEP\_METADATA\_ERROR**

ID: SAML2-133

Level: INFO

Description: Unable to retrieve Policy Enforcement Point (PEP) Metadata.

Data: PEP Provider Entity Identifier

Triggers: Cannot retrieve PEP Provider Metadata

Actions: Check the Data Store is accessible .; Check the PEP Provider Entity Identifier.

**PDP\_METADATA\_ERROR**

ID: SAML2-134

Level: INFO

Description: Unable to retrieve Policy Decision Point (PDP) Metadata.

Data: PDP Provider Entity Identifier

Triggers: Cannot retrieve PDP Provider Metadata

Actions: Check the Data Store is accessible .; Check the PDP Provider Entity Identifier.

**ASSERTION\_FROM\_PDP\_NOT\_ENCRYPTED**

ID: SAML2-135

Level: INFO

Description: Assertion in Response not encrypted.

Data: Identity of the Issuer, Response ID

Triggers: Policy Enforcement Point (PEP) Provider requested the assertion in Response to be encrypted, but it received a Response with unencrypted assertion(s).

Actions: Check PEP metadata published to the PDP. Notify Policy Decision Point (PDP) Provider regarding the requirement.

**MISSING\_ASSERTION\_IN\_PDP\_RESPONSE**

ID: SAML2-136

Level: INFO

Description: Response has no Assertion.

Data: Identity of Issuer, Response ID

Triggers: Policy Enforcement Point (PEP) Provider received a Response with no Assertion.

Actions: Check error code of the Response. Notify Policy Decision Point (PDP) Provider to check for errors or possible misconfiguration.

**INVALID\_ISSUER\_IN\_ASSERTION\_FROM\_PDP**

ID: SAML2-137

Level: INFO

Description: Issuer in Assertion is not valid.

Data: Assertion Issuer, Assertion ID

Triggers: Issuer in Assertion was not configured at Policy Enforcement Point (PEP) provider, or not trusted by the PEP provider.

Actions: Check the configuration.

### **MISMATCH\_ISSUER\_IN\_ASSERTION\_FROM\_PDP**

ID: SAML2-138

Level: INFO

Description: Issuer in Assertion doesn't match the Issuer in Response.

Data: Issuer Identifier in the Response, Issuer Identity in the Assertion

Triggers: Error condition, Response will not be accepted.

Actions: Check the Policy Decision Point instance to debug the cause of the problem.

### **INVALID\_SIGNATURE\_ASSERTION\_FROM\_PDP**

ID: SAML2-139

Level: INFO

Description: Assertion is not signed or signature is not valid.

Data: Issuer Identity in the Assertion, Assertion ID

Triggers: Policy Enforcement Point (PEP) provider requested the Assertion to be signed but the assertion received was not; or the signature on the Assertion received was not valid.

Actions: Check PEP metadata configuration.; Check debug for more detailed error message.

### **REQUEST\_MESSAGE**

ID: SAML2-140

Level: FINE

Description: Request message from Query Requester

Data: policy decision point entity descriptor, SAMLv2 Query Request Message

Triggers: SAMLv2 SOAP Query

### **VALID\_SIGNATURE\_QUERY**

ID: SAML2-141

Level: INFO

Description: Valid Signature in Query Request.

Data: The realm from which the metadata was retrieved., Entity Identifier for the Policy Decision Point., Cert Alias used to retrieve certificate from keystore.

Triggers: The Request will be processed.

### **SUCCESS\_FED\_SSO**

ID: SAML2-142

Level: INFO

Description: Successful federation/Single Sign On.

Data: user id, NameID value

Triggers: Successful federation/Single Sign On.

### **SAE\_IDP\_SUCCESS**

ID: SAML2-143

Level: INFO

Description: SAE\_IDP succeeded.

Data: SAE attributes

Triggers: SAE\_IDP succeeded.

### **SAE\_IDP\_ERROR**

ID: SAML2-144

Level: INFO

Description: SAE\_IDP failed.

Data: Error message, SAE attributes

Triggers: SAE\_IDP failed.

### **SAE\_IDP\_ERROR\_NODATA**

ID: SAML2-145

Level: INFO

Description: SAE\_IDP invoked without attributes.

Data: Error message

Triggers: SAE\_IDP invoked without attributes.

Actions: Add SAE attributes to request.

**SAE\_IDP\_AUTH**

ID: SAML2-146

Level: INFO

Description: SAE\_IDP delegated to Auth.

Data: SAE attributes

Triggers: SAE\_IDP invoked but no user session.

**SAE\_SP\_SUCCESS**

ID: SAML2-147

Level: INFO

Description: SAE\_SP succeeded.

Data: SAE attributes

Triggers: SAE\_SP succeeded.

**SAE\_SP\_ERROR**

ID: SAML2-148

Level: INFO

Description: SAE\_SP failed.

Data: Error message

Triggers: SAE\_SP failed.

**SEND\_ECP\_RESPONSE**

ID: SAML2-149

Level: INFO

Description: Send a response to ECP.

Data: Identity Provider Entity Identifier, Realm or organization name, Assertion Consumer Service URL, SOAP message string if the log level was set to LL\_FINE at run time

Triggers: Received AuthnRequest.

**SEND\_ECP\_RESPONSE\_FAILED**

ID: SAML2-150

Level: INFO

Description: Unable to send a response to ECP.

Data: Identity Provider Entity Identifier, Realm or organization name, Assertion Consumer Service URL

Triggers: Send a response to ECP.

#### **CANNOT\_INSTANTIATE\_SOAP\_MESSAGE\_ECP**

ID: SAML2-151

Level: INFO

Description: Unable to instantiate a SOAP message sent from ECP.

Data: Service Provider Entity Identifier

Triggers: Received a response from ECP.

#### **RECEIVE\_SOAP\_FAULT\_ECP**

ID: SAML2-152

Level: INFO

Description: Received a SOAP fault from ECP.

Data: Service Provider Entity Identifier

Triggers: Received a response from ECP.

#### **CANNOT\_INSTANTIATE\_SOAP\_MESSAGE\_ECP**

ID: SAML2-153

Level: INFO

Description: Unable to instantiate a SAML Response sent from ECP.

Data: Service Provider Entity Identifier

Triggers: Received a response from ECP.

#### **ECP\_ASSERTION\_NOT\_SIGNED**

ID: SAML2-154

Level: INFO

Description: Assertion received from ECP is not signed.

Data: Identity Provider Entity Identifier

Triggers: Received a response from ECP.



**ECP\_ASSERTION\_INVALID\_SIGNATURE**

ID: SAML2-155

Level: INFO

Description: Assertion received from ECP has invalid signature.

Data: Identity Provider Entity Identifier

Triggers: Assertion signature verification.

**RECEIVED\_AUTHN\_REQUEST\_ECP**

ID: SAML2-156

Level: INFO

Description: Received AuthnRequest from ECP.

Data: Service Provider Entity Identifier, IDP meta alias, authnRequest xml string

Triggers: Single Sign On.

**RECEIVED\_HTTP\_REQUEST\_ECP**

ID: SAML2-157

Level: INFO

Description: Received HTTP request from ECP.

Data: Service Provider Entity Identifier, Realm or organization name

Triggers: ECP accessed SP Resource.

**SEND\_ECP\_PAOS\_REQUEST**

ID: SAML2-158

Level: INFO

Description: Send a PAOS request to ECP.

Data: Service Provider Entity Identifier, Realm or organization name, SOAP message string if the log level was set to LL\_FINE at run time

Triggers: Received HTTP request from ECP.

**SEND\_ECP\_PAOS\_REQUEST\_FAILED**

ID: SAML2-159

Level: INFO

Description: Unable to send a PAOS request to ECP.

Data: Service Provider Entity Identifier, Realm or organization name

Triggers: Send a PAOS request to ECP.

### **SUCCESS\_FED\_TERMINATION**

ID: SAML2-160

Level: INFO

Description: Federation termination succeeded.

Data: user id

Triggers: Federation termination succeeded.

### **SUCCESS\_NEW\_NAMEID**

ID: SAML2-161

Level: INFO

Description: New name identifier succeeded.

Data: user id

Triggers: New name identifier succeeded.

### **UNKNOWN\_PRINCIPAL**

ID: SAML2-162

Level: INFO

Description: Unknown princial in manage name ID request.

Data: Manage Name ID request XML

Triggers: Unable to find old name id in the management name id request.

### **UNABLE\_TO\_TERMINATE**

ID: SAML2-163

Level: INFO

Description: Unable to terminate federation.

Data: user id

Triggers: Unable to terminate federation.

**POST\_RESPONSE\_INVALID\_SIGNATURE**

ID: SAML2-164

Level: INFO

Description: Unable to verify signature in Single Sign-On Response using POST binding.

Data: Identity Provider Entity ID

Triggers: Error while trying to verify signature in Response.

Actions: Check Identity Provider metadata; Check debug file for detailed info

**BINDING\_NOT\_SUPPORTED**

ID: SAML2-165

Level: INFO

Description: Binding is not supported.

Data: Provider Entity ID, Name of binding that is not supported

Triggers: Hosted provider received data from unsupported binding endpoint.

Actions: Check Provider metadata; Check debug file for detailed info

**SP\_SSO\_FAILED**

ID: SAML2-166

Level: INFO

Description: Single Sign-On Failed at Service Provider.

Data: Hosted Service Provider Entity ID, Error message, Response received from IDP if the log level was set to LL\_FINE at run time

Triggers: Single Sign On failed

Actions: Check debug file for detailed info

**INVALID\_REALM\_FOR\_SESSION**

ID: SAML2-167

Level: INFO

Description: Invalid realm for the user trying to get an assertion from the IdP.

Data: Realm of the authenticated user, Realm where the IdP is defined, Entity Id of the SP, IP Address of the requester, SAML2 Authentication Request

Triggers: Single Sign On failed

Actions: Check debug file for detailed info

### **DATE\_CONDITION\_NOT\_MET**

ID: SAML2-168

Level: INFO

Description: Assertion NotBefore or NotOnOrAfter condition not met.

Data: Assertion ID

Triggers: The NotBefore or NotOnOrAfter condition of the single sign on assertion was not met.

Actions: Check debug for the Assertion received. Check assertion clock skew. Contact identity provider if needed.

OpenAM logs the following SAML messages.

### **ASSERTION\_CREATED**

ID: SAML-1

Level: INFO

Description: New assertion created

Data: message id, Assertion ID or Assertion if log level is LL\_FINER

Triggers: Browser Artifact Profile; Browser POST Profile; Create Assertion Artifact; Authentication Query; Attribute Query; Authorization Decision Query

### **ASSERTION\_ARTIFACT\_CREATED**

ID: SAML-2

Level: INFO

Description: New assertion artifact created

Data: message id, Assertion Artifact, ID of the Assertion corresponding to the Artifact

Triggers: Browser Artifact Profile; Creating Assertion Artifact

### **ASSERTION\_ARTIFACT\_REMOVED**

ID: SAML-3

Level: FINE

Description: Assertion artifact removed from map

Data: message id, Assertion Artifact

Triggers: SAML Artifact Query; Assertion artifact expires

### **ASSERTION\_REMOVED**

ID: SAML-4

Level: FINE

Description: Assertion removed from map

Data: message id, Assertion ID

Triggers: SAML Artifact Query; Assertion expires

### **ASSERTION\_ARTIFACT\_VERIFIED**

ID: SAML-5

Level: INFO

Description: Access right by assertion artifact verified

Data: message id, Assertion Artifact

Triggers: SAML Artifact Query

### **AUTH\_PROTOCOL\_MISMATCH**

ID: SAML-6

Level: INFO

Description: Authentication type configured and the actual SOAP protocol do not match.

Data: message id

Triggers: SAML SOAP Query

Actions: Login to console, go to Federation, then SAML, edit the Trusted Partners Configuration, check the selected Authentication Type field, make sure it matches the protocol specified in SOAP URL field.

### **INVALID\_AUTH\_TYPE**

ID: SAML-7

Level: INFO

Description: Invalid authentication type

Data: message id

Triggers: SAML SOAP Query

Actions: Login to console, go to Federation, then SAML, edit the Trusted Partners Configuration, select one of the values for Authentication Type field, then save.

### **SOAP\_RECEIVER\_URL**

ID: SAML-8

Level: FINE

Description: Remote SOAP receiver URL

Data: message id, SOAP Receiver URL

Triggers: SAML SOAP Query

### **NO\_ASSERTION\_IN\_RESPONSE**

ID: SAML-9

Level: INFO

Description: No assertion present in saml response

Data: message id, SAML Response

Triggers: SAML Artifact Query

Actions: Contact remote partner on what's wrong

### **MISMATCHED\_ASSERTION\_AND\_ARTIFACT**

ID: SAML-10

Level: INFO

Description: Number of assertions in SAML response does not equal to number of artifacts in SAML request.

Data: message id, SAML Response

Triggers: SAML Artifact Query

Actions: Contact remote partner on what's wrong

### **ARTIFACT\_TO\_SEND**

ID: SAML-11

Level: INFO

Description: Artifact to be sent to remote partner

Data: message id, SAML Artifact

Triggers: SAML Artifact Query

### **WRONG\_SOAP\_URL**

ID: SAML-12

Level: INFO

Description: Wrong SOAP URL in trusted partner configuration

Data: message id

Triggers: SAML Artifact Query

Actions: Login to console, go to Federation, then SAML, edit the Trusted Partners Configuration, enter value for SOAP URL field, then save.

### **SAML\_ARTIFACT\_QUERY**

ID: SAML-13

Level: FINE

Description: SAML Artifact Query SOAP request

Data: message id, SAML Artifact Query message

Triggers: SAML Artifact Query

### **NO\_REPLY\_FROM\_SOAP\_RECEIVER**

ID: SAML-14

Level: INFO

Description: No reply from remote SAML SOAP Receiver

Data: message id

Triggers: SAML Artifact Query

Actions: Check remote partner on what's wrong

### **REPLIED\_SOAP\_MESSAGE**

ID: SAML-15

Level: FINE

Description: SAML Artifact Query response

Data: message id, SAML Artifact Query response message

Triggers: SAML Artifact Query

### **NULL\_SAML\_RESPONSE**

ID: SAML-16

Level: INFO

Description: No SAML response inside SOAP response

Data: message id

Triggers: SAML Artifact Query

Actions: Check remote partner on what's wrong

### **INVALID\_RESPONSE\_SIGNATURE**

ID: SAML-17

Level: INFO

Description: XML signature for SAML response is not valid

Data: message id

Triggers: SAML Artifact Query

Actions: Check remote partner on what's wrong on XML digital signature

### **ERROR\_RESPONSE\_STATUS**

ID: SAML-18

Level: INFO

Description: Error in getting SAML response status code

Data: message id

Triggers: SAML Artifact Query

Actions: Check remote partner on what's wrong on response status code

### **MISSING\_TARGET**

ID: SAML-19

Level: INFO

Description: TARGET parameter is missing from the request

Data: message id



Triggers: SAML Artifact Profile; SAML POST Profile

Actions: Add "TARGET=target\_url" as query parameter in the request

## **REDIRECT\_TO\_URL**

ID: SAML-20

Level: INFO

Description: Redirection URL in SAML artifact source site

Data: message id, target, redirection URL, SAML response message in case of POST profile and log level is LL\_FINER

Triggers: SAML Artifact Profile source; SAML POST Profile source

## **TARGET\_FORBIDDEN**

ID: SAML-21

Level: INFO

Description: The specified target site is forbidden

Data: message id, target URL

Triggers: SAML Artifact Profile source; SAML POST Profile source

Actions: TARGET URL specified in the request is not handled by any trusted partner, check your TARGET url, make sure it matches one of the Target URL configured in trusted partner sites

## **FAILED\_TO\_CREATE\_SSO\_TOKEN**

ID: SAML-22

Level: INFO

Description: Failed to create single-sign-on token

Data: message id

Triggers: SAML Artifact Profile destination; SAML POST Profile destination

Actions: Authentication component failed to create SSO token, please check authentication log and debug for more details

## **ACCESS\_GRANTED**

ID: SAML-23

Level: INFO

Description: Single sign on successful, access to target is granted

Data: message id, Response message in case of POST profile and log level is LL\_FINER or higher

Triggers: SAML Artifact Profile destination; SAML POST Profile destination

### **NULL\_PARAMETER**

ID: SAML-24

Level: INFO

Description: Null servlet request or response

Data: message id

Triggers: SAML Artifact Profile; SAML POST Profile

Actions: Check web container error log for details

### **MISSING\_RESPONSE**

ID: SAML-25

Level: INFO

Description: Missing SAML response in POST body

Data: message id

Triggers: SAML POST Profile destination

Actions: Check with remote SAML partner to see why SAML response object is missing from HTTP POST body

### **RESPONSE\_MESSAGE\_ERROR**

ID: SAML-26

Level: INFO

Description: Error in response message

Data: message id

Triggers: SAML POST Profile destination

Actions: Unable to convert encoded POST body attribute to SAML Response object, check with remote SAML partner to see if there is any error in the SAML response create, for example, encoding error, invalid response sub-element etc.

### **INVALID\_RESPONSE**

ID: SAML-27

Level: INFO

Description: Response is not valid

Data: message id

Triggers: SAML POST Profile destination

Actions: recipient attribute in SAML response does not match this site's POST profile URL;  
Response status code is not success

## **SOAP\_MESSAGE\_FACTORY\_ERROR**

ID: SAML-28

Level: INFO

Description: Failed to get an instance of the message factory

Data: message id

Triggers: SAML SOAP Receiver init

Actions: Check your SOAP factory property (javax.xml.soap.MessageFactory) to make sure it is using a valid SOAP factory implementation

## **UNTRUSTED\_SITE**

ID: SAML-29

Level: INFO

Description: Received Request from an untrusted site

Data: message id, Remote site Hostname or IP Address

Triggers: SAML SOAP Queries

Actions: Login to console, go to Federation, then SAML service, edit the Trusted Partners Configuration, check the Host List field, make sure remote host/IP is one the values. In case of SSL with client auth, make sure Host List contains the client certificate alias of the remote site.

## **INVALID\_REQUEST**

ID: SAML-30

Level: INFO

Description: Invalid request from remote partner site

Data: message id and request hostname/IP address, return response

Triggers: SAML SOAP Queries

Actions: Check with administrator of remote partner site

**SOAP\_REQUEST\_MESSAGE**

ID: SAML-31

Level: FINE

Description: Request message from partner site

Data: message id and request hostname/IP address, request xml

Triggers: SAML SOAP Queries

**BUILD\_RESPONSE\_ERROR**

ID: SAML-32

Level: INFO

Description: Failed to build response due to internal server error

Data: message id

Triggers: SAML SOAP Queries

Actions: Check debug message to see why it is failing, for example, cannot create response status, major/minor version error, etc.

**SENDING\_RESPONSE**

ID: SAML-33

Level: INFO

Description: Sending SAML response to partner site

Data: message id, SAML response or response id

Triggers: SAML SOAP Queries

**SOAP\_FAULT\_ERROR**

ID: SAML-34

Level: INFO

Description: Failed to build SOAP fault response body

Data: message id

Triggers: SAML SOAP Queries

Actions: Check debug message to see why it is failing, for example, unable to create SOAP fault, etc.

OpenAM logs the following WSFederation messages.

### **INVALID\_SIGNATURE\_ASSERTION**

ID: WSFederation-1

Level: INFO

Description: Assertion is not signed or signature is not valid.

Data: Assertion or assertion ID, Realm or organization name, Assertion issuer

Triggers: Service provider requested the Assertion to be signed but the assertion received was not; or the signature on the Assertion received was not valid.

Actions: Check configuration; check debug for more detailed error message.

### **MISSING\_CONDITIONS\_NOT\_ON\_OR\_AFTER**

ID: WSFederation-2

Level: INFO

Description: Assertion conditions are missing notOnOrAfter attribute.

Data: Assertion or assertion ID

Triggers: The Conditions element of the assertion is missing its notOnOrAfter attribute.

Actions: Check the assertion. Contact Identity Provider if needed.

### **ASSERTION\_EXPIRED**

ID: WSFederation-3

Level: INFO

Description: Assertion has expired.

Data: Assertion or assertion ID, Assertion notOnOrAfter time, Time skew in seconds, Current time

Triggers: The current time is after the assertion's notOnOrAfter time plus the time skew.

Actions: Synchronize server clocks. Contact Identity Provider if needed.

### **MISSING\_CONDITIONS\_NOT\_BEFORE**

ID: WSFederation-4

Level: INFO

Description: Assertion conditions are missing notBefore attribute.

Data: Assertion or assertion ID

Triggers: The Conditions element of the assertion is missing its notBefore attribute.

Actions: Check the assertion. Contact Identity Provider if needed.

### **ASSERTION\_NOT\_YET\_VALID**

ID: WSFederation-5

Level: INFO

Description: Assertion not yet valid.

Data: Assertion or assertion ID, Assertion notBefore time, Time skew in seconds, Current time

Triggers: The current time is before the assertion's notBefore time minus the time skew.

Actions: Synchronize server clocks. Contact Identity Provider if needed.

### **MISSING\_WRESULT**

ID: WSFederation-6

Level: INFO

Description: WS-Federation response is missing wresult.

Data: WS-Federation response

Triggers: The WS-Federation response is missing its wresult parameter.

Actions: Check the response. Contact Identity Provider if needed.

### **MISSING\_WCTX**

ID: WSFederation-7

Level: INFO

Description: WS-Federation response is missing wctx.

Data: WS-Federation response

Triggers: The WS-Federation response is missing its wctx parameter.

Actions: Check the response. Contact Identity Provider if needed.

### **INVALID\_WRESULT**

ID: WSFederation-8

Level: INFO

Description: WS-Federation response is invalid.

Data: WS-Federation response

Triggers: The WS-Federation response is not a valid RequestSecurityTokenResponse element.

Actions: Check the response. Contact Identity Provider if needed.

### **CONFIG\_ERROR\_GET\_ENTITY\_CONFIG**

ID: WSFederation-9

Level: INFO

Description: Configuration error while getting entity config.

Data: Error message, MetaAlias, Realm or organization name

Triggers: Obtain entity config.

Actions: Check debug message for detailed error.

### **CANT\_FIND\_SP\_ACCOUNT\_MAPPER**

ID: WSFederation-10

Level: INFO

Description: Can't find SP Account Mapper.

Data: Error message, Account mapper class name

Triggers: Cannot get class object for SP account mapper class.

Actions: Check the configuration. Ensure that SP account mapper class name is correct and that the account mapper class is on the classpath.

### **CANT\_CREATE\_SP\_ACCOUNT\_MAPPER**

ID: WSFederation-11

Level: INFO

Description: Can't create SP Account Mapper.

Data: Error message, Account mapper class name

Triggers: Cannot create SP account mapper object.

Actions: Check the configuration. Ensure that SP account mapper class name is correct and that the account mapper class is on the classpath.

### **CANT\_CREATE\_SESSION**

ID: WSFederation-12

Level: INFO

Description: Can't create session for user.

Data: Error message, Realm or organization name, User name, Auth level

Triggers: Cannot create session for user.

Actions: Check the configuration. Ensure that SP account mapper is finding a user in the local store.

## **SSO\_SUCCESSFUL**

ID: WSFederation-13

Level: INFO

Description: Single sign-on completed successfully.

Data: wctx, Assertion or assertion ID, Realm or organization name, User ID, Authentication Level, Target URL

Triggers: Successful WS-Federation RP Signin Response.

## **UNTRUSTED\_ISSUER**

ID: WSFederation-14

Level: INFO

Description: Assertion issuer is not trusted by this service provider.

Data: Assertion or assertion ID, Realm or organization name, Service provider ID, Target URL

Triggers: Cannot create session for user.

Actions: Check the configuration. Ensure that SP account mapper is finding a user in the local store.

## **MISSING\_SUBJECT**

ID: WSFederation-15

Level: INFO

Description: Assertion does not contain a subject element.

Data: Assertion or assertion ID

Triggers: Assertion does not contain a subject element.

Actions: Check the assertion. Contact Identity Provider if needed.

## **GOT\_FEDERATION**

ID: WSFederation-16



Level: FINE

Description: Federation obtained.

Data: Federation ID, Realm or organization name

Triggers: Obtain federation.

### **GOT\_INVALID\_ENTITY\_DESCRIPTOR**

ID: WSFederation-17

Level: INFO

Description: Obtained invalid entity descriptor.

Data: Entity ID, Realm or organization name

Triggers: Obtain entity descriptor.

Actions: Delete invalid entity descriptor and import it again.

### **CONFIG\_ERROR\_GET\_ENTITY\_DESCRIPTOR**

ID: WSFederation-18

Level: INFO

Description: Configuration error while getting entity descriptor.

Data: Error message, Entity ID, Realm or organization name

Triggers: Obtain entity descriptor.

Actions: Check debug message for detailed error.

### **SET\_ENTITY\_DESCRIPTOR**

ID: WSFederation-19

Level: INFO

Description: Entity descriptor was set.

Data: Entity ID, Realm or organization name

Triggers: Set entity descriptor.

### **CONFIG\_ERROR\_SET\_ENTITY\_DESCRIPTOR**

ID: WSFederation-20

Level: INFO

Description: Configuration error while setting entity descriptor.

Data: Error message, Entity ID, Realm or organization name

Triggers: Set entity descriptor.

Actions: Check debug message for detailed error.

### **SET\_INVALID\_ENTITY\_DESCRIPTOR**

ID: WSFederation-21

Level: INFO

Description: Invalid entity descriptor to set.

Data: Entity ID, Realm or organization name

Triggers: Set entity descriptor.

Actions: Check entity descriptor if it follows the schema.

### **ENTITY\_DESCRIPTOR\_CREATED**

ID: WSFederation-22

Level: INFO

Description: Entity descriptor was created.

Data: Entity ID, Realm or organization name

Triggers: Create entity descriptor.

### **CONFIG\_ERROR\_CREATE\_ENTITY\_DESCRIPTOR**

ID: WSFederation-23

Level: INFO

Description: Configuration error while creating entity descriptor.

Data: Error message, Entity ID, Realm or organization name

Triggers: Create entity descriptor.

Actions: Check debug message for detailed error.

### **CREATE\_INVALID\_ENTITY\_DESCRIPTOR**

ID: WSFederation-24

Level: INFO

Description: Invalid entity descriptor to create.

Data: Entity ID, Realm or organization name

Triggers: Create entity descriptor.

Actions: Check entity descriptor if it follows the schema.

### **ENTITY\_DESCRIPTOR\_DELETED**

ID: WSFederation-25

Level: INFO

Description: Entity descriptor was deleted.

Data: Entity ID, Realm or organization name

Triggers: Delete entity descriptor.

### **CONFIG\_ERROR\_DELETE\_ENTITY\_DESCRIPTOR**

ID: WSFederation-26

Level: INFO

Description: Configuration error while deleting entity descriptor.

Data: Error message, Entity ID, Realm or organization name

Triggers: Delete entity descriptor.

Actions: Check debug message for detailed error.

### **GOT\_ENTITY\_CONFIG**

ID: WSFederation-27

Level: FINE

Description: Entity config obtained.

Data: Entity ID, Realm or organization name

Triggers: Obtain entity config.

### **GOT\_INVALID\_ENTITY\_CONFIG**

ID: WSFederation-28

Level: INFO

Description: Obtained invalid entity config.

Data: Entity ID, Realm or organization name

Triggers: Obtain entity config.

Actions: Delete invalid entity config and import it again.

### **CONFIG\_ERROR\_GET\_ENTITY\_CONFIG**

ID: WSFederation-29

Level: INFO

Description: Configuration error while getting entity config.

Data: Error message, Entity ID, Realm or organization name

Triggers: Obtain entity config.

Actions: Check debug message for detailed error.

### **NO\_ENTITY\_ID\_SET\_ENTITY\_CONFIG**

ID: WSFederation-30

Level: INFO

Description: No entity ID while setting entity config.

Data: Realm or organization name

Triggers: Set entity config.

Actions: Set entity ID in entity config.

### **SET\_ENTITY\_CONFIG**

ID: WSFederation-31

Level: INFO

Description: Entity config was set.

Data: Entity ID, Realm or organization name

Triggers: Set entity config.

### **CONFIG\_ERROR\_SET\_ENTITY\_CONFIG**

ID: WSFederation-32

Level: INFO

Description: Configuration error while setting entity config.

Data: Error message, Entity ID, Realm or organization name

Triggers: Set entity config.

Actions: Check debug message for detailed error.

### **SET\_INVALID\_ENTITY\_CONFIG**

ID: WSFederation-33

Level: INFO

Description: Invalid entity config to set.

Data: Entity ID, Realm or organization name

Triggers: Set entity config.

Actions: Check entity config if it follows the schema.

### **NO\_ENTITY\_ID\_CREATE\_ENTITY\_CONFIG**

ID: WSFederation-34

Level: INFO

Description: No entity ID while creating entity config.

Data: Realm or organization name

Triggers: Create entity config.

Actions: Set entity ID in entity config.

### **NO\_ENTITY\_DESCRIPTOR\_CREATE\_ENTITY\_CONFIG**

ID: WSFederation-35

Level: INFO

Description: Entity config doesn't exist while creating entity config.

Data: Entity ID, Realm or organization name

Triggers: Create entity config.

Actions: Create entity descriptor before create entity config.

### **ENTITY\_CONFIG\_EXISTS**

ID: WSFederation-36

Level: INFO

Description: Entity config exists while creating entity config.

Data: Entity ID, Realm or organization name

Triggers: Create entity config.

Actions: Delete existing entity config first.

### **ENTITY\_CONFIG\_CREATED**

ID: WSFederation-37

Level: INFO

Description: Entity config was created.

Data: Entity ID, Realm or organization name

Triggers: Create entity config.

### **CONFIG\_ERROR\_CREATE\_ENTITY\_CONFIG**

ID: WSFederation-38

Level: INFO

Description: Configuration error while creating entity config.

Data: Error message, Entity ID, Realm or organization name

Triggers: Create entity config.

Actions: Check debug message for detailed error.

### **CREATE\_INVALID\_ENTITY\_CONFIG**

ID: WSFederation-39

Level: INFO

Description: Invalid entity config to create.

Data: Entity ID, Realm or organization name

Triggers: Create entity config.

Actions: Check entity config if it follows the schema.

### **NO\_ENTITY\_CONFIG\_DELETE\_ENTITY\_CONFIG**

ID: WSFederation-40

Level: INFO

Description: Entity config doesn't exist while deleting entity config.

Data: Entity ID, Realm or organization name

Triggers: Delete entity config.

Actions: Check debug message for detailed error.

### **ENTITY\_CONFIG\_DELETED**

ID: WSFederation-41

Level: INFO

Description: Entity config was deleted.

Data: Entity ID, Realm or organization name

Triggers: Delete entity config.

### **CONFIG\_ERROR\_DELETE\_ENTITY\_CONFIG**

ID: WSFederation-42

Level: INFO

Description: Configuration error while deleting entity config.

Data: Error message, Entity ID, Realm or organization name

Triggers: Delete entity config.

Actions: Check debug message for detailed error.

### **CONFIG\_ERROR\_GET\_ALL\_HOSTED\_ENTITIES**

ID: WSFederation-43

Level: INFO

Description: Configuration error while getting all hosted entities.

Data: Error message, Realm or organization name

Triggers: Get all hosted entities.

Actions: Check debug message for detailed error.

### **GOT\_ALL\_HOSTED\_ENTITIES**

ID: WSFederation-44

Level: FINE

Description: Obtained all hosted entities.

Data: Realm or organization name

Triggers: Get all hosted entities.

### **CONFIG\_ERROR\_GET\_ALL\_REMOTE\_ENTITIES**

ID: WSFederation-45

Level: INFO

Description: Configuration error while getting all remote entities.

Data: Error message, Realm or organization name

Triggers: Get all remote entities.

Actions: Check debug message for detailed error.

### **GOT\_ALL\_REMOTE\_ENTITIES**

ID: WSFederation-46

Level: FINE

Description: Obtained all remote entities.

Data: Error message, Realm or organization name

Triggers: Get all remote entities.

### **CONFIG\_ERROR\_GET\_ALL\_ENTITIES**

ID: WSFederation-47

Level: INFO

Description: Configuration error while getting all entities.

Data: Error message, Realm or organization name

Triggers: Get all entities.

Actions: Check debug message for detailed error.

### **GOT\_ALL\_ENTITIES**

ID: WSFederation-48

Level: FINE

Description: Obtained all entities.



Data: Realm or organization name

Triggers: Get all entities.

### **ASSERTION\_CREATED**

ID: WSFederation-49

Level: INFO

Description: Assertion created successfully.

Data: Assertion or assertion ID

Triggers: Creation of WS-Federation IdP Signin Response.

### **NO\_ACS\_URL**

ID: WSFederation-50

Level: INFO

Description: Could not find an Assertion Consumer Service URL.

Data: Realm or organization name, Service provider ID, Reply URL

Triggers: No ACS URL in configuration.; ACS URL provided in request not found in configuration.

Actions: Check configuration for service provider.

### **SLO\_SUCCESSFUL**

ID: WSFederation-51

Level: INFO

Description: Single logout completed successfully.

Data: Reply URL

Triggers: Successful single logout.

OpenAM logs the following WebServicesSecurity messages.

### **UNSUPPORTED\_TOKEN\_TYPE**

ID: WebServicesSecurity-1

Level: INFO

Description: Unsupported Token Type sent to STS for Security Token creation.

Data: Token Type sent by client to STS

Triggers: Invalid or unsupported token type sent by client to STS.

Actions: Check the Token Type sent by client to STS.

### **CREATED\_SAML11\_ASSERTION**

ID: WebServicesSecurity-2

Level: INFO

Description: Successfully created SAML 1.1 assertion by STS.

Data: Assertion ID, Issuer of this SAML assertion, Service Provider for which this Assertion is created or applies to, Confirmation Method, Token Type, Key Type

Triggers: Valid parameters sent by client to STS to create SAML assetion.

### **CREATED\_SAML20\_ASSERTION**

ID: WebServicesSecurity-3

Level: INFO

Description: Successfully created SAML 2.0 assertion by STS.

Data: Assertion ID, Issuer of this SAML assertion, Service Provider for which this Assertion is created or applies to, Confirmation Method, Token Type, Key Type

Triggers: Valid parameters sent by client to STS to create SAML assetion.

### **ERROR\_SIGNING\_SAML\_ASSERTION**

ID: WebServicesSecurity-4

Level: INFO

Description: Error during signing SAML assertion by STS.

Data: Actual Error message

Triggers: Problem in STS's Certificate or Private key.

Actions: Check the certificate of STS.; Check the Private Key of STS.

### **ERROR\_CREATING\_SAML11\_ASSERTION**

ID: WebServicesSecurity-5

Level: INFO

Description: Error during creation of SAML 1.1 Assertion by STS.

Data: Actual Error message

Triggers: Invalid parameters sent to create SAML 1.1 Assertion.

Actions: Check all the parameters sent to create SAML 1.1 Assertion.

### **ERROR\_CREATING\_SAML20\_ASSERTION**

ID: WebServicesSecurity-6

Level: INFO

Description: Error during creation of SAML 2.0 Assertion by STS.

Data: Actual Error message

Triggers: Invalid parameters sent to create SAML 2.0 Assertion.

Actions: Check all the parameters sent to create SAML 2.0 Assertion.

### **IDENTITY\_SUBJECT\_NAME**

ID: WebServicesSecurity-7

Level: INFO

Description: Security token being created for this Identity.

Data: Subject or Identity of the token

### **ATTR\_MAP\_FOR\_SP**

ID: WebServicesSecurity-8

Level: INFO

Description: Security token being created with this Attribute Map for Service Provider.

Data: Attribute Map required by Service Provider

Triggers: Service Provider needs Attributes to be populated in Security token.

### **SUCCESS\_VALIDATE\_REQUEST**

ID: WebServicesSecurity-9

Level: INFO

Description: Successfully validated the incoming SOAP request.

Data: Provider name to identify the STS service or WSP profile, Security Mechanism or authentication token sent by client

### **REQUEST\_TO\_BE\_VALIDATED**

ID: WebServicesSecurity-10

Level: FINE

Description: Incoming SOAP request to be validated.

Data: Complete SOAP request

### **RESPONSE\_TO\_BE\_SECURED**

ID: WebServicesSecurity-11

Level: FINE

Description: Outgoing SOAP response to be secured.

Data: Complete SOAP response

### **SUCCESS\_SECURE\_RESPONSE**

ID: WebServicesSecurity-12

Level: INFO

Description: Successfully secured the outgoing SOAP response.

Data: Provider name to identify the STS service or WSP profile

### **REQUEST\_TO\_BE\_SECURED**

ID: WebServicesSecurity-13

Level: FINE

Description: Outgoing SOAP request to be secured.

Data: Complete SOAP request

### **SUCCESS\_SECURE\_REQUEST**

ID: WebServicesSecurity-14

Level: INFO

Description: Successfully secured the outgoing SOAP request.

Data: Provider name to identify the STS client or WSC profile, Security Mechanism or authentication token sent by client

### **RESPONSE\_TO\_BE\_VALIDATED**

ID: WebServicesSecurity-15

Level: FINE

Description: Incoming SOAP response to be validated.

Data: Complete SOAP response

### **SUCCESS\_VALIDATE\_RESPONSE**

ID: WebServicesSecurity-16

Level: INFO

Description: Successfully validated the incoming SOAP response.

Data: Provider name to identify the STS client or WSC profile

### **AUTHENTICATION\_FAILED**

ID: WebServicesSecurity-17

Level: INFO

Description: Authentication of the incoming SOAP request failed at server or WSP.

Data: Security Mechanism or Security token sent by client

Triggers: Invalid Security Mechanism or Security token sent by client.

Actions: Check Security Mechanism or Security token sent by client.

### **ERROR\_PARSING\_SOAP\_HEADERS**

ID: WebServicesSecurity-18

Level: INFO

Description: Error in parsing SOAP headers from incoming SOAP request.

Data: Actual error message

Triggers: Client has sent incorrect SOAP headers.

Actions: Check SOAP headers.

### **ERROR\_ADDING\_SECURITY\_HEADER**

ID: WebServicesSecurity-19

Level: INFO

Description: Error in adding Security header in outgoing SOAP request.

Data: Actual error message

Triggers: Error in adding namespaces or creating Security Header element.

Actions: Check namespaces and Security Header.

**SIGNATURE\_VALIDATION\_FAILED**

ID: WebServicesSecurity-20

Level: INFO

Description: Signature validation failed in incoming SOAP request / response.

Data: Actual error message

Triggers: Error in signing request / response by client / server.

Actions: Check keystore and certificate used for signing.

**UNABLE\_TO\_SIGN**

ID: WebServicesSecurity-21

Level: INFO

Description: Unable to sign SOAP request or response.

Data: Actual error message

Triggers: Error in retrieving certificate from the keystore.

Actions: Check keystore configuration and certificate used for signing.; Check debug file for detailed info.

**UNABLE\_TO\_ENCRYPT**

ID: WebServicesSecurity-22

Level: INFO

Description: Unable to encrypt SOAP request or response.

Data: Actual error message

Triggers: Error in retrieving certificate from the keystore.

Actions: Check keystore configuration and certificate used for encryption.; Check debug file for detailed info.

**UNABLE\_TO\_DECRYPT**

ID: WebServicesSecurity-23

Level: INFO

Description: Unable to decrypt SOAP request or response.

Data: Actual error message

Triggers: Error in retrieving certificate from the keystore.

Actions: Check keystore configuration and certificate used for decryption.; Check debug file for detailed info.

### **SUCCESS\_RETRIEVING\_TOKEN\_FROM\_STS**

ID: WebServicesSecurity-24

Level: INFO

Description: Successfully retrieved Security Token from STS service.

Data: Web Service Provider end point for which Security Token being generated, Security Token Service end point to which STS client talks to, Security Token Service MEX end point address, End user credential (if "null" then the Identity of the generated Security token is Web Service Client, else it is owned by Authenticated End user), Key Type, Token Type

Triggers: All the required input data parameters are correct.

### **ERROR\_RETRIEVING\_TOKEN\_FROM\_STS**

ID: WebServicesSecurity-25

Level: INFO

Description: Error in retrieving Security Token from STS service.

Data: Actual error message

Triggers: Some or more required input data parameters are not correct.

Actions: Check all the required input data parameters.; Check debug file for detailed error.

### **ERROR\_RETRIEVING\_TOKEN\_FROM\_STS**

ID: WebServicesSecurity-26

Level: SEVERE

Description: Error in retrieving Security Token from STS service.

Data: Actual error message

Triggers: Some or more required input data parameters are not correct.

Actions: Check all the required input data parameters.; Check debug file for detailed error.

### **ERROR\_CREATING\_SAML11\_ASSERTION**

ID: WebServicesSecurity-27

Level: SEVERE

Description: Error during creation of SAML 1.1 Assertion by STS.

Data: Actual Error message

Triggers: Invalid parameters sent to create SAML 1.1 Assertion.

Actions: Check all the parameters sent to create SAML 1.1 Assertion.; Check debug file for detailed error.

## **ERROR\_CREATING\_SAML20\_ASSERTION**

ID: WebServicesSecurity-28

Level: SEVERE

Description: Error during creation of SAML 2.0 Assertion by STS.

Data: Actual Error message

Triggers: Invalid parameters sent to create SAML 2.0 Assertion.

Actions: Check all the parameters sent to create SAML 2.0 Assertion.; Check debug file for detailed error.

OpenAM logs the following AUTHENTICATION messages.

## **LOGIN\_SUCCESS**

ID: AUTHENTICATION-100

Level: INFO

Description: Authentication is Successful

Data: message, no session

Triggers: User authenticated with valid credentials

## **LOGIN\_SUCCESS\_USER**

ID: AUTHENTICATION-101

Level: INFO

Description: User based authentication is successful

Data: message, authentication type, user name, no session

Triggers: User authenticated with valid credentials

## **LOGIN\_SUCCESS\_ROLE**

ID: AUTHENTICATION-102



Level: INFO

Description: Role based authentication is successful

Data: message, authentication type, role name, no session

Triggers: User belonging to role authenticated with valid credentials

### **LOGIN\_SUCCESS\_SERVICE**

ID: AUTHENTICATION-103

Level: INFO

Description: Service based authentication is successful

Data: message, authentication type, service name, no session

Triggers: User authenticated with valid credentials to a configured service under realm

### **LOGIN\_SUCCESS\_LEVEL**

ID: AUTHENTICATION-104

Level: INFO

Description: Authentication level based authentication is successful

Data: message, authentication type, authentication level value, no session

Triggers: User authenticated with valid credentials to one or more authentication modules having authentication level value greater than or equal to specified authentication level

### **LOGIN\_SUCCESS\_MODULE\_INSTANCE**

ID: AUTHENTICATION-105

Level: INFO

Description: Module based authentication is successful

Data: message, authentication type, module name, no session

Triggers: User authenticated with valid credentials to authentication module under realm

### **LOGIN\_FAILED**

ID: AUTHENTICATION-200

Level: INFO

Description: Authentication Failed

Data: error message

Triggers: Incorrect/invalid credentials presented; User locked out/not active

Actions: Enter correct/valid credentials to required authentication module

### **LOGIN\_FAILED\_INVALIDPASSWORD**

ID: AUTHENTICATION-201

Level: INFO

Description: Authentication Failed

Data: error message

Triggers: Invalid credentials entered.

Actions: Enter the correct password.

### **LOGIN\_FAILED\_NOCONFIG**

ID: AUTHENTICATION-202

Level: INFO

Description: Authentication Failed

Data: error message

Triggers: Named Configuration (Auth Chain) does not exist.

Actions: Create and configure a named config for this org.

### **LOGIN\_FAILED\_NOUSERPROFILE**

ID: AUTHENTICATION-203

Level: INFO

Description: Authentication Failed

Data: error message

Triggers: No user profile found for this user.

Actions: User does not exist in the datastore plugin configured and hence configure the datastore plugin for this realm/org correctly.

### **LOGIN\_FAILED\_USERINACTIVE**

ID: AUTHENTICATION-204

Level: INFO

Description: Authentication Failed

Data: error message

Triggers: This user is not active.

Actions: Activate the user.

### **LOGIN\_FAILED\_LOCKEDOUT**

ID: AUTHENTICATION-205

Level: INFO

Description: Authentication Failed

Data: error message

Triggers: Max number of failure attempts exceeded. User is Locked out.

Actions: Contact system administrator.

### **LOGIN\_FAILED\_ACCOUNTEXPIRED**

ID: AUTHENTICATION-206

Level: INFO

Description: Authentication Failed

Data: error message

Triggers: User account has expired.

Actions: Contact system administrator.

### **LOGIN\_FAILED\_LOGINTIMEOUT**

ID: AUTHENTICATION-207

Level: INFO

Description: Authentication Failed

Data: error message

Triggers: Login timed out.

Actions: Try to login again.

### **LOGIN\_FAILED\_MODULEDENIED**

ID: AUTHENTICATION-208

Level: INFO

Description: Authentication Failed

Data: error message

Triggers: Authentication module is denied.

Actions: Configure this module or use some other module.

#### **LOGIN\_FAILED\_MAXSESSIONREACHED**

ID: AUTHENTICATION-209

Level: INFO

Description: Authentication Failed

Data: error message

Triggers: Limit for maximum number of allowed session has been reached.

Actions: Logout of a session or increase the limit.

#### **LOGIN\_FAILED\_INVALIDDOMAIN**

ID: AUTHENTICATION-210

Level: INFO

Description: Authentication Failed

Data: error message

Triggers: Org/Realm does not exists.

Actions: Use a valid Org/Realm.

#### **LOGIN\_FAILED\_ORGINACTIVE**

ID: AUTHENTICATION-211

Level: INFO

Description: Authentication Failed

Data: error message

Triggers: Org/Realm is not active.

Actions: Activate the Org/Realm.

#### **LOGIN\_FAILED\_SESSIONCREATEERROR**

ID: AUTHENTICATION-212

Level: INFO

Description: Authentication Failed

Data: error message

Triggers: Cannot create a session.

Actions: Ensure that session service is configured and maxsession is not reached.

### **LOGIN\_FAILED\_USER**

ID: AUTHENTICATION-213

Level: INFO

Description: User based authentication failed

Data: error message, authentication type, user name

Triggers: No authentication configuration (chain of one or more authentication modules) configured for user; Incorrect/invalid credentials presented; User locked out/not active

Actions: Configure authentication configuration (chain of one or more authentication modules) for user; Enter correct/valid credentials to required authentication module

### **LOGIN\_FAILED\_USER\_INVALIDPASSWORD**

ID: AUTHENTICATION-214

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, user name

Triggers: User based Auth. Invalid credentials entered.

Actions: Enter the correct password.

### **LOGIN\_FAILED\_USER\_NOCONFIG**

ID: AUTHENTICATION-215

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, user name

Triggers: Named Configuration (Auth Chain) does not exist for this user

Actions: Create and configure a named config for this user

**LOGIN\_FAILED\_USER\_NOUSERPROFILE**

ID: AUTHENTICATION-216

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, user name

Triggers: User based Auth. No user profile found for this user.

Actions: User does not exist in the datastore plugin configured and hence configure the datastore plugin for this realm/org correctly.

**LOGIN\_FAILED\_USER\_USERINACTIVE**

ID: AUTHENTICATION-217

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, user name

Triggers: User based Auth. This user is not active.

Actions: Activate the user.

**LOGIN\_FAILED\_USER\_LOCKEDOUT**

ID: AUTHENTICATION-218

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, user name

Triggers: User based Auth. Max number of failure attempts exceeded. User is Locked out.

Actions: Contact system administrator.

**LOGIN\_FAILED\_USER\_ACCOUNTEXPIRED**

ID: AUTHENTICATION-219

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, user name

Triggers: User based Auth. User account has expired.

Actions: Contact system administrator.

**LOGIN\_FAILED\_USER\_LOGINTIMEOUT**

ID: AUTHENTICATION-220

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, user name

Triggers: User based Auth. Login timed out.

Actions: Try to login again.

**LOGIN\_FAILED\_USER\_MODULEDENIED**

ID: AUTHENTICATION-221

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, user name

Triggers: User based Auth. Authentication module is denied.

Actions: Configure this module or use some other module.

**LOGIN\_FAILED\_USER\_MAXSESSIONREACHED**

ID: AUTHENTICATION-222

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, user name

Triggers: User based auth. Limit for maximum number of allowed session has been reached.

Actions: Logout of a session or increase the limit.

**LOGIN\_FAILED\_USER\_INVALIDDOMAIN**

ID: AUTHENTICATION-223

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, user name

Triggers: User based auth. Org/Realm does not exists.

Actions: Use a valid Org/Realm.

### **LOGIN\_FAILED\_USER\_ORGINACTIVE**

ID: AUTHENTICATION-224

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, user name

Triggers: User based auth. Org/Realm is not active.

Actions: Activate the Org/Realm.

### **LOGIN\_FAILED\_USER\_SESSIONCREATEERROR**

ID: AUTHENTICATION-225

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, user name

Triggers: User based auth. Cannot create a session.

Actions: Ensure that session service is configured and maxsession is not reached.

### **LOGIN\_FAILED\_ROLE**

ID: AUTHENTICATION-226

Level: INFO

Description: Role based authentication failed

Data: error message, authentication type, role name

Triggers: No authentication configuration (chain of one or more authentication modules) configured for role; Incorrect/invalid credentials presented; User does not belong to this role; User locked out/not active

Actions: Configure authentication configuration (chain of one or more authentication modules) for role; Enter correct/valid credentials to required authentication module; Assign this role to the authenticating user

### **LOGIN\_FAILED\_ROLE\_INVALIDPASSWORD**

ID: AUTHENTICATION-227



Level: INFO

Description: Authentication Failed

Data: error message, authentication type, role name

Triggers: Role based Auth. Invalid credentials entered.

Actions: Enter the correct password.

### **LOGIN\_FAILED\_ROLE\_NOCONFIG**

ID: AUTHENTICATION-228

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, role name

Triggers: Named Configuration (Auth Chain) does not exist for this role.

Actions: Create and configure a named config for this role.

### **LOGIN\_FAILED\_ROLE\_NOUSERPROFILE**

ID: AUTHENTICATION-229

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, role name

Triggers: Role based Auth. No user profile found for this user.

Actions: User does not exist in the datastore plugin configured and hence configure the datastore plugin for this realm/org correctly.

### **LOGIN\_FAILED\_ROLE\_USERINACTIVE**

ID: AUTHENTICATION-230

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, role name

Triggers: Role based Auth. This user is not active.

Actions: Activate the user.

**LOGIN\_FAILED\_ROLE\_LOCKEDOUT**

ID: AUTHENTICATION-231

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, role name

Triggers: Role based Auth. Max number of failure attempts exceeded. User is Locked out.

Actions: Contact system administrator.

**LOGIN\_FAILED\_ROLE\_ACCOUNTEXPIRED**

ID: AUTHENTICATION-232

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, role name

Triggers: Role based Auth. User account has expired.

Actions: Contact system administrator.

**LOGIN\_FAILED\_ROLE\_LOGINTIMEOUT**

ID: AUTHENTICATION-233

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, role name

Triggers: Role based Auth. Login timed out.

Actions: Try to login again.

**LOGIN\_FAILED\_ROLE\_MODULEDENIED**

ID: AUTHENTICATION-234

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, role name

Triggers: Role based Auth. Authentication module is denied.

Actions: Configure this module or use some other module.

**LOGIN\_FAILED\_ROLE\_MAXSESSIONREACHED**

ID: AUTHENTICATION-235

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, role name

Triggers: Role based auth. Limit for maximum number of allowed session has been reached.

Actions: Logout of a session or increase the limit.

**LOGIN\_FAILED\_ROLE\_INVALIDDOMAIN**

ID: AUTHENTICATION-236

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, role name

Triggers: Role based auth. Org/Realm does not exists.

Actions: Use a valid Org/Realm.

**LOGIN\_FAILED\_ROLE\_ORGINACTIVE**

ID: AUTHENTICATION-237

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, role name

Triggers: Role based auth. Org/Realm is not active.

Actions: Activate the Org/Realm.

**LOGIN\_FAILED\_ROLE\_SESSIONCREATEERROR**

ID: AUTHENTICATION-238

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, role name

Triggers: Role based auth. Cannot create a session.

Actions: Ensure that session service is configured and maxsession is not reached.

### **LOGIN\_FAILED\_ROLE\_USERNOTFOUND**

ID: AUTHENTICATION-239

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, role name

Triggers: Role based auth. User does not belong to this role.

Actions: Add the user to this role.

### **LOGIN\_FAILED\_SERVICE**

ID: AUTHENTICATION-240

Level: INFO

Description: Service based authentication failed

Data: error message, authentication type, service name

Triggers: No authentication configuration (chain of one or more authentication modules) configured for service; Incorrect/invalid credentials presented; User locked out/not active

Actions: Configure authentication configuration (chain of one or more authentication modules) for service; Enter correct/valid credentials to required authentication module

### **LOGIN\_FAILED\_SERVICE\_INVALIDPASSWORD**

ID: AUTHENTICATION-241

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, service name

Triggers: Service based Auth. Invalid credentials entered.

Actions: Enter the correct password.

### **LOGIN\_FAILED\_SERVICE\_NOCONFIG**

ID: AUTHENTICATION-242

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, service name

Triggers: Named Configuration (Auth Chain) does not exist with this service name.

Actions: Create and configure a named config.

#### **LOGIN\_FAILED\_SERVICE\_NOUSERPROFILE**

ID: AUTHENTICATION-243

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, service name

Triggers: Service based Auth. No user profile found for this user.

Actions: User does not exist in the datastore plugin configured and hence configure the datastore plugin for this realm/org correctly.

#### **LOGIN\_FAILED\_SERVICE\_USERINACTIVE**

ID: AUTHENTICATION-244

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, service name

Triggers: Service based Auth. This user is not active.

Actions: Activate the user.

#### **LOGIN\_FAILED\_SERVICE\_LOCKEDOUT**

ID: AUTHENTICATION-245

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, service name

Triggers: Service based Auth. Max number of failure attempts exceeded. User is Locked out.

Actions: Contact system administrator.

#### **LOGIN\_FAILED\_SERVICE\_ACCOUNTEXPIRED**

ID: AUTHENTICATION-246

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, service name

Triggers: Service based Auth. User account has expired.

Actions: Contact system administrator.

### **LOGIN\_FAILED\_SERVICE\_LOGINTIMEOUT**

ID: AUTHENTICATION-247

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, service name

Triggers: Service based Auth. Login timed out.

Actions: Try to login again.

### **LOGIN\_FAILED\_SERVICE\_MODULEDENIED**

ID: AUTHENTICATION-248

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, service name

Triggers: Service based Auth. Authentication module is denied.

Actions: Configure this module or use some other module.

### **LOGIN\_FAILED\_SERVICE\_NOSERVICE**

ID: AUTHENTICATION-249

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, service name

Triggers: Service based Auth. Service does not exist.

Actions: Please use only valid Service.

### **LOGIN\_FAILED\_SERVICE\_MAXSESSIONREACHED**

ID: AUTHENTICATION-250

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, service name

Triggers: Service based auth. Limit for maximum number of allowed session has been reached.

Actions: Logout of a session or increase the limit.

### **LOGIN\_FAILED\_SERVICE\_INVALIDDOMAIN**

ID: AUTHENTICATION-251

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, service name

Triggers: Service based auth. Org/Realm does not exists.

Actions: Use a valid Org/Realm.

### **LOGIN\_FAILED\_SERVICE\_ORGINACTIVE**

ID: AUTHENTICATION-252

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, service name

Triggers: Service based auth. Org/Realm is not active.

Actions: Activate the Org/Realm.

### **LOGIN\_FAILED\_SERVICE\_SESSIONCREATEERROR**

ID: AUTHENTICATION-253

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, service name

Triggers: Service based auth. Cannot create a session.

Actions: Ensure that session service is configured and maxsession is not reached.

### **LOGIN\_FAILED\_LEVEL**

ID: AUTHENTICATION-254

Level: INFO

Description: Authentication level based authentication failed

Data: error message, authentication type, authentication level value

Triggers: There are no authentication module(s) having authentication level value greater than or equal to specified authentication level; Incorrect/invalid credentials presented to one or more authentication modules having authentication level greater than or equal to specified authentication level; User locked out/not active

Actions: Configure one or more authentication modules having authentication level value greater than or equal to required authentication level; Enter correct/valid credentials to one or more authentication modules having authentication level greater than or equal to specified authentication level

### **LOGIN\_FAILED\_LEVEL\_INVALIDPASSWORD**

ID: AUTHENTICATION-255

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, authentication level value

Triggers: Level based Auth. Invalid credentials entered.

Actions: Enter the correct password.

### **LOGIN\_FAILED\_LEVEL\_NOCONFIG**

ID: AUTHENTICATION-256

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, authentication level value

Triggers: Level based Auth. No Auth Configuration available.

Actions: Create an auth configuration.

### **LOGIN\_FAILED\_LEVEL\_NOUSERPROFILE**

ID: AUTHENTICATION-257

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, authentication level value



Triggers: Level based Auth. No user profile found for this user.

Actions: User does not exist in the datastore plugin configured and hence configure the datastore plugin for this realm/org correctly.

#### **LOGIN\_FAILED\_LEVEL\_USERINACTIVE**

ID: AUTHENTICATION-258

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, authentication level value

Triggers: Level based Auth. This user is not active.

Actions: Activate the user.

#### **LOGIN\_FAILED\_LEVEL\_LOCKEDOUT**

ID: AUTHENTICATION-259

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, authentication level value

Triggers: Level based Auth. Max number of failure attempts exceeded. User is Locked out.

Actions: Contact system administrator.

#### **LOGIN\_FAILED\_LEVEL\_ACCOUNTEXPIRED**

ID: AUTHENTICATION-260

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, authentication level value

Triggers: Level based Auth. User account has expired.

Actions: Contact system administrator.

#### **LOGIN\_FAILED\_LEVEL\_LOGINTIMEOUT**

ID: AUTHENTICATION-261

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, authentication level value

Triggers: Level based Auth. Login timed out.

Actions: Try to login again.

#### **LOGIN\_FAILED\_LEVEL\_MODULEDENIED**

ID: AUTHENTICATION-262

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, authentication level value

Triggers: Level based Auth. Authentication module is denied.

Actions: Configure this module or use some other module.

#### **LOGIN\_FAILED\_LEVEL\_INCORRECTLEVEL**

ID: AUTHENTICATION-263

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, authentication level value

Triggers: Level based Auth. Invalid Authg Level.

Actions: Please specify valid auth level.

#### **LOGIN\_FAILED\_LEVEL\_MAXSESSIONREACHED**

ID: AUTHENTICATION-264

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, authentication level value

Triggers: Level based auth. Limit for maximum number of allowed session has been reached.

Actions: Logout of a session or increase the limit.

#### **LOGIN\_FAILED\_LEVEL\_INVALIDDOMAIN**

ID: AUTHENTICATION-265

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, authentication level value

Triggers: Level based auth. Org/Realm does not exists.

Actions: Use a valid Org/Realm.

### **LOGIN\_FAILED\_LEVEL\_ORGINACTIVE**

ID: AUTHENTICATION-266

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, authentication level value

Triggers: Level based auth. Org/Realm is not active.

Actions: Activate the Org/Realm.

### **LOGIN\_FAILED\_LEVEL\_SESSIONCREATEERROR**

ID: AUTHENTICATION-267

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, authentication level value

Triggers: Level based auth. Cannot create a session.

Actions: Ensure that session service is configured and maxsession is not reached.

### **LOGIN\_FAILED\_MODULE\_INSTANCE**

ID: AUTHENTICATION-268

Level: INFO

Description: Module based authentication failed

Data: error message, authentication type, module name

Triggers: Module is not registered/configured under realm; Incorrect/invalid credentials presented; User locked out/not active

Actions: Register/configure authentication module under realm; Enter correct/valid credentials to authentication module

**LOGIN\_FAILED\_MODULE\_INSTANCE\_INVALIDPASSWORD**

ID: AUTHENTICATION-269

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, module name

Triggers: Module based Auth. Invalid credentials entered.

Actions: Enter the correct password.

**LOGIN\_FAILED\_MODULE\_INSTANCE\_NOUSERPROFILE**

ID: AUTHENTICATION-270

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, module name

Triggers: Module based Auth. No user profile found for this user.

Actions: User does not exist in the datastore plugin configured and hence configure the datastore plugin for this realm/org correctly.

**LOGIN\_FAILED\_MODULE\_INSTANCE\_USERINACTIVE**

ID: AUTHENTICATION-271

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, module name

Triggers: Module based Auth. This user is not active.

Actions: Activate the user.

**LOGIN\_FAILED\_MODULE\_INSTANCE\_LOCKEDOUT**

ID: AUTHENTICATION-272

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, module name

Triggers: Module based Auth. Max number of failure attempts exceeded. User is Locked out.

Actions: Contact system administrator.

#### **LOGIN\_FAILED\_MODULE\_INSTANCE\_ACCOUNTEXPIRED**

ID: AUTHENTICATION-273

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, module name

Triggers: Module based Auth. User account has expired.

Actions: Contact system administrator.

#### **LOGIN\_FAILED\_MODULE\_INSTANCE\_LOGINTIMEOUT**

ID: AUTHENTICATION-274

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, module name

Triggers: Module based Auth. Login timed out.

Actions: Try to login again.

#### **LOGIN\_FAILED\_MODULE\_INSTANCE\_MODULEDENIED**

ID: AUTHENTICATION-275

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, module name

Triggers: Module based Auth. Authentication module is denied.

Actions: Configure this module or use some other module.

#### **LOGIN\_FAILED\_MODULE\_INSTANCE\_MAXSESSIONREACHED**

ID: AUTHENTICATION-276

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, module name

Triggers: Module based auth. Limit for maximum number of allowed session has been reached.

Actions: Logout of a session or increase the limit.

### **LOGIN\_FAILED\_MODULE\_INSTANCE\_INVALIDDOMAIN**

ID: AUTHENTICATION-277

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, module name

Triggers: Module based auth. Org/Realm does not exists.

Actions: Use a valid Org/Realm.

### **LOGIN\_FAILED\_MODULE\_INSTANCE\_ORGINACTIVE**

ID: AUTHENTICATION-278

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, module name

Triggers: Module based auth. Org/Realm is not active.

Actions: Activate the Org/Realm.

### **LOGIN\_FAILED\_MODULE\_INSTANCE\_SESSIONCREATEERROR**

ID: AUTHENTICATION-279

Level: INFO

Description: Authentication Failed

Data: error message, authentication type, module name

Triggers: Module based auth. Cannot create a session.

Actions: Ensure that session service is configured and maxsession is not reached.

### **LOGOUT**

ID: AUTHENTICATION-300

Level: INFO

Description: User logout is Successful

Data: message

Triggers: User logged out

## **LOGOUT\_USER**

ID: AUTHENTICATION-301

Level: INFO

Description: User logout is successful from user based authentication

Data: message, authentication type, user name

Triggers: User logged out

## **LOGOUT\_ROLE**

ID: AUTHENTICATION-302

Level: INFO

Description: User logout is successful from role based authentication

Data: message, authentication type, role name

Triggers: User belonging to this role logged out

## **LOGOUT\_SERVICE**

ID: AUTHENTICATION-303

Level: INFO

Description: User logout is successful from service based authentication

Data: message, authentication type, service name

Triggers: User logged out of a configured service under realm

## **LOGOUT\_LEVEL**

ID: AUTHENTICATION-304

Level: INFO

Description: User logout is successful from authentication level based authentication

Data: message, authentication type, authentication level value

Triggers: User logged out of one or more authentication modules having authentication level value greater than or equal to specified authentication level

**LOGOUT\_MODULE\_INSTANCE**

ID: AUTHENTICATION-305

Level: INFO

Description: User logout is successful from module based authentication

Data: message, authentication type, module name

Triggers: User logged out of authentication module under realm

**CHANGE\_USER\_PASSWORD\_FAILED**

ID: AUTHENTICATION-306

Level: INFO

Description: Change user password failed

Data: error message

Triggers: Change user password in authentication screen due to directory server password policy.

Actions: Enter password which meets directory server password policy

**CHANGE\_USER\_PASSWORD\_SUCCEEDED**

ID: AUTHENTICATION-307

Level: INFO

Description: Changing user password succeeded

Data: message

Triggers: Change user password in authentication screen due to directory server password policy.

**CREATE\_USER\_PROFILE\_FAILED**

ID: AUTHENTICATION-308

Level: INFO

Description: Create user password failed

Data: error message, user name

Triggers: Create new user in Membership module

Actions: Make sure password entered meets directory server password policy

OpenAM logs the following AMCLI messages.



**ATTEMPT\_LOGIN**

ID: AMCLI-1

Level: INFO

Description: Attempt to login to execute the commandline.

Data: user ID

Triggers: Run the Commandline tool.

**SUCCEED\_LOGIN**

ID: AMCLI-2

Level: INFO

Description: Login to execute the commandline.

Data: user ID

Triggers: Run the Commandline tool.

**FAILED\_LOGIN**

ID: AMCLI-3

Level: INFO

Description: Failed to login.

Data: user ID, error message

Triggers: Run the Commandline tool.

Actions: Check your user ID and password.; Look under debug file for more information.

**ATTEMPT\_LOAD\_SCHEMA**

ID: AMCLI-20

Level: INFO

Description: Attempt to load schema to data store.

Data: XML file name

Triggers: Load Schema through Commandline interface.

**SUCCESS\_LOAD\_SCHEMA**

ID: AMCLI-21

Level: INFO

Description: Schema is loaded to data store.

Data: XML file name

Triggers: Load Schema through Commandline interface.

### **FAILED\_LOAD\_SCHEMA**

ID: AMCLI-22

Level: SEVERE

Description: Schema is not loaded to data store.

Data: XML file name, error message

Triggers: Load Schema through Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_DELETE\_SERVICE**

ID: AMCLI-30

Level: INFO

Description: Attempt to delete service from data store.

Data: service name

Triggers: Delete Service through Commandline interface.

### **SUCCESS\_DELETE\_SERVICE**

ID: AMCLI-31

Level: INFO

Description: Deleted service from data store.

Data: service name

Triggers: Delete Service through Commandline interface.

### **FAILED\_DELETE\_SERVICE**

ID: AMCLI-32

Level: SEVERE

Description: Schema is not loaded to data store.

Data: service name, error message

Triggers: Delete Service Schema through Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_ADD\_ATTRIBUTE\_SCHEMA**

ID: AMCLI-40

Level: INFO

Description: Attempt to attribute schema to an existing service.

Data: service name, schema type, XML file name

Triggers: Add attribute schema through Commandline interface.

### **SUCCESS\_ADD\_ATTRIBUTE\_SCHEMA**

ID: AMCLI-41

Level: INFO

Description: Added attribute schema to existing service.

Data: service name, schema type, XML file name

Triggers: Add attribute schema through Commandline interface.

### **FAILED\_ADD\_ATTRIBUTE\_SCHEMA**

ID: AMCLI-42

Level: SEVERE

Description: Attribute schema is not added to existing service.

Data: service name, schema type, XML file name, error message

Triggers: Add attribute schema through Commandline interface.

Actions: Check the service name, schema type and XML file.; Look under debug file for more information.

### **ATTEMPT\_ADD\_RESOURCE\_BUNDLE**

ID: AMCLI-50

Level: INFO

Description: Attempt to add resource bundle to data store.

Data: resource bundle name, file name, locale

Triggers: Add Resource Bundle through Commandline interface.

### **SUCCEED\_ADD\_RESOURCE\_BUNDLE**

ID: AMCLI-51

Level: INFO

Description: Resource bundle is added to data store.

Data: resource bundle name, file name, locale

Triggers: Add Resource Bundle through Commandline interface.

### **FAILED\_ADD\_RESOURCE\_BUNDLE**

ID: AMCLI-52

Level: SEVERE

Description: Failed to add resource bundle to data store.

Data: resource bundle name, file name, locale, error message

Triggers: SDK for adding resource bundle failed.

Actions: Look under debug file for more information.

### **ATTEMPT\_GET\_RESOURCE\_BUNDLE**

ID: AMCLI-60

Level: INFO

Description: Attempt to get resource bundle from data store.

Data: resource bundle name, locale

Triggers: Get Resource Bundle through Commandline interface.

### **SUCCEED\_GET\_RESOURCE\_BUNDLE**

ID: AMCLI-61

Level: INFO

Description: Resource bundle retrieved from data store.

Data: resource bundle name, locale

Triggers: Get Resource Bundle through Commandline interface.

**FAILED\_GET\_RESOURCE\_BUNDLE**

ID: AMCLI-62

Level: SEVERE

Description: Failed to get resource bundle from data store.

Data: resource bundle name, locale, error message

Triggers: SDK for getting resource bundle failed.

Actions: Look under debug file for more information.

**ATTEMPT\_DELETE\_RESOURCE\_BUNDLE**

ID: AMCLI-70

Level: INFO

Description: Attempt to delete resource bundle from data store.

Data: resource bundle name, locale

Triggers: Delete Resource Bundle through Commandline interface.

**SUCCEED\_DELETE\_RESOURCE\_BUNDLE**

ID: AMCLI-71

Level: INFO

Description: Resource bundle deleted from data store.

Data: resource bundle name, locale

Triggers: Delete Resource Bundle through Commandline interface.

**FAILED\_DELETE\_RESOURCE\_BUNDLE**

ID: AMCLI-72

Level: SEVERE

Description: Failed to delete resource bundle from data store.

Data: resource bundle name, locale, error message

Triggers: SDK for deleting resource bundle failed.

Actions: Look under debug file for more information.

**ATTEMPT\_SESSION\_DESTROY**

ID: AMCLI-100

Level: INFO

Description: Attempt to destroy Session destroyed

Data: name of user

Triggers: Administrator invalidates session via Commandline interface.

### **SUCCEED\_SESSION\_DESTROY**

ID: AMCLI-101

Level: INFO

Description: Session destroyed

Data: name of user

Triggers: Administrator invalidates session via Commandline interface.

### **FAILED\_SESSION\_DESTROY**

ID: AMCLI-102

Level: SEVERE

Description: Failed to destroy session

Data: name of user, error message

Triggers: Session cannot be destroyed.

Actions: Look under debug file for more information.

### **ATTEMPT\_MIGRATION\_ENTRY**

ID: AMCLI-1000

Level: INFO

Description: Attempt to migration organization to realm/

Data: distinguished name of organization

Triggers: Migration Commandline interface.

### **SUCCEED\_MIGRATION\_ENTRY**

ID: AMCLI-1001

Level: INFO

Description: Migration completed.

Data: distinguished name of organization

Triggers: Migration Commandline interface.

### **ATTEMPT\_DELETE\_REALM**

ID: AMCLI-2000

Level: INFO

Description: Attempt to delete realm/

Data: name of realm, recursive

Triggers: Delete realm command through Commandline interface.

### **SUCCEED\_DELETE\_REALM**

ID: AMCLI-2001

Level: INFO

Description: Realm deleted.

Data: name of realm, recursive

Triggers: Delete realm command through Commandline interface.

### **FAILED\_DELETE\_REALM**

ID: AMCLI-2002

Level: INFO

Description: Failed to delete realm.

Data: name of realm, recursive, error message

Triggers: Delete realm command through Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_CREATE\_REALM**

ID: AMCLI-2010

Level: INFO

Description: Attempt to create realm/

Data: name of realm

Triggers: Create realm command through Commandline interface.

**SUCCEED\_CREATE\_REALM**

ID: AMCLI-2011

Level: INFO

Description: Realm created.

Data: name of realm

Triggers: Create realm command through Commandline interface.

**FAILED\_CREATE\_REALM**

ID: AMCLI-2012

Level: INFO

Description: Failed to create realm.

Data: name of realm, error message

Triggers: Create realm command through Commandline interface.

Actions: Look under debug file for more information.

**ATTEMPT\_SEARCH\_REALM**

ID: AMCLI-3020

Level: INFO

Description: Attempt to search for realms by name.

Data: name of realm, search pattern, recursive

Triggers: Search realms command through Commandline interface.

**SUCCEED\_SEARCH\_REALM**

ID: AMCLI-3021

Level: INFO

Description: Completed searching for realms.

Data: name of realm, search pattern, recursive

Triggers: Search realms command through Commandline interface.

**FAILED\_SEARCH\_REALM**

ID: AMCLI-3022



Level: INFO

Description: Search for realms failed.

Data: name of realm, search pattern, recursive, error message

Triggers: Search realms command through Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_GET\_ASSIGNABLE\_SERVICES\_OF\_REALM**

ID: AMCLI-2020

Level: INFO

Description: Attempt to get assignable services of realm.

Data: name of realm

Triggers: Execute get assignable services of realm Commandline interface.

### **SUCCEED\_GET\_ASSIGNABLE\_SERVICES\_OF\_REALM**

ID: AMCLI-2021

Level: INFO

Description: Assignable services command is serviced.

Data: name of realm

Triggers: Execute get assignable services of realm Commandline interface.

### **FAILED\_GET\_ASSIGNABLE\_SERVICES\_OF\_REALM**

ID: AMCLI-2022

Level: INFO

Description: Unable to get assignable services of realm.

Data: name of realm, error message

Triggers: Execute get assignable services of realm Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_GET\_ASSIGNED\_SERVICES\_OF\_REALM**

ID: AMCLI-2030

Level: INFO

Description: Attempt to get services assigned to a realm.

Data: name of realm, include mandatory services

Triggers: Execute get services assigned to realm Commandline interface.

### **SUCCEED\_GET\_ASSIGNED\_SERVICES\_OF\_REALM**

ID: AMCLI-2031

Level: INFO

Description: Assignable services command is serviced.

Data: name of realm, include mandatory services

Triggers: Execute get services assigned to realm Commandline interface.

### **FAILED\_GET\_ASSIGNED\_SERVICES\_OF\_REALM**

ID: AMCLI-2032

Level: INFO

Description: Unable to get services assigned to realm.

Data: name of realm, include mandatory services, error message

Triggers: Execute get services assigned to realm Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_ASSIGN\_SERVICE\_TO\_REALM**

ID: AMCLI-2040

Level: INFO

Description: Attempt to assign service to a realm.

Data: name of realm, name of service

Triggers: Execute assign service to realm Commandline interface.

### **SUCCEED\_ASSIGN\_SERVICE\_TO\_REALM**

ID: AMCLI-2041

Level: INFO

Description: Service is assigned to realm.

Data: name of realm, name of service

Triggers: Execute assign service to realm Commandline interface.

### **FAILED\_ASSIGN\_SERVICE\_TO\_REALM**

ID: AMCLI-2042

Level: INFO

Description: Unable to assign service to realm.

Data: name of realm, name of service, error message

Triggers: Execute assign service to realm Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_UNASSIGN\_SERVICE\_FROM\_REALM**

ID: AMCLI-2050

Level: INFO

Description: Attempt to unassign service from a realm.

Data: name of realm, name of service

Triggers: Execute unassign service from realm Commandline interface.

### **SUCCEED\_UNASSIGN\_SERVICE\_FROM\_REALM**

ID: AMCLI-2051

Level: INFO

Description: Service is unassigned from realm.

Data: name of realm, name of service

Triggers: Execute unassign service from realm Commandline interface.

### **FAILED\_UNASSIGN\_SERVICE\_FROM\_REALM**

ID: AMCLI-2052

Level: INFO

Description: Unable to unassign service from realm.

Data: name of realm, name of service, error message

Triggers: Execute unassign service from realm Commandline interface.

Actions: Look under debug file for more information.

**ATTEMPT\_GET\_REALM\_SERVICE\_ATTR\_VALUES**

ID: AMCLI-2060

Level: INFO

Description: Attempt to get service attribute values from a realm.

Data: name of realm, name of service

Triggers: Execute get service attribute values from realm Commandline interface.

**SUCCEED\_GET\_REALM\_SERVICE\_ATTR\_VALUES**

ID: AMCLI-2061

Level: INFO

Description: Service attribute values of realm is returned.

Data: name of realm, name of service

Triggers: Execute get service attribute values from realm Commandline interface.

**FAILED\_GET\_REALM\_SERVICE\_ATTR\_VALUES**

ID: AMCLI-2062

Level: INFO

Description: Unable to get service attribute values of realm.

Data: name of realm, name of service, error message

Triggers: Execute get service attribute values from realm Commandline interface.

Actions: Look under debug file for more information.

**ATTEMPT\_REMOVE\_REALM\_ATTRIBUTE**

ID: AMCLI-2070

Level: INFO

Description: Attempt to remove attribute from a realm.

Data: name of realm, name of service, name of attribute

Triggers: Execute remove attribute from realm Commandline interface.

**SUCCEED\_REMOVE\_REALM\_ATTRIBUTE**

ID: AMCLI-2071

Level: INFO

Description: Attribute of realm is removed.

Data: name of realm, name of service, name of attribute

Triggers: Execute remove attribute from realm Commandline interface.

### **FAILED\_REMOVE\_REALM\_ATTRIBUTE**

ID: AMCLI-2072

Level: INFO

Description: Unable to remove attribute from realm.

Data: name of realm, name of service, name of attribute, error message

Triggers: Execute remove attribute from realm Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_MODIFY\_SERVICE\_REALM**

ID: AMCLI-2080

Level: INFO

Description: Attempt to modify service of realm.

Data: name of realm, name of service

Triggers: Execute modify service of realm Commandline interface.

### **SUCCEED\_MODIFY\_SERVICE\_REALM**

ID: AMCLI-2081

Level: INFO

Description: Attribute of realm is modified.

Data: name of realm, name of service

Triggers: Execute modify service of realm Commandline interface.

### **FAILED\_MODIFY\_SERVICE\_REALM**

ID: AMCLI-2082

Level: INFO

Description: Unable to modify service of realm.

Data: name of realm, name of service, error message

Triggers: Execute modify service of realm Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_ADD\_ATTR\_VALUES\_REALM**

ID: AMCLI-2090

Level: INFO

Description: Attempt to add attribute value to realm.

Data: name of realm, name of service, name of attribute

Triggers: Execute add attribute values to realm Commandline interface.

### **SUCCEED\_ADD\_ATTR\_VALUES\_REALM**

ID: AMCLI-2091

Level: INFO

Description: Attribute values is added to realm.

Data: name of realm, name of service, name of attribute

Triggers: Execute add attribute values to realm Commandline interface.

### **FAILED\_ADD\_ATTR\_VALUES\_REALM**

ID: AMCLI-2092

Level: INFO

Description: Unable to add attribute values to realm.

Data: name of realm, name of service, name of attribute, error message

Triggers: Execute add attribute values to realm Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_SET\_ATTR\_VALUES\_REALM**

ID: AMCLI-2100

Level: INFO

Description: Attempt to set attribute value to realm.

Data: name of realm, name of service

Triggers: Execute set attribute values to realm Commandline interface.

### **SUCCEED\_SET\_ATTR\_VALUES\_REALM**

ID: AMCLI-2101

Level: INFO

Description: Attribute values is set to realm.

Data: name of realm, name of service

Triggers: Execute set attribute values to realm Commandline interface.

### **FAILED\_SET\_ATTR\_VALUES\_REALM**

ID: AMCLI-2102

Level: INFO

Description: Unable to set attribute values to realm.

Data: name of realm, name of service, error message

Triggers: Execute set attribute values to realm Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_REMOVE\_SCHEMA\_ATTR\_DEFAULTS**

ID: AMCLI-2110

Level: INFO

Description: Attempt to remove schema attribute defaults.

Data: name of service, schema type, name of sub schema, name of attribute

Triggers: Execute remove schema attribute defaults Commandline interface.

### **SUCCEED\_REMOVE\_SCHEMA\_ATTR\_DEFAULTS**

ID: AMCLI-2111

Level: INFO

Description: Schema attribute defaults is removed.

Data: name of service, schema type, name of sub schema, name of attribute

Triggers: Execute remove schema attribute defaults Commandline interface.

### **FAILED\_REMOVE\_SCHEMA\_ATTR\_DEFAULTS**

ID: AMCLI-2112

Level: INFO

Description: Unable to remove schema attribute defaults.

Data: name of service, schema type, name of sub schema, name of attribute, error message

Triggers: Execute remove schema attribute defaults Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_ADD\_SCHEMA\_ATTR\_DEFAULTS**

ID: AMCLI-2120

Level: INFO

Description: Attempt to add schema attribute defaults.

Data: name of service, schema type, name of sub schema, name of attribute

Triggers: Execute add schema attribute defaults Commandline interface.

### **SUCCEED\_ADD\_SCHEMA\_ATTR\_DEFAULTS**

ID: AMCLI-2121

Level: INFO

Description: Schema attribute defaults is added.

Data: name of service, schema type, name of sub schema, name of attribute

Triggers: Execute add schema attribute defaults Commandline interface.

### **FAILED\_ADD\_SCHEMA\_ATTR\_DEFAULTS**

ID: AMCLI-2122

Level: INFO

Description: Unable to add schema attribute defaults.

Data: name of service, schema type, name of sub schema, name of attribute, error message

Triggers: Execute add schema attribute defaults Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_GET\_SCHEMA\_ATTR\_DEFAULTS**

ID: AMCLI-2130

Level: INFO



Description: Attempt to get schema attribute defaults.

Data: name of service, schema type, name of sub schema

Triggers: Execute get schema attribute defaults Commandline interface.

### **SUCCEED\_GET\_SCHEMA\_ATTR\_DEFAULTS**

ID: AMCLI-2131

Level: INFO

Description: Schema attribute defaults is returned.

Data: name of service, schema type, name of sub schema

Triggers: Execute get schema attribute defaults Commandline interface.

### **FAILED\_GET\_SCHEMA\_ATTR\_DEFAULTS**

ID: AMCLI-2132

Level: INFO

Description: Unable to get schema attribute defaults.

Data: name of service, schema type, name of sub schema, error message

Triggers: Execute get schema attribute defaults Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_SET\_SCHEMA\_ATTR\_DEFAULTS**

ID: AMCLI-2140

Level: INFO

Description: Attempt to set schema attribute defaults.

Data: name of service, schema type, name of sub schema

Triggers: Execute set schema attribute defaults Commandline interface.

### **SUCCEED\_SET\_SCHEMA\_ATTR\_DEFAULTS**

ID: AMCLI-2141

Level: INFO

Description: Schema attribute defaults is set.

Data: name of service, schema type, name of sub schema

Triggers: Execute set schema attribute defaults Commandline interface.

### **FAILED\_SET\_SCHEMA\_ATTR\_DEFAULTS**

ID: AMCLI-2142

Level: INFO

Description: Unable to set schema attribute defaults.

Data: name of service, schema type, name of sub schema, error message

Triggers: Execute set schema attribute defaults Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_ADD\_ATTRIBUTE\_SCHEMA\_CHOICE\_VALUES**

ID: AMCLI-2150

Level: INFO

Description: Attempt to add choice value to attribute schema.

Data: name of service, schema type, name of sub schema, name of attribute schema

Triggers: Execute add attribute schema choice values Commandline interface.

### **SUCCEED\_ADD\_ATTRIBUTE\_SCHEMA\_CHOICE\_VALUES**

ID: AMCLI-2151

Level: INFO

Description: Choice values are added.

Data: name of service, schema type, name of sub schema, name of attribute schema

Triggers: Execute add attribute schema choice values Commandline interface.

### **FAILED\_ADD\_ATTRIBUTE\_SCHEMA\_CHOICE\_VALUES**

ID: AMCLI-2152

Level: INFO

Description: Unable to add choice value to attribute schema.

Data: name of service, schema type, name of sub schema, name of attribute schema, error message

Triggers: Execute add attribute schema choice values Commandline interface.

Actions: Look under debug file for more information.

#### **ATTEMPT\_GET\_ATTRIBUTE\_SCHEMA\_CHOICE\_VALUES**

ID: AMCLI-2155

Level: INFO

Description: Attempt to get choice value to attribute schema.

Data: name of service, schema type, name of sub schema, name of attribute schema

Triggers: Execute get attribute schema choice values Commandline interface.

#### **SUCCEED\_GET\_ATTRIBUTE\_SCHEMA\_CHOICE\_VALUES**

ID: AMCLI-2156

Level: INFO

Description: Choice values are listed.

Data: name of service, schema type, name of sub schema, name of attribute schema

Triggers: Execute get attribute schema choice values Commandline interface.

#### **FAILED\_GET\_ATTRIBUTE\_SCHEMA\_CHOICE\_VALUES**

ID: AMCLI-2157

Level: INFO

Description: Unable to get choice value to attribute schema.

Data: name of service, schema type, name of sub schema, name of attribute schema, error message

Triggers: Execute get attribute schema choice values Commandline interface.

Actions: Look under debug file for more information.

#### **ATTEMPT\_REMOVE\_ATTRIBUTE\_SCHEMA\_CHOICE\_VALUE**

ID: AMCLI-2160

Level: INFO

Description: Attempt to remove choice value from attribute schema.

Data: name of service, schema type, name of sub schema, name of attribute schema

Triggers: Execute remove attribute schema choice values Commandline interface.

**SUCCEED\_REMOVE\_ATTRIBUTE\_SCHEMA\_CHOICE\_VALUE**

ID: AMCLI-2161

Level: INFO

Description: Choice value is removed.

Data: name of service, schema type, name of sub schema, name of attribute schema

Triggers: Execute remove attribute schema choice values Commandline interface.

**FAILED\_REMOVE\_ATTRIBUTE\_SCHEMA\_CHOICE\_VALUE**

ID: AMCLI-2162

Level: INFO

Description: Unable to remove choice value to attribute schema.

Data: name of service, schema type, name of sub schema, name of attribute schema, error message

Triggers: Execute remove attribute schema choice values Commandline interface.

Actions: Look under debug file for more information.

**ATTEMPT\_MODIFY\_ATTRIBUTE\_SCHEMA\_TYPE**

ID: AMCLI-2170

Level: INFO

Description: Attempt to modify attribute schema type.

Data: name of service, schema type, name of sub schema, name of attribute schema, attribute schema type

Triggers: Execute modify attribute schema type Commandline interface.

**SUCCEED\_MODIFY\_ATTRIBUTE\_SCHEMA\_TYPE**

ID: AMCLI-2171

Level: INFO

Description: Attribute schema type is modified.

Data: name of service, schema type, name of sub schema, name of attribute schema, attribute schema type

Triggers: Execute modify attribute schema type Commandline interface.

**FAILED\_MODIFY\_ATTRIBUTE\_SCHEMA\_TYPE**

ID: AMCLI-2172

Level: INFO

Description: Unable to modify attribute schema type.

Data: name of service, schema type, name of sub schema, name of attribute schema, attribute schema type, error message

Triggers: Execute modify attribute schema type Commandline interface.

Actions: Look under debug file for more information.

**ATTEMPT\_MODIFY\_ATTRIBUTE\_SCHEMA\_UI\_TYPE**

ID: AMCLI-2180

Level: INFO

Description: Attempt to modify attribute schema UI type.

Data: name of service, schema type, name of sub schema, name of attribute schema, attribute schema UI type

Triggers: Execute modify attribute schema UI type Commandline interface.

**SUCCEED\_MODIFY\_ATTRIBUTE\_SCHEMA\_UI\_TYPE**

ID: AMCLI-2181

Level: INFO

Description: Attribute schema UI type is modified.

Data: name of service, schema type, name of sub schema, name of attribute schema, attribute schema UI type

Triggers: Execute modify attribute schema UI type Commandline interface.

**FAILED\_MODIFY\_ATTRIBUTE\_SCHEMA\_UI\_TYPE**

ID: AMCLI-2182

Level: INFO

Description: Unable to modify attribute schema UI type.

Data: name of service, schema type, name of sub schema, name of attribute schema, attribute schema UI type, error message

Triggers: Execute modify attribute schema UI type Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_MODIFY\_ATTRIBUTE\_SCHEMA\_SYNTAX**

ID: AMCLI-2190

Level: INFO

Description: Attempt to modify attribute schema syntax.

Data: name of service, schema type, name of sub schema, name of attribute schema, attribute schema syntax

Triggers: Execute modify attribute schema syntax Commandline interface.

### **SUCCEEDED\_MODIFY\_ATTRIBUTE\_SCHEMA\_SYNTAX**

ID: AMCLI-2191

Level: INFO

Description: Attribute schema syntax is modified.

Data: name of service, schema type, name of sub schema, name of attribute schema, attribute schema syntax

Triggers: Execute modify attribute schema syntax Commandline interface.

### **FAILED\_MODIFY\_ATTRIBUTE\_SCHEMA\_SYNTAX**

ID: AMCLI-2192

Level: INFO

Description: Unable to modify attribute schema syntax.

Data: name of service, schema type, name of sub schema, name of attribute schema, attribute schema syntax, error message

Triggers: Execute modify attribute schema syntax Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_MODIFY\_ATTRIBUTE\_SCHEMA\_I18N\_KEY**

ID: AMCLI-2200

Level: INFO

Description: Attempt to modify attribute schema i18n Key.

Data: name of service, schema type, name of sub schema, name of attribute schema, attribute schema i18n Key

Triggers: Execute modify attribute schema i18n Key Commandline interface.

### **SUCCEED\_MODIFY\_ATTRIBUTE\_SCHEMA\_I18N\_KEY**

ID: AMCLI-2201

Level: INFO

Description: Attribute schema i18n Key is modified.

Data: name of service, schema type, name of sub schema, name of attribute schema, attribute schema i18n Key

Triggers: Execute modify attribute schema i18n Key Commandline interface.

### **FAILED\_MODIFY\_ATTRIBUTE\_SCHEMA\_I18N\_KEY**

ID: AMCLI-2202

Level: INFO

Description: Unable to modify attribute schema i18n Key.

Data: name of service, schema type, name of sub schema, name of attribute schema, attribute schema i18n Key, error message

Triggers: Execute modify attribute schema i18n Key Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_MODIFY\_ATTRIBUTE\_SCHEMA\_PROPERTIES\_VIEW\_BEAN\_URL**

ID: AMCLI-2210

Level: INFO

Description: Attempt to modify attribute schema properties view bean URL.

Data: name of service, schema type, name of sub schema, name of attribute schema, attribute schema properties view bean URL

Triggers: Execute modify attribute schema properties view bean URL Commandline interface.

### **SUCCEED\_MODIFY\_ATTRIBUTE\_SCHEMA\_PROPERTIES\_VIEW\_BEAN\_URL**

ID: AMCLI-2211

Level: INFO

Description: Attribute schema properties view bean URL is modified.

Data: name of service, schema type, name of sub schema, name of attribute schema, attribute schema properties view bean URL

Triggers: Execute modify attribute schema properties view bean URL Commandline interface.

#### **FAILED\_MODIFY\_ATTRIBUTE\_SCHEMA\_PROPERTIES\_VIEW\_BEAN\_URL**

ID: AMCLI-2212

Level: INFO

Description: Unable to modify attribute schema properties view bean URL.

Data: name of service, schema type, name of sub schema, name of attribute schema, attribute schema properties view bean URL, error message

Triggers: Execute modify attribute schema properties view bean URL Commandline interface.

Actions: Look under debug file for more information.

#### **ATTEMPT\_MODIFY\_ATTRIBUTE\_SCHEMA\_ANY**

ID: AMCLI-2220

Level: INFO

Description: Attempt to modify attribute schema any value.

Data: name of service, schema type, name of sub schema, name of attribute schema, attribute schema any

Triggers: Execute modify attribute schema any Commandline interface.

#### **SUCCEEDED\_MODIFY\_ATTRIBUTE\_SCHEMA\_ANY**

ID: AMCLI-2221

Level: INFO

Description: Attribute schema any value is modified.

Data: name of service, schema type, name of sub schema, name of attribute schema, attribute schema any

Triggers: Execute modify attribute schema any Commandline interface.

#### **FAILED\_MODIFY\_ATTRIBUTE\_SCHEMA\_ANY**

ID: AMCLI-2222

Level: INFO

Description: Unable to modify attribute schema any value.

Data: name of service, schema type, name of sub schema, name of attribute schema, attribute schema any, error message



Triggers: Execute modify attribute schema any Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_REMOVE\_ATTRIBUTE\_SCHEMA\_DEFAULT\_VALUE**

ID: AMCLI-2230

Level: INFO

Description: Attempt to remove attribute schema default value.

Data: name of service, schema type, name of sub schema, name of attribute schema, default value to be removed

Triggers: Execute remove attribute schema default values Commandline interface.

### **SUCCEED\_REMOVE\_ATTRIBUTE\_SCHEMA\_DEFAULT\_VALUE**

ID: AMCLI-2231

Level: INFO

Description: Attribute schema default value is removed.

Data: name of service, schema type, name of sub schema, name of attribute schema, default value to be removed

Triggers: Execute remove attribute schema default values Commandline interface.

### **FAILED\_REMOVE\_ATTRIBUTE\_SCHEMA\_DEFAULT\_VALUE**

ID: AMCLI-2232

Level: INFO

Description: Unable to remove attribute schema default value.

Data: name of service, schema type, name of sub schema, name of attribute schema, default value to be removed, error message

Triggers: Execute remove attribute schema default values Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_SET\_ATTRIBUTE\_SCHEMA\_VALIDATOR**

ID: AMCLI-2240

Level: INFO

Description: Attempt to set attribute schema validator.

Data: name of service, schema type, name of sub schema, name of attribute schema, validator

Triggers: Execute set attribute schema validator Commandline interface.

### **SUCCEED\_SET\_ATTRIBUTE\_SCHEMA\_VALIDATOR**

ID: AMCLI-2241

Level: INFO

Description: Attribute schema validator is set.

Data: name of service, schema type, name of sub schema, name of attribute schema, validator

Triggers: Execute set attribute schema validator Commandline interface.

### **FAILED\_SET\_ATTRIBUTE\_SCHEMA\_VALIDATOR**

ID: AMCLI-2242

Level: INFO

Description: Unable to set attribute schema validator.

Data: name of service, schema type, name of sub schema, name of attribute schema, validator, error message

Triggers: Execute set attribute schema validator Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_SET\_ATTRIBUTE\_SCHEMA\_START\_RANGE**

ID: AMCLI-2250

Level: INFO

Description: Attempt to set attribute schema start range.

Data: name of service, schema type, name of sub schema, name of attribute schema, start range

Triggers: Execute set attribute schema start range Commandline interface.

### **SUCCEED\_SET\_ATTRIBUTE\_SCHEMA\_START\_RANGE**

ID: AMCLI-2251

Level: INFO

Description: Attribute schema start range is set.

Data: name of service, schema type, name of sub schema, name of attribute schema, start range

Triggers: Execute set attribute schema start range Commandline interface.

**FAILED\_SET\_ATTRIBUTE\_SCHEMA\_START\_RANGE**

ID: AMCLI-2252

Level: INFO

Description: Unable to set attribute schema start range.

Data: name of service, schema type, name of sub schema, name of attribute schema, start range, error message

Triggers: Execute set attribute schema start range Commandline interface.

Actions: Look under debug file for more information.

**ATTEMPT\_SET\_ATTRIBUTE\_SCHEMA\_END\_RANGE**

ID: AMCLI-2250

Level: INFO

Description: Attempt to set attribute schema end range.

Data: name of service, schema type, name of sub schema, name of attribute schema, end range

Triggers: Execute set attribute schema end range Commandline interface.

**SUCCEED\_SET\_ATTRIBUTE\_SCHEMA\_END\_RANGE**

ID: AMCLI-2251

Level: INFO

Description: Attribute schema end range is set.

Data: name of service, schema type, name of sub schema, name of attribute schema, end range

Triggers: Execute set attribute schema end range Commandline interface.

**FAILED\_SET\_ATTRIBUTE\_SCHEMA\_END\_RANGE**

ID: AMCLI-2252

Level: INFO

Description: Unable to set attribute schema end range.

Data: name of service, schema type, name of sub schema, name of attribute schema, end range, error message

Triggers: Execute set attribute schema end range Commandline interface.

Actions: Look under debug file for more information.

**ATTEMPT\_SET\_SERVICE\_SCHEMA\_I18N\_KEY**

ID: AMCLI-2260

Level: INFO

Description: Attempt to set service schema i18n key.

Data: name of service, i18n key

Triggers: Execute set service schema i18n key Commandline interface.

**SUCCEED\_SET\_SERVICE\_SCHEMA\_I18N\_KEY**

ID: AMCLI-2261

Level: INFO

Description: Service schema i18n key is set.

Data: name of service, i18n key

Triggers: Execute set service schema i18n key Commandline interface.

**FAILED\_SET\_SERVICE\_SCHEMA\_I18N\_KEY**

ID: AMCLI-2262

Level: INFO

Description: Unable to set service schema i18n key.

Data: name of service, i18n key, error message

Triggers: Execute set service schema i18n key Commandline interface.

Actions: Look under debug file for more information.

**ATTEMPT\_SET\_SERVICE\_SCHEMA\_PROPERTIES\_VIEW\_BEAN\_URL**

ID: AMCLI-2270

Level: INFO

Description: Attempt to set service schema properties view bean URL.

Data: name of service, properties view bean URL

Triggers: Execute set service schema properties view bean URL Commandline interface.

**SUCCEED\_SET\_SERVICE\_SCHEMA\_PROPERTIES\_VIEW\_BEAN\_URL**

ID: AMCLI-2271

Level: INFO

Description: Service schema properties view bean URL is set.

Data: name of service, properties view bean URL

Triggers: Execute set service schema properties view bean URL Commandline interface.

#### **FAILED\_SET\_SERVICE\_SCHEMA\_PROPERTIES\_VIEW\_BEAN\_URL**

ID: AMCLI-2272

Level: INFO

Description: Unable to set service schema properties view bean URL.

Data: name of service, properties view bean URL, error message

Triggers: Execute set service schema properties view bean URL Commandline interface.

Actions: Look under debug file for more information.

#### **ATTEMPT\_SET\_SERVICE\_REVISION\_NUMBER**

ID: AMCLI-2280

Level: INFO

Description: Attempt to set service revision number.

Data: name of service, revision number

Triggers: Execute set service revision number Commandline interface.

#### **SUCCEED\_SET\_SERVICE\_REVISION\_NUMBER**

ID: AMCLI-2281

Level: INFO

Description: Service revision number is set.

Data: name of service, revision number

Triggers: Execute set service revision number Commandline interface.

#### **FAILED\_SET\_SERVICE\_REVISION\_NUMBER**

ID: AMCLI-2282

Level: INFO

Description: Unable to set service revision number.

Data: name of service, revision number, error message

Triggers: Execute set service revision number Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_GET\_SERVICE\_REVISION\_NUMBER**

ID: AMCLI-2290

Level: INFO

Description: Attempt to get service revision number.

Data: name of service

Triggers: Execute get service revision number Commandline interface.

### **SUCCEED\_GET\_SERVICE\_REVISION\_NUMBER**

ID: AMCLI-2291

Level: INFO

Description: Service revision number is returned.

Data: name of service

Triggers: Execute get service revision number Commandline interface.

### **FAILED\_GET\_SERVICE\_REVISION\_NUMBER**

ID: AMCLI-2292

Level: INFO

Description: Unable to get service revision number.

Data: name of service, error message

Triggers: Execute get service revision number Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_REMOVE\_ATTRIBUTE\_SCHEMA**

ID: AMCLI-2300

Level: INFO

Description: Attempt to remove attribute schema.

Data: name of service, schema type, name of sub schema, name of attribute schema

Triggers: Execute remove attribute schema Commandline interface.

**SUCCEED\_REMOVE\_ATTRIBUTE\_SCHEMA**

ID: AMCLI-2301

Level: INFO

Description: Attribute schema is removed.

Data: name of service, schema type, name of sub schema, name of attribute schema

Triggers: Execute remove attribute schema Commandline interface.

**FAILED\_REMOVE\_ATTRIBUTE\_SCHEMA**

ID: AMCLI-2302

Level: INFO

Description: Unable to remove attribute schema.

Data: name of service, schema type, name of sub schema, name of attribute schema, error message

Triggers: Execute remove attribute schema Commandline interface.

Actions: Look under debug file for more information.

**ATTEMPT\_ADD\_SUB\_CONFIGURATION**

ID: AMCLI-2310

Level: INFO

Description: Attempt to add sub configuration.

Data: name of sub configuration, name of service

Triggers: Execute add sub configuration Commandline interface.

**SUCCEED\_ADD\_SUB\_CONFIGURATION**

ID: AMCLI-2311

Level: INFO

Description: Sub configuration is added.

Data: name of sub configuration, name of service

Triggers: Execute add sub configuration Commandline interface.

**FAILED\_ADD\_SUB\_CONFIGURATION**

ID: AMCLI-2312

Level: INFO

Description: Unable to add sub configuration.

Data: name of sub configuration, name of service, error message

Triggers: Execute add sub configuration Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_ADD\_SUB\_CONFIGURATION\_TO\_REALM**

ID: AMCLI-2320

Level: INFO

Description: Attempt to add sub configuration to realm.

Data: name of realm, name of sub configuration, name of service

Triggers: Execute add sub configuration Commandline interface.

### **SUCCEED\_ADD\_SUB\_CONFIGURATION\_TO\_REALM**

ID: AMCLI-2321

Level: INFO

Description: Sub configuration is added to realm.

Data: name of realm, name of sub configuration, name of service

Triggers: Execute add sub configuration Commandline interface.

### **FAILED\_ADD\_SUB\_CONFIGURATION\_TO\_REALM**

ID: AMCLI-2322

Level: INFO

Description: Unable to add sub configuration.

Data: name of realm, name of sub configuration, name of service, error message

Triggers: Execute add sub configuration Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_DELETE\_SUB\_CONFIGURATION**

ID: AMCLI-2330

Level: INFO



Description: Attempt to delete sub configuration.

Data: name of sub configuration, name of service

Triggers: Execute delete sub configuration Commandline interface.

### **SUCCEED\_DELETE\_SUB\_CONFIGURATION**

ID: AMCLI-2331

Level: INFO

Description: Sub configuration is deleted.

Data: name of sub configuration, name of service

Triggers: Execute delete sub configuration Commandline interface.

### **FAILED\_ADELETE\_SUB\_CONFIGURATION**

ID: AMCLI-2332

Level: INFO

Description: Unable to delete sub configuration.

Data: name of sub configuration, name of service, error message

Triggers: Execute delete sub configuration Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_DELETE\_SUB\_CONFIGURATION\_TO\_REALM**

ID: AMCLI-2340

Level: INFO

Description: Attempt to delete sub configuration from realm.

Data: name of realm, name of sub configuration, name of service

Triggers: Execute delete sub configuration Commandline interface.

### **SUCCEED\_DELETE\_SUB\_CONFIGURATION\_TO\_REALM**

ID: AMCLI-2341

Level: INFO

Description: Sub configuration is deleted from realm.

Data: name of realm, name of sub configuration, name of service

Triggers: Execute delete sub configuration Commandline interface.

#### **FAILED\_DELETE\_SUB\_CONFIGURATION\_TO\_REALM**

ID: AMCLI-2342

Level: INFO

Description: Unable to delete sub configuration.

Data: name of realm, name of sub configuration, name of service, error message

Triggers: Execute delete sub configuration Commandline interface.

Actions: Look under debug file for more information.

#### **ATTEMPT\_ADD\_SUB\_SCHEMA**

ID: AMCLI-2350

Level: INFO

Description: Attempt to add sub schema.

Data: name of service, schema type, name of sub schema

Triggers: Execute add sub schema Commandline interface.

#### **SUCCEED\_ADD\_SUB\_SCHEMA**

ID: AMCLI-2351

Level: INFO

Description: Sub schema is added.

Data: name of service, schema type, name of sub schema

Triggers: Execute add sub schema Commandline interface.

#### **FAILED\_ADD\_SUB\_SCHEMA**

ID: AMCLI-2352

Level: INFO

Description: Unable to add sub schema.

Data: name of service, schema type, name of sub schema, error message

Triggers: Execute add sub schema configurations Commandline interface.

Actions: Look under debug file for more information.

**ATTEMPT\_REMOVE\_SUB\_SCHEMA**

ID: AMCLI-2360

Level: INFO

Description: Attempt to remove sub schema.

Data: name of service, schema type, name of parent sub schema, name of sub schema

Triggers: Execute remove sub schema Commandline interface.

**SUCCEED\_REMOVE\_SUB\_SCHEMA**

ID: AMCLI-2361

Level: INFO

Description: Sub schema is removed.

Data: name of service, schema type, name of parent sub schema, name of sub schema

Triggers: Execute remove sub schema Commandline interface.

**FAILED\_REMOVE\_SUB\_SCHEMA**

ID: AMCLI-2362

Level: INFO

Description: Unable to remove sub schema.

Data: name of service, schema type, name of parent sub schema, name of sub schema, error message

Triggers: Execute remove sub schema configurations Commandline interface.

Actions: Look under debug file for more information.

**ATTEMPT\_MODIFY\_INHERITANCE\_SUB\_SCHEMA**

ID: AMCLI-2370

Level: INFO

Description: Attempt to modify inheritance of sub schema.

Data: name of service, schema type, name of sub schema

Triggers: Execute modify inheritance of sub schema Commandline interface.

**SUCCEED\_MODIFY\_INHERITANCE\_SUB\_SCHEMA**

ID: AMCLI-2371

Level: INFO

Description: Sub schema is modified.

Data: name of service, schema type, name of sub schema

Triggers: Execute modify inheritance of sub schema Commandline interface.

#### **FAILED\_MODIFY\_INHERITANCE\_SUB\_SCHEMA**

ID: AMCLI-2372

Level: INFO

Description: Unable to modify sub schema.

Data: name of service, schema type, name of sub schema, error message

Triggers: Execute modify inheritance of sub schema configurations Commandline interface.

Actions: Look under debug file for more information.

#### **ATTEMPT\_MODIFY\_SUB\_CONFIGURATION**

ID: AMCLI-2380

Level: INFO

Description: Attempt to modify sub configuration.

Data: name of sub configuration, name of service

Triggers: Execute modify sub configuration Commandline interface.

#### **SUCCEED\_MODIFY\_SUB\_CONFIGURATION**

ID: AMCLI-2381

Level: INFO

Description: Sub configuration is modified.

Data: name of sub configuration, name of service

Triggers: Execute modify sub configuration Commandline interface.

#### **FAILED\_MODIFY\_SUB\_CONFIGURATION**

ID: AMCLI-2382

Level: INFO

Description: Unable to modify sub configuration.

Data: name of sub configuration, name of service, error message

Triggers: Execute modify sub configuration Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_GET\_SUB\_CONFIGURATION**

ID: AMCLI-2383

Level: INFO

Description: Attempt to retrieve sub configuration.

Data: name of sub configuration, name of service

Triggers: Execute get sub configuration Commandline interface.

### **SUCCEED\_GET\_SUB\_CONFIGURATION**

ID: AMCLI-2384

Level: INFO

Description: Sub configuration is retrieved.

Data: name of sub configuration, name of service

Triggers: Execute get sub configuration Commandline interface.

### **FAILED\_GET\_SUB\_CONFIGURATION**

ID: AMCLI-2385

Level: INFO

Description: Unable to retrieve sub configuration.

Data: name of sub configuration, name of service, error message

Triggers: Execute get sub configuration Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_MODIFY\_SUB\_CONFIGURATION\_IN\_REALM**

ID: AMCLI-2390

Level: INFO

Description: Attempt to modify sub configuration in realm.

Data: name of realm, name of sub configuration, name of service

Triggers: Execute modify sub configuration Commandline interface.

### **SUCCEED\_MODIFY\_SUB\_CONFIGURATION\_IN\_REALM**

ID: AMCLI-2391

Level: INFO

Description: Sub configuration is modified.

Data: name of realm, name of sub configuration, name of service

Triggers: Execute modify sub configuration Commandline interface.

### **FAILED\_MODIFY\_SUB\_CONFIGURATION\_IN\_REALM**

ID: AMCLI-2392

Level: INFO

Description: Unable to modify sub configuration in realm.

Data: name of realm, name of sub configuration, name of service, error message

Triggers: Execute modify sub configuration Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_GET\_SUB\_CONFIGURATION\_IN\_REALM**

ID: AMCLI-2393

Level: INFO

Description: Attempt to retrieve sub configuration in realm.

Data: name of realm, name of sub configuration, name of service

Triggers: Execute get sub configuration Commandline interface.

### **SUCCEED\_GET\_SUB\_CONFIGURATION\_IN\_REALM**

ID: AMCLI-2394

Level: INFO

Description: Sub configuration is retrieved.

Data: name of realm, name of sub configuration, name of service

Triggers: Execute get sub configuration Commandline interface.

### **FAILED\_GET\_SUB\_CONFIGURATION\_IN\_REALM**

ID: AMCLI-2395

Level: INFO

Description: Unable to retrieve sub configuration in realm.

Data: name of realm, name of sub configuration, name of service, error message

Triggers: Execute get sub configuration Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_ADD\_PLUGIN\_INTERFACE**

ID: AMCLI-2400

Level: INFO

Description: Attempt to add Plug-in interface to service.

Data: name of service, name of plugin

Triggers: Execute add Plug-in interface Commandline interface.

### **SUCCEED\_ADD\_PLUGIN\_INTERFACE**

ID: AMCLI-2401

Level: INFO

Description: Plug-in interface is added.

Data: name of service, name of plugin

Triggers: Execute add Plug-in interface Commandline interface.

### **FAILED\_ADD\_PLUGIN\_INTERFACE**

ID: AMCLI-2402

Level: INFO

Description: Unable to add Plug-in interface to service.

Data: name of service, name of plugin, error message

Triggers: Execute add Plug-in interface Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_SET\_PLUGIN\_SCHEMA\_PROP\_VIEWBEAN\_URL**

ID: AMCLI-2410

Level: INFO

Description: Attempt to set Plug-in schema's properties view bean.

Data: name of service, name of plugin

Triggers: Execute set Plug-in schema's properties view bean Commandline interface.

#### **SUCCEED\_SET\_PLUGIN\_SCHEMA\_PROP\_VIEWBEAN\_URL**

ID: AMCLI-2411

Level: INFO

Description: Plug-in schema's properties view bean is set.

Data: name of service, name of plugin

Triggers: Execute set Plug-in schema's properties view bean Commandline interface.

#### **FAILED\_SET\_PLUGIN\_SCHEMA\_PROP\_VIEWBEAN\_URL**

ID: AMCLI-2412

Level: INFO

Description: Unable to set Plug-in schema's properties view bean.

Data: name of service, name of plugin, error message

Triggers: Execute set Plug-in schema's properties view bean Commandline interface.

Actions: Look under debug file for more information.

#### **ATTEMPT\_CREATE\_POLICY\_IN\_REALM**

ID: AMCLI-2420

Level: INFO

Description: Attempt to create policies under realm.

Data: name of realm

Triggers: Execute create policies under realm Commandline interface.

#### **SUCCEED\_CREATE\_POLICY\_IN\_REALM**

ID: AMCLI-2421

Level: INFO

Description: Policies are created.

Data: name of realm



Triggers: Execute create policies under realm Commandline interface.

### **FAILED\_CREATE\_POLICY\_IN\_REALM**

ID: AMCLI-2422

Level: INFO

Description: Unable to create policies under realm.

Data: name of realm, error message

Triggers: Execute create policies under realm Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_DELETE\_POLICY\_IN\_REALM**

ID: AMCLI-2430

Level: INFO

Description: Attempt to delete policy in realm.

Data: name of realm, name of policy

Triggers: Execute delete policy in realm Commandline interface.

### **SUCCEED\_DELETE\_POLICY\_IN\_REALM**

ID: AMCLI-2431

Level: INFO

Description: Policy is deleted.

Data: name of realm, name of policy

Triggers: Execute delete policy in realm Commandline interface.

### **FAILED\_DELETE\_POLICY\_IN\_REALM**

ID: AMCLI-2432

Level: INFO

Description: Unable to delete policy under realm.

Data: name of realm, name of policy, error message

Triggers: Execute delete policy under realm Commandline interface.

Actions: Look under debug file for more information.

**ATTEMPT\_TO\_GET\_POLICY\_NAMES\_IN\_REALM**

ID: AMCLI-2433

Level: INFO

Description: Attempt to get policy names in realm.

Data: name of realm

Triggers: Execute get policy names in realm Commandline interface.

**GOT\_POLICY\_NAMES\_IN\_REALM**

ID: AMCLI-2434

Level: INFO

Description: Got policy names in realm.

Data: name of realm

Triggers: Execute get policy names in realm Commandline interface.

**FAILED\_GET\_POLICY\_NAMES\_IN\_REALM**

ID: AMCLI-2435

Level: INFO

Description: Unable to get policy names in realm.

Data: name of realm

Triggers: Execute get policy names in realm Commandline interface.

**ATTEMPT\_GET\_POLICY\_IN\_REALM**

ID: AMCLI-2440

Level: INFO

Description: Attempt to get policy definition in realm.

Data: name of realm, name of policy

Triggers: Execute get policy definition in realm Commandline interface.

**SUCCEED\_GET\_POLICY\_IN\_REALM**

ID: AMCLI-2441

Level: INFO

Description: Policy definition is returned.

Data: name of realm, name of policy

Triggers: Execute get policy definition in realm Commandline interface.

### **FAILED\_GET\_POLICY\_IN\_REALM**

ID: AMCLI-2442

Level: INFO

Description: Unable to get policy definition under realm.

Data: name of realm, name of policy, error message

Triggers: Execute get policy definition under realm Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_CREATE\_IDENTITY**

ID: AMCLI-2450

Level: INFO

Description: Attempt to create an identity in realm.

Data: name of realm, identity type, name of identity

Triggers: Execute create identity in realm Commandline interface.

### **SUCCEED\_CREATE\_IDENTITY**

ID: AMCLI-2451

Level: INFO

Description: Identity is created.

Data: name of realm, identity type, name of identity

Triggers: Execute create identity in realm Commandline interface.

### **FAILED\_CREATE\_IDENTITY**

ID: AMCLI-2452

Level: INFO

Description: Unable to create identity in realm.

Data: name of realm, identity type, name of identity, error message

Triggers: Execute create identity in realm Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_DELETE\_IDENTITY**

ID: AMCLI-2460

Level: INFO

Description: Attempt to delete an identity in realm.

Data: name of realm, identity type, name of identity

Triggers: Execute delete identity in realm Commandline interface.

### **SUCCEED\_DELETE\_IDENTITY**

ID: AMCLI-2461

Level: INFO

Description: Identity is deleted.

Data: name of realm, identity type, name of identity

Triggers: Execute delete identity in realm Commandline interface.

### **FAILED\_DELETE\_IDENTITY**

ID: AMCLI-2462

Level: INFO

Description: Unable to delete identity in realm.

Data: name of realm, identity type, name of identity, error message

Triggers: Execute delete identity in realm Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_SEARCH\_IDENTITIES**

ID: AMCLI-2470

Level: INFO

Description: Attempt to search identities in realm.

Data: name of realm, identity type, search pattern

Triggers: Execute search identities in realm Commandline interface.

### **SUCCEED\_SEARCH\_IDENTITIES**

ID: AMCLI-2471

Level: INFO

Description: Search Result is returned.

Data: name of realm, identity type, search pattern

Triggers: Execute search identities in realm Commandline interface.

### **FAILED\_SEARCH\_IDENTITIES**

ID: AMCLI-2472

Level: INFO

Description: Unable to search identities in realm.

Data: name of realm, identity type, search pattern, error message

Triggers: Execute search identities in realm Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_GET\_ALLOWED\_OPS**

ID: AMCLI-2480

Level: INFO

Description: Attempt to get the allowed operation of an identity type in realm.

Data: name of realm, identity type

Triggers: Execute get the allowed operation of an identity type in realm Commandline interface.

### **SUCCEED\_GET\_ALLOWED\_OPS**

ID: AMCLI-2481

Level: INFO

Description: Allowed operations are returned.

Data: name of realm, identity type

Triggers: Execute get the allowed operation of an identity type in realm Commandline interface.

### **FAILED\_GET\_ALLOWED\_OPS**

ID: AMCLI-2482

Level: INFO

Description: Unable to get the allowed operation of an identity type in realm.

Data: name of realm, identity type, error message

Triggers: Execute get the allowed operation of an identity type in realm Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_GET\_SUPPORTED\_IDTYPES**

ID: AMCLI-2490

Level: INFO

Description: Attempt to get the supported identity type in realm.

Data: name of realm

Triggers: Execute get the supported identity type in realm Commandline interface.

### **SUCCEED\_GET\_SUPPORTED\_IDTYPES**

ID: AMCLI-2491

Level: INFO

Description: Allowed identity types are returned.

Data: name of realm

Triggers: Execute get the supported identity type in realm Commandline interface.

### **FAILED\_GET\_SUPPORTED\_IDTYPES**

ID: AMCLI-2492

Level: INFO

Description: Unable to get the supported identity type in realm.

Data: name of realm, error message

Triggers: Execute get the supported identity type in realm Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_GET\_ASSIGNABLE\_SERVICES**

ID: AMCLI-2500

Level: INFO

Description: Attempt to get the assignable services of an identity.

Data: name of realm, name of identity type, name of identity

Triggers: Execute get the assignable services of an identity Commandline interface.

### **SUCCEED\_GET\_ASSIGNABLE\_SERVICES**

ID: AMCLI-2501

Level: INFO

Description: Assignable services are returned.

Data: name of realm, name of identity type, name of identity

Triggers: Execute get the assignable services of an identity Commandline interface.

### **FAILED\_GET\_ASSIGNABLE\_SERVICES**

ID: AMCLI-2502

Level: INFO

Description: Unable to get the assignable services of an identity.

Data: name of realm, name of identity type, name of identity, error message

Triggers: Execute get the assignable services of an identity Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_GET\_ASSIGNED\_SERVICES**

ID: AMCLI-2510

Level: INFO

Description: Attempt to get the assigned services of an identity.

Data: name of realm, name of identity type, name of identity

Triggers: Execute get the assigned services of an identity Commandline interface.

### **SUCCEED\_GET\_ASSIGNED\_SERVICES**

ID: AMCLI-2511

Level: INFO

Description: Assigned services are returned.

Data: name of realm, name of identity type, name of identity

Triggers: Execute get the assigned services of an identity Commandline interface.

### **FAILED\_GET\_ASSIGNED\_SERVICES**

ID: AMCLI-2512

Level: INFO

Description: Unable to get the assigned services of an identity.

Data: name of realm, name of identity type, name of identity, error message

Triggers: Execute get the assigned services of an identity Commandline interface.

Actions: Look under debug file for more information.

#### **ATTEMPT\_IDREPO\_GET\_SERVICE\_ATTRIBUTES**

ID: AMCLI-2520

Level: INFO

Description: Attempt to get service attribute values of an identity.

Data: name of realm, name of identity type, name of identity, name of service

Triggers: Execute get the service attribute values of an identity Commandline interface.

#### **SUCCEED\_IDREPO\_GET\_SERVICE\_ATTRIBUTES**

ID: AMCLI-2521

Level: INFO

Description: Service attribute values are returned.

Data: name of realm, name of identity type, name of identity, name of service

Triggers: Execute get the service attribute values of an identity Commandline interface.

#### **FAILED\_IDREPO\_GET\_SERVICE\_ATTRIBUTES**

ID: AMCLI-2522

Level: INFO

Description: Unable to get the service attribute values of an identity.

Data: name of realm, name of identity type, name of identity, name of service, error message

Triggers: Execute get the service attribute values of an identity Commandline interface.

Actions: Look under debug file for more information.

#### **ATTEMPT\_IDREPO\_GET\_ATTRIBUTES**

ID: AMCLI-2530

Level: INFO



Description: Attempt to get attribute values of an identity.

Data: name of realm, name of identity type, name of identity

Triggers: Execute get the attribute values of an identity Commandline interface.

### **SUCCEED\_IDREPO\_GET\_ATTRIBUTES**

ID: AMCLI-2531

Level: INFO

Description: Attribute values are returned.

Data: name of realm, name of identity type, name of identity

Triggers: Execute get the attribute values of an identity Commandline interface.

### **FAILED\_IDREPO\_GET\_ATTRIBUTES**

ID: AMCLI-2532

Level: INFO

Description: Unable to get the attribute values of an identity.

Data: name of realm, name of identity type, name of identity, error message

Triggers: Execute get the attribute values of an identity Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_IDREPO\_GET\_MEMBERSHIPS**

ID: AMCLI-2540

Level: INFO

Description: Attempt to get memberships of an identity.

Data: name of realm, name of identity type, name of identity, name of membership identity type

Triggers: Execute get the memberships of an identity Commandline interface.

### **SUCCEED\_IDREPO\_GET\_MEMBERSHIPS**

ID: AMCLI-2541

Level: INFO

Description: Memberships are returned.

Data: name of realm, name of identity type, name of identity, name of membership identity type

Triggers: Execute get the memberships of an identity Commandline interface.

### **FAILED\_IDREPO\_GET\_MEMBERSHIPS**

ID: AMCLI-2542

Level: INFO

Description: Unable to get the memberships of an identity.

Data: name of realm, name of identity type, name of identity, name of membership identity type, error message

Triggers: Execute get the memberships of an identity Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_IDREPO\_GET\_MEMBERS**

ID: AMCLI-2550

Level: INFO

Description: Attempt to get members of an identity.

Data: name of realm, name of identity type, name of identity, name of membership identity type

Triggers: Execute get the members of an identity Commandline interface.

### **SUCCEED\_IDREPO\_GET\_MEMBERS**

ID: AMCLI-2551

Level: INFO

Description: Members are returned.

Data: name of realm, name of identity type, name of identity, name of membership identity type

Triggers: Execute get the members of an identity Commandline interface.

### **FAILED\_IDREPO\_GET\_MEMBERS**

ID: AMCLI-2552

Level: INFO

Description: Unable to get the members of an identity.

Data: name of realm, name of identity type, name of identity, name of membership identity type, error message

Triggers: Execute get the members of an identity Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_IDREPO\_IS\_MEMBER**

ID: AMCLI-2560

Level: INFO

Description: Attempt to determine if an identity is a member of another identity.

Data: name of realm, name of identity type, name of identity, name of member identity type, name of member identity

Triggers: Execute determine if an identity is a member of another identity Commandline interface.

### **SUCCEED\_IDREPO\_IS\_MEMBER**

ID: AMCLI-2561

Level: INFO

Description: Membership is determined.

Data: name of realm, name of identity type, name of identity, name of member identity type, name of member identity

Triggers: Execute determine if an identity is a member of another identity Commandline interface.

### **FAILED\_IDREPO\_IS\_MEMBER**

ID: AMCLI-2562

Level: INFO

Description: Unable to determine the membership of an identity of another.

Data: name of realm, name of identity type, name of identity, name of member identity type, name of member identity, error message

Triggers: Execute determine if an identity is a member of another identity Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_IDREPO\_IS\_ACTIVE**

ID: AMCLI-2570

Level: INFO

Description: Attempt to determine if an identity is active.

Data: name of realm, name of identity type, name of identity

Triggers: Execute determine if an identity is active Commandline interface.

### **SUCCEED\_IDREPO\_IS\_ACTIVE**

ID: AMCLI-2571

Level: INFO

Description: Active status of identity is determined.

Data: name of realm, name of identity type, name of identity

Triggers: Execute determine if an identity is active Commandline interface.

### **FAILED\_IDREPO\_IS\_ACTIVE**

ID: AMCLI-2572

Level: INFO

Description: Unable to determine if an identity is active.

Data: name of realm, name of identity type, name of identity, error message

Triggers: Execute determine if an identity is a active Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_IDREPO\_ADD\_MEMBER**

ID: AMCLI-2580

Level: INFO

Description: Attempt to make an identity a member of another identity.

Data: name of realm, name of identity type, name of identity, name of member identity type, name of member identity

Triggers: Execute make an identity a member of another identity Commandline interface.

### **SUCCEED\_IDREPO\_ADD\_MEMBER**

ID: AMCLI-2581

Level: INFO

Description: Membership is set.

Data: name of realm, name of identity type, name of identity, name of member identity type, name of member identity

Triggers: Execute make an identity a member of another identity Commandline interface.

### **FAILED\_IDREPO\_ADD\_MEMBER**

ID: AMCLI-2582

Level: INFO

Description: Unable to add member of an identity to another.

Data: name of realm, name of identity type, name of identity, name of member identity type, name of member identity, error message

Triggers: Execute make an identity a member of another identity Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_IDREPO\_REMOVE\_MEMBER**

ID: AMCLI-2590

Level: INFO

Description: Attempt to remove membership an identity from another identity.

Data: name of realm, name of identity type, name of identity, name of member identity type, name of member identity

Triggers: Execute remove membership an identity from another identity Commandline interface.

### **SUCCEEDED\_IDREPO\_REMOVE\_MEMBER**

ID: AMCLI-2591

Level: INFO

Description: Membership is removed.

Data: name of realm, name of identity type, name of identity, name of member identity type, name of member identity

Triggers: Execute remove membership an identity from another identity Commandline interface.

### **FAILED\_IDREPO\_REMOVE\_MEMBER**

ID: AMCLI-2592

Level: INFO

Description: Unable to remove membership of an identity.

Data: name of realm, name of identity type, name of identity, name of member identity type, name of member identity, error message

Triggers: Execute remove membership an identity from another identity Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_IDREPO\_ASSIGN\_SERVICE**

ID: AMCLI-2600

Level: INFO

Description: Attempt to assign service to an identity.

Data: name of realm, identity type, name of identity, name of service

Triggers: Execute assign service to an identity Commandline interface.

### **SUCCEED\_IDREPO\_ASSIGN\_SERVICE**

ID: AMCLI-2601

Level: INFO

Description: Service is assigned to an identity.

Data: name of realm, identity type, name of identity, name of service

Triggers: Execute assign service to an identity Commandline interface.

### **FAILED\_IDREPO\_ASSIGN\_SERVICE**

ID: AMCLI-2602

Level: INFO

Description: Unable to assign service to an identity.

Data: name of realm, identity type, name of identity, name of service, error message

Triggers: Execute assign service to an identity Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_IDREPO\_UNASSIGN\_SERVICE**

ID: AMCLI-2610

Level: INFO

Description: Attempt to unassign service from an identity.

Data: name of realm, identity type, name of identity, name of service

Triggers: Execute unassign service from an identity Commandline interface.

**SUCCEED\_IDREPO\_UNASSIGN\_SERVICE**

ID: AMCLI-2611

Level: INFO

Description: Service is unassigned from an identity.

Data: name of realm, identity type, name of identity, name of service

Triggers: Execute unassign service from an identity Commandline interface.

**FAILED\_IDREPO\_UNASSIGN\_SERVICE**

ID: AMCLI-2612

Level: INFO

Description: Unable to unassign service to an identity.

Data: name of realm, identity type, name of identity, name of service, error message

Triggers: Execute unassign service from an identity Commandline interface.

Actions: Look under debug file for more information.

**ATTEMPT\_IDREPO\_MODIFY\_SERVICE**

ID: AMCLI-2620

Level: INFO

Description: Attempt to modify service attribute values of an identity.

Data: name of realm, identity type, name of identity, name of service

Triggers: Execute modify service attribute values of an identity Commandline interface.

**SUCCEED\_IDREPO\_MODIFY\_SERVICE**

ID: AMCLI-2621

Level: INFO

Description: Service attribute values are modified.

Data: name of realm, identity type, name of identity, name of service

Triggers: Execute modify service attribute values of an identity Commandline interface.

**FAILED\_IDREPO\_MODIFY\_SERVICE**

ID: AMCLI-2622

Level: INFO

Description: Unable to modify service attribute values of an identity.

Data: name of realm, identity type, name of identity, name of service, error message

Triggers: Execute modify service attribute values of an identity Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_IDREPO\_SET\_ATTRIBUTE\_VALUES**

ID: AMCLI-2630

Level: INFO

Description: Attempt to set attribute values of an identity.

Data: name of realm, identity type, name of identity

Triggers: Execute set attribute values of an identity Commandline interface.

### **SUCCEED\_IDREPO\_SET\_ATTRIBUTE\_VALUES**

ID: AMCLI-2631

Level: INFO

Description: Attribute values are modified.

Data: name of realm, identity type, name of identity

Triggers: Execute set attribute values of an identity Commandline interface.

### **FAILED\_IDREPO\_SET\_ATTRIBUTE\_VALUES**

ID: AMCLI-2632

Level: INFO

Description: Unable to set attribute values of an identity.

Data: name of realm, identity type, name of identity, error message

Triggers: Execute set attribute values of an identity Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_IDREPO\_GET\_PRIVILEGES**

ID: AMCLI-2640

Level: INFO



Description: Attempt to get privileges of an identity.

Data: name of realm, identity type, name of identity

Triggers: Execute get privileges of an identity Commandline interface.

### **SUCCEED\_IDREPO\_GET\_PRIVILEGES**

ID: AMCLI-2641

Level: INFO

Description: Privileges are returned.

Data: name of realm, identity type, name of identity

Triggers: Execute get privileges of an identity Commandline interface.

### **FAILED\_IDREPO\_GET\_PRIVILEGES**

ID: AMCLI-2642

Level: INFO

Description: Unable to get privileges of an identity.

Data: name of realm, identity type, name of identity, error message

Triggers: Execute get privileges of an identity Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_IDREPO\_ADD\_PRIVILEGES**

ID: AMCLI-2650

Level: INFO

Description: Attempt to add privileges to an identity.

Data: name of realm, identity type, name of identity

Triggers: Execute add privileges to an identity Commandline interface.

### **SUCCEED\_IDREPO\_ADD\_PRIVILEGES**

ID: AMCLI-2651

Level: INFO

Description: Privileges are added.

Data: name of realm, identity type, name of identity

Triggers: Execute add privileges to an identity Commandline interface.

### **FAILED\_IDREPO\_ADD\_PRIVILEGES**

ID: AMCLI-2652

Level: INFO

Description: Unable to add privileges to an identity.

Data: name of realm, identity type, name of identity, error message

Triggers: Execute add privileges to an identity Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_IDREPO\_REMOVE\_PRIVILEGES**

ID: AMCLI-2660

Level: INFO

Description: Attempt to remove privileges from an identity.

Data: name of realm, identity type, name of identity

Triggers: Execute remove privileges from an identity Commandline interface.

### **SUCCEED\_IDREPO\_REMOVE\_PRIVILEGES**

ID: AMCLI-2661

Level: INFO

Description: Privileges are removed.

Data: name of realm, identity type, name of identity

Triggers: Execute remove privileges from an identity Commandline interface.

### **FAILED\_IDREPO\_REMOVE\_PRIVILEGES**

ID: AMCLI-2662

Level: INFO

Description: Unable to remove privileges from an identity.

Data: name of realm, identity type, name of identity, error message

Triggers: Execute remove privileges from an identity Commandline interface.

Actions: Look under debug file for more information.

**ATTEMPT\_SET\_ATTRIBUTE\_SCHEMA\_BOOLEAN\_VALUES**

ID: AMCLI-2670

Level: INFO

Description: Attempt to set boolean values to attribute schema.

Data: name of service, schema type, name of sub schema, name of attribute schema

Triggers: Execute set attribute schema boolean values Commandline interface.

**SUCCEED\_SET\_ATTRIBUTE\_SCHEMA\_BOOLEAN\_VALUES**

ID: AMCLI-2671

Level: INFO

Description: Boolean values are set.

Data: name of service, schema type, name of sub schema, name of attribute schema

Triggers: Execute set attribute schema boolean values Commandline interface.

**FAILED\_SET\_ATTRIBUTE\_SCHEMA\_BOOLEAN\_VALUES**

ID: AMCLI-2672

Level: INFO

Description: Unable to set boolean values to attribute schema.

Data: name of service, schema type, name of sub schema, name of attribute schema, error message

Triggers: Execute set attribute schema boolean values Commandline interface.

Actions: Look under debug file for more information.

**ATTEMPT\_LIST\_AUTH\_INSTANCES**

ID: AMCLI-2680

Level: INFO

Description: Attempt to list authentication instances.

Data: name of realm

Triggers: Execute list authentication instances Commandline interface.

**SUCCEEDED\_LIST\_AUTH\_INSTANCES**

ID: AMCLI-2681

Level: INFO

Description: List authentication instances succeeded.

Data: name of realm

Triggers: Execute list authentication instances Commandline interface.

### **FAILED\_LIST\_AUTH\_INSTANCES**

ID: AMCLI-2682

Level: INFO

Description: Failed to list authentication instances.

Data: name of realm

Triggers: Execute list authentication instances Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_CREATE\_AUTH\_INSTANCE**

ID: AMCLI-2690

Level: INFO

Description: Attempt to create authentication instance.

Data: name of realm, name of authentication instance, type of authentication instance

Triggers: Execute create authentication instance Commandline interface.

### **SUCCEEDED\_CREATE\_AUTH\_INSTANCE**

ID: AMCLI-2691

Level: INFO

Description: Authentication instance created.

Data: name of realm, name of authentication instance, type of authentication instance

Triggers: Execute create authentication instance Commandline interface.

### **FAILED\_CREATE\_AUTH\_INSTANCE**

ID: AMCLI-2692

Level: INFO

Description: Failed to create authentication instance.

Data: name of realm, name of authentication instance, type of authentication instance

Triggers: Execute create authentication instance Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_DELETE\_AUTH\_INSTANCES**

ID: AMCLI-2700

Level: INFO

Description: Attempt to delete authentication instances.

Data: name of realm, name of authentication instances

Triggers: Execute delete authentication instance Commandline interface.

### **SUCCEEDED\_DELETE\_AUTH\_INSTANCES**

ID: AMCLI-2701

Level: INFO

Description: Authentication instances are deleted.

Data: name of realm, name of authentication instances

Triggers: Execute delete authentication instances Commandline interface.

### **FAILED\_DELETE\_AUTH\_INSTANCES**

ID: AMCLI-2702

Level: INFO

Description: Failed to delete authentication instance.

Data: name of realm, name of authentication instances

Triggers: Execute delete authentication instances Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_UPDATE\_AUTH\_INSTANCE**

ID: AMCLI-2710

Level: INFO

Description: Attempt to update authentication instance.

Data: name of realm, name of authentication instance

Triggers: Execute update authentication instance Commandline interface.

### **SUCCEEDED\_UPDATE\_AUTH\_INSTANCE**

ID: AMCLI-2711

Level: INFO

Description: Authentication instance is updated.

Data: name of realm, name of authentication instance

Triggers: Execute update authentication instance Commandline interface.

### **FAILED\_UPDATE\_AUTH\_INSTANCE**

ID: AMCLI-2712

Level: INFO

Description: Failed to update authentication instance.

Data: name of realm, name of authentication instance

Triggers: Execute update authentication instance Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_GET\_AUTH\_INSTANCE**

ID: AMCLI-2710

Level: INFO

Description: Attempt to get authentication instance.

Data: name of realm, name of authentication instance

Triggers: Execute get authentication instance Commandline interface.

### **SUCCEEDED\_GET\_AUTH\_INSTANCE**

ID: AMCLI-2711

Level: INFO

Description: Authentication instance profile is displayed.

Data: name of realm, name of authentication instance

Triggers: Execute get authentication instance Commandline interface.

### **FAILED\_GET\_AUTH\_INSTANCE**

ID: AMCLI-2712

Level: INFO

Description: Failed to get authentication instance.

Data: name of realm, name of authentication instance

Triggers: Execute get authentication instance Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_LIST\_AUTH\_CONFIGURATIONS**

ID: AMCLI-2720

Level: INFO

Description: Attempt to list authentication configurations.

Data: name of realm

Triggers: Execute list authentication configurations Commandline interface.

### **SUCCEEDED\_LIST\_AUTH\_CONFIGURATIONS**

ID: AMCLI-2721

Level: INFO

Description: List authentication configurations succeeded.

Data: name of realm

Triggers: Execute list authentication configurations Commandline interface.

### **FAILED\_LIST\_AUTH\_CONFIGURATIONS**

ID: AMCLI-2722

Level: INFO

Description: Failed to list authentication configurations.

Data: name of realm

Triggers: Execute list authentication configurations Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_CREATE\_AUTH\_CONFIGURATION**

ID: AMCLI-2730

Level: INFO

Description: Attempt to create authentication configuration.

Data: name of realm, name of authentication configuration

Triggers: Execute create authentication configuration Commandline interface.

### **SUCCEEDED\_CREATE\_AUTH\_CONFIGURATION**

ID: AMCLI-2731

Level: INFO

Description: Authentication configuration created.

Data: name of realm, name of authentication configuration

Triggers: Execute create authentication configuration Commandline interface.

### **FAILED\_CREATE\_AUTH\_CONFIGURATION**

ID: AMCLI-2732

Level: INFO

Description: Failed to create authentication configuration.

Data: name of realm, name of authentication configuration

Triggers: Execute create authentication configuration Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_DELETE\_AUTH\_CONFIGURATIONS**

ID: AMCLI-2740

Level: INFO

Description: Attempt to delete authentication configurations.

Data: name of realm, name of authentication configurations

Triggers: Execute delete authentication configurations Commandline interface.

### **SUCCEEDED\_DELETE\_AUTH\_CONFIGURATIONS**

ID: AMCLI-2741

Level: INFO

Description: Authentication configurations are deleted.

Data: name of realm, name of authentication configurations



Triggers: Execute delete authentication configurations Commandline interface.

### **FAILED\_DELETE\_AUTH\_CONFIGURATIONS**

ID: AMCLI-2742

Level: INFO

Description: Failed to delete authentication instance.

Data: name of realm, name of authentication configurations

Triggers: Execute delete authentication configurations Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_GET\_AUTH\_CONFIG\_ENTRIES**

ID: AMCLI-2750

Level: INFO

Description: Attempt to get authentication configuration entries.

Data: name of realm, name of authentication configuration

Triggers: Execute get authentication configuration entries Commandline interface.

### **SUCCEEDED\_GET\_AUTH\_CONFIG\_ENTRIES**

ID: AMCLI-2751

Level: INFO

Description: Authentication instance configuration entries are displayed.

Data: name of realm, name of authentication configuration

Triggers: Execute get authentication configuration entries Commandline interface.

### **FAILED\_GET\_AUTH\_CONFIG\_ENTRIES**

ID: AMCLI-2752

Level: INFO

Description: Failed to get authentication configuration entries.

Data: name of realm, name of authentication configuration

Triggers: Execute get authentication configuration entries Commandline interface.

Actions: Look under debug file for more information.

## **ATTEMPT\_SET\_AUTH\_CONFIG\_ENTRIES**

ID: AMCLI-2760

Level: INFO

Description: Attempt to set authentication configuration entries.

Data: name of realm, name of authentication configuration

Triggers: Execute set authentication configuration entries Commandline interface.

## **SUCCEEDED\_SET\_AUTH\_CONFIG\_ENTRIES**

ID: AMCLI-2761

Level: INFO

Description: Authentication instance configuration entries are displayed.

Data: name of realm, name of authentication configuration

Triggers: Execute set authentication configuration entries Commandline interface.

## **FAILED\_SET\_AUTH\_CONFIG\_ENTRIES**

ID: AMCLI-2762

Level: INFO

Description: Failed to set authentication configuration entries.

Data: name of realm, name of authentication configuration

Triggers: Execute set authentication configuration entries Commandline interface.

Actions: Look under debug file for more information.

## **ATTEMPT\_LIST\_DATASTORES**

ID: AMCLI-2770

Level: INFO

Description: Attempt to list datastores.

Data: name of realm

Triggers: Execute list datastores Commandline interface.

## **SUCCEEDED\_LIST\_DATASTORES**

ID: AMCLI-2771

Level: INFO

Description: List datastores succeeded.

Data: name of realm

Triggers: Execute list datastores Commandline interface.

### **FAILED\_LIST\_DATASTORES**

ID: AMCLI-2772

Level: INFO

Description: Failed to list datastores.

Data: name of realm, error message

Triggers: Execute list datastores Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_CREATE\_DATASTORE**

ID: AMCLI-2780

Level: INFO

Description: Attempt to create datastore.

Data: name of realm, name of datastore, type of datastore

Triggers: Execute create datastore Commandline interface.

### **SUCCEEDED\_CREATE\_DATASTORE**

ID: AMCLI-2781

Level: INFO

Description: Create datastore succeeded.

Data: name of realm, name of datastore, type of datastore

Triggers: Execute create datastore Commandline interface.

### **FAILED\_CREATE\_DATASTORE**

ID: AMCLI-2782

Level: INFO

Description: Failed to create datastore.

Data: name of realm, name of datastore, type of datastore

Triggers: Execute create datastore Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_DELETE\_DATASTORES**

ID: AMCLI-2790

Level: INFO

Description: Attempt to delete datastores.

Data: name of realm, names of datastore

Triggers: Execute delete datastores Commandline interface.

### **SUCCEEDED\_DELETE\_DATASTORES**

ID: AMCLI-2791

Level: INFO

Description: Delete datastores succeeded.

Data: name of realm, names of datastore

Triggers: Execute delete datastores Commandline interface.

### **FAILED\_DELETE\_DATASTORES**

ID: AMCLI-2792

Level: INFO

Description: Failed to delete datastores.

Data: name of realm, names of datastore

Triggers: Execute delete datastore Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_UPDATE\_DATASTORE**

ID: AMCLI-2800

Level: INFO

Description: Attempt to update datastore profile.

Data: name of realm, name of datastore

Triggers: Execute update datastore Commandline interface.

### **SUCCEEDED\_UPDATE\_DATASTORE**

ID: AMCLI-2801

Level: INFO

Description: Update datastore succeeded.

Data: name of realm, name of datastore

Triggers: Execute update datastore Commandline interface.

### **FAILED\_UPDATE\_DATASTORE**

ID: AMCLI-2802

Level: INFO

Description: Failed to update datastore.

Data: name of realm, name of datastore, error message

Triggers: Execute update datastore Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_IMPORT\_SM\_CONFIG\_DATA**

ID: AMCLI-2900

Level: INFO

Description: Attempt to import service management configuration data.

Data: name of file

Triggers: Execute export configuration data Commandline interface.

### **SUCCEEDED\_IMPORT\_SM\_CONFIG\_DATA**

ID: AMCLI-2901

Level: INFO

Description: Import service management configuration data succeeded.

Data: name of file

Triggers: Execute export configuration data Commandline interface.

### **FAILED\_IMPORT\_SM\_CONFIG\_DATA**

ID: AMCLI-2902

Level: INFO

Description: Failed to import service management configuration data.

Data: name of file, error message

Triggers: Execute export configuration data Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_EXPORT\_SM\_CONFIG\_DATA**

ID: AMCLI-3000

Level: INFO

Description: Attempt to export service management configuration data.

Data: name of file

Triggers: Execute export configuration data Commandline interface.

### **SUCCEEDED\_IMPORT\_SM\_CONFIG\_DATA**

ID: AMCLI-3001

Level: INFO

Description: Export service management configuration data succeeded.

Data: name of file

Triggers: Execute export configuration data Commandline interface.

### **FAILED\_EXPORT\_SM\_CONFIG\_DATA**

ID: AMCLI-3002

Level: INFO

Description: Failed to export service management configuration data.

Data: name of file, error message

Triggers: Execute export configuration data Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_CREATE\_SERVERCONFIG\_XML**

ID: AMCLI-3010

Level: INFO

Description: Attempt to create server configuration xml.

Data: name of file

Triggers: Execute create server configuration xml Commandline interface.

### **SUCCEEDED\_CREATE\_SERVERCONFIG\_XML**

ID: AMCLI-3011

Level: INFO

Description: Create server configuration xml succeeded.

Data: name of file

Triggers: Execute create server configuration xml Commandline interface.

### **FAILED\_CREATE\_SERVERCONFIG\_XML**

ID: AMCLI-3012

Level: INFO

Description: Failed to create server configuration xml.

Data: name of file, error message

Triggers: Execute create server configuration xml Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_REALM\_REMOVE\_SERVICE\_ATTR\_VALUES**

ID: AMCLI-3020

Level: INFO

Description: Attempt to remove service attribute values of realm.

Data: name of realm, name of service

Triggers: Execute remove service attribute values of realm Commandline interface.

### **SUCCEED\_REALM\_REMOVE\_SERVICE\_ATTR\_VALUES**

ID: AMCLI-3021

Level: INFO

Description: Service attribute values of realm are removed.

Data: name of realm, name of service

Triggers: Execute remove service attribute values of realm Commandline interface.

#### **FAILED\_REALM\_REMOVE\_SERVICE\_ATTR\_VALUES**

ID: AMCLI-3022

Level: INFO

Description: Unable to remove service attribute values of realm.

Data: name of realm, name of service, error message

Triggers: Execute remove service attribute values of realm Commandline interface.

Actions: Look under debug file for more information.

#### **ATTEMPT\_REALM\_ADD\_SERVICE\_ATTR\_VALUES**

ID: AMCLI-3030

Level: INFO

Description: Attempt to add service attribute values of realm.

Data: name of realm, name of service

Triggers: Execute add service attribute values of realm Commandline interface.

#### **SUCCEED\_REALM\_ADD\_SERVICE\_ATTR\_VALUES**

ID: AMCLI-3031

Level: INFO

Description: Service attribute values of realm are added.

Data: name of realm, name of service

Triggers: Execute add service attribute values of realm Commandline interface.

#### **FAILED\_REALM\_ADD\_SERVICE\_ATTR\_VALUES**

ID: AMCLI-3032

Level: INFO

Description: Unable to add service attribute values of realm.

Data: name of realm, name of service, error message

Triggers: Execute add service attribute values of realm Commandline interface.

Actions: Look under debug file for more information.



**ATTEMPT\_LIST\_SERVER\_CONFIG**

ID: AMCLI-3040

Level: INFO

Description: Attempt to list server configuration.

Data: name of server

Triggers: Execute list server configuration Commandline interface.

**SUCCEED\_LIST\_SERVER\_CONFIG**

ID: AMCLI-3041

Level: INFO

Description: Server configuration is displayed.

Data: name of server

Triggers: Execute list server configuration Commandline interface.

**FAILED\_LIST\_SERVER\_CONFIG**

ID: AMCLI-3042

Level: INFO

Description: Unable to list server configuration.

Data: name of server, error message

Triggers: Execute list server configuration Commandline interface.

Actions: Check if servername is correct.; Look under debug file for more information.

**ATTEMPT\_UPDATE\_SERVER\_CONFIG**

ID: AMCLI-3050

Level: INFO

Description: Attempt to update server configuration.

Data: name of server

Triggers: Execute update server configuration Commandline interface.

**SUCCEED\_UPDATE\_SERVER\_CONFIG**

ID: AMCLI-3051

Level: INFO

Description: Server configuration is updated.

Data: name of server

Triggers: Execute update server configuration Commandline interface.

#### **FAILED\_UPDATE\_SERVER\_CONFIG**

ID: AMCLI-3052

Level: INFO

Description: Unable to update server configuration.

Data: name of server, error message

Triggers: Execute update server configuration Commandline interface.

Actions: Check if servername is correct.; Look under debug file for more information.

#### **ATTEMPT\_REMOVE\_SERVER\_CONFIG**

ID: AMCLI-3060

Level: INFO

Description: Attempt to remove server configuration.

Data: name of server

Triggers: Execute remove server configuration Commandline interface.

#### **SUCCEED\_REMOVE\_SERVER\_CONFIG**

ID: AMCLI-3061

Level: INFO

Description: Server configuration is removed.

Data: name of server

Triggers: Execute remove server configuration Commandline interface.

#### **FAILED\_REMOVE\_SERVER\_CONFIG**

ID: AMCLI-3062

Level: INFO

Description: Remove server configuration.

Data: name of server, error message

Triggers: Execute remove server configuration Commandline interface.

Actions: Check if servername is correct.; Look under debug file for more information.

### **ATTEMPT\_CREATE\_SERVER**

ID: AMCLI-3070

Level: INFO

Description: Attempt to create server.

Data: name of server

Triggers: Execute create server Commandline interface.

### **SUCCEED\_CREATE\_SERVER**

ID: AMCLI-3071

Level: INFO

Description: Server is created.

Data: name of server

Triggers: Execute create server Commandline interface.

### **FAILED\_CREATE\_SERVER**

ID: AMCLI-3072

Level: INFO

Description: Unable to create server.

Data: name of server, error message

Triggers: Execute create server Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_DELETE\_SERVER**

ID: AMCLI-3080

Level: INFO

Description: Attempt to delete server.

Data: name of server

Triggers: Execute delete server Commandline interface.

### **SUCCEED\_DELETE\_SERVER**

ID: AMCLI-3081

Level: INFO

Description: Server is deleted.

Data: name of server

Triggers: Execute delete server Commandline interface.

### **FAILED\_DELETE\_SERVER**

ID: AMCLI-3082

Level: INFO

Description: Unable to delete server.

Data: name of server, error message

Triggers: Execute delete server Commandline interface.

Actions: Check the name of the server.; Look under debug file for more information.

### **ATTEMPT\_LIST\_SERVERS**

ID: AMCLI-3090

Level: INFO

Description: Attempt to list servers.

Triggers: Execute list servers Commandline interface.

### **SUCCEED\_LIST\_SERVERS**

ID: AMCLI-3091

Level: INFO

Description: Servers are displayed.

Triggers: Execute list servers Commandline interface.

### **FAILED\_LIST\_SERVERS**

ID: AMCLI-3092

Level: INFO

Description: Unable to list servers.

Data: error message

Triggers: Execute list servers Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_CREATE\_SITE**

ID: AMCLI-3100

Level: INFO

Description: Attempt to create site.

Data: name of site, primary URL of site

Triggers: Execute create site Commandline interface.

### **SUCCEED\_CREATE\_SITE**

ID: AMCLI-3101

Level: INFO

Description: Site is created.

Data: name of site, primary URL of site

Triggers: Execute create site Commandline interface.

### **FAILED\_CREATE\_SITE**

ID: AMCLI-3102

Level: INFO

Description: Unable to create site.

Data: name of site, primary URL of site, error message

Triggers: Execute create site Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_LIST\_SITES**

ID: AMCLI-3110

Level: INFO

Description: Attempt to list sites.

Triggers: Execute list sites Commandline interface.

## **SUCCEED\_LIST\_SITES**

ID: AMCLI-3111

Level: INFO

Description: Sites are displayed.

Triggers: Execute list sites Commandline interface.

## **FAILED\_LIST\_SITES**

ID: AMCLI-3112

Level: INFO

Description: Unable to list sites.

Data: error message

Triggers: Execute list sites Commandline interface.

Actions: Look under debug file for more information.

## **ATTEMPT\_SHOW\_SITE\_MEMBERS**

ID: AMCLI-3120

Level: INFO

Description: Attempt to show site members.

Data: name of site

Triggers: Execute show site members Commandline interface.

## **SUCCEED\_SHOW\_SITE\_MEMBERS**

ID: AMCLI-3121

Level: INFO

Description: Site members are displayed.

Data: name of site

Triggers: Execute show site members Commandline interface.

## **FAILED\_SHOW\_SITE\_MEMBERS**

ID: AMCLI-3122

Level: INFO

Description: Unable to show site members.

Data: name of site, error message

Triggers: Execute show site members Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_ADD\_SITE\_MEMBERS**

ID: AMCLI-3130

Level: INFO

Description: Attempt to add members to site.

Data: name of site

Triggers: Execute add members to site Commandline interface.

### **SUCCEED\_ADD\_SITE\_MEMBERS**

ID: AMCLI-3131

Level: INFO

Description: Members are added to site.

Data: name of site

Triggers: Execute add members to site Commandline interface.

### **FAILED\_ADD\_SITE\_MEMBERS**

ID: AMCLI-3132

Level: INFO

Description: Unable to add members to site.

Data: name of site, error message

Triggers: Execute add members to site Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_REMOVE\_SITE\_MEMBERS**

ID: AMCLI-3140

Level: INFO

Description: Attempt to remove members from site.

Data: name of site

Triggers: Execute remove members from site Commandline interface.

### **SUCCEED\_REMOVE\_SITE\_MEMBERS**

ID: AMCLI-3141

Level: INFO

Description: Members are removed from site.

Data: name of site

Triggers: Execute remove members from site Commandline interface.

### **FAILED\_REMOVE\_SITE\_MEMBERS**

ID: AMCLI-3142

Level: INFO

Description: Unable to remove members from site.

Data: name of site, error message

Triggers: Execute remove members from site Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_DELETE\_SITE**

ID: AMCLI-3150

Level: INFO

Description: Attempt to delete site.

Data: name of site

Triggers: Execute delete site Commandline interface.

### **SUCCEED\_DELETE\_SITE**

ID: AMCLI-3151

Level: INFO

Description: Site is deleted.

Data: name of site



Triggers: Execute delete site Commandline interface.

### **FAILED\_DELETE\_SITE**

ID: AMCLI-3152

Level: INFO

Description: Unable to delete members from site.

Data: name of site, error message

Triggers: Execute delete site Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_SET\_SITE\_PRIMARY\_URL**

ID: AMCLI-3160

Level: INFO

Description: Attempt to set site primary URL.

Data: name of site, primary URL of site

Triggers: Execute set site primary URL Commandline interface.

### **SUCCEED\_SET\_SITE\_PRIMARY\_URL**

ID: AMCLI-3161

Level: INFO

Description: Site primary URL is set.

Data: name of site, primary URL of site

Triggers: Execute set site primary URL Commandline interface.

### **FAILED\_SET\_SITE\_PRIMARY\_URL**

ID: AMCLI-3162

Level: INFO

Description: Unable to set site primary URL.

Data: name of site, primary URL of site, error message

Triggers: Execute set site primary URL Commandline interface.

Actions: Look under debug file for more information.

**ATTEMPT\_SHOW\_SITE**

ID: AMCLI-3170

Level: INFO

Description: Attempt to show site profile.

Data: name of site

Triggers: Execute show site profile Commandline interface.

**SUCCEED\_SHOW\_SITE**

ID: AMCLI-3171

Level: INFO

Description: Site profile is displayed.

Data: name of site

Triggers: Execute show site profile Commandline interface.

**FAILED\_SHOW\_SITE**

ID: AMCLI-3172

Level: INFO

Description: Unable to show site profile.

Data: name of site, error message

Triggers: Execute show site profile Commandline interface.

Actions: Look under debug file for more information.

**ATTEMPT\_SET\_SITE\_FAILOVER\_URLS**

ID: AMCLI-3180

Level: INFO

Description: Attempt to set site failover URLs.

Data: name of site

Triggers: Execute set site failover URLs Commandline interface.

**SUCCEED\_SET\_SITE\_FAILOVER\_URLS**

ID: AMCLI-3181

Level: INFO

Description: Site failover URLs are set.

Data: name of site

Triggers: Execute set site failover URLs Commandline interface.

### **FAILED\_SET\_SITE\_FAILOVER\_URLS**

ID: AMCLI-3182

Level: INFO

Description: Unable to set site failover URLs.

Data: name of site, error message

Triggers: Execute set site failover URLs Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_ADD\_SITE\_FAILOVER\_URLS**

ID: AMCLI-3190

Level: INFO

Description: Attempt to add site failover URLs.

Data: name of site

Triggers: Execute add site failover URLs Commandline interface.

### **SUCCEED\_ADD\_SITE\_FAILOVER\_URLS**

ID: AMCLI-3191

Level: INFO

Description: Site failover URLs are added.

Data: name of site

Triggers: Execute add site failover URLs Commandline interface.

### **FAILED\_ADD\_SITE\_FAILOVER\_URLS**

ID: AMCLI-3192

Level: INFO

Description: Unable to add site failover URLs.

Data: name of site, error message

Triggers: Execute add site failover URLs Commandline interface.

Actions: Look under debug file for more information.

#### **ATTEMPT\_REMOVE\_SITE\_FAILOVER\_URLS**

ID: AMCLI-3200

Level: INFO

Description: Attempt to remove site failover URLs.

Data: name of site

Triggers: Execute remove site failover URLs Commandline interface.

#### **SUCCEED\_REMOVE\_SITE\_FAILOVER\_URLS**

ID: AMCLI-3201

Level: INFO

Description: Site failover URLs are removed.

Data: name of site

Triggers: Execute remove site failover URLs Commandline interface.

#### **FAILED\_REMOVE\_SITE\_FAILOVER\_URLS**

ID: AMCLI-3202

Level: INFO

Description: Unable to remove site failover URLs.

Data: name of site, error message

Triggers: Execute remove site failover URLs Commandline interface.

Actions: Look under debug file for more information.

#### **ATTEMPT\_CLONE\_SERVER**

ID: AMCLI-3210

Level: INFO

Description: Attempt to clone server.

Data: name of server, name of cloned server

Triggers: Execute clone server Commandline interface.

### **SUCCEED\_CLONE\_SERVER**

ID: AMCLI-3211

Level: INFO

Description: Server is cloned.

Data: name of server, name of cloned server

Triggers: Execute clone server Commandline interface.

### **FAILED\_CLONE\_SERVER**

ID: AMCLI-3212

Level: INFO

Description: Unable to clone server.

Data: name of server, name of cloned server, error message

Triggers: Execute clone server Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_EXPORT\_SERVER**

ID: AMCLI-3220

Level: INFO

Description: Attempt to export server.

Data: name of server

Triggers: Execute export server Commandline interface.

### **SUCCEED\_EXPORT\_SERVER**

ID: AMCLI-3221

Level: INFO

Description: Server is cloned.

Data: name of server

Triggers: Execute export server Commandline interface.

### **FAILED\_EXPORT\_SERVER**

ID: AMCLI-3222

Level: INFO

Description: Unable to export server.

Data: name of server, error message

Triggers: Execute export server Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_IMPORT\_SERVER**

ID: AMCLI-3230

Level: INFO

Description: Attempt to import server configuration.

Data: name of server

Triggers: Execute import server configuration Commandline interface.

### **SUCCEED\_IMPORT\_SERVER**

ID: AMCLI-3231

Level: INFO

Description: Server configuration is imported.

Data: name of server

Triggers: Execute import server configuration Commandline interface.

### **FAILED\_IMPORT\_SERVER**

ID: AMCLI-3232

Level: INFO

Description: Unable to import server configuration.

Data: name of server, error message

Triggers: Execute import server configuration Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_GET\_SUPPORTED\_DATA\_TYPES**

ID: AMCLI-5000

Level: INFO

Description: Attempt to get the supported data types.

Triggers: Execute get the supported data type Commandline interface.

### **SUCCEED\_GET\_SUPPORTED\_DATA\_TYPES**

ID: AMCLI-5001

Level: INFO

Description: The supported data types are retrieved.

Triggers: Execute add service attribute values Commandline interface.

### **FAILED\_GET\_SUPPORTED\_DATA\_TYPES**

ID: AMCLI-5002

Level: INFO

Description: Unable to get the supported data types.

Data: error message

Triggers: Execute get the supported data types Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_CREATE\_AGENT**

ID: AMCLI-4000

Level: INFO

Description: Attempt to create an agent.

Data: realm, agent type, name of agent

Triggers: Execute create agent Commandline interface.

### **SUCCEED\_CREATE\_AGENT**

ID: AMCLI-4001

Level: INFO

Description: Agent is created.

Data: realm, agent type, name of agent

Triggers: Execute create agent Commandline interface.

### **FAILED\_CREATE\_AGENT**

ID: AMCLI-4002

Level: INFO

Description: Unable to create agent.

Data: realm, agent type, name of agent, error message

Triggers: Execute create agent Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_DELETE\_AGENTS**

ID: AMCLI-4010

Level: INFO

Description: Attempt to delete agents.

Data: name of realm, name of agents

Triggers: Execute delete agents Commandline interface.

### **SUCCEED\_DELETE\_AGENTS**

ID: AMCLI-4011

Level: INFO

Description: Agents are deleted.

Data: name of realm, name of agents

Triggers: Execute delete agents Commandline interface.

### **FAILED\_DELETE\_AGENTS**

ID: AMCLI-4012

Level: INFO

Description: Unable to delete agents.

Data: name of realm, name of agents, error message

Triggers: Execute delete agents Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_UPDATE\_AGENT**

ID: AMCLI-4020

Level: INFO



Description: Attempt to set attribute values of an agent.

Data: name of realm, name of agent

Triggers: Execute update agent Commandline interface.

### **SUCCEED\_UPDATE\_AGENT**

ID: AMCLI-4021

Level: INFO

Description: Agent profile is modified.

Data: name of realm, name of agent

Triggers: Execute update agent Commandline interface.

### **FAILED\_UPDATE\_AGENT**

ID: AMCLI-4022

Level: INFO

Description: Unable to update an agent.

Data: name of realm, name of agent, error message

Triggers: Execute update agent Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_LIST\_AGENTS**

ID: AMCLI-4030

Level: INFO

Description: Attempt to list agents.

Data: name of realm, agent type, search pattern

Triggers: Execute list agents Commandline interface.

### **SUCCEED\_LIST\_AGENTS**

ID: AMCLI-4031

Level: INFO

Description: Search Result is returned.

Data: name of realm, agent type, search pattern

Triggers: Execute list agents Commandline interface.

### **FAILED\_LIST\_AGENTS**

ID: AMCLI-4032

Level: INFO

Description: Unable to list agents.

Data: name of realm, agent type, search pattern, error message

Triggers: Execute list agents Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_SHOW\_AGENT**

ID: AMCLI-4040

Level: INFO

Description: Attempt to get attribute values of an agent.

Data: name of realm, name of agent

Triggers: Execute get the attribute values of an agent Commandline interface.

### **SUCCEED\_SHOW\_AGENT**

ID: AMCLI-4041

Level: INFO

Description: Attribute values are returned.

Data: name of realm, name of agent

Triggers: Execute get the attribute values of an agent Commandline interface.

### **FAILED\_SHOW\_AGENT**

ID: AMCLI-4042

Level: INFO

Description: Unable to get the attribute values of an agent.

Data: name of realm, name of agent, error message

Triggers: Execute get the attribute values of an agent Commandline interface.

Actions: Look under debug file for more information.

**ATTEMPT\_CREATE\_AGENT\_GROUP**

ID: AMCLI-4050

Level: INFO

Description: Attempt to create an agent group.

Data: realm, agent type, name of agent group

Triggers: Execute create agent group Commandline interface.

**SUCCEED\_CREATE\_AGENT\_GROUP**

ID: AMCLI-4051

Level: INFO

Description: Agent group is created.

Data: realm, agent type, name of agent group

Triggers: Execute create agent group Commandline interface.

**FAILED\_CREATE\_AGENT\_GROUP**

ID: AMCLI-4052

Level: INFO

Description: Unable to create agent group.

Data: realm, agent type, name of agent group, error message

Triggers: Execute create agent group Commandline interface.

Actions: Look under debug file for more information.

**ATTEMPT\_DELETE\_AGENT\_GROUPS**

ID: AMCLI-4060

Level: INFO

Description: Attempt to delete agent groups.

Data: name of realm, name of agent groups

Triggers: Execute delete agent groups Commandline interface.

**SUCCEED\_DELETE\_AGENT\_GROUPS**

ID: AMCLI-4061

Level: INFO

Description: Agent groups are deleted.

Data: name of realm, name of agent groups

Triggers: Execute delete agent groups Commandline interface.

### **FAILED\_DELETE\_AGENT\_GROUPS**

ID: AMCLI-4062

Level: INFO

Description: Unable to delete agent groups.

Data: name of realm, name of agent groups, error message

Triggers: Execute delete agent groups Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_LIST\_AGENT\_GROUPS**

ID: AMCLI-4070

Level: INFO

Description: Attempt to list agent groups.

Data: name of realm, agent type, search pattern

Triggers: Execute list agent groups Commandline interface.

### **SUCCEED\_LIST\_AGENT\_GROUPS**

ID: AMCLI-4071

Level: INFO

Description: Search Result is returned.

Data: name of realm, agent type, search pattern

Triggers: Execute list agent groups Commandline interface.

### **FAILED\_LIST\_AGENT\_GROUPS**

ID: AMCLI-4072

Level: INFO

Description: Unable to list agent groups.

Data: name of realm, agent type, search pattern, error message

Triggers: Execute list agent groups Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_ADD\_AGENT\_TO\_GROUP**

ID: AMCLI-4080

Level: INFO

Description: Attempt to add agent to group.

Data: name of realm, name of agent group, name of agent

Triggers: Execute add agents to group Commandline interface.

### **SUCCEED\_ADD\_AGENT\_TO\_GROUP**

ID: AMCLI-4081

Level: INFO

Description: Agent is added to group.

Data: name of realm, name of agent group, name of agent

Triggers: Execute add agent to group Commandline interface.

### **FAILED\_ADD\_AGENT\_TO\_GROUP**

ID: AMCLI-4082

Level: INFO

Description: Unable to add agent to group.

Data: name of realm, name of agent group, name of agent, error message

Triggers: Execute add agent to group Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_REMOVE\_AGENT\_FROM\_GROUP**

ID: AMCLI-4090

Level: INFO

Description: Attempt to remove agent from group.

Data: name of realm, name of agent group, name of agent

Triggers: Execute remove agent from group Commandline interface.

### **SUCCEED\_REMOVE\_AGENT\_FROM\_GROUP**

ID: AMCLI-4091

Level: INFO

Description: Agent is removed to group.

Data: name of realm, name of agent group, name of agent

Triggers: Execute remove agent from group Commandline interface.

### **FAILED\_REMOVE\_AGENT\_FROM\_GROUP**

ID: AMCLI-4092

Level: INFO

Description: Unable to remove agent from group.

Data: name of realm, name of agent group, name of agent, error message

Triggers: Execute remove agent from group Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_SET\_AGENT\_PWD**

ID: AMCLI-4100

Level: INFO

Description: Attempt to set agent password.

Data: realm, name of agent

Triggers: Execute set agent password Commandline interface.

### **SUCCEED\_SET\_AGENT\_PWD**

ID: AMCLI-4101

Level: INFO

Description: Agent password is modified.

Data: realm, name of agent

Triggers: Execute set agent password Commandline interface.

### **FAILED\_SET\_AGENT\_PWD**

ID: AMCLI-4102

Level: INFO

Description: Unable to set agent password.

Data: realm, name of agent, error message

Triggers: Execute set agent password Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_SHOW\_AGENT\_GROUP**

ID: AMCLI-4110

Level: INFO

Description: Attempt to get attribute values of an agent group.

Data: name of realm, name of agent group

Triggers: Execute get the attribute values of an agent group Commandline interface.

### **SUCCEED\_SHOW\_AGENT\_GROUP**

ID: AMCLI-4111

Level: INFO

Description: Attribute values are returned.

Data: name of realm, name of agent group

Triggers: Execute get the attribute values of an agent group Commandline interface.

### **FAILED\_SHOW\_AGENT\_GROUP**

ID: AMCLI-4112

Level: INFO

Description: Unable to get the attribute values of an agent group.

Data: name of realm, name of agent group, error message

Triggers: Execute get the attribute values of an agent group Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_UPDATE\_AGENT\_GROUP**

ID: AMCLI-4120

Level: INFO

Description: Attempt to set attribute values of an agent group.

Data: name of realm, name of agent group

Triggers: Execute update agent group Commandline interface.

### **SUCCEED\_UPDATE\_AGENT\_GROUP**

ID: AMCLI-4121

Level: INFO

Description: Agent group profile is modified.

Data: name of realm, name of agent group

Triggers: Execute update agent group Commandline interface.

### **FAILED\_UPDATE\_AGENT\_GROUP**

ID: AMCLI-4122

Level: INFO

Description: Unable to update an agent.

Data: name of realm, name of agent group, error message

Triggers: Execute update agent group Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_SHOW\_AGENT\_TYPES**

ID: AMCLI-4130

Level: INFO

Description: Attempt to show supported agent types.

Triggers: Execute show supported agent types Commandline interface.

### **SUCCEED\_SHOW\_AGENT\_TYPES**

ID: AMCLI-4131

Level: INFO

Description: Supported agent types is displayed.

Triggers: Execute show supported agent types Commandline interface.

### **FAILED\_SHOW\_AGENT\_TYPES**

ID: AMCLI-4132



Level: INFO

Description: Unable to show supported agent types.

Data: error message

Triggers: Execute show supported agent types Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_SHOW\_AGENT\_GROUP\_MEMBERS**

ID: AMCLI-4140

Level: INFO

Description: Attempt to show agent group members.

Data: name of realm, name of agent group

Triggers: Execute show agent group members Commandline interface.

### **SUCCEED\_SHOW\_AGENT\_GROUP\_MEMBERS**

ID: AMCLI-4141

Level: INFO

Description: Agent group's members are displayed.

Data: name of realm, name of agent group

Triggers: Execute show agent group members Commandline interface.

### **FAILED\_SHOW\_AGENT\_GROUP\_MEMBERS**

ID: AMCLI-4142

Level: INFO

Description: Unable to show agent group members.

Data: name of realm, name of agent group, error message

Triggers: Execute show agent group members Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_LIST\_AGENT\_MEMBERSHIP**

ID: AMCLI-4150

Level: INFO

Description: Attempt to show agent's membership.

Data: name of realm, name of agent

Triggers: Execute show agent's membership Commandline interface.

### **SUCCEED\_LIST\_AGENT\_MEMBERSHIP**

ID: AMCLI-4151

Level: INFO

Description: Agent's membership are displayed.

Data: name of realm, name of agent

Triggers: Execute show agent's membership Commandline interface.

### **FAILED\_LIST\_AGENT\_MEMBERSHIP**

ID: AMCLI-4152

Level: INFO

Description: Unable to show agent's membership.

Data: name of realm, name of agent, error message

Triggers: Execute show agent's membership Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_REGISTER\_AUTH\_MODULE**

ID: AMCLI-4500

Level: INFO

Description: Attempt to register authentication module.

Data: name of service

Triggers: Execute register authentication module Commandline interface.

### **SUCCEED\_REGISTER\_AUTH\_MODULE**

ID: AMCLI-4501

Level: INFO

Description: Authentication module is registered.

Data: name of service

Triggers: Execute register authentication module Commandline interface.

### **FAILED\_REGISTER\_AUTH\_MODULE**

ID: AMCLI-4502

Level: INFO

Description: Unable to register authentication module.

Data: name of service, error message

Triggers: Execute register authentication module Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_UNREGISTER\_AUTH\_MODULE**

ID: AMCLI-4510

Level: INFO

Description: Attempt to unregister authentication module.

Data: name of service

Triggers: Execute unregister authentication module Commandline interface.

### **SUCCEED\_UNREGISTER\_AUTH\_MODULE**

ID: AMCLI-4511

Level: INFO

Description: Authentication module is unregistered.

Data: name of service

Triggers: Execute unregister authentication module Commandline interface.

### **FAILED\_UNREGISTER\_AUTH\_MODULE**

ID: AMCLI-4512

Level: INFO

Description: Unable to unregister authentication module.

Data: name of service, error message

Triggers: Execute unregister authentication module Commandline interface.

Actions: Look under debug file for more information.

**ATTEMPT\_GET\_SUPPORTED\_AUTH\_MODULES**

ID: AMCLI-4515

Level: INFO

Description: Attempt to get supported authentication modules in the system.

Triggers: Execute get supported authentication modules in the system Commandline interface.

**SUCCEED\_GET\_SUPPORTED\_AUTH\_MODULES**

ID: AMCLI-4516

Level: INFO

Description: Supported authentication modules in the system are displayed.

Triggers: Execute get supported authentication modules in the system module Commandline interface.

**FAILED\_GET\_SUPPORTED\_AUTH\_MODULES**

ID: AMCLI-4517

Level: INFO

Description: Failed to get supported authentication modules in the system.

Data: error message

Triggers: Execute get supported authentication modules in the system Commandline interface.

Actions: Look under debug file for more information.

**ATTEMPT\_REMOVE\_AGENT\_PROPERTIES**

ID: AMCLI-4520

Level: INFO

Description: Attempt to remove property values of an agent.

Data: name of realm, name of agent, property names

Triggers: Execute remove property values of an agent Commandline interface.

**SUCCEED\_REMOVE\_AGENT\_PROPERTIES**

ID: AMCLI-4521

Level: INFO

Description: Property values are removed.

Data: name of realm, name of agent, property names

Triggers: Execute remove property values of an agent Commandline interface.

### **FAILED\_REMOVE\_AGENT\_PROPERTIES**

ID: AMCLI-4522

Level: INFO

Description: Unable to remove property values of an agent.

Data: name of realm, name of agent, property names, error message

Triggers: Execute remove property values of an agent Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_GET\_SERVER\_CONFIG\_XML**

ID: AMCLI-4600

Level: INFO

Description: Attempt to get server configuration XML.

Data: name of server

Triggers: Execute get server configuration XML Commandline interface.

### **SUCCEED\_GET\_SERVER\_CONFIG\_XML**

ID: AMCLI-4601

Level: INFO

Description: Server configuration XML is displayed.

Data: name of server

Triggers: Execute get server configuration XML Commandline interface.

### **FAILED\_GET\_SERVER\_CONFIG\_XML**

ID: AMCLI-4602

Level: INFO

Description: Unable to get server configuration XML.

Data: name of server, error message

Triggers: Execute get server configuration XML Commandline interface.

Actions: Check if servername is correct.; Look under debug file for more information.

**ATTEMPT\_SET\_SERVER\_CONFIG\_XML**

ID: AMCLI-4610

Level: INFO

Description: Attempt to set server configuration XML.

Data: name of server

Triggers: Execute set server configuration XML Commandline interface.

**SUCCEED\_SET\_SERVER\_CONFIG\_XML**

ID: AMCLI-4611

Level: INFO

Description: Server configuration XML is set.

Data: name of server

Triggers: Execute set server configuration XML Commandline interface.

**FAILED\_SET\_SERVER\_CONFIG\_XML**

ID: AMCLI-4612

Level: INFO

Description: Unable to set server configuration XML.

Data: name of server, error message

Triggers: Execute set server configuration XML Commandline interface.

Actions: Check if servername is correct.; Look under debug file for more information.

**ATTEMPT\_LIST\_DATASTORE\_TYPES**

ID: AMCLI-4700

Level: INFO

Description: Attempt to list supported datastore types.

Triggers: Execute list supported datastore types Commandline interface.

**SUCCEEDED\_LIST\_DATASTORE\_TYPES**

ID: AMCLI-4701

Level: INFO

Description: List supported datastore types succeeded.

Triggers: Execute list supported datastore types Commandline interface.

### **FAILED\_LIST\_DATASTORE\_TYPES**

ID: AMCLI-4702

Level: INFO

Description: Failed to list supported datastore types.

Data: error message

Triggers: Execute list supported datastore types Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_ADD\_AUTH\_CONFIG\_ENTRY**

ID: AMCLI-4800

Level: INFO

Description: Attempt to add authentication configuration entry.

Data: name of realm, name of authentication configuration, name of module

Triggers: Execute add authentication configuration entry Commandline interface.

### **SUCCEEDED\_ADD\_AUTH\_CONFIG\_ENTRY**

ID: AMCLI-4801

Level: INFO

Description: Authentication instance configuration entry is created.

Data: name of realm, name of authentication configuration, name of module

Triggers: Execute add authentication configuration entry Commandline interface.

### **FAILED\_ADD\_AUTH\_CONFIG\_ENTRY**

ID: AMCLI-4802

Level: INFO

Description: Failed to add authentication configuration entry.

Data: name of realm, name of authentication configuration, name of module, error message

Triggers: Execute add authentication configuration entry Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_SHOW\_DATASTORE**

ID: AMCLI-5000

Level: INFO

Description: Attempt to show datastore profile.

Data: name of realm, name of datastore

Triggers: Execute show datastore Commandline interface.

### **SUCCEEDED\_SHOW\_DATASTORE**

ID: AMCLI-5001

Level: INFO

Description: Show datastore succeeded.

Data: name of realm, name of datastore

Triggers: Execute show datastore Commandline interface.

### **FAILED\_SHOW\_DATASTORE**

ID: AMCLI-5002

Level: INFO

Description: Failed to show datastore profile.

Data: name of realm, name of datastore, error message

Triggers: Execute show datastore Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_ADD\_AMSDK\_PLUGIN**

ID: AMCLI-5100

Level: INFO

Description: Add AMSDK IdRepo Plugin.

Data: name of datastore name

Triggers: Execute add AMSDK IdRepo Plugin Commandline interface.

### **SUCCEED\_ADD\_AMSDK\_PLUGIN**

ID: AMCLI-5101



Level: INFO

Description: AMSDK plugin is added.

Data: name of datastore name

Triggers: Execute add AMSDK IdRepo Plugin Commandline interface.

### **FAILED\_ADD\_AMSDK\_PLUGIN**

ID: AMCLI-5102

Level: INFO

Description: Failed to add AMSDK IdRepo Plugin.

Data: name of datastore name, error message

Triggers: Execute add AMSDK IdRepo Plugin Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_SET\_SVC\_ATTR\_VALUES\_REALM**

ID: AMCLI-5200

Level: INFO

Description: Attempt to set attribute value to a service that is assigned to a realm.

Data: name of realm, name of service

Triggers: Execute set attribute values a service that is assigned to a to realm Commandline interface.

### **SUCCEED\_SET\_SVC\_ATTR\_VALUES\_REALM**

ID: AMCLI-5201

Level: INFO

Description: Attribute values is set to a service that is assigned to a realm.

Data: name of realm, name of service

Triggers: Execute set attribute values to a service that is assigned to a realm Commandline interface.

### **FAILED\_SET\_SVC\_ATTR\_VALUES\_REALM**

ID: AMCLI-5202

Level: INFO

Description: Unable to set attribute values to a service that is assigned to a realm.

Data: name of realm, name of service, error message

Triggers: Execute set attribute values to a service that is assigned to a realm Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_EMBEDDED\_STATUS**

ID: AMCLI-5103

Level: INFO

Description: Get Embedded Status.

Data: port number of embedded store

Triggers: Execute Embedded Status Commandline interface.

### **SUCCEEDED\_EMBEDDED\_STATUS**

ID: AMCLI-5104

Level: INFO

Description: Embedded Status Successful.

Data: port number of embedded store

Triggers: Execute Embedded Status Commandline interface.

### **FAILED\_EMBEDDED\_STATUS**

ID: AMCLI-5105

Level: INFO

Description: Failed to get embedded status.

Data: port number of embedded store, error message

Triggers: Execute Embedded Status Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_ADD\_COT\_MEMBER**

ID: AMCLI-5106

Level: INFO

Description: Attempt to add a member to a Circle of Trust.

Data: realm, entity ID, circle of trust, protocol specification

Triggers: Execute add a member to a Circle of Trust Commandline interface.

### **SUCCEEDED\_ADD\_COT\_MEMBER**

ID: AMCLI-5107

Level: INFO

Description: Adding a member to a Circle of Trust succeeded.

Data: realm, entity ID, circle of trust, protocol specification

Triggers: Execute add a member to a Circle of Trust Commandline interface.

### **FAILED\_ADD\_COT\_MEMBER**

ID: AMCLI-5108

Level: INFO

Description: Failed to add a member to a circle of trust.

Data: realm, entity ID, circle of trust, protocol specification, error message

Triggers: Execute add a member to a Circle of Trust Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_DO\_BULK\_FEDERATION**

ID: AMCLI-5109

Level: INFO

Description: Attempt to do bulk federation.

Data: metaAlias for local provider, Remote entity Id, File name of local to remote user Id mapping, Name of file that will be created by this sub command, protocol specification

Triggers: Execute Do Bulk Federation Commandline interface.

### **SUCCEEDED\_DO\_BULK\_FEDERATION**

ID: AMCLI-5110

Level: INFO

Description: Bulk Federation succeeded.

Data: metaAlias for local provider, Remote entity Id, File name of local to remote user Id mapping, Name of file that will be created by this sub command, protocol specification

Triggers: Execute Do Bulk Federation Commandline interface.

### **FAILED\_DO\_BULK\_FEDERATION**

ID: AMCLI-5111

Level: INFO

Description: Failed to do bulk federation.

Data: metaAlias for local provider, Remote entity Id, File name of local to remote user Id mapping, Name of file that will be created by this sub command, protocol specification, error message

Triggers: Execute Do Bulk Federation Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_CREATE\_COT**

ID: AMCLI-5112

Level: INFO

Description: Attempt to create Circle of Trust.

Data: Realm, Circle of Trust, Trusted Providers, Prefix URL for idp discovery reader and writer URL

Triggers: Execute Create Circle of Trust Commandline interface.

### **SUCCEEDED\_CREATE\_COT**

ID: AMCLI-5113

Level: INFO

Description: Creating Circle of Trust succeeded.

Data: Realm, Circle of Trust, Trusted Providers, Prefix URL for idp discovery reader and writer URL

Triggers: Execute Create Circle of Trust Commandline interface.

### **FAILED\_CREATE\_COT**

ID: AMCLI-5114

Level: INFO

Description: Failed to create Circle of Trust.

Data: Realm, Circle of Trust, Trusted Providers, Prefix URL for idp discovery reader and writer URL, error message

Triggers: Execute Create Circle of Trust Commandline interface.

Actions: Look under debug file for more information.

#### **ATTEMPT\_CREATE\_METADATA\_TEMPL**

ID: AMCLI-5115

Level: INFO

Description: Attempt to create metadata template.

Data: Entity ID, file name for the standard metadata to be created, file name for the extended metadata to be created, metaAlias for hosted identity provider to be created, metaAlias for hosted service provider to be created, metaAlias for hosted attribute authority to be created, metaAlias for hosted attribute query provider to be created, metaAlias for hosted authentication authority to be created, metaAlias for policy decision point to be created, metaAlias for policy enforcement point to be created, metaAlias for hosted affiliation, protocol specification

Triggers: Execute Create MetaData Template Commandline interface.

#### **SUCCEEDED\_CREATE\_METADATA\_TEMPL**

ID: AMCLI-5116

Level: INFO

Description: Creating MetaData Template succeeded.

Data: Entity ID, file name for the standard metadata to be created, file name for the extended metadata to be created, metaAlias for hosted identity provider to be created, metaAlias for hosted service provider to be created, metaAlias for hosted attribute authority to be created, metaAlias for hosted attribute query provider to be created, metaAlias for hosted authentication authority to be created, metaAlias for policy decision point to be created, metaAlias for policy enforcement point to be created, metaAlias for hosted affiliation, protocol specification

Triggers: Execute Create MetaData Template Commandline interface.

#### **FAILED\_CREATE\_METADATA\_TEMPL**

ID: AMCLI-5117

Level: INFO

Description: Failed to create metaData template.

Data: Entity ID, protocol specification, error message

Triggers: Execute Create MetaData Template Commandline interface.

Actions: Look under debug file for more information.

**ATTEMPT\_DELETE\_COT**

ID: AMCLI-5118

Level: INFO

Description: Attempt to delete Circle of Trust.

Data: Realm, Circle of Trust

Triggers: Execute Delete Circle of Trust Commandline interface.

**SUCCEEDED\_DELETE\_COT**

ID: AMCLI-5119

Level: INFO

Description: Deleting Circle of Trust succeeded.

Data: Realm, Circle of Trust

Triggers: Execute Delete Circle of Trust Commandline interface.

**FAILED\_DELETE\_COT**

ID: AMCLI-5120

Level: INFO

Description: Failed to delete Circle of Trust.

Data: Realm, Circle of Trust, error message

Triggers: Execute Delete Circle of Trust Commandline interface.

Actions: Look under debug file for more information.

**ATTEMPT\_DELETE\_ENTITY**

ID: AMCLI-5121

Level: INFO

Description: Attempt to delete metadata.

Data: Realm, Entity ID, protocol specification

Triggers: Execute Delete Metadata Commandline interface.

**SUCCEEDED\_DELETE\_ENTITY**

ID: AMCLI-5122

Level: INFO

Description: Deleting Metadata succeeded.

Data: Realm, Entity ID, protocol specification

Triggers: Execute Delete Metadata Commandline interface.

#### **FAILED\_DELETE\_ENTITY**

ID: AMCLI-5123

Level: INFO

Description: Failed to delete metadata.

Data: Realm, Entity ID, protocol specification, error message

Triggers: Execute Delete Metadata Commandline interface.

Actions: Look under debug file for more information.

#### **ATTEMPT\_EXPORT\_ENTITY**

ID: AMCLI-5124

Level: INFO

Description: Attempt to export entity.

Data: Realm, Entity ID, Name of file to save the standard metadata XML, Name of file to save the extended metadata XML, protocol specification

Triggers: Execute export entity Commandline interface.

#### **SUCCEEDED\_EXPORT\_ENTITY**

ID: AMCLI-5125

Level: INFO

Description: Exporting entity succeeded.

Data: Realm, Entity ID, Name of file to save the standard metadata XML, Name of file to save the extended metadata XML, protocol specification

Triggers: Execute export entity Commandline interface.

#### **FAILED\_EXPORT\_ENTITY**

ID: AMCLI-5126

Level: INFO

Description: Failed to export entity.

Data: Realm, Entity ID, Name of file to save the standard metadata XML, Name of file to save the extended metadata XML, protocol specification, error message

Triggers: Execute export entity Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_IMPORT\_BULK\_FED\_DATA**

ID: AMCLI-5127

Level: INFO

Description: Attempt to import bulk federation data.

Data: metaAlias for local provider, File name of bulk federation data which is generated by this command, protocol specification

Triggers: Execute import bulk federation data Commandline interface.

### **SUCCEEDED\_IMPORT\_BULK\_FED\_DATA**

ID: AMCLI-5128

Level: INFO

Description: Importing bulk federation data succeeded.

Data: metaAlias for local provider, File name of bulk federation data which is generated by this command, protocol specification

Triggers: Execute import bulk federation data Commandline interface.

### **FAILED\_IMPORT\_BULK\_FED\_DATA**

ID: AMCLI-5129

Level: INFO

Description: Failed to import bulk federation data.

Data: metaAlias for local provider, File name of bulk federation data which is generated by this command, protocol specification, error message

Triggers: Execute import bulk federation data Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_IMPORT\_ENTITY**

ID: AMCLI-5130

Level: INFO



Description: Attempt to import entity.

Data: Realm where entity resides, file name for the standard metadata to be imported, file name for the extended entity configuration to be imported, name of the Circle of Trust this entity belongs, protocol specification

Triggers: Execute import entity Commandline interface.

### **SUCCEEDED\_IMPORT\_ENTITY**

ID: AMCLI-5131

Level: INFO

Description: Importing entity succeeded.

Data: Realm where entity resides, file name for the standard metadata to be imported, file name for the extended entity configuration to be imported, name of the Circle of Trust this entity belongs, protocol specification

Triggers: Execute import entity Commandline interface.

### **FAILED\_IMPORT\_ENTITY**

ID: AMCLI-5132

Level: INFO

Description: Failed to import entity.

Data: Realm where entity resides, file name for the standard metadata to be imported, file name for the extended entity configuration to be imported, name of the Circle of Trust this entity belongs, protocol specification, error message

Triggers: Execute import entity Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_LIST\_COT\_MEMBERS**

ID: AMCLI-5133

Level: INFO

Description: Attempt to list members in a circle of trust.

Data: Realm, Circle of trust, protocol specification

Triggers: Execute list members in a circle of trust Commandline interface.

### **SUCCEEDED\_LIST\_COT\_MEMBERS**

ID: AMCLI-5134

Level: INFO

Description: Listing members in a circle of trust succeeded.

Data: Realm, Circle of trust, protocol specification

Triggers: Execute list members in a circle of trust Commandline interface.

### **FAILED\_LIST\_COT\_MEMBERS**

ID: AMCLI-5135

Level: INFO

Description: Failed to list members in a circle of trust.

Data: Realm, Circle of trust, protocol specification, error message

Triggers: Execute list members in a circle of trust Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_LIST\_COTS**

ID: AMCLI-5136

Level: INFO

Description: Attempt to list circles of trust.

Data: realm

Triggers: Execute list circles of trust Commandline interface.

### **SUCCEEDED\_LIST\_COTS**

ID: AMCLI-5137

Level: INFO

Description: Listing circles of trust succeeded.

Data: realm

Triggers: Execute list circles of trust Commandline interface.

### **FAILED\_LIST\_COTS**

ID: AMCLI-5138

Level: INFO

Description: Failed to list circles of trust.

Data: realm, error message

Triggers: Execute list circles of trust Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_LIST\_ENTITIES**

ID: AMCLI-5139

Level: INFO

Description: Attempt to list entities under a realm.

Data: realm, protocol specification

Triggers: Execute list entities under a realm Commandline interface.

### **SUCCEEDED\_LIST\_ENTITIES**

ID: AMCLI-5140

Level: INFO

Description: Listing entities under a realm succeeded.

Data: realm, protocol specification

Triggers: Execute list entities under a realm Commandline interface.

### **FAILED\_LIST\_ENTITIES**

ID: AMCLI-5141

Level: INFO

Description: Failed to list entities under a realm.

Data: realm, protocol specification, error message

Triggers: Execute list entities under a realm Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_REMOVE\_COT\_MEMBER**

ID: AMCLI-5142

Level: INFO

Description: Attempt to remove a member from a circle of trust.

Data: Realm where circle of trust resides, Circle of trust, Entity ID, protocol specification

Triggers: Execute remove a member from a circle of trust Commandline interface.

### **SUCCEEDED\_REMOVE\_COT\_MEMBER**

ID: AMCLI-5143

Level: INFO

Description: Removing a member from a circle of trust successful.

Data: Realm where circle of trust resides, Circle of trust, Entity ID, protocol specification

Triggers: Execute remove a member from a circle of trust Commandline interface.

### **FAILED\_REMOVE\_COT\_MEMBER**

ID: AMCLI-5144

Level: INFO

Description: Failed to remove a member from a circle of trust.

Data: Realm where circle of trust resides, Circle of trust, Entity ID, protocol specification, error message

Triggers: Execute remove a member from a circle of trust Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_UPDATE\_ENTITY\_KEYINFO**

ID: AMCLI-5145

Level: INFO

Description: Attempt to update XML signing and encryption key information in hosted entity metadata.

Data: Realm, Entity ID, Service provider signing certificate alias, Identity provider signing certificate alias, Service provider encryption certificate alias, Identity provider encryption certificate alias, protocol specification

Triggers: Execute Commandline interface.

### **SUCCEEDED\_UPDATE\_ENTITY\_KEYINFO**

ID: AMCLI-5146

Level: INFO

Description: Updating XML signing and encryption key information in hosted entity metadata succeeded.

Data: Realm, Entity ID, Service provider signing certificate alias, Identity provider signing certificate alias, Service provider encryption certificate alias, Identity provider encryption certificate alias

Triggers: Execute update XML signing and encryption key information in hosted entity metadata Commandline interface.

#### **FAILED\_UPDATE\_ENTITY\_KEYINFO**

ID: AMCLI-5147

Level: INFO

Description: Failed to update XML signing and encryption key information in hosted entity metadata.

Data: Realm, Entity ID, Service provider signing certificate alias, Identity provider signing certificate alias, Service provider encryption certificate alias, Identity provider encryption certificate alias, error message

Triggers: Execute update XML signing and encryption key information in hosted entity metadata Commandline interface.

Actions: Look under debug file for more information.

#### **ATTEMPT\_CREATE\_APPLICATION**

ID: AMCLI-5500

Level: INFO

Description: Attempt to create application.

Data: Realm, Application name

Triggers: Execute create application Commandline interface.

#### **SUCCEEDED\_CREATE\_APPLICATION**

ID: AMCLI-5501

Level: INFO

Description: Create application succeeded.

Data: Realm, Application name

Triggers: Execute create application Commandline interface.

#### **FAILED\_CREATE\_APPLICATION**

ID: AMCLI-5502

Level: INFO

Description: Failed to create application.

Data: Realm, Application name, error message

Triggers: Execute create application Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_LIST\_APPLICATIONS**

ID: AMCLI-5510

Level: INFO

Description: Attempt to list applications in a realm.

Data: Realm

Triggers: Execute list applications Commandline interface.

### **SUCCEEDED\_LIST\_APPLICATIONS**

ID: AMCLI-5511

Level: INFO

Description: List applications in a realm succeeded.

Data: Realm

Triggers: Execute list applications Commandline interface.

### **FAILED\_LIST\_APPLICATIONS**

ID: AMCLI-5512

Level: INFO

Description: Failed to list applications.

Data: Realm, error message

Triggers: Execute list applications Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_LIST\_APPLICATION\_TYPES**

ID: AMCLI-5520

Level: INFO

Description: Attempt to list application types.

Triggers: Execute list application types Commandline interface.

### **SUCCEEDED\_LIST\_APPLICATION\_TYPES**

ID: AMCLI-5521

Level: INFO

Description: List application types succeeded.

Triggers: Execute list application types Commandline interface.

### **FAILED\_LIST\_APPLICATION\_TYPES**

ID: AMCLI-5522

Level: INFO

Description: Failed to list application types.

Data: error message

Triggers: Execute list application types Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_SHOW\_APPLICATION**

ID: AMCLI-5530

Level: INFO

Description: Attempt to show application attributes.

Data: Realm, Application Name

Triggers: Execute show application Commandline interface.

### **SUCCEEDED\_SHOW\_APPLICATION**

ID: AMCLI-5531

Level: INFO

Description: Attributes of application is displayed succeeded.

Data: Realm, Application Name

Triggers: Execute show application Commandline interface.

### **FAILED\_SHOW\_APPLICATION**

ID: AMCLI-5532

Level: INFO

Description: Failed to show application attributes.

Data: Realm, Application Name, error message

Triggers: Execute show application Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_SET\_APPLICATION**

ID: AMCLI-5540

Level: INFO

Description: Attempt to set application attributes.

Data: Realm, Application Name

Triggers: Execute set application attributes Commandline interface.

### **SUCCEEDED\_SET\_APPLICATION**

ID: AMCLI-5541

Level: INFO

Description: Attributes of application is modified succeeded.

Data: Realm, Application Name

Triggers: Execute set application attributes Commandline interface.

### **FAILED\_SET\_APPLICATION**

ID: AMCLI-5542

Level: INFO

Description: Failed to set application attributes.

Data: Realm, Application Name, error message

Triggers: Execute set application attributes Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_DELETE\_APPLICATIONS**

ID: AMCLI-5550

Level: INFO



Description: Attempt to delete applications.

Data: Realm

Triggers: Execute delete applications Commandline interface.

### **SUCCEEDED\_DELETE\_APPLICATIONS**

ID: AMCLI-5551

Level: INFO

Description: Application are deleted.

Data: Realm

Triggers: Execute delete applications Commandline interface.

### **FAILED\_DELETE\_APPLICATIONS**

ID: AMCLI-5552

Level: INFO

Description: Failed to delete applications.

Data: Realm, error message

Triggers: Execute delete applications Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_SHOW\_APPLICATION\_TYPE**

ID: AMCLI-5553

Level: INFO

Description: Attempt to show application type details.

Data: Application Type name

Triggers: Execute show application type Commandline interface.

### **SUCCEEDED\_SHOW\_APPLICATION\_TYPE**

ID: AMCLI-5554

Level: INFO

Description: Show application type details succeeded.

Data: Application Type name

Triggers: Execute show application type Commandline interface.

#### **ATTEMPT\_DELETE\_APPLICATION\_TYPES**

ID: AMCLI-5555

Level: INFO

Description: Attempt to delete application types.

Data: Application Type names

Triggers: Execute delete application types Commandline interface.

#### **SUCCEEDED\_DELETE\_APPLICATION\_TYPES**

ID: AMCLI-5556

Level: INFO

Description: Delete application types succeeded.

Data: Application Type names

Triggers: Execute delete application types Commandline interface.

#### **FAILED\_DELETE\_APPLICATION\_TYPES**

ID: AMCLI-5557

Level: INFO

Description: Delete application types failed.

Data: Application Type names, error message

Triggers: Execute delete application types Commandline interface.

Actions: Look under debug file for more information.

#### **ATTEMPT\_CREATE\_APPLICATION\_TYPE**

ID: AMCLI-5558

Level: INFO

Description: Attempt to create application type.

Data: Application Type name

Triggers: Execute create application type Commandline interface.

#### **SUCCEEDED\_CREATE\_APPLICATION\_TYPE**

ID: AMCLI-5559

Level: INFO

Description: Create application type succeeded.

Data: Application Type name

Triggers: Execute create application type Commandline interface.

#### **FAILED\_CREATE\_APPLICATION\_TYPE**

ID: AMCLI-5560

Level: INFO

Description: Failed to create application type.

Data: Application Type name, error message

Triggers: Execute create application type Commandline interface.

Actions: Look under debug file for more information.

#### **ATTEMPT\_SHOW\_ENTITLEMENT\_SVC**

ID: AMCLI-5600

Level: INFO

Description: Attempt to show entitlement service configuration.

Triggers: Execute show entitlement service configuration Commandline interface.

#### **SUCCEEDED\_SHOW\_ENTITLEMENT\_SVC**

ID: AMCLI-5601

Level: INFO

Description: Entitlement service configuration is displayed.

Triggers: Execute show entitlement service configuration Commandline interface.

#### **FAILED\_SHOW\_ENTITLEMENT\_SVC**

ID: AMCLI-5602

Level: INFO

Description: Failed to display entitlement service configuration.

Data: error message

Triggers: Execute show entitlement service configuration Commandline interface.

Actions: Look under debug file for more information.

#### **ATTEMPT\_MODIFY\_ENTITLEMENT\_SVC**

ID: AMCLI-5610

Level: INFO

Description: Attempt to modify entitlement service configuration.

Triggers: Execute set entitlement service configuration Commandline interface.

#### **SUCCEEDED\_MODIFY\_ENTITLEMENT\_SVC**

ID: AMCLI-5611

Level: INFO

Description: Entitlement service configuration is modified.

Triggers: Execute set entitlement service configuration Commandline interface.

#### **FAILED\_MODIFY\_ENTITLEMENT\_SVC**

ID: AMCLI-5612

Level: INFO

Description: Failed to modify entitlement service configuration.

Data: error message

Triggers: Execute set entitlement service configuration Commandline interface.

Actions: Look under debug file for more information.

#### **ATTEMPT\_CREATE\_APPLICATION\_PRIVILEGE**

ID: AMCLI-6010

Level: INFO

Description: Attempt to create application privilege.

Data: realm, application privilege name

Triggers: Execute create application privilege Commandline interface.

#### **SUCCEEDED\_CREATE\_APPLICATION\_PRIVILEGE**

ID: AMCLI-6011

Level: INFO

Description: Application privilege is created.

Data: realm, application privilege name

Triggers: Execute create application privilege Commandline interface.

#### **FAILED\_CREATE\_APPLICATION\_PRIVILEGE**

ID: AMCLI-6012

Level: INFO

Description: Failed to create application privilege.

Data: realm, application privilege name, error message

Triggers: Execute create application privilege Commandline interface.

Actions: Look under debug file for more information.

#### **ATTEMPT\_DELETE\_APPLICATION\_PRIVILEGE**

ID: AMCLI-6020

Level: INFO

Description: Attempt to delete application privilege.

Data: realm, application privilege name

Triggers: Execute delete application privilege Commandline interface.

#### **SUCCEEDED\_DELETE\_APPLICATION\_PRIVILEGE**

ID: AMCLI-6021

Level: INFO

Description: Application privilege is deleted.

Data: realm, application privilege name

Triggers: Execute delete application privilege Commandline interface.

#### **FAILED\_DELETE\_APPLICATION\_PRIVILEGE**

ID: AMCLI-6022

Level: INFO

Description: Failed to delete application privilege.

Data: realm, application privilege name, error message

Triggers: Execute delete application privilege Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_SHOW\_APPLICATION\_PRIVILEGE**

ID: AMCLI-6020

Level: INFO

Description: Attempt to show application privilege.

Data: realm, application privilege name

Triggers: Execute show application privilege Commandline interface.

### **SUCCEEDED\_SHOW\_APPLICATION\_PRIVILEGE**

ID: AMCLI-6021

Level: INFO

Description: Application privilege is displayed.

Data: realm, application privilege name

Triggers: Execute show application privilege Commandline interface.

### **FAILED\_SHOW\_APPLICATION\_PRIVILEGE**

ID: AMCLI-6022

Level: INFO

Description: Failed to show application privilege.

Data: realm, application privilege name, error message

Triggers: Execute show application privilege Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_LIST\_APPLICATION\_PRIVILEGES**

ID: AMCLI-6030

Level: INFO

Description: Attempt to list application privileges in a realm.

Data: realm

Triggers: Execute list application privileges Commandline interface.

**SUCCEEDED\_LIST\_APPLICATION\_PRIVILEGES**

ID: AMCLI-6031

Level: INFO

Description: Application privileges are displayed.

Data: realm

Triggers: Execute list application privileges Commandline interface.

**FAILED\_LIST\_APPLICATION\_PRIVILEGES**

ID: AMCLI-6032

Level: INFO

Description: Failed to list application privileges.

Data: realm, error message

Triggers: Execute list application privileges Commandline interface.

Actions: Look under debug file for more information.

**ATTEMPT\_UPDATE\_APPLICATION\_PRIVILEGE**

ID: AMCLI-6040

Level: INFO

Description: Attempt to update application privilege.

Data: realm, application privilege name

Triggers: Execute update application privilege Commandline interface.

**SUCCEEDED\_UPDATE\_APPLICATION\_PRIVILEGE**

ID: AMCLI-6041

Level: INFO

Description: Application privilege is updated.

Data: realm, application privilege name

Triggers: Execute update application privilege Commandline interface.

**FAILED\_UPDATE\_APPLICATION\_PRIVILEGE**

ID: AMCLI-6042

Level: INFO

Description: Failed to update application privilege.

Data: realm, application privilege name, error message

Triggers: Execute update application privileges Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_ADD\_PLUGIN\_SCHEMA**

ID: AMCLI-6043

Level: INFO

Description: Attempt to add Plug-in schema.

Data: name of service, name of interface, name of plugin, name of i18n key, name of i18n name, name of class

Triggers: Execute add Plug-in schema Commandline interface.

### **SUCCEED\_ADD\_PLUGIN\_SCHEMA**

ID: AMCLI-6044

Level: INFO

Description: Added Plug-in schema.

Data: name of service, name of plugin

Triggers: Execute add Plug-in schema Commandline interface.

### **FAILED\_ADD\_PLUGIN\_SCHEMA**

ID: AMCLI-6045

Level: INFO

Description: Failed to add Plug-in schema.

Data: name of service, name of plugin, error message

Triggers: Execute add Plug-in schema Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_REMOVE\_PLUGIN\_SCHEMA**

ID: AMCLI-6046



Level: INFO

Description: Attempt to remove Plug-in schema.

Data: name of service, name of interface, name of plugin, name of i18n key, name of i18n name, name of class

Triggers: Execute remove Plug-in schema Commandline interface.

### **SUCCEED\_REMOVE\_PLUGIN\_SCHEMA**

ID: AMCLI-6047

Level: INFO

Description: Removed Plug-in schema.

Data: name of service, name of plugin

Triggers: Execute remove Plug-in schema Commandline interface.

### **FAILED\_REMOVE\_PLUGIN\_SCHEMA**

ID: AMCLI-6048

Level: INFO

Description: Failed to remove Plug-in schema.

Data: name of service, name of plugin, error message

Triggers: Execute remove Plug-in schema Commandline interface.

Actions: Look under debug file for more information.

### **SUCCEED\_SET\_SITE\_ID**

ID: AMCLI-6049

Level: INFO

Description: Site ID is set.

Data: name of site, id of site

Triggers: Execute set site ID Commandline interface.

### **FAILED\_SET\_SITE\_ID**

ID: AMCLI-6050

Level: INFO

Description: Unable to set site ID.

Data: name of site, site ID, error message

Triggers: Execute set site ID Commandline interface.

Actions: Look under debug file for more information.

### **FAILED\_START\_RECORD**

ID: AMCLI-6051

Level: INFO

Description: Unable to start the record.

Data: Server name, Json record, error message

Triggers: Execute start record Commandline interface.

Actions: Look under debug file for more information.

### **FAILED\_STATUS\_RECORD**

ID: AMCLI-6052

Level: INFO

Description: Unable to get the status of the recording

Data: Server name, error message

Triggers: Execute status record Commandline interface.

Actions: Look under debug file for more information.

### **FAILED\_STOP\_RECORD**

ID: AMCLI-6054

Level: INFO

Description: Recording can't be stopped

Data: Server name, error message

Triggers: Execute stop record Commandline interface.

Actions: Look under debug file for more information.

### **SUCCESS\_START\_RECORD**

ID: AMCLI-6055

Level: INFO

Description: Start recording

Data: Server name, Json record, Json result

Triggers: Execute start record Commandline interface.

Actions: Look under debug file for more information.

### **SUCCESS\_STATUS\_RECORD**

ID: AMCLI-6056

Level: INFO

Description: Get the status of the record with success

Data: Server name, Json result

Triggers: Execute status record Commandline interface.

Actions: Look under debug file for more information.

### **SUCCESS\_STOP\_RECORD**

ID: AMCLI-6057

Level: INFO

Description: Stop recording

Data: Server name, Json result

Triggers: Execute stop record Commandline interface.

Actions: Look under debug file for more information.

### **ATTEMPT\_STOP\_RECORD**

ID: AMCLI-6058

Level: INFO

Description: Attempt to stop recording.

Data: Server name

Triggers: Stop recording OpenAM.

### **ATTEMPT\_STATUS\_RECORD**

ID: AMCLI-6059

Level: INFO

Description: Attempt to get the status of the recording.

Data: Server name

Triggers: Get the status of the current record.

### **ATTEMPT\_START\_RECORD**

ID: AMCLI-6060

Level: INFO

Description: Attempt to start recording.

Data: Server name, Json record, Json result

Triggers: Start record.

### **RESOURCE\_READ\_FAILED**

ID: AMCLI-6100

Level: INFO

Description: Failed to read resource.

Data: Resource Id, Resource type, Http code

Triggers: Attempting to read resource to determine whether to create or update.

### **RESOURCE\_UPDATE\_SUCCESS**

ID: AMCLI-6101

Level: INFO

Description: Successfully updated resource.

Data: Resource Id, Resource type

Triggers: Attempting to update an existing resource.

### **RESOURCE\_UPDATE\_FAILED**

ID: AMCLI-6102

Level: INFO

Description: Failed to update resource.

Data: Resource Id, Resource type, Http code

Triggers: Attempting to update an existing resource.

**RESOURCE\_CREATE\_SUCCESS**

ID: AMCLI-6103

Level: INFO

Description: Successfully created resource.

Data: Resource Id, Resource type

Triggers: Attempting to create a new resource.

**RESOURCE\_CREATE\_FAILED**

ID: AMCLI-6104

Level: INFO

Description: Failed to create resource.

Data: Resource Id, Resource type, Http code

Triggers: Attempting to create a new resource.

**POLICY\_EXPORT\_SUCCESS**

ID: AMCLI-6105

Level: INFO

Description: Successfully exported policy model resources.

Data: Realm, Exported File

Triggers: Executes export resource Commandline interface.

OpenAM logs the following CONSOLE messages.

**ATTEMPT\_IDENTITY\_CREATION**

ID: CONSOLE-1

Level: INFO

Description: Attempt to create Identity

Data: identity name, identity type, realm name

Triggers: Click on create button in Realm Creation Page.

**IDENTITY\_CREATED**

ID: CONSOLE-2

Level: INFO

Description: Creation of Identity succeeded.

Data: identity name, identity type, realm name

Triggers: Click on create button in Realm Creation Page.

### **SSO\_EXCEPTION\_IDENTITY\_CREATION**

ID: CONSOLE-3

Level: SEVERE

Description: Creation of Identity failed

Data: identity name, identity type, realm name, error message

Triggers: Unable to create an identity under a realm. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under data store log for more information.

### **IDM\_EXCEPTION\_IDENTITY\_CREATION**

ID: CONSOLE-4

Level: SEVERE

Description: Creation of Identity failed

Data: identity name, identity type, realm name, error message

Triggers: Unable to create an identity under a realm due to data store error.

Actions: Look under data store log for more information.

### **ATTEMPT\_SEARCH\_IDENTITY**

ID: CONSOLE-11

Level: INFO

Description: Attempt to search for Identities

Data: base realm, identity type, search pattern, search size limit, search time limit

Triggers: Click on Search button in identity search view.

### **SUCCEED\_SEARCH\_IDENTITY**

ID: CONSOLE-12

Level: INFO

Description: Searching for Identities succeeded

Data: base realm, identity type, search pattern, search size limit, search time limit

Triggers: Click on Search button in identity search view.

### **SSO\_EXCEPTION\_SEARCH\_IDENTITY**

ID: CONSOLE-13

Level: SEVERE

Description: Searching for identities failed

Data: identity name, identity type, realm name, error message

Triggers: Unable to perform search operation on identities under a realm. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under data store log for more information.

### **IDM\_EXCEPTION\_SEARCH\_IDENTITY**

ID: CONSOLE-14

Level: SEVERE

Description: Searching for identities failed

Data: identity name, identity type, realm name, error message

Triggers: Unable to perform search operation on identities under a realm due to data store error.

Actions: Look under data store log for more information.

### **ATTEMPT\_READ\_IDENTITY\_ATTRIBUTE\_VALUE**

ID: CONSOLE-21

Level: INFO

Description: Attempt to read attribute values of an identity

Data: identity name, name of attributes

Triggers: View identity profile view.

### **SUCCEED\_READ\_IDENTITY\_ATTRIBUTE\_VALUE**

ID: CONSOLE-22

Level: INFO

Description: Reading of attribute values of an identity succeeded

Data: identity name, name of attributes

Triggers: View identity profile view.

### **SSO\_EXCEPTION\_READ\_IDENTITY\_ATTRIBUTE\_VALUE**

ID: CONSOLE-23

Level: SEVERE

Description: Reading of attribute values of an identity failed

Data: identity name, name of attributes, error message

Triggers: Unable to read attribute values of an identity. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under data store log for more information.

### **IDM\_EXCEPTION\_READ\_IDENTITY\_ATTRIBUTE\_VALUE**

ID: CONSOLE-24

Level: SEVERE

Description: Reading of attribute values of an identity failed

Data: identity name, name of attributes, error message

Triggers: Unable to read attribute values of an identity due to data store error.

Actions: Look under data store log for more information.

### **SMS\_EXCEPTION\_READ\_IDENTITY\_ATTRIBUTE\_VALUE**

ID: CONSOLE-25

Level: SEVERE

Description: Reading of attribute values of an identity failed

Data: identity name, name of attributes, error message

Triggers: Unable to read attribute values of an identity due to exception service manager API.

Actions: Look under service manage log for more information.

### **ATTEMPT\_MODIFY\_IDENTITY\_ATTRIBUTE\_VALUE**

ID: CONSOLE-31



Level: INFO

Description: Attempt to modify attribute values of an identity

Data: identity name, name of attributes

Triggers: Click on Save button in identity profile view.

### **SUCCEED\_MODIFY\_IDENTITY\_ATTRIBUTE\_VALUE**

ID: CONSOLE-32

Level: INFO

Description: Modification of attribute values of an identity succeeded

Data: identity name, name of attributes

Triggers: Click on Save button in identity profile view.

### **SSO\_EXCEPTION\_MODIFY\_IDENTITY\_ATTRIBUTE\_VALUE**

ID: CONSOLE-33

Level: SEVERE

Description: Modification of attribute values of an identity failed

Data: identity name, name of attributes, error message

Triggers: Unable to modify attribute values of an identity. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under data store log for more information.

### **IDM\_EXCEPTION\_MODIFY\_IDENTITY\_ATTRIBUTE\_VALUE**

ID: CONSOLE-34

Level: SEVERE

Description: Modification of attribute values of an identity failed

Data: identity name, name of attributes, error message

Triggers: Unable to modify attribute values of an identity due to data store error.

Actions: Look under data store log for more information.

### **ATTEMPT\_DELETE\_IDENTITY**

ID: CONSOLE-41

Level: INFO

Description: Attempt to delete identities

Data: realm name, name of identities to be deleted

Triggers: Click on Delete button in identity search view.

### **SUCCEED\_DELETE\_IDENTITY**

ID: CONSOLE-42

Level: INFO

Description: Deletion of identities succeeded

Data: realm name, name of identities to be deleted

Triggers: Click on Delete button in identity search view.

### **SSO\_EXCEPTION\_DELETE\_IDENTITY**

ID: CONSOLE-43

Level: SEVERE

Description: Deletion of identities failed

Data: realm name, name of identities to be deleted, error message

Triggers: Unable to delete identities. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under data store log for more information.

### **IDM\_EXCEPTION\_DELETE\_IDENTITY**

ID: CONSOLE-44

Level: SEVERE

Description: Deletion of identities failed

Data: realm name, name of identities to be deleted, error message

Triggers: Unable to delete identities due to data store error.

Actions: Look under data store log for more information.

### **ATTEMPT\_READ\_IDENTITY\_MEMBERSHIP**

ID: CONSOLE-51

Level: INFO

Description: Attempt to read identity's memberships information

Data: name of identity, membership identity type

Triggers: View membership page of an identity.

### **SUCCEED\_READ\_IDENTITY\_MEMBERSHIP**

ID: CONSOLE-52

Level: INFO

Description: Reading of identity's memberships information succeeded

Data: name of identity, membership identity type

Triggers: View membership page of an identity.

### **SSO\_EXCEPTION\_READ\_IDENTITY\_MEMBERSHIP**

ID: CONSOLE-53

Level: SEVERE

Description: Reading of identity's memberships information failed.

Data: name of identity, membership identity type, error message

Triggers: Unable to read identity's memberships information. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under data store log for more information.

### **IDM\_EXCEPTION\_READ\_IDENTITY\_MEMBERSHIP**

ID: CONSOLE-54

Level: SEVERE

Description: Reading of identity's memberships information failed.

Data: name of identity, membership identity type, error message

Triggers: Unable to read identity's memberships information due to data store error.

Actions: Look under data store log for more information.

### **ATTEMPT\_READ\_IDENTITY\_MEMBER**

ID: CONSOLE-61

Level: INFO

Description: Attempt to read identity's members information

Data: name of identity, members identity type

Triggers: View members page of an identity.

### **SUCCEED\_READ\_IDENTITY\_MEMBER**

ID: CONSOLE-62

Level: INFO

Description: Reading of identity's members information succeeded

Data: name of identity, members identity type

Triggers: View members page of an identity.

### **SSO\_EXCEPTION\_READ\_IDENTITY\_MEMBER**

ID: CONSOLE-63

Level: SEVERE

Description: Reading of identity's members information failed.

Data: name of identity, member identity type, error message

Triggers: Unable to read identity's members information. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under data store log for more information.

### **IDM\_EXCEPTION\_READ\_IDENTITY\_MEMBER**

ID: CONSOLE-64

Level: SEVERE

Description: Reading of identity's members information failed.

Data: name of identity, member identity type, error message

Triggers: Unable to read identity's members information due to data store error.

Actions: Look under data store log for more information.

### **ATTEMPT\_ADD\_IDENTITY\_MEMBER**

ID: CONSOLE-71

Level: INFO

Description: Attempt to add member to an identity

Data: name of identity, name of identity to be added.

Triggers: Select members to be added to an identity.

### **SUCCEED\_ADD\_IDENTITY\_MEMBER**

ID: CONSOLE-72

Level: INFO

Description: Addition of member to an identity succeeded

Data: name of identity, name of identity added.

Triggers: Select members to be added to an identity.

### **SSO\_EXCEPTION\_ADD\_IDENTITY\_MEMBER**

ID: CONSOLE-73

Level: SEVERE

Description: Addition of member to an identity failed.

Data: name of identity, name of identity to be added., error message

Triggers: Unable to add member to an identity. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under data store log for more information.

### **IDM\_EXCEPTION\_ADD\_IDENTITY\_MEMBER**

ID: CONSOLE-74

Level: SEVERE

Description: Addition of member to an identity failed.

Data: name of identity, name of identity to be added., error message

Triggers: Unable to add member to an identity due to data store error.

Actions: Look under data store log for more information.

### **ATTEMPT\_REMOVE\_IDENTITY\_MEMBER**

ID: CONSOLE-81

Level: INFO

Description: Attempt to remove member from an identity

Data: name of identity, name of identity to be removed.

Triggers: Select members to be removed from an identity.

### **SUCCEED\_REMOVE\_IDENTITY\_MEMBER**

ID: CONSOLE-82

Level: INFO

Description: Removal of member from an identity succeeded

Data: name of identity, name of identity removed.

Triggers: Select members to be removed from an identity.

### **SSO\_EXCEPTION\_REMOVE\_IDENTITY\_MEMBER**

ID: CONSOLE-83

Level: SEVERE

Description: Removal of member to an identity failed.

Data: name of identity, name of identity to be removed., error message

Triggers: Unable to remove member from an identity. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under data store log for more information.

### **IDM\_EXCEPTION\_REMOVE\_IDENTITY\_MEMBER**

ID: CONSOLE-84

Level: SEVERE

Description: Removal of member from an identity failed.

Data: name of identity, name of identity to be removed., error message

Triggers: Unable to remove member to an identity due to data store error.

Actions: Look under data store log for more information.

### **ATTEMPT\_READ\_IDENTITY\_ASSIGNED\_SERVICE**

ID: CONSOLE-91

Level: INFO

Description: Attempt to read assigned service names of an identity

Data: name of identity

Triggers: Click on Add button in service assignment view of an identity.

### **SUCCEED\_READ\_IDENTITY\_ASSIGNED\_SERVICE**

ID: CONSOLE-92

Level: INFO

Description: Reading assigned service names of an identity succeeded

Data: name of identity

Triggers: Click on Add button in service assignment view of an identity.

### **SSO\_EXCEPTION\_READ\_IDENTITY\_ASSIGNED\_SERVICE**

ID: CONSOLE-93

Level: SEVERE

Description: Reading assigned service names of an identity failed.

Data: name of identity, error message

Triggers: Unable to read assigned service names of an identity. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under data store log for more information.

### **IDM\_EXCEPTION\_READ\_IDENTITY\_ASSIGNED\_SERVICE**

ID: CONSOLE-94

Level: SEVERE

Description: Reading assigned service names of an identity failed.

Data: name of identity, error message

Triggers: Unable to read assigned service names of an identity due to data store error.

Actions: Look under data store log for more information.

### **ATTEMPT\_READ\_IDENTITY\_ASSIGNABLE\_SERVICE**

ID: CONSOLE-101

Level: INFO

Description: Attempt to read assignable service names of an identity

Data: name of identity

Triggers: View the services page of an identity.

### **SUCCEED\_READ\_IDENTITY\_ASSIGNABLE\_SERVICE**

ID: CONSOLE-102

Level: INFO

Description: Reading assignable service names of an identity succeeded

Data: name of identity

Triggers: View the services page of an identity.

### **SSO\_EXCEPTION\_READ\_IDENTITY\_ASSIGNABLE\_SERVICE**

ID: CONSOLE-103

Level: SEVERE

Description: Reading assignable service names of an identity failed.

Data: name of identity, error message

Triggers: Unable to read assignable service names of an identity. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under data store log for more information.

### **IDM\_EXCEPTION\_READ\_IDENTITY\_ASSIGNABLE\_SERVICE**

ID: CONSOLE-104

Level: SEVERE

Description: Reading assignable service names of an identity failed.

Data: name of identity, error message

Triggers: Unable to read assignable service names of an identity due to data store error.

Actions: Look under data store log for more information.

### **ATTEMPT\_IDENTITY\_ASSIGN\_SERVICE**

ID: CONSOLE-111



Level: INFO

Description: Attempt to assign a service to an identity

Data: name of identity, name of service

Triggers: Click Add button of service view of an identity.

### **SUCCEED\_IDENTITY\_ASSIGN\_SERVICE**

ID: CONSOLE-112

Level: INFO

Description: Assignment of service to an identity succeeded

Data: name of identity, name of service

Triggers: Click Add button of service view of an identity.

### **SSO\_EXCEPTION\_IDENTITY\_ASSIGN\_SERVICE**

ID: CONSOLE-113

Level: SEVERE

Description: Assignment of service to an identity failed.

Data: name of identity, name of service, error message

Triggers: Unable to assign service to an identity. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under data store log for more information.

### **IDM\_EXCEPTION\_IDENTITY\_ASSIGN\_SERVICE**

ID: CONSOLE-114

Level: SEVERE

Description: Assignment of service to an identity failed.

Data: name of identity, name of service, error message

Triggers: Unable to assign service to an identity due to data store error.

Actions: Look under data store log for more information.

### **ATTEMPT\_IDENTITY\_UNASSIGN\_SERVICE**

ID: CONSOLE-121

Level: INFO

Description: Attempt to unassign a service from an identity

Data: name of identity, name of service

Triggers: Click Remove button in service view of an identity.

### **SUCCEED\_IDENTITY\_UNASSIGN\_SERVICE**

ID: CONSOLE-122

Level: INFO

Description: Unassignment of service to an identity succeeded

Data: name of identity, name of service

Triggers: Click Remove button in service view of an identity.

### **SSO\_EXCEPTION\_IDENTITY\_UNASSIGN\_SERVICE**

ID: CONSOLE-123

Level: SEVERE

Description: Unassignment of service from an identity failed.

Data: name of identity, name of service, error message

Triggers: Unable to unassign service from an identity. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under data store log for more information.

### **IDM\_EXCEPTION\_IDENTITY\_UNASSIGN\_SERVICE**

ID: CONSOLE-124

Level: SEVERE

Description: Unassignment of service from an identity failed.

Data: name of identity, name of service, error message

Triggers: Unable to unassign service from an identity due to data store error.

Actions: Look under data store log for more information.

### **ATTEMPT\_IDENTITY\_READ\_SERVICE\_ATTRIBUTE\_VALUES**

ID: CONSOLE-131

Level: INFO

Description: Attempt to read service attribute values of an identity

Data: name of identity, name of service

Triggers: View service profile view of an identity.

### **SUCCEED\_IDENTITY\_READ\_SERVICE\_ATTRIBUTE\_VALUES**

ID: CONSOLE-132

Level: INFO

Description: Reading of service attribute values of an identity succeeded

Data: name of identity, name of service

Triggers: View service profile view of an identity.

### **SSO\_EXCEPTION\_IDENTITY\_READ\_SERVICE\_ATTRIBUTE\_VALUES**

ID: CONSOLE-133

Level: SEVERE

Description: Reading of service attribute values of an identity failed.

Data: name of identity, name of service, error message

Triggers: Unable to read service attribute values of an identity. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation

Actions: Look under data store log for more information.

### **IDM\_EXCEPTION\_IDENTITY\_READ\_SERVICE\_ATTRIBUTE\_VALUES**

ID: CONSOLE-134

Level: SEVERE

Description: Reading of service attribute values of an identity failed.

Data: name of identity, name of service, error message

Triggers: Unable to read service attribute values of an identity due to data store error.

Actions: Look under data store log for more information.

### **ATTEMPT\_IDENTITY\_WRITE\_SERVICE\_ATTRIBUTE\_VALUES**

ID: CONSOLE-141

Level: INFO

Description: Attempt to write service attribute values to an identity

Data: name of identity, name of service

Triggers: Click on Save button in service profile view of an identity.

### **SUCCEED\_IDENTITY\_WRITE\_SERVICE\_ATTRIBUTE\_VALUES**

ID: CONSOLE-142

Level: INFO

Description: Writing of service attribute values to an identity succeeded

Data: name of identity, name of service

Triggers: Click on Save button in service profile view of an identity.

### **SSO\_EXCEPTION\_IDENTITY\_WRITE\_SERVICE\_ATTRIBUTE\_VALUES**

ID: CONSOLE-143

Level: SEVERE

Description: Writing of service attribute values to an identity failed.

Data: name of identity, name of service, error message

Triggers: Unable to write service attribute values to an identity. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under data store log for more information.

### **IDM\_EXCEPTION\_IDENTITY\_WRITE\_SERVICE\_ATTRIBUTE\_VALUES**

ID: CONSOLE-144

Level: SEVERE

Description: Writing of service attribute values to an identity failed.

Data: name of identity, name of service, error message

Triggers: Unable to write service attribute values to an identity due to data store error.

Actions: Look under data store log for more information.

### **ATTEMPT\_READ\_ALL\_GLOBAL\_DEFAULT\_ATTRIBUTE\_VALUES**

ID: CONSOLE-201

Level: INFO

Description: Attempt to read all global service default attribute values

Data: name of service

Triggers: View global configuration view of a service.

**SUCCEED\_READ\_ALL\_GLOBAL\_DEFAULT\_ATTRIBUTE\_VALUES**

ID: CONSOLE-202

Level: INFO

Description: Reading of all global service default attribute values succeeded

Data: name of service

Triggers: View global configuration view of a service.

**ATTEMPT\_READ\_GLOBAL\_DEFAULT\_ATTRIBUTE\_VALUES**

ID: CONSOLE-203

Level: INFO

Description: Attempt to read global service default attribute values

Data: name of service, name of attribute

Triggers: View global configuration view of a service.

**SUCCEED\_READ\_GLOBAL\_DEFAULT\_ATTRIBUTE\_VALUES**

ID: CONSOLE-204

Level: INFO

Description: Reading of global service default attribute values succeeded

Data: name of service, name of attribute

Triggers: View global configuration view of a service.

**FAILED\_READ\_GLOBAL\_DEFAULT\_ATTRIBUTE\_VALUES**

ID: CONSOLE-205

Level: INFO

Description: Reading of global service default attribute values failed

Data: name of service, name of attribute

Triggers: View global configuration view of a service.

Actions: Look under service management log for more information.

**ATTEMPT\_WRITE\_GLOBAL\_DEFAULT\_ATTRIBUTE\_VALUES**

ID: CONSOLE-211

Level: INFO

Description: Attempt to write global service default attribute values

Data: name of service, name of attribute

Triggers: Click on Save button in global configuration view of a service.

### **SUCCEED\_WRITE\_GLOBAL\_DEFAULT\_ATTRIBUTE\_VALUES**

ID: CONSOLE-212

Level: INFO

Description: Writing of global service default attribute values succeeded

Data: name of service, name of attribute

Triggers: Click on Save button in global configuration view of a service.

### **SSO\_EXCEPTION\_WRITE\_GLOBAL\_DEFAULT\_ATTRIBUTE\_VALUES**

ID: CONSOLE-213

Level: SEVERE

Description: Writing of global service default attribute values failed.

Data: name of service, name of attribute, error message

Triggers: Unable to write global service default attribute values. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under service management log for more information.

### **SMS\_EXCEPTION\_WRITE\_GLOBAL\_DEFAULT\_ATTRIBUTE\_VALUES**

ID: CONSOLE-214

Level: SEVERE

Description: Writing of global service default attribute values failed.

Data: name of service, name of attribute, error message

Triggers: Unable to write service default attribute values due to service management error.

Actions: Look under service management log for more information.

### **ATTEMPT\_READ\_GLOBAL\_SUB\_CONFIGURATION\_NAMES**

ID: CONSOLE-221

Level: INFO

Description: Attempt to get sub configuration names

Data: name of service, name of base global sub configuration

Triggers: View a global service view of which its service has sub schema.

### **SUCCEED\_READ\_GLOBAL\_SUB\_CONFIGURATION\_NAMES**

ID: CONSOLE-222

Level: INFO

Description: Reading of global sub configuration names succeeded

Data: name of service, name of base global sub configuration

Triggers: View a global service view of which its service has sub schema.

### **SSO\_EXCEPTION\_READ\_GLOBAL\_SUB\_CONFIGURATION\_NAMES**

ID: CONSOLE-223

Level: SEVERE

Description: Reading of global sub configuration names failed.

Data: name of service, name of base global sub configuration, error message

Triggers: Unable to get global sub configuration names. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under service management log for more information.

### **SMS\_EXCEPTION\_READ\_GLOBAL\_SUB\_CONFIGURATION\_NAMES**

ID: CONSOLE-224

Level: SEVERE

Description: Reading of global sub configuration names failed.

Data: name of service, name of base global sub configuration, error message

Triggers: Unable to get global sub configuration names due to service management error.

Actions: Look under service management log for more information.

### **ATTEMPT\_DELETE\_GLOBAL\_SUB\_CONFIGURATION**

ID: CONSOLE-231

Level: INFO

Description: Attempt to delete sub configuration

Data: name of service, name of base global sub configuration, name of sub configuration to be deleted

Triggers: Click on delete selected button in global service profile view.

### **SUCCEED\_DELETE\_GLOBAL\_SUB\_CONFIGURATION**

ID: CONSOLE-232

Level: INFO

Description: Deletion of sub configuration succeeded

Data: name of service, name of base global sub configuration, name of sub configuration to be deleted

Triggers: Click on delete selected button in global service profile view.

### **SSO\_EXCEPTION\_DELETE\_GLOBAL\_SUB\_CONFIGURATION**

ID: CONSOLE-233

Level: SEVERE

Description: Deletion of sub configuration failed.

Data: name of service, name of base global sub configuration, name of sub configuration to be deleted, error message

Triggers: Unable to delete sub configuration. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under service management log for more information.

### **SMS\_EXCEPTION\_DELETE\_GLOBAL\_SUB\_CONFIGURATION**

ID: CONSOLE-234

Level: SEVERE

Description: Deletion of sub configuration failed.

Data: name of service, name of base global sub configuration, name of sub configuration to be deleted, error message

Triggers: Unable to delete sub configuration due to service management error.

Actions: Look under service management log for more information.

### **ATTEMPT\_CREATE\_GLOBAL\_SUB\_CONFIGURATION**

ID: CONSOLE-241



Level: INFO

Description: Attempt to create sub configuration

Data: name of service, name of base global sub configuration, name of sub configuration to be created, name of sub schema to be created

Triggers: Click on add button in create sub configuration view.

### **SUCCEED\_CREATE\_GLOBAL\_SUB\_CONFIGURATION**

ID: CONSOLE-242

Level: INFO

Description: Creation of sub configuration succeeded

Data: name of service, name of base global sub configuration, name of sub configuration to be created, name of sub schema to be created

Triggers: Click on add button in create sub configuration view.

### **SSO\_EXCEPTION\_CREATE\_GLOBAL\_SUB\_CONFIGURATION**

ID: CONSOLE-243

Level: SEVERE

Description: Creation of sub configuration failed.

Data: name of service, name of base global sub configuration, name of sub configuration to be created, name of sub schema to be created, error message

Triggers: Unable to create sub configuration. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under service management log for more information.

### **SMS\_EXCEPTION\_CREATE\_GLOBAL\_SUB\_CONFIGURATION**

ID: CONSOLE-244

Level: SEVERE

Description: Creation of sub configuration failed.

Data: name of service, name of base global sub configuration, name of sub configuration to be created, name of sub schema to be created, error message

Triggers: Unable to create sub configuration due to service management error.

Actions: Look under service management log for more information.

**SUCCEED\_READ\_GLOBAL\_SUB\_CONFIGURATION\_ATTRIBUTE\_VALUES**

ID: CONSOLE-251

Level: INFO

Description: Reading of sub configuration's attribute values succeeded

Data: name of service, name of sub configuration

Triggers: View sub configuration profile view.

**ATTEMPT\_WRITE\_GLOBAL\_SUB\_CONFIGURATION\_ATTRIBUTE\_VALUES**

ID: CONSOLE-261

Level: INFO

Description: Attempt to write sub configuration's attribute values

Data: name of service, name of sub configuration

Triggers: Click on save button in sub configuration profile view.

**SUCCEED\_WRITE\_GLOBAL\_SUB\_CONFIGURATION\_ATTRIBUTE\_VALUES**

ID: CONSOLE-262

Level: INFO

Description: Writing of sub configuration's attribute values succeeded

Data: name of service, name of sub configuration

Triggers: Click on save button in sub configuration profile view.

**SSO\_EXCEPTION\_WRITE\_GLOBAL\_SUB\_CONFIGURATION\_ATTRIBUTE\_VALUES**

ID: CONSOLE-263

Level: SEVERE

Description: Writing of sub configuration's attribute value failed.

Data: name of service, name of sub configuration, error message

Triggers: Unable to write sub configuration's attribute values. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under service management log for more information.

**SMS\_EXCEPTION\_WRITE\_GLOBAL\_SUB\_CONFIGURATION\_ATTRIBUTE\_VALUES\_NAMES**

ID: CONSOLE-264

Level: SEVERE

Description: Writing of sub configuration's attribute value failed.

Data: name of service, name of sub configuration, error message

Triggers: Unable to write sub configuration's attribute value due to service management error.

Actions: Look under service management log for more information.

### **ATTEMPT\_GET\_POLICY\_NAMES**

ID: CONSOLE-301

Level: INFO

Description: Attempt to get policy names under a realm.

Data: name of realm

Triggers: View policy main page.

### **SUCCEED\_GET\_POLICY\_NAMES**

ID: CONSOLE-302

Level: INFO

Description: Getting policy names under a realm succeeded

Data: name of realm

Triggers: View policy main page.

### **SSO\_EXCEPTION\_GET\_POLICY\_NAMES**

ID: CONSOLE-303

Level: SEVERE

Description: Getting policy names under a realm failed.

Data: name of realm, error message

Triggers: Unable to get policy names under a realm. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under policy log for more information.

### **POLICY\_EXCEPTION\_GET\_POLICY\_NAMES**

ID: CONSOLE-304

Level: SEVERE

Description: Getting policy names under a realm failed.

Data: name of realm, error message

Triggers: Unable to get policy names under a realm due to policy SDK related errors.

Actions: Look under policy log for more information.

#### **ATTEMPT\_CREATE\_POLICY**

ID: CONSOLE-311

Level: INFO

Description: Attempt to create policy under a realm.

Data: name of realm, name of policy

Triggers: Click on New button in policy creation page.

#### **SUCCEED\_CREATE\_POLICY**

ID: CONSOLE-312

Level: INFO

Description: Creation of policy succeeded

Data: name of realm, name of policy

Triggers: Click on New button in policy creation page.

#### **SSO\_EXCEPTION\_CREATE\_POLICY**

ID: CONSOLE-313

Level: SEVERE

Description: Creation of policy failed.

Data: name of realm, name of policy, error message

Triggers: Unable to create policy under a realm. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under policy log for more information.

#### **POLICY\_EXCEPTION\_CREATE\_POLICY**

ID: CONSOLE-314

Level: SEVERE

Description: Creation of policy failed.

Data: name of realm, name of policy, error message

Triggers: Unable to create policy under a realm due to policy SDK related errors.

Actions: Look under policy log for more information.

### **ATTEMPT\_MODIFY\_POLICY**

ID: CONSOLE-321

Level: INFO

Description: Attempt to modify policy.

Data: name of realm, name of policy

Triggers: Click on Save button in policy profile page.

### **SUCCEED\_MODIFY\_POLICY**

ID: CONSOLE-322

Level: INFO

Description: Modification of policy succeeded

Data: name of realm, name of policy

Triggers: Click on Save button in policy profile page.

### **SSO\_EXCEPTION\_MODIFY\_POLICY**

ID: CONSOLE-323

Level: SEVERE

Description: Modification of policy failed.

Data: name of realm, name of policy, error message

Triggers: Unable to modify policy under a realm. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under policy log for more information.

### **POLICY\_EXCEPTION\_MODIFY\_POLICY**

ID: CONSOLE-324

Level: SEVERE

Description: Modification of policy failed.

Data: name of realm, name of policy, error message

Triggers: Unable to modify policy due to policy SDK related errors.

Actions: Look under policy log for more information.

### **ATTEMPT\_DELETE\_POLICY**

ID: CONSOLE-331

Level: INFO

Description: Attempt to delete policy.

Data: name of realm, names of policies

Triggers: Click on Delete button in policy main page.

### **SUCCEED\_DELETE\_POLICY**

ID: CONSOLE-332

Level: INFO

Description: Deletion of policy succeeded

Data: name of realm, name of policies

Triggers: Click on Delete button in policy main page.

### **SSO\_EXCEPTION\_DELETE\_POLICY**

ID: CONSOLE-333

Level: SEVERE

Description: Deletion of policy failed.

Data: name of realm, name of policies, error message

Triggers: Unable to delete policy. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under policy log for more information.

### **POLICY\_EXCEPTION\_DELETE\_POLICY**

ID: CONSOLE-334

Level: SEVERE

Description: Deletion of policy failed.

Data: name of realm, name of policies, error message

Triggers: Unable to delete policy due to policy SDK related errors.

Actions: Look under policy log for more information.

**ATTEMPT\_GET\_REALM\_NAMES**

ID: CONSOLE-401

Level: INFO

Description: Attempt to get realm names

Data: name of parent realm

Triggers: View realm main page.

**SUCCEED\_GET\_REALM\_NAMES**

ID: CONSOLE-402

Level: INFO

Description: Getting realm names succeeded.

Data: name of parent realm

Triggers: View realm main page.

**SMS\_EXCEPTION\_GET\_REALM\_NAMES**

ID: CONSOLE-403

Level: SEVERE

Description: Getting realm names failed.

Data: name of parent realm, error message

Triggers: Unable to get realm names due to service management SDK exception.

Actions: Look under service management log for more information.

**ATTEMPT\_CREATE\_REALM**

ID: CONSOLE-411

Level: INFO

Description: Attempt to create realm

Data: name of parent realm, name of new realm

Triggers: Click on New button in create realm page.

**SUCCEED\_CREATE\_REALM**

ID: CONSOLE-412

Level: INFO

Description: Creation of realm succeeded.

Data: name of parent realm, name of new realm

Triggers: Click on New button in create realm page.

### **SMS\_EXCEPTION\_CREATE\_REALM**

ID: CONSOLE-413

Level: SEVERE

Description: Creation of realm failed.

Data: name of parent realm, name of new realm, error message

Triggers: Unable to create new realm due to service management SDK exception.

Actions: Look under service management log for more information.

### **ATTEMPT\_DELETE\_REALM**

ID: CONSOLE-421

Level: INFO

Description: Attempt to delete realm

Data: name of parent realm, name of realm to delete

Triggers: Click on Delete button in realm main page.

### **SUCCEED\_DELETE\_REALM**

ID: CONSOLE-422

Level: INFO

Description: Deletion of realm succeeded.

Data: name of parent realm, name of realm to delete

Triggers: Click on Delete button in realm main page.

### **SMS\_EXCEPTION\_DELETE\_REALM**

ID: CONSOLE-423

Level: SEVERE

Description: Deletion of realm failed.



Data: name of parent realm, name of realm to delete, error message

Triggers: Unable to delete realm due to service management SDK exception.

Actions: Look under service management log for more information.

#### **ATTEMPT\_GET\_ATTR\_VALUES\_OF\_REALM**

ID: CONSOLE-431

Level: INFO

Description: Attempt to get attribute values of realm

Data: name of realm

Triggers: View realm profile page.

#### **SUCCEED\_GET\_ATTR\_VALUES\_OF\_REALM**

ID: CONSOLE-432

Level: INFO

Description: Getting attribute values of realm succeeded.

Data: name of realm

Triggers: View realm profile page.

#### **SMS\_EXCEPTION\_GET\_ATTR\_VALUES\_OF\_REALM**

ID: CONSOLE-433

Level: SEVERE

Description: Getting attribute values of realm failed.

Data: name of realm, error message

Triggers: Unable to get attribute values of realm due to service management SDK exception.

Actions: Look under service management log for more information.

#### **ATTEMPT\_SET\_ATTR\_VALUES\_OF\_REALM**

ID: CONSOLE-441

Level: INFO

Description: Attempt to modify realm's profile

Data: name of realm

Triggers: Click on Save button in realm profile page.

### **SUCCEED\_SET\_ATTR\_VALUES\_OF\_REALM**

ID: CONSOLE-442

Level: INFO

Description: Modification of realm's profile succeeded.

Data: name of realm

Triggers: Click on Save button in realm profile page.

### **SMS\_EXCEPTION\_SET\_ATTR\_VALUES\_OF\_REALM**

ID: CONSOLE-443

Level: SEVERE

Description: Modification of realm's profile failed.

Data: name of realm, error message

Triggers: Unable to modify realm's profile due to service management SDK exception.

Actions: Look under service management log for more information.

### **ATTEMPT\_GET\_DELEGATION\_SUBJECTS**

ID: CONSOLE-501

Level: INFO

Description: Attempt to get delegation subjects under a realm

Data: name of realm, search pattern

Triggers: View delegation main page.

### **SUCCEED\_GET\_DELEGATION\_SUBJECTS**

ID: CONSOLE-502

Level: INFO

Description: Getting delegation subjects under a realm succeeded.

Data: name of realm, search pattern

Triggers: View delegation main page.

### **SSO\_EXCEPTION\_GET\_DELEGATION\_SUBJECTS**

ID: CONSOLE-503

Level: SEVERE

Description: Getting delegation subjects under a realm failed.

Data: name of realm, search pattern, error message

Triggers: Unable to get delegation subjects. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under delegation management log for more information.

## **DELEGATION\_EXCEPTION\_GET\_DELEGATION\_SUBJECTS**

ID: CONSOLE-504

Level: SEVERE

Description: Getting delegation subjects under a realm failed.

Data: name of realm, search pattern, error message

Triggers: Unable to get delegation subjects due to delegation management SDK related errors.

Actions: Look under delegation management log for more information.

## **ATTEMPT\_GET\_PRIVILEGES\_OF\_DELEGATION\_SUBJECT**

ID: CONSOLE-511

Level: INFO

Description: Attempt to get privileges of delegation subject

Data: name of realm, ID of delegation subject

Triggers: View delegation subject profile page.

## **SUCCEED\_GET\_PRIVILEGES\_OF\_DELEGATION\_SUBJECT**

ID: CONSOLE-512

Level: INFO

Description: Getting privileges of delegation subject succeeded.

Data: name of realm, ID of delegation subject

Triggers: View delegation subject profile page.

## **SSO\_EXCEPTION\_GET\_PRIVILEGES\_OF\_DELEGATION\_SUBJECT**

ID: CONSOLE-513

Level: SEVERE

Description: Getting privileges of delegation subject failed.

Data: name of realm, ID of delegation subject, error message

Triggers: Unable to get privileges of delegation subject. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under delegation management log for more information.

## **DELEGATION\_EXCEPTION\_GET\_PRIVILEGES\_OF\_DELEGATION\_SUBJECT**

ID: CONSOLE-514

Level: SEVERE

Description: Getting privileges of delegation subject failed.

Data: name of realm, ID of delegation subject, error message

Triggers: Unable to get privileges of delegation subject due to delegation management SDK related errors.

Actions: Look under delegation management log for more information.

## **ATTEMPT\_MODIFY\_DELEGATION\_PRIVILEGE**

ID: CONSOLE-521

Level: INFO

Description: Attempt to modify delegation privilege

Data: name of realm, ID of delegation privilege, ID of subject

Triggers: Click on Save button in delegation subject profile page.

## **SUCCEED\_MODIFY\_DELEGATION\_PRIVILEGE**

ID: CONSOLE-522

Level: INFO

Description: Modification of delegation privilege succeeded.

Data: name of realm, ID of delegation privilege, ID of subject

Triggers: Click on Save button in delegation subject profile page.

## **SSO\_EXCEPTION\_MODIFY\_DELEGATION\_PRIVILEGE**

ID: CONSOLE-523

Level: SEVERE

Description: Modification of delegation privilege failed.

Data: name of realm, ID of delegation privilege, ID of subject, error message

Triggers: Unable to modify delegation privilege. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under delegation management log for more information.

## **DELEGATION\_EXCEPTION\_MODIFY\_DELEGATION\_PRIVILEGE**

ID: CONSOLE-524

Level: SEVERE

Description: Modification of delegation privilege failed.

Data: name of realm, ID of delegation privilege, ID of subject, error message

Triggers: Unable to modify delegation privilege due to delegation management SDK related errors.

Actions: Look under delegation management log for more information.

## **ATTEMPT\_GET\_ID\_REPO\_NAMES**

ID: CONSOLE-601

Level: INFO

Description: Attempt to get data store names

Data: name of realm

Triggers: View data store main page.

## **SUCCEED\_GET\_ID\_REPO\_NAMES**

ID: CONSOLE-602

Level: INFO

Description: Getting data store names succeeded.

Data: name of realm

Triggers: View data store main page.

## **SSO\_EXCEPTION\_GET\_ID\_REPO\_NAMES**

ID: CONSOLE-603

Level: SEVERE

Description: Getting data store names failed.

Data: name of realm, error message

Triggers: Unable to get data store names. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under service management log for more information.

### **SMS\_EXCEPTION\_GET\_ID\_REPO\_NAMES**

ID: CONSOLE-604

Level: SEVERE

Description: Getting data store names failed.

Data: name of realm, error message

Triggers: Unable to get data store names due to service management SDK exception.

Actions: Look under service management log for more information.

### **ATTEMPT\_GET\_ATTR\_VALUES\_ID\_REPO**

ID: CONSOLE-611

Level: INFO

Description: Attempt to get attribute values of identity repository

Data: name of realm, name of identity repository

Triggers: View data store profile page.

### **SUCCEED\_GET\_ATTR\_VALUES\_ID\_REPO**

ID: CONSOLE-612

Level: INFO

Description: Getting attribute values of data store succeeded.

Data: name of realm, name of identity repository

Triggers: View data store profile page.

### **SSO\_EXCEPTION\_GET\_ATTR\_VALUES\_ID\_REPO**

ID: CONSOLE-613

Level: SEVERE

Description: Getting attribute values of data store failed.

Data: name of realm, name of identity repository, error message

Triggers: Unable to get attribute values of identity repository. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under service management log for more information.

### **SMS\_EXCEPTION\_GET\_ATTR\_VALUES\_ID\_REPO**

ID: CONSOLE-614

Level: SEVERE

Description: Getting attribute values of data store failed.

Data: name of realm, name of identity repository, error message

Triggers: Unable to get attribute values of data store due to service management SDK exception.

Actions: Look under service management log for more information.

### **ATTEMPT\_CREATE\_ID\_REPO**

ID: CONSOLE-621

Level: INFO

Description: Attempt to create identity repository

Data: name of realm, name of identity repository, type of identity repository

Triggers: Click on New button in data store creation page.

### **SUCCEED\_CREATE\_ID\_REPO**

ID: CONSOLE-622

Level: INFO

Description: Creation of data store succeeded.

Data: name of realm, name of identity repository, type of identity repository

Triggers: Click on New button in data store creation page.

### **SSO\_EXCEPTION\_CREATE\_ID\_REPO**

ID: CONSOLE-623

Level: SEVERE

Description: Creation of data store failed.

Data: name of realm, name of identity repository, type of identity repository, error message

Triggers: Unable to create identity repository. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under service management log for more information.

### **SMS\_EXCEPTION\_CREATE\_ID\_REPO**

ID: CONSOLE-624

Level: SEVERE

Description: Creation data store failed.

Data: name of realm, name of identity repository, type of identity repository, error message

Triggers: Unable to create data store due to service management SDK exception.

Actions: Look under service management log for more information.

### **ATTEMPT\_DELETE\_ID\_REPO**

ID: CONSOLE-631

Level: INFO

Description: Attempt to delete identity repository

Data: name of realm, name of identity repository

Triggers: Click on Delete button in data store main page.

### **SUCCEED\_DELETE\_ID\_REPO**

ID: CONSOLE-632

Level: INFO

Description: Deletion of data store succeeded.

Data: name of realm, name of identity repository

Triggers: Click on Delete button in data store main page.

### **SSO\_EXCEPTION\_DELETE\_ID\_REPO**

ID: CONSOLE-633



Level: SEVERE

Description: Deletion of data store failed.

Data: name of realm, name of identity repository, error message

Triggers: Unable to delete identity repository. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under service management log for more information.

### **SMS\_EXCEPTION\_DELETE\_ID\_REPO**

ID: CONSOLE-634

Level: SEVERE

Description: Deletion data store failed.

Data: name of realm, name of identity repository, error message

Triggers: Unable to delete data store due to service management SDK exception.

Actions: Look under service management log for more information.

### **ATTEMPT\_MODIFY\_ID\_REPO**

ID: CONSOLE-641

Level: INFO

Description: Attempt to modify identity repository

Data: name of realm, name of identity repository

Triggers: Click on Save button in data store profile page.

### **SUCCEED\_MODIFY\_ID\_REPO**

ID: CONSOLE-642

Level: INFO

Description: Modification of data store succeeded.

Data: name of realm, name of identity repository

Triggers: Click on Save button in data store profile page.

### **SSO\_EXCEPTION\_MODIFY\_ID\_REPO**

ID: CONSOLE-643

Level: SEVERE

Description: Modification of data store failed.

Data: name of realm, name of identity repository, error message

Triggers: Unable to modify identity repository. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under service management log for more information.

### **SMS\_EXCEPTION\_MODIFY\_ID\_REPO**

ID: CONSOLE-644

Level: SEVERE

Description: Modification data store failed.

Data: name of realm, name of identity repository, error message

Triggers: Unable to modify data store due to service management SDK exception.

Actions: Look under service management log for more information.

### **ATTEMPT\_GET\_ASSIGNED\_SERVICE\_OF\_REALM**

ID: CONSOLE-701

Level: INFO

Description: Attempt to get assigned services of realm

Data: name of realm

Triggers: View realm's service main page.

### **SUCCEED\_GET\_ASSIGNED\_SERVICE\_OF\_REALM**

ID: CONSOLE-702

Level: INFO

Description: Getting assigned services of realm succeeded.

Data: name of realm

Triggers: View realm's service main page.

### **CONFIGURATION\_EXCEPTION\_GET\_ASSIGNED\_SERVICE\_OF\_REALM**

ID: CONSOLE-703

Level: SEVERE

Description: Getting assigned services of realm failed.

Data: name of realm, error message

Triggers: Unable to get assigned services of realm due authentication configuration exception.

Actions: Look under authentication log for more information.

### **SMS\_EXCEPTION\_GET\_ASSIGNED\_SERVICE\_OF\_REALM**

ID: CONSOLE-704

Level: SEVERE

Description: Getting assigned services of realm failed.

Data: name of realm, error message

Triggers: Unable to get assigned services of realm due to service management SDK exception.

Actions: Look under service management log for more information.

### **IDREPO\_EXCEPTION\_GET\_ASSIGNED\_SERVICE\_OF\_REALM**

ID: CONSOLE-705

Level: SEVERE

Description: Getting assigned services of realm failed.

Data: name of realm, error message

Triggers: Unable to get assigned services of realm due to data store SDK exception.

Actions: Look under service management log for more information.

### **SSO\_EXCEPTION\_GET\_ASSIGNED\_SERVICE\_OF\_REALM**

ID: CONSOLE-706

Level: SEVERE

Description: Getting assigned services of realm failed.

Data: name of realm, error message

Triggers: Unable to get assigned services of realm. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under service management log for more information.

### **ATTEMPT\_GET\_ASSIGNABLE\_SERVICE\_OF\_REALM**

ID: CONSOLE-711

Level: INFO

Description: Attempt to get assignable services of realm

Data: name of realm

Triggers: View realm's service main page.

### **SUCCEED\_GET\_ASSIGNABLE\_SERVICE\_OF\_REALM**

ID: CONSOLE-712

Level: INFO

Description: Getting assignable services of realm succeeded.

Data: name of realm

Triggers: View realm's service main page.

### **CONFIGURATION\_EXCEPTION\_GET\_ASSIGNABLE\_SERVICE\_OF\_REALM**

ID: CONSOLE-713

Level: SEVERE

Description: Getting assignable services of realm failed.

Data: name of realm, error message

Triggers: Unable to get assignable services of realm due authentication configuration exception.

Actions: Look under authentication log for more information.

### **SMS\_EXCEPTION\_GET\_ASSIGNABLE\_SERVICE\_OF\_REALM**

ID: CONSOLE-714

Level: SEVERE

Description: Getting assignable services of realm failed.

Data: name of realm, error message

Triggers: Unable to get assignable services of realm due to service management SDK exception.

Actions: Look under service management log for more information.

### **IDREPO\_EXCEPTION\_GET\_ASSIGNABLE\_SERVICE\_OF\_REALM**

ID: CONSOLE-715

Level: SEVERE

Description: Getting assignable services of realm failed.

Data: name of realm, error message

Triggers: Unable to get assignable services of realm due to ID Repository management SDK exception.

Actions: Look under ID Repository management log for more information.

### **SSO\_EXCEPTION\_GET\_ASSIGNABLE\_SERVICE\_OF\_REALM**

ID: CONSOLE-716

Level: SEVERE

Description: Getting assignable services of realm failed.

Data: name of realm, error message

Triggers: Unable to get assignable services of realm. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under service management log for more information.

### **ATTEMPT\_UNASSIGN\_SERVICE\_FROM\_REALM**

ID: CONSOLE-721

Level: INFO

Description: Attempt to unassign service from realm

Data: name of realm, name of service

Triggers: Click on Unassign button in realm's service page.

### **SUCCEED\_UNASSIGN\_SERVICE\_FROM\_REALM**

ID: CONSOLE-722

Level: INFO

Description: Unassign service from realm succeeded.

Data: name of realm, name of service

Triggers: Click on Unassign button in realm's service page.

### **SMS\_EXCEPTION\_UNASSIGN\_SERVICE\_FROM\_REALM**

ID: CONSOLE-723

Level: SEVERE

Description: Unassign service from realm failed.

Data: name of realm, name of service, error message

Triggers: Unable to unassign service from realm due to service management SDK exception.

Actions: Look under service management log for more information.

### **SSO\_EXCEPTION\_UNASSIGN\_SERVICE\_FROM\_REALM**

ID: CONSOLE-725

Level: SEVERE

Description: Unassign service from realm failed.

Data: name of realm, name of service, error message

Triggers: Unable to unassign service from realm. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under data store management log for more information.

### **IDREPO\_EXCEPTION\_UNASSIGN\_SERVICE\_FROM\_REALM**

ID: CONSOLE-724

Level: SEVERE

Description: Unassign service from realm failed.

Data: name of realm, name of service, error message

Triggers: Unable to unassign service from realm due to data store management SDK exception.

Actions: Look under data store management log for more information.

### **ATTEMPT\_ASSIGN\_SERVICE\_TO\_REALM**

ID: CONSOLE-731

Level: INFO

Description: Attempt to assign service to realm

Data: name of realm, name of service

Triggers: Click on assign button in realm's service page.

### **SUCCEED\_ASSIGN\_SERVICE\_TO\_REALM**

ID: CONSOLE-732

Level: INFO

Description: Assignment of service to realm succeeded.

Data: name of realm, name of service

Triggers: Click on assign button in realm's service page.

### **SMS\_EXCEPTION\_ASSIGN\_SERVICE\_TO\_REALM**

ID: CONSOLE-733

Level: SEVERE

Description: Assignment of service to realm failed.

Data: name of realm, name of service, error message

Triggers: Unable to assign service to realm due to service management SDK exception.

Actions: Look under service management log for more information.

### **SSO\_EXCEPTION\_ASSIGN\_SERVICE\_TO\_REALM**

ID: CONSOLE-734

Level: SEVERE

Description: Assignment of service to realm failed.

Data: name of realm, name of service, error message

Triggers: Unable to assign service to realm. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under service management log for more information.

### **IDREPO\_EXCEPTION\_ASSIGN\_SERVICE\_TO\_REALM**

ID: CONSOLE-735

Level: SEVERE

Description: Assignment of service to realm failed.

Data: name of realm, name of service, error message

Triggers: Unable to assign service to realm due to data store SDK exception.

Actions: Look under service management log for more information.

### **ATTEMPT\_GET\_ATTR\_VALUE\_OF\_SERVICE\_UNDER\_REALM**

ID: CONSOLE-741

Level: INFO

Description: Attempt to get attribute values of service in realm

Data: name of realm, name of service, name of attribute schema

Triggers: View realm's service profile page.

### **SUCCEED\_GET\_ATTR\_VALUE\_OF\_SERVICE\_UNDER\_REALM**

ID: CONSOLE-742

Level: INFO

Description: Getting of attribute values of service under realm succeeded.

Data: name of realm, name of service, name of attribute schema

Triggers: View realm's service profile page.

### **SMS\_EXCEPTION\_GET\_ATTR\_VALUE\_OF\_SERVICE\_UNDER\_REALM**

ID: CONSOLE-743

Level: SEVERE

Description: Getting of attribute values of service under realm failed.

Data: name of realm, name of service, name of attribute schema, error message

Triggers: Unable to get attribute values of service due to service management SDK exception.

Actions: Look under service management log for more information.

### **IDREPO\_EXCEPTION\_GET\_ATTR\_VALUE\_OF\_SERVICE\_UNDER\_REALM**

ID: CONSOLE-744

Level: INFO

Description: Getting of attribute values of service under realm failed.

Data: name of realm, name of service, name of attribute schema, error message

Triggers: Unable to get attribute values of service due to data store SDK exception.

Actions: Look under service management log for more information.

### **SSO\_EXCEPTION\_GET\_ATTR\_VALUE\_OF\_SERVICE\_UNDER\_REALM**

ID: CONSOLE-745

Level: SEVERE

Description: Getting of attribute values of service under realm failed.

Data: name of realm, name of service, name of attribute schema, error message



Triggers: Unable to get attribute values of service. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under service management log for more information.

### **ATTEMPT\_MODIFY\_SERVICE\_UNDER\_REALM**

ID: CONSOLE-751

Level: INFO

Description: Attempt to modify attribute values of service in realm

Data: name of realm, name of service

Triggers: Click on Save button in realm's service profile page.

### **SUCCEED\_MODIFY\_SERVICE\_UNDER\_REALM**

ID: CONSOLE-752

Level: INFO

Description: Modification of attribute values of service under realm succeeded.

Data: name of realm, name of service

Triggers: Click on Save button in realm's service profile page.

### **SMS\_EXCEPTION\_MODIFY\_SERVICE\_UNDER\_REALM**

ID: CONSOLE-753

Level: SEVERE

Description: Modification of attribute values of service under realm failed.

Data: name of realm, name of service, error message

Triggers: Unable to modify attribute values of service due to service management SDK exception.

Actions: Look under service management log for more information.

### **IDREPO\_EXCEPTION\_MODIFY\_SERVICE\_UNDER\_REALM**

ID: CONSOLE-754

Level: SEVERE

Description: Modification of attribute values of service under realm failed.

Data: name of realm, name of service, error message

Triggers: Unable to modify attribute values of service due to data store error.

Actions: Look under data store log for more information.

### **SSO\_EXCEPTION\_MODIFY\_SERVICE\_UNDER\_REALM**

ID: CONSOLE-755

Level: SEVERE

Description: Modification of attribute values of service under realm failed.

Data: name of realm, name of service, error message

Triggers: Unable to modify attribute values of service. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation

Actions: Look under data store log for more information.

### **ATTEMPT\_GET\_AUTH\_TYPE**

ID: CONSOLE-801

Level: INFO

Description: Attempt to get authentication type

Data: server instance name

Triggers: View authentication profile page.

### **SUCCEED\_GET\_AUTH\_TYPE**

ID: CONSOLE-802

Level: INFO

Description: Getting of authentication type succeeded.

Data: server instance name

Triggers: View authentication profile page.

### **SMS\_EXCEPTION\_GET\_AUTH\_TYPE**

ID: CONSOLE-803

Level: SEVERE

Description: Getting of authentication type failed.

Data: error message

Triggers: Unable to get authentication type due to authentication configuration SDK exception.

Actions: Look under authentication management log for more information.

**ATTEMPT\_GET\_AUTH\_INSTANCE**

ID: CONSOLE-811

Level: INFO

Description: Attempt to get authentication instances under a realm

Data: name of realm

Triggers: View authentication profile page.

**SUCCEED\_GET\_AUTH\_INSTANCE**

ID: CONSOLE-812

Level: INFO

Description: Getting of authentication instances under a realm succeeded.

Data: name of realm

Triggers: View authentication profile page.

**AUTH\_CONFIG\_EXCEPTION\_GET\_AUTH\_INSTANCE**

ID: CONSOLE-813

Level: SEVERE

Description: Getting of authentication instances under a realm failed.

Data: name of realm, error message

Triggers: Unable to get authentication instance due to authentication configuration SDK exception.

Actions: Look under authentication management log for more information.

**ATTEMPT\_REMOVE\_AUTH\_INSTANCE**

ID: CONSOLE-821

Level: INFO

Description: Attempt to remove authentication instances under a realm

Data: name of realm, name of authentication instance

Triggers: View authentication profile page.

**SUCCEED\_REMOVE\_AUTH\_INSTANCE**

ID: CONSOLE-822

Level: INFO

Description: Removal of authentication instances under a realm succeeded.

Data: name of realm, name of authentication instance

Triggers: View authentication profile page.

#### **AUTH\_CONFIG\_EXCEPTION\_REMOVE\_AUTH\_INSTANCE**

ID: CONSOLE-823

Level: SEVERE

Description: Removal of authentication instances under a realm failed.

Data: name of realm, name of authentication instance, error message

Triggers: Unable to remove authentication instance due to authentication configuration SDK exception.

Actions: Look under authentication management log for more information.

#### **ATTEMPT\_CREATE\_AUTH\_INSTANCE**

ID: CONSOLE-831

Level: INFO

Description: Attempt to create authentication instance under a realm

Data: name of realm, name of authentication instance, type of authentication instance

Triggers: Click on New button in authentication creation page.

#### **SUCCEED\_CREATE\_AUTH\_INSTANCE**

ID: CONSOLE-832

Level: INFO

Description: Creation of authentication instance under a realm succeeded.

Data: name of realm, name of authentication instance, type of authentication instance

Triggers: Click on New button in authentication creation page.

#### **AUTH\_CONFIG\_EXCEPTION\_CREATE\_AUTH\_INSTANCE**

ID: CONSOLE-833

Level: SEVERE

Description: Creation of authentication instance under a realm failed.

Data: name of realm, name of authentication instance, type of authentication instance, error message

Triggers: Unable to create authentication instance due to authentication configuration exception.

Actions: Look under authentication configuration log for more information.

### **ATTEMPT\_MODIFY\_AUTH\_INSTANCE**

ID: CONSOLE-841

Level: INFO

Description: Attempt to modify authentication instance

Data: name of realm, name of authentication service

Triggers: Click on Save button in authentication profile page.

### **SUCCEED\_MODIFY\_AUTH\_INSTANCE**

ID: CONSOLE-842

Level: INFO

Description: Modification of authentication instance succeeded.

Data: name of realm, name of authentication service

Triggers: Click on Save button in authentication profile page.

### **SMS\_EXCEPTION\_MODIFY\_AUTH\_INSTANCE**

ID: CONSOLE-843

Level: SEVERE

Description: Modification of authentication instance failed.

Data: name of realm, name of authentication service, error message

Triggers: Unable to modify authentication instance due to service management SDK exception.

Actions: Look under service anagement log for more information.

### **SSO\_EXCEPTION\_MODIFY\_AUTH\_INSTANCE**

ID: CONSOLE-844

Level: SEVERE

Description: Modification of authentication instance failed.

Data: name of realm, name of authentication service, error message

Triggers: Unable to modify authentication instance. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under service management log for more information.

#### **ATTEMPT\_GET\_AUTH\_INSTANCE\_PROFILE**

ID: CONSOLE-851

Level: INFO

Description: Attempt to get authentication instance profile

Data: name of realm, name of authentication instance

Triggers: View authentication instance profile page.

#### **SUCCEED\_GET\_AUTH\_INSTANCE\_PROFILE**

ID: CONSOLE-852

Level: INFO

Description: Getting of authentication instance profile succeeded.

Data: name of realm, name of authentication instance

Triggers: View authentication instance profile page.

#### **AUTH\_CONFIGURATION\_EXCEPTION\_GET\_AUTH\_INSTANCE\_PROFILE**

ID: CONSOLE-853

Level: SEVERE

Description: Getting of authentication instance profile failed.

Data: name of realm, name of authentication instance, error message

Triggers: Unable to get authentication instance profile due to authentication configuration SDK exception.

Actions: Look under authentication management log for more information.

#### **ATTEMPT\_MODIFY\_AUTH\_INSTANCE\_PROFILE**

ID: CONSOLE-861

Level: INFO

Description: Attempt to modify authentication instance profile

Data: name of realm, name of authentication instance

Triggers: Click on Save button in authentication instance profile page.

### **SUCCEED\_MODIFY\_AUTH\_INSTANCE\_PROFILE**

ID: CONSOLE-862

Level: INFO

Description: Modification of authentication instance profile succeeded.

Data: name of realm, name of authentication instance

Triggers: Click on Save button in authentication instance profile page.

### **AUTH\_CONFIGURATION\_EXCEPTION\_MODIFY\_AUTH\_INSTANCE\_PROFILE**

ID: CONSOLE-863

Level: SEVERE

Description: Modification of authentication instance profile failed.

Data: name of realm, name of authentication instance, error message

Triggers: Unable to modify authentication instance profile due to authentication configuration SDK exception.

Actions: Look under authentication management log for more information.

### **SMS\_EXCEPTION\_MODIFY\_AUTH\_INSTANCE\_PROFILE**

ID: CONSOLE-864

Level: SEVERE

Description: Modification of authentication instance profile failed.

Data: name of realm, name of authentication instance, error message

Triggers: Unable to modify authentication instance profile due to service management SDK exception.

Actions: Look under service management log for more information.

### **SSO\_EXCEPTION\_MODIFY\_AUTH\_INSTANCE\_PROFILE**

ID: CONSOLE-865

Level: SEVERE

Description: Modification of authentication instance profile failed.

Data: name of realm, name of authentication instance, error message

Triggers: Unable to modify authentication instance profile. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under service management log for more information.

#### **ATTEMPT\_GET\_AUTH\_PROFILE\_IN\_REALM**

ID: CONSOLE-871

Level: INFO

Description: Attempt to get authentication profile under a realm

Data: name of realm

Triggers: View authentication profile under a realm page.

#### **SUCCEED\_GET\_AUTH\_PROFILE\_IN\_REALM**

ID: CONSOLE-872

Level: INFO

Description: Getting authentication profile under a realm succeeded.

Data: name of realm

Triggers: View authentication profile under a realm page.

#### **SMS\_CONFIGURATION\_EXCEPTION\_GET\_AUTH\_PROFILE\_IN\_REALM**

ID: CONSOLE-873

Level: SEVERE

Description: Getting authentication profile under a realm failed.

Data: name of realm, error message

Triggers: Unable to get authentication profile under a realm due to service management SDK exception.

Actions: Look under service management log for more information.

#### **ATTEMPT\_GET\_AUTH\_CONFIG\_PROFILE**

ID: CONSOLE-881

Level: INFO

Description: Attempt to get authentication configuration profile

Data: name of realm, name of authentication configuration



Triggers: View authentication configuration profile page.

### **SUCCEED\_GET\_AUTH\_CONFIG\_PROFILE**

ID: CONSOLE-882

Level: INFO

Description: Getting authentication configuration profile succeeded.

Data: name of realm, name of authentication configuration

Triggers: View authentication configuration profile page.

### **SSO\_EXCEPTION\_GET\_AUTH\_CONFIG\_PROFILE**

ID: CONSOLE-883

Level: SEVERE

Description: Getting authentication configuration profile failed.

Data: name of realm, name of authentication configuration, error message

Triggers: Unable to get authentication configuration profile. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under service management log for more information.

### **SMS\_EXCEPTION\_GET\_AUTH\_CONFIG\_PROFILE**

ID: CONSOLE-884

Level: SEVERE

Description: Getting authentication configuration profile failed.

Data: name of realm, name of authentication configuration, error message

Triggers: Unable to get authentication configuration profile due to service management SDK exception.

Actions: Look under service management log for more information.

### **AUTH\_CONFIGURATION\_EXCEPTION\_GET\_AUTH\_CONFIG\_PROFILE**

ID: CONSOLE-885

Level: SEVERE

Description: Getting authentication configuration profile failed.

Data: name of realm, name of authentication configuration, error message

Triggers: Unable to get authentication configuration profile due to authentication configuration SDK exception.

Actions: Look under authentication configuration log for more information.

#### **ATTEMPT\_MODIFY\_AUTH\_CONFIG\_PROFILE**

ID: CONSOLE-891

Level: INFO

Description: Attempt to modify authentication configuration profile

Data: name of realm, name of authentication configuration

Triggers: Click on Save button in authentication configuration profile page.

#### **SUCCEED\_MODIFY\_AUTH\_CONFIG\_PROFILE**

ID: CONSOLE-892

Level: INFO

Description: Modification of authentication configuration profile succeeded.

Data: name of realm, name of authentication configuration

Triggers: Click on Save button in authentication configuration profile page.

#### **SSO\_EXCEPTION\_MODIFY\_AUTH\_CONFIG\_PROFILE**

ID: CONSOLE-893

Level: SEVERE

Description: Modification of authentication configuration profile failed.

Data: name of realm, name of authentication configuration, error message

Triggers: Unable to modify authentication configuration profile. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under service management log for more information.

#### **SMS\_EXCEPTION\_MODIFY\_AUTH\_CONFIG\_PROFILE**

ID: CONSOLE-894

Level: SEVERE

Description: Modification of authentication configuration profile failed.

Data: name of realm, name of authentication configuration, error message

Triggers: Unable to modify authentication configuration profile due to service management SDK exception.

Actions: Look under service management log for more information.

### **AUTH\_CONFIGURATION\_EXCEPTION\_MODIFY\_AUTH\_CONFIG\_PROFILE**

ID: CONSOLE-895

Level: SEVERE

Description: Modification of authentication configuration profile failed.

Data: name of realm, name of authentication configuration, error message

Triggers: Unable to modify authentication configuration profile due to authentication configuration SDK exception.

Actions: Look under authentication configuration log for more information.

### **ATTEMPT\_CREATE\_AUTH\_CONFIG**

ID: CONSOLE-901

Level: INFO

Description: Attempt to create authentication configuration

Data: name of realm, name of authentication configuration

Triggers: Click on New button in authentication configuration creation page.

### **SUCCEED\_CREATE\_AUTH\_CONFIG**

ID: CONSOLE-902

Level: INFO

Description: Creation of authentication configuration succeeded.

Data: name of realm, name of authentication configuration

Triggers: Click on New button in authentication configuration creation page.

### **SSO\_EXCEPTION\_CREATE\_AUTH\_CONFIG**

ID: CONSOLE-903

Level: SEVERE

Description: Creation of authentication configuration failed.

Data: name of realm, name of authentication configuration, error message

Triggers: Unable to create authentication configuration. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under service management log for more information.

### **SMS\_EXCEPTION\_CREATE\_AUTH\_CONFIG**

ID: CONSOLE-904

Level: SEVERE

Description: Creation of authentication configuration failed.

Data: name of realm, name of authentication configuration, error message

Triggers: Unable to create authentication configuration due to service management SDK exception.

Actions: Look under service management log for more information.

### **AUTH\_CONFIGURATION\_EXCEPTION\_CREATE\_AUTH\_CONFIG**

ID: CONSOLE-905

Level: SEVERE

Description: Creation of authentication configuration failed.

Data: name of realm, name of authentication configuration, error message

Triggers: Unable to create authentication configuration due to authentication configuration SDK exception.

Actions: Look under authentication configuration log for more information.

### **ATTEMPT\_GET\_ENTITY\_DESCRIPTOR**

ID: CONSOLE-1001

Level: INFO

Description: Attempt to get entity descriptor names.

Data: search pattern

Triggers: View entity descriptor main page.

### **SUCCEED\_GET\_ENTITY\_DESCRIPTOR**

ID: CONSOLE-1002

Level: INFO

Description: Getting entity descriptor names succeeded

Data: search pattern

Triggers: View entity descriptor main page.

#### **FEDERATION\_EXCEPTION\_GET\_ENTITY\_DESCRIPTOR**

ID: CONSOLE-1003

Level: SEVERE

Description: Getting entity descriptor names failed.

Data: search pattern, error message

Triggers: Unable to get entity descriptor names due to federation SDK related errors.

Actions: Look under federation log for more information.

#### **ATTEMPT\_CREATE\_ENTITY\_DESCRIPTOR**

ID: CONSOLE-1011

Level: INFO

Description: Attempt to create entity descriptor.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type

Triggers: Click on New button in entity descriptor creation page.

#### **SUCCEED\_CREATE\_ENTITY\_DESCRIPTOR**

ID: CONSOLE-1012

Level: INFO

Description: Creation entity descriptor succeeded

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type

Triggers: Click on New button in entity descriptor creation page.

#### **FEDERATION\_EXCEPTION\_CREATE\_ENTITY\_DESCRIPTOR**

ID: CONSOLE-1013

Level: SEVERE

Description: Creation entity descriptor failed.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type, error message

Triggers: Unable to create entity descriptor due to federation SDK related errors.

Actions: Look under federation log for more information.

### **ATTEMPT\_DELETE\_ENTITY\_DESCRIPTOR**

ID: CONSOLE-1021

Level: INFO

Description: Attempt to delete entity descriptors.

Data: descriptor names

Triggers: Click on Delete button in entity descriptor main page.

### **SUCCEED\_DELETE\_ENTITY\_DESCRIPTOR**

ID: CONSOLE-1022

Level: INFO

Description: Deletion entity descriptors succeeded

Data: descriptor names

Triggers: Click on Delete button in entity descriptor main page.

### **FEDERATION\_EXCEPTION\_DELETE\_ENTITY\_DESCRIPTOR**

ID: CONSOLE-1023

Level: SEVERE

Description: Deletion entity descriptors failed.

Data: descriptor names, error message

Triggers: Unable to delete entity descriptors due to federation SDK related errors.

Actions: Look under federation log for more information.

### **ATTEMPT\_GET\_AFFILIATE\_ENTITY\_DESCRIPTOR\_ATTR\_VALUES**

ID: CONSOLE-1031

Level: INFO

Description: Attempt to get attribute values of an affiliate entity descriptor.

Data: descriptor realm, descriptor name, descriptor protocol

Triggers: View affiliate entity descriptor profile page.

**SUCCEED\_GET\_AFFILIATE\_ENTITY\_DESCRIPTOR\_ATTR\_VALUES**

ID: CONSOLE-1032

Level: INFO

Description: Getting of attribute values of an affiliate entity descriptor succeeded.

Data: descriptor realm, descriptor name, descriptor protocol

Triggers: View affiliate entity descriptor profile page.

**FEDERATION\_EXCEPTION\_GET\_AFFILIATE\_ENTITY\_DESCRIPTOR\_ATTR\_VALUES**

ID: CONSOLE-1033

Level: SEVERE

Description: Getting of attribute values of an affiliate entity descriptor failed.

Data: descriptor realm, descriptor name, descriptor protocol, error message

Triggers: Unable to get attribute value of an affiliate entity descriptor due to federation SDK related errors.

Actions: Look under federation log for more information.

**ATTEMPT\_MODIFY\_AFFILIATE\_ENTITY\_DESCRIPTOR**

ID: CONSOLE-1041

Level: INFO

Description: Attempt to modify an affiliate entity descriptor.

Data: descriptor realm, descriptor name, descriptor protocol

Triggers: Click on Save button of affiliate entity descriptor profile page.

**SUCCEED\_MODIFY\_AFFILIATE\_ENTITY\_DESCRIPTOR**

ID: CONSOLE-1042

Level: INFO

Description: Modification of an affiliate entity descriptor succeeded.

Data: descriptor realm, descriptor name, descriptor protocol

Triggers: Click on Save button of affiliate entity descriptor profile page.

**FEDERATION\_EXCEPTION\_MODIFY\_AFFILIATE\_ENTITY\_DESCRIPTOR**

ID: CONSOLE-1043

Level: SEVERE

Description: Modification of an affiliate entity descriptor failed.

Data: descriptor realm, descriptor name, descriptor protocol, error message

Triggers: Unable to modify an affiliate entity descriptor due to federation SDK related errors.

Actions: Look under federation log for more information.

#### **ATTRIBUTE\_FORMAT\_EXCEPTION\_MODIFY\_AFFILIATE\_ENTITY\_DESCRIPTOR**

ID: CONSOLE-1044

Level: SEVERE

Description: Modification of an affiliate entity descriptor failed.

Data: descriptor name, error message

Triggers: Unable to modify an affiliate entity descriptor due to incorrect number format of one or more attribute values.

Actions: Look under federation log for more information.

#### **ATTEMPT\_GET\_ENTITY\_DESCRIPTOR\_ATTR\_VALUES**

ID: CONSOLE-1051

Level: INFO

Description: Attempt to get attribute values of an entity descriptor.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type

Triggers: View entity descriptor profile page.

#### **SUCCEED\_GET\_ENTITY\_DESCRIPTOR\_ATTR\_VALUES**

ID: CONSOLE-1052

Level: INFO

Description: Getting attribute values of entity descriptor succeeded.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type

Triggers: View entity descriptor profile page.

#### **FEDERATION\_EXCEPTION\_GET\_ENTITY\_DESCRIPTOR\_ATTR\_VALUES**

ID: CONSOLE-1053



Level: SEVERE

Description: Getting attribute values of entity descriptor failed.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type, error message

Triggers: Unable to get attribute values of entity descriptor due to federation SDK related errors.

Actions: Look under federation log for more information.

### **ATTEMPT\_MODIFY\_ENTITY\_DESCRIPTOR**

ID: CONSOLE-1061

Level: INFO

Description: Attempt to modify entity descriptor.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type

Triggers: Click on Save button in entity descriptor profile page.

### **SUCCEED\_MODIFY\_ENTITY\_DESCRIPTOR**

ID: CONSOLE-1062

Level: INFO

Description: Modification of entity descriptor succeeded.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type

Triggers: Click on Save button in entity descriptor profile page.

### **FEDERATION\_EXCEPTION\_MODIFY\_ENTITY\_DESCRIPTOR**

ID: CONSOLE-1063

Level: SEVERE

Description: Modification of entity descriptor failed.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type, error message

Triggers: Unable to modify entity descriptor due to federation SDK related errors.

Actions: Look under federation log for more information.

### **ATTEMPT\_GET\_AUTH\_DOMAINS**

ID: CONSOLE-1101

Level: INFO

Description: Attempt to get authentication domain names.

Data: search pattern

Triggers: View authentication domain main page.

### **SUCCEED\_GET\_AUTH\_DOMAINS**

ID: CONSOLE-1102

Level: INFO

Description: Getting authentication domain names succeeded.

Data: search pattern

Triggers: View authentication domain main page.

### **FEDERATION\_EXCEPTION\_GET\_AUTH\_DOMAINS**

ID: CONSOLE-1103

Level: SEVERE

Description: Getting authentication domain names failed.

Data: name of realm, error message

Triggers: Unable to get authentication domain names due to federation SDK related errors.

Actions: Look under federation log for more information.

### **ATTEMPT\_CREATE\_AUTH\_DOMAIN**

ID: CONSOLE-1111

Level: INFO

Description: Attempt to create authentication domain

Data: name of authentication domain

Triggers: Click on New button in authentication domain creation page.

### **SUCCEED\_CREATE\_AUTH\_DOMAIN**

ID: CONSOLE-1112

Level: INFO

Description: Creation authentication domain succeeded.

Data: name of authentication domain

Triggers: Click on New button in authentication domain creation page.

**FEDERATION\_EXCEPTION\_CREATE\_AUTH\_DOMAIN**

ID: CONSOLE-1113

Level: SEVERE

Description: Creation authentication domain failed.

Data: name of authentication domain, error message

Triggers: Unable to create authentication domain due to federation SDK related errors.

Actions: Look under federation log for more information.

**ATTEMPT\_DELETE\_AUTH\_DOMAINS**

ID: CONSOLE-1121

Level: INFO

Description: Attempt to delete authentication domains

Data: name of realm, name of authentication domains

Triggers: Click on Delete button in authentication domain main page.

**SUCCEED\_DELETE\_AUTH\_DOMAIN**

ID: CONSOLE-1122

Level: INFO

Description: Deletion authentication domain succeeded.

Data: name of realm, name of authentication domains

Triggers: Click on Delete button in authentication domain main page.

**FEDERATION\_EXCEPTION\_DELETE\_AUTH\_DOMAIN**

ID: CONSOLE-1123

Level: SEVERE

Description: Deletion authentication domain failed.

Data: name of realm, name of authentication domains, error message

Triggers: Unable to delete authentication domain due to federation SDK related errors.

Actions: Look under federation log for more information.

**ATTEMPT\_GET\_AUTH\_DOMAIN\_ATTR\_VALUES**

ID: CONSOLE-1131

Level: INFO

Description: Attempt to get authentication domain's attribute values

Data: name of realm, name of authentication domain

Triggers: View authentication domain profile page.

**SUCCEED\_GET\_AUTH\_DOMAIN\_ATTR\_VALUES**

ID: CONSOLE-1132

Level: INFO

Description: Getting attribute values of authentication domain succeeded.

Data: name of realm, name of authentication domain

Triggers: View authentication domain profile page.

**FEDERATION\_EXCEPTION\_GET\_AUTH\_DOMAIN\_ATTR\_VALUES**

ID: CONSOLE-1133

Level: SEVERE

Description: Getting attribute values of authentication domain failed.

Data: name of realm, name of authentication domains, error message

Triggers: Unable to get attribute values of authentication domain due to federation SDK related errors.

Actions: Look under federation log for more information.

**ATTEMPT\_MODIFY\_AUTH\_DOMAIN**

ID: CONSOLE-1141

Level: INFO

Description: Attempt to modify authentication domain

Data: name of realm, name of authentication domain

Triggers: Click on Save button in authentication domain profile page.

**SUCCEED\_MODIFY\_AUTH\_DOMAIN**

ID: CONSOLE-1142

Level: INFO

Description: Modification authentication domain succeeded.

Data: name of realm, name of authentication domain

Triggers: Click on Save button in authentication domain profile page.

#### **FEDERATION\_EXCEPTION\_MODIFY\_AUTH\_DOMAIN**

ID: CONSOLE-1143

Level: SEVERE

Description: Modification authentication domain failed.

Data: name of realm, name of authentication domain, error message

Triggers: Unable to modify authentication domain due to federation SDK related errors.

Actions: Look under federation log for more information.

#### **ATTEMPT\_GET\_ALL\_PROVIDER\_NAMES**

ID: CONSOLE-1151

Level: INFO

Description: Attempt to get all provider names

Data: realm name

Triggers: View authentication domain profile page.

#### **SUCCEED\_GET\_ALL\_PROVIDER\_NAMES**

ID: CONSOLE-1152

Level: INFO

Description: Getting all provider names succeeded.

Data: realm name

Triggers: View authentication domain profile page.

#### **FEDERATION\_EXCEPTION\_GET\_ALL\_PROVIDER\_NAMES**

ID: CONSOLE-1153

Level: SEVERE

Description: Getting all provider names failed.

Data: error message

Triggers: Unable to get all provider names due to federation SDK related errors.

Actions: Look under federation log for more information.

#### **ATTEMPT\_GET\_PROVIDER\_NAMES\_UNDER\_AUTH\_DOMAIN**

ID: CONSOLE-1161

Level: INFO

Description: Attempt to get provider names under a authentication domain

Data: name of realm, name of authentication domain

Triggers: View authentication domain profile page.

#### **SUCCEED\_GET\_PROVIDER\_NAMES\_UNDER\_AUTH\_DOMAIN**

ID: CONSOLE-1162

Level: INFO

Description: Getting provider names under authentication domain succeeded.

Data: name of realm, name of authentication domain

Triggers: View authentication domain profile page.

#### **FEDERATION\_EXCEPTION\_GET\_PROVIDER\_NAMES\_UNDER\_AUTH\_DOMAIN**

ID: CONSOLE-1163

Level: SEVERE

Description: Getting provider names under authentication domain failed.

Data: name of realm, name of authentication domain, error message

Triggers: Unable to get provider names under authentication domain due to federation SDK related errors.

Actions: Look under federation log for more information.

#### **ATTEMPT\_ADD\_PROVIDERS\_TO\_AUTH\_DOMAIN**

ID: CONSOLE-1171

Level: INFO

Description: Attempt to add providers to an authentication domain

Data: name of realm, name of authentication domain, name of providers

Triggers: Click on Save button in provider assignment page.

### **SUCCEED\_ADD\_PROVIDERS\_TO\_AUTH\_DOMAIN**

ID: CONSOLE-1172

Level: INFO

Description: Addition of provider to an authentication domain succeeded.

Data: name of realm, name of authentication domain, name of providers

Triggers: Click on Save button in provider assignment page.

### **FEDERATION\_EXCEPTION\_ADD\_PROVIDERS\_TO\_AUTH\_DOMAIN**

ID: CONSOLE-1173

Level: SEVERE

Description: Addition of provider to an authentication domain failed.

Data: name of realm, name of authentication domain, name of providers, error message

Triggers: Unable to add provider to authentication domain due to federation SDK related errors.

Actions: Look under federation log for more information.

### **ATTEMPT\_REMOVE\_PROVIDERS\_FROM\_AUTH\_DOMAIN**

ID: CONSOLE-1181

Level: INFO

Description: Attempt to remove providers from authentication domain

Data: name of realm, name of authentication domain, name of providers

Triggers: Click on Save button in provider assignment page.

### **SUCCEED\_REMOVE\_PROVIDERS\_FROM\_AUTH\_DOMAIN**

ID: CONSOLE-1182

Level: INFO

Description: Deletion of providers from authentication domain succeeded.

Data: name of realm, name of authentication domain, name of providers

Triggers: Click on Save button in provider assignment page.

**FEDERATION\_EXCEPTION\_REMOVE\_PROVIDERS\_FROM\_AUTH\_DOMAIN**

ID: CONSOLE-1183

Level: SEVERE

Description: Deletion of provider from authentication domain failed.

Data: name of realm, name of authentication domain, name of providers, error message

Triggers: Unable to remove provider from authentication domain due to federation SDK related errors.

Actions: Look under federation log for more information.

**ATTEMPT\_CREATE\_PROVIDER**

ID: CONSOLE-1301

Level: INFO

Description: Attempt to create provider

Data: name of provider, role of provider, type of provider

Triggers: Click on Save button in provider assignment page.

**SUCCEED\_CREATE\_PROVIDER**

ID: CONSOLE-1302

Level: INFO

Description: Creation of providers succeeded.

Data: name of provider, role of provider, type of provider

Triggers: Click on Save button in provider assignment page.

**FEDERATION\_EXCEPTION\_CREATE\_PROVIDER**

ID: CONSOLE-1303

Level: SEVERE

Description: Creation of provider failed.

Data: name of provider, role of provider, type of provider, error message

Triggers: Unable to create provider due to federation SDK related errors.

Actions: Look under federation log for more information.



**FEDERATION\_EXCEPTION\_CREATE\_PROVIDER**

ID: CONSOLE-1304

Level: SEVERE

Description: Creation of provider failed.

Data: name of provider, role of provider, type of provider, error message

Triggers: Unable to create provider due to federation SDK related errors.

Actions: Look under federation log for more information.

**INVOCATION\_TARGET\_EXCEPTION\_CREATE\_PROVIDER**

ID: CONSOLE-1305

Level: SEVERE

Description: Creation of provider failed.

Data: name of provider, role of provider, type of provider, error message

Triggers: Unable to create provider because Administration Console cannot find the appropriate methods to set values for this provider.

Actions: This is a web application error. Please contact Sun Support for assistant.

**ATTEMPT\_GET\_PROVIDER\_ATTRIBUTE\_VALUES**

ID: CONSOLE-1311

Level: INFO

Description: Attempt to get attribute values for provider

Data: name of provider, role of provider, type of provider

Triggers: View provider profile page.

**SUCCEED\_GET\_PROVIDER\_ATTRIBUTE\_VALUES**

ID: CONSOLE-1312

Level: INFO

Description: Getting attribute values of providers succeeded.

Data: name of provider, role of provider, type of provider

Triggers: View provider profile page.

**ATTEMPT\_GET\_HANDLER\_TO\_PROVIDER**

ID: CONSOLE-1321

Level: INFO

Description: Attempt to get handler to provider

Data: name of provider, role of provider

Triggers: View provider profile page.

**SUCCEED\_GET\_HANDLER\_TO\_PROVIDER**

ID: CONSOLE-1322

Level: INFO

Description: Getting handler to provider succeeded.

Data: name of provider, role of provider

Triggers: View provider profile page.

**FEDERATION\_EXCEPTION\_GET\_HANDLER\_TO\_PROVIDER**

ID: CONSOLE-1323

Level: SEVERE

Description: Getting handler to provider failed.

Data: name of provider, role of provider, error message

Triggers: Unable to get handler to provider due to federation SDK related errors.

Actions: Look under federation log for more information.

**ATTEMPT\_MODIFY\_PROVIDER**

ID: CONSOLE-1331

Level: INFO

Description: Attempt to modify provider

Data: name of provider, role of provider

Triggers: Click on Save button in provider profile page.

**SUCCEED\_MODIFY\_PROVIDER**

ID: CONSOLE-1332

Level: INFO

Description: Modification of provider succeeded.

Data: name of provider, role of provider

Triggers: Click on Save button in provider profile page.

### **FEDERATION\_EXCEPTION\_MODIFY\_PROVIDER**

ID: CONSOLE-1333

Level: SEVERE

Description: Modification of provider failed.

Data: name of provider, role of provider, error message

Triggers: Unable to modify provider due to federation SDK related errors.

Actions: Look under federation log for more information.

### **INVOCATION\_TARGET\_EXCEPTION\_MODIFY\_PROVIDER**

ID: CONSOLE-1334

Level: SEVERE

Description: Modification of provider failed.

Data: name of provider, role of provider, error message

Triggers: Unable to modify provider because Administration Console cannot find the appropriate methods to set values for this provider.

Actions: This is a web application error. Please contact Sun Support for assistant.

### **ATTEMPT\_DELETE\_PROVIDER**

ID: CONSOLE-1341

Level: INFO

Description: Attempt to delete provider

Data: name of provider, role of provider

Triggers: Click on delete provider button in provider profile page.

### **SUCCEED\_DELETE\_PROVIDER**

ID: CONSOLE-1342

Level: INFO

Description: Deletion of provider succeeded.

Data: name of provider, role of provider

Triggers: Click on delete provider button in provider profile page.

#### **FEDERATION\_EXCEPTION\_DELETE\_PROVIDER**

ID: CONSOLE-1343

Level: SEVERE

Description: Deletion of provider failed.

Data: name of provider, role of provider, error message

Triggers: Unable to delete provider due to federation SDK related errors.

Actions: Look under federation log for more information.

#### **ATTEMPT\_GET\_PROSPECTIVE\_TRUSTED\_PROVIDER**

ID: CONSOLE-1351

Level: INFO

Description: Attempt to get prospective trusted provider

Data: name of provider, role of provider

Triggers: View add trusted provider page.

#### **SUCCEED\_GET\_PROSPECTIVE\_TRUSTED\_PROVIDER**

ID: CONSOLE-1352

Level: INFO

Description: Getting of prospective trusted provider succeeded.

Data: name of provider, role of provider

Triggers: View add trusted provider page.

#### **FEDERATION\_EXCEPTION\_GET\_PROSPECTIVE\_TRUSTED\_PROVIDER**

ID: CONSOLE-1353

Level: SEVERE

Description: Getting of prospective trusted provider failed.

Data: name of provider, role of provider, error message

Triggers: Unable to get prospective trusted provider due to federation SDK related errors.

Actions: Look under federation log for more information.

#### **ATTEMPT\_GET\_ATTR\_VALUE\_SCHEMA\_TYPE**

ID: CONSOLE-2001

Level: INFO

Description: Attempt to get attribute values of schema type of a service schema

Data: name of service, name of schema type, name of attribute schemas

Triggers: View service profile page.

#### **SUCCEED\_GET\_ATTR\_VALUE\_SCHEMA\_TYPE**

ID: CONSOLE-2002

Level: INFO

Description: Getting attribute values of schema type of a service schema succeeded.

Data: name of service, name of schema type, name of attribute schemas

Triggers: View service profile page.

#### **SSO\_EXCEPTION\_GET\_ATTR\_VALUE\_SCHEMA\_TYPE**

ID: CONSOLE-2003

Level: SEVERE

Description: Getting attribute values of schema type of a service schema failed.

Data: name of service, name of schema type, name of attribute schemas, error message

Triggers: Unable to get attribute values of schema type of a service schema. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under service management log for more information.

#### **SMS\_EXCEPTION\_GET\_ATTR\_VALUE\_SCHEMA\_TYPE**

ID: CONSOLE-2004

Level: SEVERE

Description: Getting attribute values of schema type of a service schema failed.

Data: name of service, name of schema type, name of attribute schemas, error message

Triggers: Unable to get attribute values of schema type of a service schema due to service management SDK related errors.

Actions: Look under service management log for more information.

#### **NO\_SCHEMA\_GET\_ATTR\_VALUE\_SCHEMA\_TYPE**

ID: CONSOLE-2005

Level: INFO

Description: Getting attribute values of schema type of a service schema failed.

Data: name of service, name of schema type, name of attribute schemas

Triggers: View service profile page.

Actions: Need no action on this event. Console attempts to get a schema from a service but schema does not exist.

#### **ATTEMPT\_GET\_ATTR\_VALUE\_ATR\_SCHEMA\_SCHEMA\_TYPE**

ID: CONSOLE-2011

Level: INFO

Description: Attempt to get attribute values of attribute schema of a schema type of a service schema

Data: name of service, name of schema type, name of attribute schemas

Triggers: View service profile page.

#### **SUCCEED\_GET\_ATTR\_VALUE\_ATR\_SCHEMA\_SCHEMA\_TYPE**

ID: CONSOLE-2012

Level: INFO

Description: Getting attribute values of attribute schema of a schema type of a service schema succeeded.

Data: name of service, name of schema type, name of attribute schemas

Triggers: View service profile page.

#### **SSO\_EXCEPTION\_GET\_ATTR\_VALUE\_ATR\_SCHEMA\_SCHEMA\_TYPE**

ID: CONSOLE-2013

Level: SEVERE

Description: Getting attribute values of attribute schema of a schema type of a service schema failed.

Data: name of service, name of schema type, name of attribute schemas, error message

Triggers: Unable to get attribute values of schema type of a service schema. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under service management log for more information.

### **SMS\_EXCEPTION\_GET\_ATTR\_VALUE\_ATR\_SCHEMA\_SCHEMA\_TYPE**

ID: CONSOLE-2014

Level: SEVERE

Description: Getting attribute values of attribute schema of a schema type of a service schema failed.

Data: name of service, name of schema type, name of attribute schemas, error message

Triggers: Unable to get attribute values of schema type of a service schema due to service management SDK related errors.

Actions: Look under service management log for more information.

### **ATTEMPT\_SET\_ATTR\_VALUE\_ATR\_SCHEMA\_SCHEMA\_TYPE**

ID: CONSOLE-2021

Level: INFO

Description: Attempt to modify attribute values of attribute schema of a schema type of a service schema

Data: name of service, name of schema type, name of attribute schemas

Triggers: Click on Save button in service profile page.

### **SUCCEED\_SET\_ATTR\_VALUE\_ATR\_SCHEMA\_SCHEMA\_TYPE**

ID: CONSOLE-2022

Level: INFO

Description: Modification attribute values of attribute schema of a schema type of a service schema succeeded.

Data: name of service, name of schema type, name of attribute schemas

Triggers: Click on Save button in service profile page.

### **SSO\_EXCEPTION\_SET\_ATTR\_VALUE\_ATR\_SCHEMA\_SCHEMA\_TYPE**

ID: CONSOLE-2023

Level: SEVERE

Description: Modification attribute values of attribute schema of a schema type of a service schema failed.

Data: name of service, name of schema type, name of attribute schemas, error message

Triggers: Unable to modify attribute values of schema type of a service schema. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under service management log for more information.

### **SMS\_EXCEPTION\_SET\_ATTR\_VALUE\_ATTR\_SCHEMA\_SCHEMA\_TYPE**

ID: CONSOLE-2024

Level: SEVERE

Description: Modification attribute values of attribute schema of a schema type of a service schema failed.

Data: name of service, name of schema type, name of attribute schemas, error message

Triggers: Unable to modify attribute values of schema type of a service schema due to service management SDK related errors.

Actions: Look under service management log for more information.

### **ATTEMPT\_CLIENT\_DETECTION\_GET\_DEVICE\_NAMES**

ID: CONSOLE-2501

Level: INFO

Description: Attempt to get device names of client detection service

Data: name of profile, name of style, search pattern

Triggers: View client profile page.

### **SUCCEED\_CLIENT\_DETECTION\_GET\_DEVICE\_NAMES**

ID: CONSOLE-2502

Level: INFO

Description: Getting device names of client detection service succeeded.

Data: name of profile, name of style, search pattern

Triggers: View client profile page.



**ATTEMPT\_CLIENT\_DETECTION\_DELETE\_CLIENT**

ID: CONSOLE-2511

Level: INFO

Description: Attempt to delete client in client detection service

Data: type of client

Triggers: Click on client type delete hyperlink page.

**SUCCEED\_CLIENT\_DETECTION\_DELETE\_CLIENT**

ID: CONSOLE-2512

Level: INFO

Description: Deletion of client in client detection service succeeded.

Data: type of client

Triggers: Click on client type delete hyperlink page.

**CLIENT\_SDK\_EXCEPTION\_CLIENT\_DETECTION\_DELETE\_CLIENT**

ID: CONSOLE-2513

Level: SEVERE

Description: Deletion of client in client detection service failed.

Data: type of client, error message

Triggers: Unable to delete client due to client detection SDK related errors.

Actions: Look under client detection management log for more information.

**ATTEMPT\_CLIENT\_DETECTION\_CREATE\_CLIENT**

ID: CONSOLE-2521

Level: INFO

Description: Attempt to create client in client detection service

Data: type of client

Triggers: Click on New button in Client Creation Page.

**SUCCEED\_CLIENT\_DETECTION\_CREATE\_CLIENT**

ID: CONSOLE-2522

Level: INFO

Description: Creation of client in client detection service succeeded.

Data: type of client

Triggers: Click on New button in Client Creation Page.

#### **CLIENT\_SDK\_EXCEPTION\_CLIENT\_DETECTION\_CREATE\_CLIENT**

ID: CONSOLE-2523

Level: SEVERE

Description: Creation of client in client detection service failed.

Data: type of client, error message

Triggers: Unable to create client due to client detection SDK related errors.

Actions: Look under client detection management log for more information.

#### **INVALID\_CLIENT\_TYPE\_CLIENT\_DETECTION\_CREATE\_CLIENT**

ID: CONSOLE-2524

Level: INFO

Description: Creation of client in client detection service failed.

Data: type of client, error message

Triggers: Unable to create client because client type is invalid.

Actions: Check the client type again before creation.

#### **ATTEMPT\_CLIENT\_DETECTION\_GET\_CLIENT\_PROFILE**

ID: CONSOLE-2531

Level: INFO

Description: Attempt to get client profile in client detection service

Data: type of client, classification

Triggers: View client profile page.

#### **SUCCEED\_CLIENT\_DETECTION\_GET\_CLIENT\_PROFILE**

ID: CONSOLE-2532

Level: INFO

Description: Getting of client profile in client detection service succeeded.

Data: type of client, classification

Triggers: View client profile page.

#### **ATTEMPT\_CLIENT\_DETECTION\_MODIFY\_CLIENT\_PROFILE**

ID: CONSOLE-2541

Level: INFO

Description: Attempt to modify client profile in client detection service

Data: type of client

Triggers: Click on Save button client profile page.

#### **SUCCEED\_CLIENT\_DETECTION\_MODIFY\_CLIENT\_PROFILE**

ID: CONSOLE-2542

Level: INFO

Description: Modification of client profile in client detection service succeeded.

Data: type of client

Triggers: Click on Save button client profile page.

#### **CLIENT\_SDK\_EXCEPTION\_CLIENT\_DETECTION\_CREATE\_CLIENT**

ID: CONSOLE-2543

Level: SEVERE

Description: Modification of client profile in client detection service failed.

Data: type of client, error message

Triggers: Unable to modify client profile due to client detection SDK related errors.

Actions: Look under client detection management log for more information.

#### **ATTEMPT\_GET\_CURRENT\_SESSIONS**

ID: CONSOLE-3001

Level: INFO

Description: Attempt to get current sessions

Data: name of server, search pattern

Triggers: View session main page.

### **SUCCEED\_GET\_CURRENT\_SESSIONS**

ID: CONSOLE-3002

Level: INFO

Description: Getting of current sessions succeeded.

Data: name of server, search pattern

Triggers: View session main page.

### **SESSION\_EXCEPTION\_GET\_CURRENT\_SESSIONS**

ID: CONSOLE-3003

Level: SEVERE

Description: Getting of current sessions failed.

Data: name of server, name of realm, error message

Triggers: Unable to get current sessions due to session SDK exception.

Actions: Look under session management log for more information.

### **ATTEMPT\_INVALIDATE\_SESSIONS**

ID: CONSOLE-3011

Level: INFO

Description: Attempt to invalidate session

Data: name of server, ID of session

Triggers: Click on Invalidate button in session main page.

### **SUCCEED\_INVALIDATE\_SESSIONS**

ID: CONSOLE-3012

Level: INFO

Description: Invalidation of session succeeded.

Data: name of server, ID of session

Triggers: Click on Invalidate button in session main page.

### **SESSION\_EXCEPTION\_INVALIDATE\_SESSIONS**

ID: CONSOLE-3013

Level: SEVERE

Description: Invalidation of session failed.

Data: name of server, ID of session, error message

Triggers: Unable to invalidate session due to session SDK exception.

Actions: Look under session management log for more information.

### **ATTEMPT\_GET\_SITE\_NAMES**

ID: CONSOLE-12001

Level: INFO

Description: Attempt to get site names

Data: server instance name

Triggers: View site and server management page.

### **SUCCEED\_GET\_SITE\_NAMES**

ID: CONSOLE-12002

Level: INFO

Description: Site names are returned.

Data: server instance name

Triggers: View site and server management page.

### **SSO\_EXCEPTION\_GET\_SITE\_NAMES**

ID: CONSOLE-12003

Level: SEVERE

Description: Get site names.

Data: error message

Triggers: Unable to get site names. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under access management SDK log for more information.

### **SMS\_EXCEPTION\_GET\_SITE\_NAMES**

ID: CONSOLE-12004

Level: SEVERE

Description: Get site names.

Data: error message

Triggers: Unable to get site names due the SMS API error.

Actions: Look under service management SDK log for more information.

#### **ATTEMPT\_GET\_SITE\_PRIMARY\_URL**

ID: CONSOLE-12011

Level: INFO

Description: Attempt to get primary URL of site.

Data: Site Name

Triggers: View site profile page.

#### **SUCCEED\_GET\_SITE\_PRIMARY\_URL**

ID: CONSOLE-12012

Level: INFO

Description: Primary URL of site is returned.

Data: Site Name

Triggers: View site profile page.

#### **SSO\_EXCEPTION\_GET\_SITE\_PRIMARY\_URL**

ID: CONSOLE-12013

Level: SEVERE

Description: Get primary URL of site.

Data: Site Name, error message

Triggers: Unable to get primary URL of site. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under access management SDK log for more information.

#### **SMS\_EXCEPTION\_GET\_SITE\_PRIMARY\_URL**

ID: CONSOLE-12014

Level: SEVERE

Description: Get primary URL of site.

Data: Site Name, error message

Triggers: Unable to get primary URL of site due the SMS API error.

Actions: Look under service management SDK log for more information.

#### **ATTEMPT\_GET\_SITE\_FAILOVER\_URLS**

ID: CONSOLE-12021

Level: INFO

Description: Attempt to get failover URLs of site.

Data: Site Name

Triggers: View site profile page.

#### **SUCCEED\_GET\_SITE\_FAILOVER\_URLS**

ID: CONSOLE-12022

Level: INFO

Description: Failover URLs of site is returned.

Data: Site Name

Triggers: View site profile page.

#### **SSO\_EXCEPTION\_GET\_SITE\_FAILOVER\_URLS**

ID: CONSOLE-12023

Level: SEVERE

Description: Get failover URLs of site.

Data: Site Name, error message

Triggers: Unable to get failover URLs of site. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under access management SDK log for more information.

#### **SMS\_EXCEPTION\_GET\_SITE\_FAILOVER\_URLS**

ID: CONSOLE-12024

Level: SEVERE

Description: Get failover URLs of site.

Data: Site Name, error message

Triggers: Unable to get failover URLs of site due the SMS API error.

Actions: Look under service management SDK log for more information.

### **ATTEMPT\_GET\_SITE\_MEMBERS**

ID: CONSOLE-12031

Level: INFO

Description: Attempt to get members of site.

Data: Site Name

Triggers: View site profile page.

### **SUCCEED\_GET\_SITE\_MEMBERS**

ID: CONSOLE-12032

Level: INFO

Description: Members of site is returned.

Data: Site Name

Triggers: View site profile page.

### **SSO\_EXCEPTION\_GET\_SITE\_MEMBERS**

ID: CONSOLE-12033

Level: SEVERE

Description: Get members of site.

Data: Site Name, error message

Triggers: Unable to get members of site. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under access management SDK log for more information.

### **SMS\_EXCEPTION\_GET\_SITE\_MEMBERS**

ID: CONSOLE-12034

Level: SEVERE

Description: Get members of site.

Data: Site Name, error message



Triggers: Unable to get members of site due the SMS API error.

Actions: Look under service management SDK log for more information.

#### **ATTEMPT\_CREATE\_SITE**

ID: CONSOLE-12041

Level: INFO

Description: Attempt to create site.

Data: Site Name

Triggers: View create site page.

#### **SUCCEED\_CREATE\_SITE**

ID: CONSOLE-12042

Level: INFO

Description: Site is created.

Data: Site Name

Triggers: Click on create button on creation page.

#### **SSO\_EXCEPTION\_CREATE\_SITE**

ID: CONSOLE-12043

Level: SEVERE

Description: Create site.

Data: Site Name, error message

Triggers: Unable to create site. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under access management SDK log for more information.

#### **SMS\_EXCEPTION\_CREATE\_SITE**

ID: CONSOLE-12044

Level: SEVERE

Description: Create site.

Data: Site Name, error message

Triggers: Unable to create site due the SMS API error.

Actions: Look under service management SDK log for more information.

**ATTEMPT\_CREATE\_SERVER**

ID: CONSOLE-12051

Level: INFO

Description: Attempt to create server.

Data: Server Name

Triggers: View create server page.

**SUCCEED\_CREATE\_SERVER**

ID: CONSOLE-12052

Level: INFO

Description: Server is created.

Data: Server Name

Triggers: Click on create button on creation page.

**SSO\_EXCEPTION\_CREATE\_SERVER**

ID: CONSOLE-12053

Level: SEVERE

Description: Create server.

Data: Server Name, error message

Triggers: Unable to create server. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under access management SDK log for more information.

**SMS\_EXCEPTION\_CREATE\_SERVER**

ID: CONSOLE-12054

Level: SEVERE

Description: Create server.

Data: Server Name, error message

Triggers: Unable to create server due the SMS API error.

Actions: Look under service management SDK log for more information.

**CONFIGURATION\_EXCEPTION\_CREATE\_SERVER**

ID: CONSOLE-12055

Level: SEVERE

Description: Create server.

Data: Server Name, error message

Triggers: Unable to create server due the incorrect data format error.

Actions: Look under console log for more information.

**IO\_EXCEPTION\_CREATE\_SERVER**

ID: CONSOLE-12056

Level: SEVERE

Description: Create server.

Data: Server Name, error message

Triggers: Unable to create server due the incorrect data format error.

Actions: Look under console log for more information.

**ATTEMPT\_DELETE\_SITE**

ID: CONSOLE-12061

Level: INFO

Description: Attempt to delete site.

Data: Site Name

Triggers: Click on delete site button.

**SUCCEED\_DELETE\_SITE**

ID: CONSOLE-12062

Level: INFO

Description: Site is deleted.

Data: Site Name

Triggers: Click on delete button.

**SSO\_EXCEPTION\_DELETE\_SITE**

ID: CONSOLE-12063

Level: SEVERE

Description: Delete site.

Data: Site Name, error message

Triggers: Unable to delete site. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under access management SDK log for more information.

### **SMS\_EXCEPTION\_DELETE\_SITE**

ID: CONSOLE-12064

Level: SEVERE

Description: Delete site.

Data: Site Name, error message

Triggers: Unable to delete site due the SMS API error.

Actions: Look under service management SDK log for more information.

### **ATTEMPT\_MODIFY\_SITE**

ID: CONSOLE-12071

Level: INFO

Description: Attempt to modify site.

Data: Site Name

Triggers: Click on OK button in site profile page.

### **SUCCEED\_MODIFY\_SITE**

ID: CONSOLE-12072

Level: INFO

Description: Site is modified.

Data: Site Name

Triggers: Click on OK button in site profile page.

### **SSO\_EXCEPTION\_MODIFY\_SITE**

ID: CONSOLE-12073

Level: SEVERE

Description: Modify site.

Data: Site Name, error message

Triggers: Unable to modify site. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under access management SDK log for more information.

### **SMS\_EXCEPTION\_MODIFY\_SITE**

ID: CONSOLE-12074

Level: SEVERE

Description: Modify site.

Data: Site Name, error message

Triggers: Unable to modify site due the SMS API error.

Actions: Look under service management SDK log for more information.

### **CONFIGURATION\_EXCEPTION\_MODIFY\_SITE**

ID: CONSOLE-12075

Level: SEVERE

Description: Modify site.

Data: Site Name, error message

Triggers: Unable to modify site due the incorrect data format.

Actions: Look under console log for more information.

### **ATTEMPT\_GET\_SERVER\_NAMES**

ID: CONSOLE-12081

Level: INFO

Description: Attempt to get server names.

Data: server instance name

Triggers: View site and server management page.

### **SUCCEED\_GET\_SERVER\_NAMES**

ID: CONSOLE-12082

Level: INFO

Description: Server names are returned.

Data: server instance name

Triggers: View site and server management page.

### **SSO\_EXCEPTION\_GET\_SERVER\_NAMES**

ID: CONSOLE-12083

Level: SEVERE

Description: Get server name.

Data: error message

Triggers: Unable to get server names. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under access management SDK log for more information.

### **SMS\_EXCEPTION\_GET\_SERVER\_NAMES**

ID: CONSOLE-12084

Level: SEVERE

Description: Get server name.

Data: error message

Triggers: Unable to get server names due the SMS API error.

Actions: Look under service management SDK log for more information.

### **ATTEMPT\_GET\_SERVER\_SITE**

ID: CONSOLE-12091

Level: INFO

Description: Attempt to get server's site.

Data: Server Name

Triggers: View server profile page.

### **SUCCEED\_GET\_SERVER\_SITE**

ID: CONSOLE-12092

Level: INFO

Description: Server's site name is returned.

Data: Server Name

Triggers: View server profile page.

### **SSO\_EXCEPTION\_GET\_SERVER\_SITE**

ID: CONSOLE-12093

Level: SEVERE

Description: Get server's site name.

Data: Server Name, error message

Triggers: Unable to get server's site. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under access management SDK log for more information.

### **SMS\_EXCEPTION\_GET\_SERVER\_SITE**

ID: CONSOLE-12094

Level: SEVERE

Description: Get server's site name.

Data: Server Name, error message

Triggers: Unable to get server's site due the SMS API error.

Actions: Look under service management SDK log for more information.

### **ATTEMPT\_DELETE\_SERVER**

ID: CONSOLE-12101

Level: INFO

Description: Attempt to delete server.

Data: Server Name

Triggers: Click on delete button in server management page.

### **SUCCEED\_DELETE\_SERVER**

ID: CONSOLE-12102

Level: INFO

Description: Server is delete.

Data: Server Name

Triggers: Click on delete button in server management page.

### **SSO\_EXCEPTION\_DELETE\_SERVER**

ID: CONSOLE-12103

Level: SEVERE

Description: Delete server.

Data: Server Name, error message

Triggers: Unable to delete server. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under access management SDK log for more information.

### **SMS\_EXCEPTION\_DELETE\_SERVER**

ID: CONSOLE-12104

Level: SEVERE

Description: Delete server.

Data: Server Name, error message

Triggers: Unable to delete server due the SMS API error.

Actions: Look under service management SDK log for more information.

### **ATTEMPT\_CLONE\_SERVER**

ID: CONSOLE-12201

Level: INFO

Description: Attempt to clone server.

Data: Server Name, Cloned Server Name

Triggers: Click on clone button in server management page.

### **SUCCEED\_CLONE\_SERVER**

ID: CONSOLE-12202

Level: INFO

Description: Server is cloned.

Data: Server Name, Cloned Server Name

Triggers: Click on clone button in server management page.



**SSO\_EXCEPTION\_CLONE\_SERVER**

ID: CONSOLE-12203

Level: SEVERE

Description: clone server.

Data: Server Name, Cloned Server Name, error message

Triggers: Unable to clone server. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under access management SDK log for more information.

**SMS\_EXCEPTION\_CLONE\_SERVER**

ID: CONSOLE-12204

Level: SEVERE

Description: clone server.

Data: Server Name, Cloned Server Name, error message

Triggers: Unable to clone server due the SMS API error.

Actions: Look under service management SDK log for more information.

**CONFIGURATION\_EXCEPTION\_CLONE\_SERVER**

ID: CONSOLE-12205

Level: SEVERE

Description: clone server.

Data: Server Name, Cloned Server Name, error message

Triggers: Unable to clone server due the data format error.

Actions: Look under console log for more information.

**ATTEMPT\_GET\_SERVER\_CONFIG**

ID: CONSOLE-12211

Level: INFO

Description: Attempt to get server's configuration.

Data: Server Name

Triggers: View server profile page.

**SUCCEED\_GET\_SERVER\_CONFIG**

ID: CONSOLE-12212

Level: INFO

Description: Server's configuration is returned.

Data: Server Name

Triggers: View server profile page.

**SSO\_EXCEPTION\_GET\_SERVER\_CONFIG**

ID: CONSOLE-12213

Level: SEVERE

Description: Get server's configuration.

Data: Server Name, error message

Triggers: Unable to get server's configuration. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under access management SDK log for more information.

**SMS\_EXCEPTION\_GET\_SERVER\_CONFIG**

ID: CONSOLE-12214

Level: SEVERE

Description: Get server's configuration.

Data: Server Name, error message

Triggers: Unable to get server's configuration due the SMS API error.

Actions: Look under service management SDK log for more information.

**IO\_EXCEPTION\_GET\_SERVER\_CONFIG**

ID: CONSOLE-12215

Level: SEVERE

Description: get server's configuration.

Data: Server Name, error message

Triggers: Unable to get server's configuration due the data parsing error.

Actions: Look under console log for more information.

**ATTEMPT\_GET\_SERVER\_DEFAULT\_CONFIG**

ID: CONSOLE-12221

Level: INFO

Description: Attempt to get server default configuration.

Data: server instance name

Triggers: View server profile page.

**SUCCEED\_GET\_SERVER\_DEFAULT\_CONFIG**

ID: CONSOLE-12222

Level: INFO

Description: Server default configuration is returned.

Data: server instance name

Triggers: View server profile page.

**ATTEMPT\_MODIFY\_SERVER**

ID: CONSOLE-12231

Level: INFO

Description: Attempt to modify server.

Data: Server Name

Triggers: Click on OK button in server profile page.

**SUCCEED\_MODIFY\_SERVER**

ID: CONSOLE-12232

Level: INFO

Description: Server is modified.

Data: Server Name

Triggers: Click on OK button in server profile page.

**SSO\_EXCEPTION\_MODIFY\_SERVER**

ID: CONSOLE-12233

Level: SEVERE

Description: modify server.

Data: Server Name, error message

Triggers: Unable to modify server. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under access management SDK log for more information.

### **SMS\_EXCEPTION\_MODIFY\_SERVER**

ID: CONSOLE-12234

Level: SEVERE

Description: modify server.

Data: Server Name, error message

Triggers: Unable to modify server due the SMS API error.

Actions: Look under service management SDK log for more information.

### **IO\_EXCEPTION\_MODIFY\_SERVER**

ID: CONSOLE-12235

Level: SEVERE

Description: modify server.

Data: Server Name, error message

Triggers: Unable to modify server due the data parsing error.

Actions: Look under console log for more information.

### **CONFIGURATION\_EXCEPTION\_MODIFY\_SERVER**

ID: CONSOLE-12236

Level: SEVERE

Description: modify server.

Data: Server Name, error message

Triggers: Unable to modify server due the incorrect data format error.

Actions: Look under console log for more information.

### **ATTEMPT\_MODIFY\_SERVER\_INHERITANCE**

ID: CONSOLE-12241

Level: INFO

Description: Attempt to modify server's inheritance.

Data: Server Name

Triggers: Click on OK button in server inheritance setting page.

### **SUCCEED\_MODIFY\_SERVER\_INHERITANCE**

ID: CONSOLE-12242

Level: INFO

Description: Server's inheritance setting is modified.

Data: Server Name

Triggers: Click on OK button in server inheritance setting page.

### **SSO\_EXCEPTION\_MODIFY\_SERVER\_INHERITANCE**

ID: CONSOLE-12243

Level: SEVERE

Description: Modify server's inheritance.

Data: Server Name, error message

Triggers: Unable to modify server's inheritance. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under access management SDK log for more information.

### **SMS\_EXCEPTION\_MODIFY\_SERVER\_INHERITANCE**

ID: CONSOLE-12244

Level: SEVERE

Description: Modify server's inheritance.

Data: Server Name, error message

Triggers: Unable to modify server's inheritance due the SMS API error.

Actions: Look under service management SDK log for more information.

### **IO\_EXCEPTION\_MODIFY\_SERVER\_INHERITANCE**

ID: CONSOLE-12245

Level: SEVERE

Description: modify server's inheritance.

Data: Server Name, error message

Triggers: Unable to modify server's inheritance due the data parsing error.

Actions: Look under console log for more information.

#### **CONFIGURATION\_EXCEPTION\_MODIFY\_SERVER\_INHERITANCE**

ID: CONSOLE-12246

Level: SEVERE

Description: modify server's inheritance.

Data: Server Name, error message

Triggers: Unable to modify server's inheritance due the incorrect data format error.

Actions: Look under console log for more information.

#### **ATTEMPT\_GET\_SERVER\_CONFIG\_XML**

ID: CONSOLE-12251

Level: INFO

Description: Attempt to get server's configuration XML.

Data: Server Name

Triggers: View server's server configuration XML profile page.

#### **SUCCEED\_GET\_SERVER\_CONFIG\_XML**

ID: CONSOLE-12252

Level: INFO

Description: Server's configuration XML is returned.

Data: Server Name

Triggers: View server's server configuration XML profile page.

#### **SSO\_EXCEPTION\_GET\_SERVER\_CONFIG\_XML**

ID: CONSOLE-12253

Level: SEVERE

Description: Get server's configuration XML.

Data: Server Name, error message

Triggers: Unable to get server's configuration XML. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under access management SDK log for more information.

#### **SMS\_EXCEPTION\_GET\_SERVER\_CONFIG\_XML**

ID: CONSOLE-12254

Level: SEVERE

Description: sGget server's configuration XML.

Data: Server Name, error message

Triggers: Unable to get server's configuration XML due the SMS API error.

Actions: Look under service management SDK log for more information.

#### **GENERIC\_EXCEPTION\_GET\_SERVER\_CONFIG\_XML**

ID: CONSOLE-12255

Level: SEVERE

Description: sGget server's configuration XML.

Data: Server Name, error message

Triggers: Unable to get server's configuration XML due the data parsing error.

Actions: Look under console log for more information.

#### **ATTEMPT\_SET\_SERVER\_CONFIG\_XML**

ID: CONSOLE-12261

Level: INFO

Description: Attempt to set server's configuration XML.

Data: Server Name

Triggers: Click on OK button in server's server configuration XML profile page.

#### **SUCCEED\_SET\_SERVER\_CONFIG\_XML**

ID: CONSOLE-12262

Level: INFO

Description: Server's configuration XML is modified.

Data: Server Name

Triggers: Click on OK button in server's server configuration XML profile page.

### **SSO\_EXCEPTION\_SET\_SERVER\_CONFIG\_XML**

ID: CONSOLE-12263

Level: SEVERE

Description: set server's configuration XML.

Data: Server Name, error message

Triggers: Unable to set server's configuration XML. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under access management SDK log for more information.

### **SMS\_EXCEPTION\_SET\_SERVER\_CONFIG\_XML**

ID: CONSOLE-12264

Level: SEVERE

Description: sGset server's configuration XML.

Data: Server Name, error message

Triggers: Unable to set server's configuration XML due the SMS API error.

Actions: Look under service management SDK log for more information.

### **ATTEMPT\_SEARCH\_AGENT**

ID: CONSOLE-13001

Level: INFO

Description: Attempt to search for agents

Data: base realm, agent type, search pattern, search size limit, search time limit

Triggers: Click on Search button in agent search view.

### **SUCCEED\_SEARCH\_AGENT**

ID: CONSOLE-13002

Level: INFO

Description: Searching for agents succeeded

Data: base realm, agent type, search pattern, search size limit, search time limit



Triggers: Click on Search button in agent search view.

### **EXCEPTION\_SEARCH\_AGENT**

ID: CONSOLE-13003

Level: SEVERE

Description: Searching for agents failed

Data: base realm, agent type, search pattern, search size limit, search time limit, error message

Triggers: Unable to perform search operation on agents under a realm. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under data store log for more information.

### **ATTEMPT\_DELETE\_AGENT**

ID: CONSOLE-13011

Level: INFO

Description: Attempt to delete agents

Data: base realm, agent names

Triggers: Click on Delete button in agent home page.

### **SUCCEED\_DELETE\_AGENT**

ID: CONSOLE-13012

Level: INFO

Description: Agents are deleted

Data: base realm, agent names

Triggers: Click on Delete button in agent home page.

### **EXCEPTION\_DELETE\_AGENT**

ID: CONSOLE-13013

Level: SEVERE

Description: Deletion of agents failed

Data: base realm, agent names, error message

Triggers: Unable to perform delete operation on agents under a realm. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under data store log for more information.

### **ATTEMPT\_SEARCH\_AGENT\_GROUP**

ID: CONSOLE-13021

Level: INFO

Description: Attempt to search for agent groups

Data: base realm, agent type, search pattern, search size limit, search time limit

Triggers: Click on Search button in agent search view.

### **SUCCEED\_SEARCH\_AGENT\_GROUP**

ID: CONSOLE-13022

Level: INFO

Description: Searching for agent groups succeeded

Data: base realm, agent type, search pattern, search size limit, search time limit

Triggers: Click on Search button in agent search view.

### **EXCEPTION\_SEARCH\_AGENT\_GROUP**

ID: CONSOLE-13023

Level: SEVERE

Description: Searching for agent groups failed

Data: base realm, agent type, search pattern, search size limit, search time limit, error message

Triggers: Unable to perform search operation on agent groups under a realm. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under data store log for more information.

### **ATTEMPT\_DELETE\_AGENT\_GROUP**

ID: CONSOLE-13031

Level: INFO

Description: Attempt to delete agent groups

Data: base realm, agent group names

Triggers: Click on Delete button in agent home page.

**SUCCEED\_DELETE\_AGENT\_GROUP**

ID: CONSOLE-13032

Level: INFO

Description: Agent groups are deleted

Data: base realm, agent group names

Triggers: Click on Delete button in agent home page.

**EXCEPTION\_DELETE\_AGENT\_GROUP**

ID: CONSOLE-13033

Level: SEVERE

Description: Deletion of agent groups failed

Data: base realm, agent group names, error message

Triggers: Unable to perform delete operation on agents under a realm. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under data store log for more information.

**ATTEMPT\_CREATE\_AGENT**

ID: CONSOLE-13041

Level: INFO

Description: Attempt to create agent

Data: base realm, agent name, agent type

Triggers: Click on New button in agent home page.

**SUCCEED\_CREATE\_AGENT**

ID: CONSOLE-13042

Level: INFO

Description: Agent is created

Data: base realm, agent name, agent type

Triggers: Click on New button in agent home page.

**EXCEPTION\_CREATE\_AGENT**

ID: CONSOLE-13043

Level: SEVERE

Description: Creation of agent failed

Data: base realm, agent name, agent type, error message

Triggers: Unable to perform create agent. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under data store log for more information.

### **ATTEMPT\_CREATE\_AGENT\_GROUP**

ID: CONSOLE-13051

Level: INFO

Description: Attempt to create agent group

Data: base realm, agent group name, agent type

Triggers: Click on New button in agent home page.

### **SUCCEED\_CREATE\_AGENT\_GROUP**

ID: CONSOLE-13052

Level: INFO

Description: Agent group is created

Data: base realm, agent group name, agent type

Triggers: Click on New button in agent home page.

### **EXCEPTION\_CREATE\_AGENT\_GROUP**

ID: CONSOLE-13053

Level: SEVERE

Description: Creation of agent group failed

Data: base realm, agent group name, agent type, error message

Triggers: Unable to perform create agent group. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under data store log for more information.

### **ATTEMPT\_GET\_AGENT\_ATTRIBUTE\_VALUES**

ID: CONSOLE-13061

Level: INFO

Description: Attempt to get agent attribute values

Data: agent universal Id

Triggers: Visit agent profile page.

#### **SUCCEED\_GET\_AGENT\_ATTRIBUTE\_VALUES**

ID: CONSOLE-13062

Level: INFO

Description: Agent attribute values is retrieved.

Data: agent universal Id

Triggers: Visit agent profile page.

#### **EXCEPTION\_GET\_AGENT\_ATTRIBUTE\_VALUES**

ID: CONSOLE-13063

Level: SEVERE

Description: Unable to get agent attribute values

Data: agent universal Id, error message

Triggers: Unable to perform get agent attribute values. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under data store log for more information.

#### **ATTEMPT\_SET\_AGENT\_ATTRIBUTE\_VALUE**

ID: CONSOLE-13071

Level: INFO

Description: Attempt to set agent attribute values

Data: agent universal Id

Triggers: Click on save button in agent profile page.

#### **SUCCEED\_SET\_AGENT\_ATTRIBUTE\_VALUE**

ID: CONSOLE-13072

Level: INFO

Description: Agent attribute values set successfully

Data: agent universal Id

Triggers: Click on save button in agent profile page.

### **EXCEPTION\_SET\_AGENT\_ATTRIBUTE\_VALUE**

ID: CONSOLE-13073

Level: SEVERE

Description: Unable to set agent attribute values

Data: agent universal Id, error message

Triggers: Unable to perform set agent attribute values. It may be the single sign on token of the user has expired; or the user does not have permission to perform this operation.

Actions: Look under data store log for more information.

### **ATTEMPT\_GET\_ATTR\_VALUES\_OF\_SESSION\_HA\_PROPERTIES**

ID: CONSOLE-13074

Level: INFO

Description: Attempt to read session HA properties

Data: name of attribute

Triggers: Click on Save button in session profile page.

### **SUCCEED\_GET\_ATTR\_VALUES\_OF\_SESSION\_HA\_PROPERTIES**

ID: CONSOLE-13075

Level: INFO

Description: Read Access of session HA properties succeeded.

Data: name of attribute

Triggers: Click on Save button in session profile page.

### **SMS\_EXCEPTION\_GET\_ATTR\_VALUES\_OF\_SESSION\_HA\_PROPERTIES**

ID: CONSOLE-13076

Level: SEVERE

Description: Read Access of session HA properties failed.

Data: name of attribute, error message

Triggers: Unable to modify session HA properties due to service management SDK exception.

Actions: Look under service management log for more information.

#### **ATTEMPT\_SET\_ATTR\_VALUES\_OF\_SESSION\_HA\_PROPERTIES**

ID: CONSOLE-13077

Level: INFO

Description: Attempt to modify session HA properties

Data: name of attribute

Triggers: Click on Save button in session profile page.

#### **SUCCEED\_SET\_ATTR\_VALUES\_OF\_SESSION\_HA\_PROPERTIES**

ID: CONSOLE-13078

Level: INFO

Description: Modification of session HA properties succeeded.

Data: name of attribute

Triggers: Click on Save button in session profile page.

#### **SMS\_EXCEPTION\_SET\_ATTR\_VALUES\_OF\_SESSION\_HA\_PROPERTIES**

ID: CONSOLE-13079

Level: SEVERE

Description: Modification of session HA properties failed.

Data: name of attribute, error message

Triggers: Unable to modify session HA properties due to service management SDK exception.

Actions: Look under service management log for more information.

#### **ATTEMPT\_GET\_AFFILIATION\_ATTR\_VALUES**

ID: CONSOLE-13101

Level: INFO

Description: Attempt to get attribute values of an affiliation.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type

Triggers: View SAMLv2 Affiliate page.

#### **SUCCEED\_GET\_AFFILIATION\_ATTR\_VALUES**

ID: CONSOLE-13102

Level: INFO

Description: Getting attribute values of affiliation succeeded.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type

Triggers: View SAMLv2 Affiliate page.

### **FEDERATION\_EXCEPTION\_GET\_AFFILIATION\_ATTR\_VALUES**

ID: CONSOLE-13103

Level: SEVERE

Description: Getting attribute values of affiliation failed.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type, error message

Triggers: Unable to get attribute values of affiliation due to federation SDK related errors.

Actions: Look under federation log for more information.

### **ATTEMPT\_MODIFY\_AFFILIATION\_ATTR\_VALUES**

ID: CONSOLE-13111

Level: INFO

Description: Attempt to modify affiliation.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type

Triggers: Click on Save button in SAMLv2 Affiliate page.

### **SUCCEED\_MODIFY\_AFFILIATION\_ATTR\_VALUES**

ID: CONSOLE-13112

Level: INFO

Description: Modification of affiliation succeeded.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type

Triggers: Click on Save button in SAMLv2 Affiliate page.

### **FEDERATION\_EXCEPTION\_MODIFY\_AFFILIATION\_ATTR\_VALUES**

ID: CONSOLE-13113

Level: SEVERE

Description: Modification of affiliation failed.



Data: descriptor realm, descriptor name, descriptor protocol, descriptor type, error message

Triggers: Unable to modify affiliation due to federation SDK related errors.

Actions: Look under federation log for more information.

#### **ATTEMPT\_GET\_ATTR\_AUTH\_ATTR\_VALUES**

ID: CONSOLE-13121

Level: INFO

Description: Attempt to get attribute values of an attribute authority.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type

Triggers: View SAMLv2 AttrAuthority page.

#### **SUCCEED\_GET\_ATTR\_AUTH\_ATTR\_VALUES**

ID: CONSOLE-13122

Level: INFO

Description: Getting attribute values of attribute authority succeeded.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type

Triggers: View SAMLv2 AttrAuthority page.

#### **FEDERATION\_EXCEPTION\_GET\_ATTR\_AUTH\_ATTR\_VALUES**

ID: CONSOLE-13123

Level: SEVERE

Description: Getting attribute values of attribute authority failed.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type, error message

Triggers: Unable to get attribute values of attribute authority due to federation SDK related errors.

Actions: Look under federation log for more information.

#### **ATTEMPT\_MODIFY\_ATTR\_AUTH\_ATTR\_VALUES**

ID: CONSOLE-13131

Level: INFO

Description: Attempt to modify attribute authority.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type

Triggers: Click on Save button in SAMLv2 AttrAuthority page.

### **SUCCEED\_MODIFY\_ATTR\_AUTH\_ATTR\_VALUES**

ID: CONSOLE-13132

Level: INFO

Description: Modification of attribute authority succeeded.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type

Triggers: Click on Save button in SAMLv2 AttrAuthority page.

### **FEDERATION\_EXCEPTION\_MODIFY\_ATTR\_AUTH\_ATTR\_VALUES**

ID: CONSOLE-13133

Level: SEVERE

Description: Modification of attribute authority failed.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type, error message

Triggers: Unable to modify attribute authority due to federation SDK related errors.

Actions: Look under federation log for more information.

### **ATTEMPT\_GET\_ATTR\_QUERY\_ATTR\_VALUES**

ID: CONSOLE-13141

Level: INFO

Description: Attempt to get attribute values of an attribute query.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type

Triggers: View SAMLv2 AttrQuery page.

### **SUCCEED\_GET\_ATTR\_QUERY\_ATTR\_VALUES**

ID: CONSOLE-13142

Level: INFO

Description: Getting attribute values of attribute query succeeded.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type

Triggers: View SAMLv2 AttrQuery page.

### **FEDERATION\_EXCEPTION\_GET\_ATTR\_QUERY\_ATTR\_VALUES**

ID: CONSOLE-13143

Level: SEVERE

Description: Getting attribute values of attribute query failed.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type, error message

Triggers: Unable to get attribute values of attribute query due to federation SDK related errors.

Actions: Look under federation log for more information.

#### **ATTEMPT\_MODIFY\_ATTR\_QUERY\_ATTR\_VALUES**

ID: CONSOLE-13151

Level: INFO

Description: Attempt to modify attribute query.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type

Triggers: Click on Save button in SAMLv2 AttrQuery page.

#### **SUCCEED\_MODIFY\_ATTR\_QUERY\_ATTR\_VALUES**

ID: CONSOLE-13152

Level: INFO

Description: Modification of attribute query succeeded.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type

Triggers: Click on Save button in SAMLv2 AttrQuery page.

#### **FEDERATION\_EXCEPTION\_MODIFY\_ATTR\_QUERY\_ATTR\_VALUES**

ID: CONSOLE-13153

Level: SEVERE

Description: Modification of attribute query failed.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type, error message

Triggers: Unable to modify attribute query due to federation SDK related errors.

Actions: Look under federation log for more information.

#### **ATTEMPT\_GET\_AUTHN\_AUTH\_ATTR\_VALUES**

ID: CONSOLE-13161

Level: INFO

Description: Attempt to get attribute values of an authn authority.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type

Triggers: View SAMLv2 AuthnAuthority page.

### **SUCCEED\_GET\_AUTHN\_AUTH\_ATTR\_VALUES**

ID: CONSOLE-13162

Level: INFO

Description: Getting attribute values of authn authority succeeded.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type

Triggers: View SAMLv2 AuthnAuthority page.

### **FEDERATION\_EXCEPTION\_GET\_AUTHN\_AUTH\_ATTR\_VALUES**

ID: CONSOLE-13163

Level: SEVERE

Description: Getting attribute values of authn authority failed.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type, error message

Triggers: Unable to get attribute values of authn authority due to federation SDK related errors.

Actions: Look under federation log for more information.

### **ATTEMPT\_MODIFY\_AUTHN\_AUTH\_ATTR\_VALUES**

ID: CONSOLE-13171

Level: INFO

Description: Attempt to modify authn authority.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type

Triggers: Click on Save button in SAMLv2 AuthnAuthority page.

### **SUCCEED\_MODIFY\_AUTHN\_AUTH\_ATTR\_VALUES**

ID: CONSOLE-13172

Level: INFO

Description: Modification of authn authority succeeded.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type

Triggers: Click on Save button in SAMLv2 AuthnAuthority page.

### **FEDERATION\_EXCEPTION\_MODIFY\_AUTHN\_AUTH\_ATTR\_VALUES**

ID: CONSOLE-13173

Level: SEVERE

Description: Modification of authn authority failed.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type, error message

Triggers: Unable to modify authn authority due to federation SDK related errors.

Actions: Look under federation log for more information.

### **ATTEMPT\_GET\_METAALIAS**

ID: CONSOLE-13181

Level: INFO

Description: Attempt to get a meta alias.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type

Triggers: View SAMLv2 IDP Services page.

### **SUCCEED\_GET\_METAALIAS**

ID: CONSOLE-13182

Level: INFO

Description: Getting meta alias succeeded.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type

Triggers: View SAMLv2 IDP Services page.

### **FEDERATION\_EXCEPTION\_GET\_METAALIAS**

ID: CONSOLE-13183

Level: SEVERE

Description: Getting meta alias failed.

Data: descriptor realm, descriptor name, descriptor protocol, descriptor type, error message

Triggers: Unable to get meta alias due to federation SDK related errors.

Actions: Look under federation log for more information.

OpenAM logs the following CORETOKEN messages.

**TOKEN\_CREATE\_SUCCESS**

ID: CORETOKEN-1

Level: INFO

Description: Creating a token succeeded

Data: token type, token subject, token attribute names

Triggers: Create token

**TOKEN\_READ\_SUCCESS**

ID: CORETOKEN-2

Level: INFO

Description: Retrieving a token succeeded

Data: token type, token subject

Triggers: Read token

**TOKEN\_UPDATE\_SUCCESS**

ID: CORETOKEN-3

Level: INFO

Description: Updating a token succeeded

Data: names of attributes updated

Triggers: Update token

**TOKEN\_SEARCH\_SUCCESS**

ID: CORETOKEN-4

Level: INFO

Description: Searching tokens succeeded

Data: query, number of entries returned

Triggers: Search token

**TOKEN\_DELETE\_SUCCESS**

ID: CORETOKEN-5

Level: INFO

Description: Removing a token succeeded

Triggers: Delete token

### **EXPIRED\_TOKEN\_DELETE\_SUCCESS**

ID: CORETOKEN-6

Level: INFO

Description: Removing an expired token succeeded

Triggers: Token expired

### **UNABLE\_TO\_CREATE\_TOKEN**

ID: CORETOKEN-7

Level: INFO

Description: Creating a token failed

Data: error message, token type, token subject, token attribute names

Triggers: Create token

### **UNABLE\_TO\_READ\_TOKEN**

ID: CORETOKEN-8

Level: INFO

Description: Retrieving a token failed

Data: error message

Triggers: Read token

### **UNABLE\_TO\_UPDATE\_TOKEN**

ID: CORETOKEN-9

Level: INFO

Description: Updating a token failed

Data: error message

Triggers: Update token

### **UNABLE\_TO\_SEARCH\_TOKEN**

ID: CORETOKEN-10

Level: INFO

Description: Searching tokens failed

Data: query, error message

Triggers: Search Token

### **UNABLE\_TO\_DELETE\_TOKEN**

ID: CORETOKEN-11

Level: INFO

Description: Removing a token failed

Data: error message

Triggers: Delete token

OpenAM logs the following ENTITLEMENT messages.

### **ATTEMPT\_ADD\_PRIVILEGE**

ID: ENTITLEMENT-1

Level: INFO

Description: Attempt to add privilege.

Data: realm, privilege name

Triggers: Add privilege API is called.

### **SUCCEEDED\_ADD\_PRIVILEGE**

ID: ENTITLEMENT-2

Level: INFO

Description: Privilege is added.

Data: realm, privilege name

Triggers: Add privilege API is called.

### **FAILED\_ADD\_PRIVILEGE**

ID: ENTITLEMENT-3

Level: INFO

Description: Failed to add privilege.



Data: realm, privilege name, error message

Triggers: Add privilege API is called.

Actions: Privilege might already exists.; Administrator might not have the permission to add privilege.

#### **ATTEMPT\_ADD\_REFERRAL**

ID: ENTITLEMENT-11

Level: INFO

Description: Attempt to add referral privilege.

Data: realm, privilege name

Triggers: Add referral privilege API is called.

#### **SUCCEEDED\_ADD\_REFERRAL**

ID: ENTITLEMENT-12

Level: INFO

Description: Referral Privilege is added.

Data: realm, privilege name

Triggers: Add referral privilege API is called.

#### **FAILED\_ADD\_REFERRAL**

ID: ENTITLEMENT-13

Level: INFO

Description: Failed to add referral privilege.

Data: realm, privilege name, error message

Triggers: Add referral privilege API is called.

Actions: Privilege might already exists.; Administrator might not have the permission to add referral privilege.

#### **ATTEMPT\_REMOVE\_PRIVILEGE**

ID: ENTITLEMENT-21

Level: INFO

Description: Attempt to remove privilege.

Data: realm, privilege name

Triggers: Remove privilege API is called.

### **SUCCEEDED\_REMOVE\_PRIVILEGE**

ID: ENTITLEMENT-22

Level: INFO

Description: Privilege is removed.

Data: realm, privilege name

Triggers: Removed privilege API is called.

### **FAILED\_REMOVE\_PRIVILEGE**

ID: ENTITLEMENT-23

Level: INFO

Description: Failed to removed privilege.

Data: realm, privilege name, error message

Triggers: Removed privilege API is called.

Actions: Administrator might not have the permission to remove privilege.

### **ATTEMPT\_REMOVE\_REFERRAL**

ID: ENTITLEMENT-31

Level: INFO

Description: Attempt to remove referral privilege.

Data: realm, privilege name

Triggers: Remove referral privilege API is called.

### **SUCCEEDED\_REMOVE\_REFERRAL**

ID: ENTITLEMENT-32

Level: INFO

Description: Referral privilege is removed.

Data: realm, privilege name

Triggers: Removed referral privilege API is called.

**FAILED\_REMOVE\_REFERRAL**

ID: ENTITLEMENT-33

Level: INFO

Description: Failed to removed referral privilege.

Data: realm, privilege name, error message

Triggers: Removed referral privilege API is called.

Actions: Administrator might not have the permission to remove privilege.

**ATTEMPT\_SAVE\_APPLICATION**

ID: ENTITLEMENT-101

Level: INFO

Description: Attempt to save application.

Data: realm, application name

Triggers: Save application API is called.

**SUCCEEDED\_SAVE\_APPLICATION**

ID: ENTITLEMENT-102

Level: INFO

Description: Application is saved.

Data: realm, application name

Triggers: Save application API is called.

**FAILED\_SAVE\_APPLICATION**

ID: ENTITLEMENT-103

Level: INFO

Description: Failed to save application.

Data: realm, application name, error message

Triggers: Save application API is called.

Actions: Administrator might not have the permission to save application.

**ATTEMPT\_REMOVE\_APPLICATION**

ID: ENTITLEMENT-111

Level: INFO

Description: Attempt to remove application.

Data: realm, application name

Triggers: Remove application API is called.

### **SUCCEEDED\_REMOVE\_APPLICATION**

ID: ENTITLEMENT-112

Level: INFO

Description: Application is removed.

Data: realm, application name

Triggers: Remove application API is called.

### **FAILED\_REMOVE\_APPLICATION**

ID: ENTITLEMENT-113

Level: INFO

Description: Failed to remove application.

Data: realm, application name, error message

Triggers: Remove application API is called.

Actions: Administrator might not have the permission to remove application.

### **ATTEMPT\_SAVE\_RESOURCE\_TYPE**

ID: ENTITLEMENT-40

Level: INFO

Description: Attempt to save resource type.

Data: realm, resource type name

Triggers: Save resource type API is called.

### **SUCCEEDED\_SAVE\_RESOURCE\_TYPE**

ID: ENTITLEMENT-41

Level: INFO

Description: Resource type is saved.

Data: realm, resource type name

Triggers: Save resource type API is called.

### **FAILED\_SAVE\_RESOURCE\_TYPE**

ID: ENTITLEMENT-42

Level: INFO

Description: Failed to save resource type.

Data: realm, resource type name, error message

Triggers: Save resource type API is called.

Actions: Administrator might not have the permission to save resource type.

### **ATTEMPT\_REMOVE\_RESOURCE\_TYPE**

ID: ENTITLEMENT-43

Level: INFO

Description: Attempt to remove resource type.

Data: realm, resource type name

Triggers: Remove resource type API is called.

### **SUCCEEDED\_REMOVE\_RESOURCE\_TYPE**

ID: ENTITLEMENT-44

Level: INFO

Description: Resource type is removed.

Data: realm, resource type name

Triggers: Remove resource type API is called.

### **FAILED\_REMOVE\_RESOURCE\_TYPE**

ID: ENTITLEMENT-45

Level: INFO

Description: Failed to remove resource type.

Data: realm, resource type name, error message

Triggers: Remove resource type API is called.

Actions: Administrator might not have the permission to remove resource type.

OpenAM logs the following LOG messages.

### **LOG\_START\_NEW\_LOGGER**

ID: LOG-1

Level: INFO

Description: Logging Started - New Logger

Data: current location

Triggers: Logging started by getting a new Logger.

### **LOG\_END**

ID: LOG-2

Level: INFO

Description: Logging Terminated - Server Stopped

Data: current location

Triggers: Logging terminated by server shutdown.

### **LOG\_START\_CONFIG**

ID: LOG-3

Level: INFO

Description: Logging Started - Configuration Change

Data: old location, new location, old backend, new backend, old security status, new security status, old status, new status, old level, new level

Triggers: Logging started after logging configuration change.

### **LOG\_END\_CONFIG**

ID: LOG-4

Level: INFO

Description: Logging Terminated - Configuration Change

Data: old location, new location, old backend, new backend, old security status, new security status, old status, new status, old level, new level

Triggers: Logging terminated by logging configuration change.

OpenAM logs the following OAuth2Provider messages.

**CREATED\_TOKEN**

ID: OAuth2Provider-1

Level: INFO

Description: Created an oauth 2.0 token

Data: message, token info

Triggers: Created a new oauth 2.0 token

**DELETED\_TOKEN**

ID: OAuth2Provider-2

Level: INFO

Description: Deleted an oauth 2.0 token

Data: message, token info

Triggers: Deleted an oauth 2.0 token

**FAILED\_CREATE\_TOKEN**

ID: OAuth2Provider-3

Level: INFO

Description: Failed to creating an oauth 2.0 token

Data: message, token info

Triggers: Failed creating an oauth 2.0 token

**FAILED\_DELETE\_TOKEN**

ID: OAuth2Provider-4

Level: INFO

Description: Failed deleting an oauth 2.0 token

Data: message, token info

Triggers: Failed deleting an oauth 2.0 token

**CREATED\_REFRESH\_TOKEN**

ID: OAuth2Provider-5

Level: INFO

Description: Created an oauth 2.0 refresh token

Data: message, token info

Triggers: Created an oauth 2.0 refresh token

#### **FAILED\_CREATE\_REFRESH\_TOKEN**

ID: OAuth2Provider-6

Level: INFO

Description: Failed creating an oauth 2.0 refresh token

Data: message, token info

Triggers: Failed creating an oauth 2.0 refresh token

#### **CREATED\_AUTHORIZATION\_CODE**

ID: OAuth2Provider-7

Level: INFO

Description: Created an oauth 2.0 authorization code

Data: message, token info

Triggers: Created an oauth 2.0 authorization code refresh token

#### **FAILED\_CREATE\_AUTHORIZATION\_CODE**

ID: OAuth2Provider-8

Level: INFO

Description: Failed creating an oauth 2.0 authorization code

Data: message, token info

Triggers: Failed creating an oauth 2.0 authorization code

#### **FAILED\_UPDATE\_AUTHORIZATION\_CODE**

ID: OAuth2Provider-9

Level: INFO

Description: Failed updating an oauth 2.0 authorization code

Data: message, token info



Triggers: Failed updating an oauth 2.0 authorization code

#### **CREATED\_CLIENT**

ID: OAuth2Provider-11

Level: INFO

Description: Created an oauth 2.0 Client

Data: message, token info

Triggers: Created a new oauth 2.0 client

#### **DELETED\_CLIENT**

ID: OAuth2Provider-12

Level: INFO

Description: Deleted an oauth 2.0 client

Data: message, token info

Triggers: Deleted an oauth 2.0 client

#### **FAILED\_CREATE\_CLIENT**

ID: OAuth2Provider-13

Level: INFO

Description: Failed to creating an oauth 2.0 client

Triggers: Failed creating an oauth 2.0 client

#### **FAILED\_DELETE\_CLIENT**

ID: OAuth2Provider-14

Level: INFO

Description: Failed deleting an oauth 2.0 client

Triggers: Failed deleting an oauth 2.0 client

#### **AUTHENTICATED\_CLIENT**

ID: OAuth2Provider-15

Level: INFO

Description: Authenticated an oauth 2.0 client

Data: client id

Triggers: Authenticated an oauth 2.0 client

### **FAILED\_AUTHENTICATE\_CLIENT**

ID: OAuth2Provider-16

Level: INFO

Description: Failed authenticating an oauth 2.0 client

Data: client id

Triggers: Failed authenticating an oauth 2.0 client

### **UPDATED\_AUTHORIZATION\_CODE**

ID: OAuth2Provider-17

Level: INFO

Description: Updated an OAuth2 authorization code

Data: message, token info

Triggers: Updated an OAuth2 authorization code

OpenAM logs the following POLICY messages.

### **POLICY\_EVALUATION**

ID: POLICY-1

Level: INFO

Description: Evaluating policy succeeded

Data: policy name, realm name, service type name, resource name, action names, policy decision

Triggers: Evaluating policy.

### **PROTECTED\_RESOURCES**

ID: POLICY-2

Level: INFO

Description: Getting protected policy resources succeeded

Data: principal name, resource name, protecting policies

Triggers: Getting protected policy resources.

**POLICY\_CREATE\_SUCCESS**

ID: POLICY-3

Level: INFO

Description: Creating policy in a realm succeeded

Data: policy name, realm name

Triggers: Creating policy in a realm.

**POLICY\_MODIFY\_SUCCESS**

ID: POLICY-4

Level: INFO

Description: Modifying policy in a realm succeeded

Data: policy name, realm name

Triggers: Modifying policy in a realm.

**POLICY\_REMOVE\_SUCCESS**

ID: POLICY-5

Level: INFO

Description: Removing policy from a realm succeeded

Data: policy name, realm name

Triggers: Removing policy from a realm.

**POLICY\_ALREADY\_EXISTS\_IN\_REALM**

ID: POLICY-6

Level: INFO

Description: Policy already exists in the realm

Data: policy name, realm name

Triggers: Creating policy in the realm.

**UNABLE\_TO\_ADD\_POLICY**

ID: POLICY-7

Level: INFO

Description: Creating policy in a realm failed

Data: policy name, realm name

Triggers: Creating policy in a realm.

Actions: Check if the user has privilege to create a policy in the realm.

### **UNABLE\_TO\_REPLACE\_POLICY**

ID: POLICY-8

Level: INFO

Description: Replacing policy in a realm failed

Data: policy name, realm name

Triggers: Replacing policy in a realm.

Actions: Check if the user has privilege to replace a policy in the realm.

### **DID\_NOT\_REPLACE\_POLICY**

ID: POLICY-81

Level: INFO

Description: Did not replace policy - A diifferent policy with the new name already exists in the realm

Data: new policy name, realm name

Triggers: Replacing policy in a realm

### **UNABLE\_TO\_REMOVE\_POLICY**

ID: POLICY-9

Level: INFO

Description: Removing policy from a realm failed

Data: policy name, realm name

Triggers: Removing policy from a realm.

Actions: Check if the user has privilege to remove a policy from the realm.

### **PROXIED\_POLICY\_EVALUATION**

ID: POLICY-10

Level: INFO

Description: Computing policy decision by an administrator succeeded

Data: admin name, principal name, resource name, policy decision

Triggers: Computing policy decision by an administrator.

### **PROXIED\_POLICY\_EVALUATION\_IGNOREING\_SUBJECTS**

ID: POLICY-11

Level: INFO

Description: Computing policy decision by an administrator ignoring subjects succeeded

Data: admin name, resource name, policy decision

Triggers: Computing policy decision by an administrator ignoring subjects.

OpenAM logs the following Rest messages.

### **ATTEMPT\_ACCESS**

ID: Rest-1

Level: INFO

Description: Attempted to access a REST resource.

Data: resource, operation

Triggers: Attempting to access a REST resource.

### **ACCESS\_GRANT**

ID: Rest-2

Level: INFO

Description: Access granted to a REST resource.

Data: resource, operation, authzModule

Triggers: Access was granted to the requested resource.

### **ACCESS\_DENY**

ID: Rest-3

Level: INFO

Description: Access denied to a REST resource.

Data: resource, operation, authzModule

Triggers: Access was denied to the requested resource.

OpenAM logs the following SESSION messages.

#### **SESSION\_CREATED**

ID: SESSION-1

Level: INFO

Description: Session is Created

Data: User ID

Triggers: User is authenticated.

#### **SESSION\_IDLE\_TIMED\_OUT**

ID: SESSION-2

Level: INFO

Description: Session has idle timedout

Data: User ID

Triggers: User session idle for long time.

#### **SESSION\_MAX\_TIMEOUT**

ID: SESSION-3

Level: INFO

Description: Session has Expired

Data: User ID

Triggers: User session has reached its maximun time limit.

#### **SESSION\_LOGOUT**

ID: SESSION-4

Level: INFO

Description: User has Logged out

Data: User ID

Triggers: User has logged out of the system.

#### **SESSION\_REACTIVATION**

ID: SESSION-5

Level: INFO

Description: Session is Reactivated

Data: User ID

Triggers: User session state is active.

### **SESSION\_DESTROYED**

ID: SESSION-6

Level: INFO

Description: Session is Destroyed

Data: User ID

Triggers: User session is destroyed and cannot be referenced.

### **SESSION\_PROPERTY\_CHANGED**

ID: SESSION-7

Level: INFO

Description: Session's property is changed.

Data: User ID

Triggers: User changed session's unprotected property.

### **SESSION\_UNKNOWN\_EVENT**

ID: SESSION-8

Level: INFO

Description: Session received Unknown Event

Data: User ID

Triggers: Unknown session event

### **SESSION\_PROTECTED\_PROPERTY\_ERROR**

ID: SESSION-9

Level: INFO

Description: Attempt to set protected property

Data: User ID

Triggers: Attempt to set protected property

### **SESSION\_QUOTA\_EXHAUSTED**

ID: SESSION-10

Level: INFO

Description: User's session quota has been exhausted.

Data: User ID

Triggers: Session quota exhausted

### **SESSION\_DATABASE\_UNAVAILABLE**

ID: SESSION-11

Level: INFO

Description: Session database used for session failover and session constraint is not available.

Data: User ID

Triggers: Unable to reach the session database.

### **SESSION\_DATABASE\_BACK\_ONLINE**

ID: SESSION-12

Level: INFO

Description: Session database is back online.

Data: User ID

Triggers: Session database is back online..

### **SESSION\_MAX\_LIMIT\_REACHED**

ID: SESSION-13

Level: INFO

Description: The total number of valid sessions hosted on the AM server has reached the max limit.

Data: User ID

Triggers: Session max limit reached.



# Appendix A. Getting Support

For more information or resources about AM and ForgeRock Support, see the following sections:

## A.1. Accessing Documentation Online

ForgeRock publishes comprehensive documentation online:

- The ForgeRock [Knowledge Base](#) offers a large and increasing number of up-to-date, practical articles that help you deploy and manage ForgeRock software.
- ForgeRock core documentation, such as this document, aims to be technically accurate and complete with respect to the software documented. It is visible to everyone and covers all product features and examples of how to use them.

Core documentation therefore follows a three-phase review process designed to eliminate errors:

- Product managers and software architects review project documentation design with respect to the readers' software lifecycle needs.
- Subject matter experts review proposed documentation changes for technical accuracy and completeness with respect to the corresponding software.
- Quality experts validate implemented documentation changes for technical accuracy, completeness in scope, and usability for the readership.

The review process helps to ensure that documentation published for a ForgeRock release is technically accurate and complete.

Fully reviewed, published core documentation is available at <http://backstage.forgerock.com/>. Use this documentation when working with a ForgeRock Identity Platform release.

## A.2. Joining the ForgeRock Community

Visit the [Community resource center](#) where you can find information about each project, download trial builds, browse the resource catalog, ask and answer questions on the forums, find community events near you, and find the source code for open source software.

## A.3. Getting Support and Contacting ForgeRock

ForgeRock provides support services, professional services, classes through ForgeRock University, and partner services to assist you in setting up and maintaining your deployments. For a general overview of these services, see <https://www.forgerock.com>.

ForgeRock has staff members around the globe who support our international customers and partners. For details, visit <https://www.forgerock.com>, or send an email to ForgeRock at [info@forgerock.com](mailto:info@forgerock.com).

# Glossary

Access control	Control to grant or to deny access to a resource.
Account lockout	The act of making an account temporarily or permanently inactive after successive authentication failures.
Actions	Defined as part of policies, these verbs indicate what authorized subjects can do to resources.
Advice	In the context of a policy decision denying access, a hint to the policy enforcement point about remedial action to take that could result in a decision allowing access.
Agent administrator	User having privileges only to read and write policy agent profile configuration information, typically created to delegate policy agent profile creation to the user installing a policy agent.
Agent authenticator	Entity with read-only access to multiple agent profiles defined in the same realm; allows an agent to read web service profiles.
Application	<p>In general terms, a service exposing protected resources.</p> <p>In the context of AM policies, the application is a template that constrains the policies that govern access to protected resources. An application can have zero or more policies.</p>
Application type	<p>Application types act as templates for creating policy applications.</p> <p>Application types define a preset list of actions and functional logic, such as policy lookup and resource comparator logic.</p>

	Application types also define the internal normalization, indexing logic, and comparator logic for applications.
Attribute-based access control (ABAC)	Access control that is based on attributes of a user, such as how old a user is or whether the user is a paying customer.
Authentication	The act of confirming the identity of a principal.
Authentication chaining	A series of authentication modules configured together which a principal must negotiate as configured in order to authenticate successfully.
Authentication level	Positive integer associated with an authentication module, usually used to require success with more stringent authentication measures when requesting resources requiring special protection.
Authentication module	AM authentication unit that handles one way of obtaining and verifying credentials.
Authorization	The act of determining whether to grant or to deny a principal access to a resource.
Authorization Server	In OAuth 2.0, issues access tokens to the client after authenticating a resource owner and confirming that the owner authorizes the client to access the protected resource. AM can play this role in the OAuth 2.0 authorization framework.
Auto-federation	Arrangement to federate a principal's identity automatically based on a common attribute value shared across the principal's profiles at different providers.
Bulk federation	Batch job permanently federating user profiles between a service provider and an identity provider based on a list of matched user identifiers that exist on both providers.
Circle of trust	Group of providers, including at least one identity provider, who have agreed to trust each other to participate in a SAML v2.0 provider federation.
Client	In OAuth 2.0, requests protected web resources on behalf of the resource owner given the owner's authorization. AM can play this role in the OAuth 2.0 authorization framework.
Conditions	<p>Defined as part of policies, these determine the circumstances under which which a policy applies.</p> <p>Environmental conditions reflect circumstances like the client IP address, time of day, how the subject authenticated, or the authentication level achieved.</p>

	Subject conditions reflect characteristics of the subject like whether the subject authenticated, the identity of the subject, or claims in the subject's JWT.
Configuration datastore	LDAP directory service holding AM configuration data.
Cross-domain single sign-on (CDSSO)	AM capability allowing single sign-on across different DNS domains.
Delegation	Granting users administrative privileges with AM.
Entitlement	Decision that defines which resource names can and cannot be accessed for a given subject in the context of a particular application, which actions are allowed and which are denied, and any related advice and attributes.
Extended metadata	Federation configuration information specific to AM.
Extensible Access Control Markup Language (XACML)	Standard, XML-based access control policy language, including a processing model for making authorization decisions based on policies.
Federation	Standardized means for aggregating identities, sharing authentication and authorization data information between trusted providers, and allowing principals to access services across different providers without authenticating repeatedly.
Fedlet	Service provider application capable of participating in a circle of trust and allowing federation without installing all of AM on the service provider side; AM lets you create Java Fedlets.
Hot swappable	Refers to configuration properties for which changes can take effect without restarting the container where AM runs.
Identity	Set of data that uniquely describes a person or a thing such as a device or an application.
Identity federation	Linking of a principal's identity across multiple providers.
Identity provider (IdP)	Entity that produces assertions about a principal (such as how and when a principal authenticated, or that the principal's profile has a specified attribute value).
Identity repository	Data store holding user profiles and group information; different identity repositories can be defined for different realms.
Java EE policy agent	Java web application installed in a web container that acts as a policy agent, filtering requests to other applications in the container with policies based on application resource URLs.

Metadata	Federation configuration information for a provider.
Policy	Set of rules that define who is granted access to a protected resource when, how, and under what conditions.
Policy Agent	Agent that intercepts requests for resources, directs principals to AM for authentication, and enforces policy decisions from AM.
Policy Administration Point (PAP)	Entity that manages and stores policy definitions.
Policy Decision Point (PDP)	Entity that evaluates access rights and then issues authorization decisions.
Policy Enforcement Point (PEP)	Entity that intercepts a request for a resource and then enforces policy decisions from a PDP.
Policy Information Point (PIP)	Entity that provides extra information, such as user profile attributes that a PDP needs in order to make a decision.
Principal	<p>Represents an entity that has been authenticated (such as a user, a device, or an application), and thus is distinguished from other entities.</p> <p>When a <b>Subject</b> successfully authenticates, AM associates the <b>Subject</b> with the <b>Principal</b>.</p>
Privilege	In the context of delegated administration, a set of administrative tasks that can be performed by specified subjects in a given realm.
Provider federation	Agreement among providers to participate in a circle of trust.
Realm	<p>AM unit for organizing configuration and identity information.</p> <p>Realms can be used for example when different parts of an organization have different applications and user data stores, and when different organizations use the same AM deployment.</p> <p>Administrators can delegate realm administration. The administrator assigns administrative privileges to users, allowing them to perform administrative tasks within the realm.</p>
Resource	<p>Something a user can access over the network such as a web page.</p> <p>Defined as part of policies, these can include wildcards in order to match multiple actual resources.</p>
Resource owner	In OAuth 2.0, entity who can authorize access to protected web resources, such as an end user.

Resource server	In OAuth 2.0, server hosting protected web resources, capable of handling access tokens to respond to requests for such resources.
Response attributes	Defined as part of policies, these allow AM to return additional information in the form of "attributes" with the response to a policy decision.
Role based access control (RBAC)	Access control that is based on whether a user has been granted a set of permissions (a role).
Security Assertion Markup Language (SAML)	Standard, XML-based language for exchanging authentication and authorization data between identity providers and service providers.
Service provider (SP)	Entity that consumes assertions about a principal (and provides a service that the principal is trying to access).
Session	The interval that starts with the user authenticating through AM and ends when the user logs out, or when their session is terminated. For browser-based clients, AM manages user sessions across one or more applications by setting a session cookie. See also <a href="#">Stateful session</a> and <a href="#">Stateless session</a> .
Session high availability	Capability that lets any AM server in a clustered deployment access shared, persistent information about users' sessions from the CTS token store. The user does not need to log in again unless the entire deployment goes down.
Session token	Unique identifier issued by AM after successful authentication. For a <a href="#">Stateful session</a> , the session token is used to track a principal's session.
Single log out (SLO)	Capability allowing a principal to end a session once, thereby ending her session across multiple applications.
Single sign-on (SSO)	Capability allowing a principal to authenticate once and gain access to multiple applications without authenticating again.
Site	<p>Group of AM servers configured the same way, accessed through a load balancer layer.</p> <p>The load balancer handles failover to provide service-level availability. Use sticky load balancing based on <code>amlbcookie</code> values to improve site performance.</p> <p>The load balancer can also be used to protect AM services.</p>
Standard metadata	Standard federation configuration information that you can share with other access management software.
Stateful session	An AM session that resides in the Core Token Service's token store. Stateful sessions might also be cached in memory on one or more

AM servers. AM tracks stateful sessions in order to handle events like logout and timeout, to permit session constraints, and to notify applications involved in SSO when a session ends.

Stateless session

An AM session for which state information is encoded in AM and stored on the client. The information from the session is not retained in the CTS token store. For browser-based clients, AM sets a cookie in the browser that contains the session information.

Subject

Entity that requests access to a resource

When a subject successfully authenticates, AM associates the subject with the [Principal](#) that distinguishes it from other subjects. A subject can be associated with multiple principals.

User data store

Data storage service holding principals' profiles; underlying storage can be an LDAP directory service, a relational database, or a custom [IdRepo](#) implementation.

Web policy agent

Native library installed in a web server that acts as a policy agent with policies based on web page URLs.