

# Reference

/ ForgeRock Access Management 5.1

Latest update: 5.1.1

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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 **amster** 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<sup>™</sup> Software

ForgeRock Identity Platform<sup>™</sup> serves as the basis for our simple and comprehensive Identity and Access Management solution. We help our customers deepen their relationships with their customers, and improve the productivity and connectivity of their employees and partners. For more information about ForgeRock and about the platform, see https://www.forgerock.com.

<sup>&</sup>lt;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 "Setting Up Audit Logging" in the Setup and Maintenance Guide.

# Chapter 1 Command Line Tools

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



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
```



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
```



 $amverify archive - check \, AM \ log \ archives \ for \ tampering$ 

# 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
```



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

# Synopsis

configurator.jar {options}

# Description

This executable .jar file, openam-configurator-tool-14.1.1.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 <u>ACCEPT\_LICENSES</u> 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 <a href="http://openam.example.com">http://openam.example.com</a>: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 060WwHP04os+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-14.1.1.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  ${\scriptstyle 1689}$  , 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.

- LDAPv3For0penDS: ForgeRock 0penDJ or Sun OpenDS
- LDAPv3ForAD: Active Directory with host and port settings

- LDAPv3ForADDC: Active Directory with a Domain Name setting
- LDAPv3ForADAM: Active Directory Application Mode
- LDAPv3For0DSEE: 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 <a href="http://lb.example.com">http://lb.example.com</a>: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 <code>openaml.example.com</code>

#### 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://serverl.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-14.1.1.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 C00KIE\_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\_REPLP0RT1=58989 DS\_EMB\_REPL\_H0ST2=server1.example.com DS\_EMB\_REPL\_ADMINP0RT2=4444 DS\_EMB\_REPL\_ADMINP0RT2=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\_LICENSES=true

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



upgrade.jar — upgrade AM using a configuration file

# Synopsis

upgrade.jar {options}

# Description

This executable jar file, openam-upgrade-tool-14.1.1.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 <u>ACCEPT\_LICENSES</u> 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-14.1.1.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

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-14.1.1.jar \
 -DSERVER\_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-14.1.1.jar \
    -DSERVER_URL=http://openam.example.com:8080 -DDEPLOYMENT_URI=/openam \
    -acceptLicense
```



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 as amadmin and access the services page, such as <a href="http://openam.example.com:8080/openam/services.jsp">http://openam.example.com:8080/openam/services.jsp</a>.

- 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.

#### [--subschemaname, -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 is 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 of 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

 $Type \ of \ agent. \ Possible \ values: J2EEAgent, \ WebAgent, \ 2.2\_Agent, \ SharedAgent, \ OAuth 2Client$ 

# --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.

#### [--attrascertalias, -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

### [--xacmlpdpecertalias, -j]

Policy decision point encryption certificate alias

### [--xacmlpdpscertalias, -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>.

#### [--xacmlpepecertalias, -z]

Policy enforcement point encryption certificate alias

#### [--xacmlpepscertalias, -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-specfieid 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.

#### [--subschemaname, -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.

### [--subschemaname, -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 identites.

# 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.

## [--subschemaname, -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

#### --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

#### --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

#### --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

#### --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

#### --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.

#### [--subschemaname, -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

#### --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.

#### [--subschemaname, -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

#### --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

#### --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

**Command Line Tools** 

# --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

#### [--subschemaname, -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

#### [--subschemaname, -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.

```
[--idpscertalias, -b]
```

Identity provider signing certificate aliases

#### [--realm, -e]

Realm where entity resides.

#### [--specertalias, -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 solarmanna 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 "*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 "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 "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

amster type ID: 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

amster data 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/gueryParameters/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%

amster data 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

amster data 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%

amster data 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

amster data attribute: enabled

### Topics

List of topics handled by an audit event handler.

Default value:

access activity config authentication

**amster** data 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



amster data 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

amster data 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

amster data 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
```

amster data attribute: jndiContextProperties

## **JMS Topic Name**

JNDI lookup name for the JMS topic

Default value: audit

amster data 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

amster data 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

amster data attribute: batchEnabled

### Capacity

Maximum event count in the batch queue; additional events are dropped.

Default value: 1000

amster data attribute: <a href="mailto:batchCapacity">batchCapacity</a>

### **Max Batched**

Maximum number of events per batch.

Default value: 100

amster data attribute: maxBatchedEvents

## **Thread Count**

Number of concurrent threads that pull events from the batch queue.

Default value: 3

amster data attribute: batchThreadCount

## **Insert Timeout**

Waiting period (seconds) for available capacity, when a new event enters the queue.

Default value: 60

amster data attribute: insertTimeoutSec

## **Polling Timeout**

Worker thread waiting period (seconds) for the next event, before going idle.

Default value: 10

amster data attribute: pollTimeoutSec

### Shutdown Timeout

Application waiting period (seconds) for worker thread termination.

Default value: 60

amster data 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

amster data attribute: enabled

# Topics

List of topics handled by an audit event handler.

Default value:

access activity config authentication

amster data 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

amster data 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.

amster data attribute: host

#### Server Port

Specifies the port number used to access Elasticsearch's REST API.

amster data 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

amster data attribute: sslEnabled

### **Elasticsearch Index**

Specifies the name of the Elasticsearch index to be used for OpenAM audit logging.

amster data 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.

amster data attribute: username

### Password

Specifies the password to access the Elasticsearch server.

Required if Elasticsearch Shield authentication is configured.

amster data attribute: password

### Buffering

The Buffering tab contains the following secondary configuration properties:

### **Buffering Enabled**

Default value: true

amster data attribute: bufferingEnabled

### **Batch Size**

Specifies the number of audit log events to hold in the buffer before writing them to Elasticsearch.

Default value: 500

amster data attribute: <a href="mailto:batchSize">batchSize</a>

### **Queue Capacity**

Maximum number of audit logs in the batch queue. Additional audit events are dropped.

Default value: 10000

amster data attribute: maxEvents

# Write interval (in milliseconds)

Specifies the interval in milliseconds at which buffered events are written to Elasticsearch.

Default value: 250

amster data 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

amster data attribute: enabled

### Topics

List of topics handled by an audit event handler.

Default value:

access activity config authentication

amster data 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 amster data 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.

amster data attribute: host

## Server port

Port number of receiving syslog server.

amster data attribute: port

# **Transport Protocol**

Default value: **TCP** 

amster data attribute: transportProtocol

### **Connection timeout**

Timeout for connecting to syslog server, in seconds.

amster data attribute: connectTimeout

# Facility

Syslog facility value to apply to all events.

Default value: USER

amster data attribute: facility

# Buffering

The Buffering tab contains the following secondary configuration properties:

# **Buffering Enabled**

Enables or disables audit event buffering.

Default value: true

amster data 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

amster data attribute: enabled

## Topics

List of topics handled by an audit event handler.

Default value:

access activity config authentication

**amster** data 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

amster data 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: <a href="https://www.bencharger.com">BASE\_DIR%/%SERVER\_URI%/log/</a>

amster data 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

amster data 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: 10000000

amster data attribute: rotationMaxFileSize

#### **File Rotation Prefix**

Prefix to prepend to audit files when rotating audit files.

amster data 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

amster data attribute: rotationFileSuffix

#### **Rotation Interval**

Interval to trigger audit file rotations, in seconds. A negative or zero value disables this feature.

Default value: -1

amster data attribute: rotationInterval

#### **Rotation Times**

Durations after midnight to trigger file rotation, in seconds.



#### amster data 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

amster data 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

amster data 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

amster data attribute: retentionMinFreeSpaceRequired

#### Buffering

The Buffering tab contains the following secondary configuration properties:

#### **Buffering Enabled**

Enables or disables buffering.

Default value: true

amster data attribute: bufferingEnabled

#### Flush Each Event Immediately

Performance may be improved by writing all buffered events before flushing.

Default value: false

amster data 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

**amster** data attribute: securityEnabled

### **Certificate Store Location**

Path to Java keystore.

Default value: %BASE\_DIR%/%SERVER\_URI%/Logger.jks

**amster** data attribute: securityFilename

### **Certificate Store Password**

Password for Java keystore.

amster data attribute: securityPassword

#### Signature Interval

Signature generation interval, in seconds.

Default value: 900

amster data 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

amster data attribute: enabled



## Topics

List of topics handled by an audit event handler.

Default value:

access activity config authentication

amster data 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

amster data 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

**amster** data attribute: databaseType

#### JDBC Database URL

URL of the JDBC database.

amster data attribute: jdbcUrl

#### **JDBC Driver**

Fully qualified JDBC driver class name.

amster data attribute: driverClassName

### Database Username

Specifies the username to access the database server.

**amster** data attribute: username

#### **Database Password**

Specifies the password to access the database server.

amster data attribute: password

#### **Connection Timeout (seconds)**

Specifies the maximum wait time before failing the connection, in seconds.

Default value: 30

amster data attribute: connectionTimeout

### Maximum Connection Idle Timeout (seconds)

Specifies the maximum idle time before the connection is closed, in seconds.

Default value: 600

amster data attribute: idleTimeout

### **Maximum Connection Time (seconds)**

Specifies the maximum time a JDBC connection can be open, in seconds.

Default value: 1800

amster data attribute: maxLifetime

## **Minimum Idle Connections**

Specifies the minimum number of idle connections in the connection pool.

Default value: 10

amster data attribute: minIdle

### **Maximum Connections**

Specifies the maximum number of connections in the connection pool.

Default value: 10

amster data attribute: maxPoolSize

# Buffering

The Buffering tab contains the following secondary configuration properties:

## **Buffering Enabled**

Enables or disables audit event buffering.

Default value: true

amster data 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

amster data attribute: <a href="https://www.bufferingMaxSize">bufferingMaxSize</a>

# Write Interval

Specifies the interval (seconds) at which buffered events are written to the database.

Default value: 5

amster data attribute: bufferingWriteInterval

# Writer Threads

Specifies the number of threads used to write the buffered events.

Default value: 1

amster data attribute: bufferingWriterThreads

# **Max Batched Events**

Specifies the maximum number of batched statements the database can support per connection.

Default value: 100

amster data 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

amster data attribute: enabled

#### Topics

List of topics handled by an audit event handler.

Default value:

access activity config authentication

amster data 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

amster data 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/

amster data attribute: location

# ElasticSearch JSON Format Compatible

JSON format should be transformed to be compatible with ElasticSearch format restrictions.

Default value: false

amster data attribute: elasticsearchCompatible

#### **File Rotation Retention Check Interval**

Interval to check time-based file rotation policies, in seconds.

Default value: 5

amster data 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

amster data 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

amster data attribute: rotationMaxFileSize

#### **File Rotation Prefix**

Prefix to prepend to audit files when rotating audit files.

amster data 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

amster data attribute: rotationFileSuffix

# **Rotation Interval**

Interval to trigger audit file rotations, in seconds. A negative or zero value disables this feature.

Default value: -1

amster data attribute: rotationInterval

## **Rotation Times**

Durations after midnight to trigger file rotation, in seconds.

amster data 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

amster data 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

amster data 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

amster data 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

amster data attribute: bufferingMaxSize

# Write interval

Interval at which buffered events are written to a file, in milliseconds.

Default value: 5

amster data 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

amster data attribute: enabled

# Topics

List of topics handled by an audit event handler.

Default value:

access activity config authentication

amster data 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 amster data 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.

amster data attribute: authzToken

## Server Hostname

Host name or IP address of Splunk server.

amster data attribute: host

## Server Port

Port number of Splunk server.

amster data attribute: port

# SSL Enabled

Use HTTPS protocol for communication with Splunk.

Default value: false

amster data 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

amster data attribute: batchSize

# **Queue Capacity**

Maximum number of audit evens in the batch queue; additional events are dropped.

Default value: 10000

amster data attribute: maxEvents

### Write interval (in milliseconds)

Interval at which buffered events are written to Splunk.

Default value: 250

amster data attribute: writeInterval

# 2.2.2. Base URL Source

amster type ID: 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** 

amster data 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.

amster data 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.

amster data 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

amster data attribute: contextPath

# 2.2.3. Client Detection

amster type ID: 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

amster data 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.iplanet.services.cdm.ClientDetectionInterface interface.

Default value: com.iplanet.services.cdm.ClientDetectionDefaultImpl



**amster** data 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

amster data attribute: enabled

# 2.2.4. Common Federation Configuration

amster type ID: 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

amster data 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

amster data 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

amster data attribute: samlErrorPageUrl

#### SAML Error Page HTTP Binding

The possible values are HTTP-Redirect or HTTP-POST.

Default value: HTTP-POST

**amster** data 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

amster data 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

amster data 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

**amster** data 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

**amster** data 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

amster data 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

amster data 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

amster data 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#

amster data 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-shal
http://www.w3.org/2000/09/xmldsig#hmac-shal
http://www.w3.org/2000/09/xmldsig#dsa-shal
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-sha556
http://www.w3.org/2001/04/xmldsig-more#hmac-sha556
http://www.w3.org/2001/04/xmldsig-more#hmac-sha56
http://www.w3.org/2001/04/xmldsig-more#hmac-sha584
http://www.w3.org/2001/04/xmldsig-more#hmac-sha584
```

Default value: http://www.w3.org/2000/09/xmldsig#rsa-sha1

amster data 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/xmlenc#sha256
```

http://www.w3.org/2001/04/xmlenc#sha512 http://www.w3.org/2001/04/xmldsig-more#sha384

Default value: http://www.w3.org/2000/09/xmldsig#sha1

amster data 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

amster data 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

amster data 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

**amster** data 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/1999/REC-xslt-19991116
http://www.w3.org/Z000/09/xmldsig#base64
http://www.w3.org/Z000/09/xmldsig#enveloped-signature
http://www.w3.org/Z000/09/xmldsig#enveloped-signature
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-cl4n#

amster data 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

amster data 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

amster data 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

amster data attribute: monitoringSaml2Class

#### Monitoring Provider Class for ID-FF (Deprecated)

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

amster data attribute: monitoringIdffClass

# 2.2.5. Dashboard

amster type ID: 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.

amster data attribute: assignedDashboard

# 2.2.5.2. Secondary Configurations

This service has the following Secondary Configurations.

#### 2.2.5.2.1. instances

#### **Dashboard Class Name**

 $\label{eq:sample_samp$ 

amster data attribute: className

#### **Dashboard Name**

The application name as it will appear to the administrator for configuring the dashboard.

amster data attribute: name

#### **Dashboard Display Name**

The application name that displays on the dashboard client.

amster data attribute: displayName

#### **Dashboard Icon**

The icon name that will be displayed on the dashboard client identifying the application.

amster data attribute: icon

### **Dashboard Login**

The URL that takes the user to the application.

amster data attribute: login

### **ICF Identifier**

amster data attribute: icfIdentifier

# 2.2.6. Email Service

amster type ID: 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

**amster** data attribute: <a href="mailto:email

### 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* 

amster data attribute: hostname

### Mail Server Host Port

Specifies the port number for the SMTP mail server.

Default value: 465

amster data attribute: port

### Mail Server Authentication Username

Specifies the user name for the SMTP mail server.

For example, you might set this property to: username

amster data attribute: username

### **Mail Server Authentication Password**

Specifies the password for the SMTP user name.

amster data 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

amster data 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

amster data attribute: from

#### **Email Attribute Name**

Specifies the profile attribute from which to retrieve the end user's email address.

Default value: mail

amster data 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.

amster data 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.

amster data attribute: message

# 2.2.7. ForgeRock Authenticator (OATH) Service

amster type ID: authenticator0athService

# 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

amster data 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

amster data attribute: authenticatorOATHDeviceSettingsEncryptionScheme

#### **Encryption Key Store**

Path to the keystore from which to load encryption keys.

Default value: /path/to/openam/openam/keystore.jks

amster data 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

amster data attribute: authenticatorOATHDeviceSettingsEncryptionKeystoreType

#### **Key Store Password**

Password to unlock the keystore. This password will be encrypted.

amster data 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.

amster data attribute: authenticatorOATHDeviceSettingsEncryptionKeystoreKeyPairAlias

#### **Private Key Password**

Password to unlock the private key.

**amster** data 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

**amster** data attribute: authenticatorOATHSkippableName

# 2.2.8. ForgeRock Authenticator (Push) Service

amster type ID: 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

amster data 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

amster data attribute: authenticatorPushDeviceSettingsEncryptionScheme

## **Encryption Key Store**

Path to the keystore from which to load encryption keys.

Default value: /path/to/openam/openam/keystore.jks

amster data 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

amster data 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.

amster data 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.

amster data attribute: authenticatorPushDeviceSettingsEncryptionKeystoreKeyPairAlias

## **Private Key Password**

Password to unlock the private key.

amster data attribute: authenticatorPushDeviceSettingsEncryptionKeystorePrivateKeyPassword

# 2.2.9. Globalization Settings

amster type ID: 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;ISO-8859-15
locale=en|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
```

amster data attribute: <a href="charsetMappings">charsetMappings</a>

#### **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=SJIS
```

amster data attribute: sun-identity-glln-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}

amster data attribute: commonNameFormats

# 2.2.10. Legacy User Self Service

amster type ID: 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

**amster** data attribute: selfServiceEnabled

#### **Self-Registration for Users**

If enabled, new users can sign up using a REST API client.

Default value: false

**amster** data attribute: selfRegistrationEnabled

#### Self-Registration Token LifeTime (seconds)

Maximum life time for the token allowing User Self-Registration using the REST API.

Default value: 900

amster data 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

amster data attribute: selfRegistrationConfirmationUrl

## **Forgot Password for Users**

If enabled, users can assign themselves a new password using a REST API client.

Default value: false

amster data 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

amster data 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

amster data 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

amster data 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.

amster data attribute: protectedUserAttributes

# 2.2.11. Logging

amster type ID: 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

amster data 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

amster data 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

amster data 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

amster data 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

amster data 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

amster data 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** 

amster data 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: SHAlwithRSA

amster data 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

amster data 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

amster data 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

amster data 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

amster data 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

amster data attribute: buffering

## **Logging Level**

Control the level of JDK logging within OpenAM.

The possible values for this property are:

0FF
SEVERE
WARNING
INFO
CONFIG
FINE
FINER
FINEST

Default value: **INFO** 

amster data attribute: jdkLoggingLevel

# 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

amster data attribute: rotationEnabled

## **Maximum Log Size**

Maximum size of a log file, in bytes.

Default value: 10000000

amster data 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

amster data 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.

amster data 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

amster data 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

amster data 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: <a href="https://www.bencharger.com">BASE\_DIR%/%SERVER\_URI%/log/</a>

amster data 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

amster data 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.

amster data 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

amster data attribute: driver

## **Maximum Number of Records**

The maximum number of records read from the logs via the Logging API

Default value: 500

amster data 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

amster data 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 <a href="http://mysyslog.example.com">http://mysyslog.example.com</a>, or <a href="http://mysyslog.example.com">localhost</a>.

Default value: localhost

amster data attribute: host

## Syslog server port

The port number the syslog server is configured to listen to.

Default value: 514

amster data 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

amster data 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: <a>local5</a>

#### amster data 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

amster data attribute: timeout

## 2.2.12. Monitoring

amster type ID: monitoring

The following settings are available in this service:

#### **Monitoring Status**

Enable / Disable the monitoring system

Default value: false

amster data attribute: enabled

### **Monitoring HTTP Port**

Port number for the HTTP monitoring interface

Default value: 8082

amster data attribute: httpPort

### Monitoring HTTP interface status

Enable / Disable the HTTP access to the monitoring system

Default value: false

**amster** data attribute: <a href="httpEnabled">httpEnabled</a>

### 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

amster data attribute: authfilePath

#### **Monitoring RMI Port**

Port number for the JMX monitoring interface

Default value: 9999

amster data attribute: rmiPort

#### Monitoring RMI interface status

Enable / Disable the JMX access to the monitoring system

Default value: false

amster data attribute: rmiEnabled

## **Monitoring SNMP Port**

Port number for the SNMP monitoring interface

Default value: 8085

amster data attribute: snmpPort

## **Monitoring SNMP interface status**

Enable / Disable the SNMP access to the monitoring system

Default value: false

amster data 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

amster data 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

amster data attribute: sessionHistoryWindowSize

# 2.2.13. Multi-Federation Protocol

amster type ID: 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 <a href="mailto:com.sun.identity.multiprotocol">com.sun.identity.multiprotocol</a> .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

amster data attribute: singleLogoutHandlerList

# 2.2.14. Naming

amster type ID: 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

amster data attribute: profileUrl

### Session Service URL

Specifies the endpoint used by the session service.

Default value: %protocol://%host:%port%uri/sessionservice

amster data attribute: sessionUrl

## **Logging Service URL**

Specifies the endpoint used by the logging service.

Default value: %protocol://%host:%port%uri/loggingservice

amster data attribute: loggingUrl

#### **Policy Service URL**

Specifies the endpoint used by the policy service.

Default value: %protocol://%host:%port%uri/policyservice

amster data attribute: policyUrl

### **Authentication Service URL**

Specifies the endpoint used by the authentication service.

Default value: %protocol://%host:%port%uri/authservice

amster data 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

amster data attribute: samlAwareServletUrl

## SAML SOAP Service URL

Specifies the SAML v1 SOAP service endpoint.

Default value: %protocol://%host:%port%uri/SAMLSOAPReceiver

amster data attribute: samlSoapReceiverUrl

## SAML Web Profile/POST Service URL

Specifies the SAML v1 Web Profile endpoint.

Default value: %protocol://%host:%port%uri/SAMLPOSTProfileServlet

amster data attribute: samlPostServletUrl

## SAML Assertion Manager Service URL

Specifies the SAML v1 assertion service endpoint.

Default value: %protocol://%host:%port%uri/AssertionManagerServlet/AssertionManagerIF

amster data attribute: samlAssertionManagerUrl

## **JAXRPC Endpoint URL**

Specifies the JAXRPC endpoint URL used by the remote IDM/SMS APIs.

Default value: %protocol://%host:%port%uri/jaxrpc/

amster data attribute: jaxrpcUrl

# 2.2.14.3. Endpoint Configuration

The following settings appear on the Endpoint Configuration tab:

## Federation Assertion Manager Service URL (Deprecated)

Specifies the ID-FF assertion manager endpoint.

Default value: %protocol://%host:%port%uri/FSAssertionManagerServlet/FSAssertionManagerIF

amster data attribute: federationAssertionManagerUrl

### Security Token Manager URL

Specifies the security token manager endpoint.

Default value: %protocol://%host:%port%uri/SecurityTokenManagerServlet/SecurityTokenManagerIF

amster data attribute: securityTokenManagerUrl

#### **Identity Web Services Endpoint URL**

Specifies the endpoint for the Identity WSDL services.

Default value: %protocol://%host:%port%uri/identityservices/

amster data attribute: jaxwsUrl

### **Identity REST Services Endpoint URL**

Specifies the endpoint for the Identity REST services.

Default value: %protocol://%host:%port%uri/identity/

amster data attribute: idsvcsRestUrl

#### Security Token Service Endpoint URL

Specifies the STS endpoint.

Default value: %protocol://%host:%port%uri/sts

amster data attribute: stsUrl

## Security Token Service MEX Endpoint URL

Specifies the STS MEX endpoint.

Default value: %protocol://%host:%port%uri/sts/mex

amster data attribute: stsMexUrl

# 2.2.15. OAuth2 Provider

amster type ID: 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

amster data 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

amster data 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

amster data 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: OER1/2qAqqQTWOwvLrTsUH2icdnRqKE3tzD+UBi08iY=

amster data 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

amster data 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

amster data attribute: statelessTokensEnabled

### Authorization Code Lifetime (seconds)

The time an authorization code is valid for, in seconds.

Default value: 120

**amster** data 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

amster data attribute: refreshTokenLifetime

## **Access Token Lifetime (seconds)**

The time an access token is valid for, in seconds.

Default value: 3600

amster data attribute: accessTokenLifetime

#### **Issue Refresh Tokens**

Whether to issue a refresh token when returning an access token.

Default value: true

amster data attribute: issueRefreshToken

#### **Issue Refresh Tokens on Refreshing Access Tokens**

Whether to issue a refresh token when refreshing an access token.



Default value: true

**amster** data attribute: issueRefreshTokenOnRefreshedToken

#### Saved Consent Attribute Name

Name of a case-sensitive and 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.

amster data 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		
gotoUrl	The URL to redirect to after login.		
acrValues	The Authentication Context Class Reference (acr) values for the authorization request.		
realm	The OpenAM realm the authorization request was made on.		
module	The name of the OpenAM authentication module requested to perform resource owner authentication.		
service	The name of the OpenAM authentication chain requested to perform resource owner authentication.		
locale	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 <code>/oauth2/authorize</code> 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>
locale??>&locale=\${locale}</#if>

amster data 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

amster data 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 ( <a href="mailto://oauth2/authorize">/oauth2/authorize</a>) 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-typeplugin-class-name.

Default value:

```
code|org.forgerock.oauth2.core.AuthorizationCodeResponseTypeHandler
device_code|org.forgerock.oauth2.core.TokenResponseTypeHandler
token|org.forgerock.oauth2.core.TokenResponseTypeHandler
```

**amster** data 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

amster data 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

**amster** data 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.

#### Important

Do not add the special token am-introspect-all-tokens to this list.

Instead, add it to the list of scopes in the client profile of a client that should have access to introspect access tokens issued to other clients in the same realm.

#### **amster** data 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

amster data 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.

amster data 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

amster data attribute: tokenSigningAlgorithm

#### **Stateless Token Compression**

Whether stateless access and refresh tokens should be compressed.

amster data attribute: tokenCompressionEnabled

## **Token Signing HMAC Shared Secret**

Base64-encoded key used by HS256, HS384 and HS512.

Default value: OER1/2qAqqQTWOwvLrTsUH2icdnRqKE3tzD+UBi08iY=

amster data 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

amster data 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

amster data 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 <u>sub</u> claims to individuals using the same request\_uri or sector\_identifier\_uri.

For example, you might set this property to: changeme

amster data 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

amster data attribute: codeVerifierEnforced

#### Modified Timestamp attribute name

The identity Data Store attribute used to return modified timestamp values.

This attribute is paired together with the Created Timestamp Attribute Name attribute (createdTimestampAttribute). You can leave both attributes unset (default) or set them both. If you set only one attribute and leave the other blank, the access token fails with a 500 error.

For example, when you configure AM as an OpenID Connect Provider in a Mobile Connect application and use DS as an Identity data store, the client accesses the <u>userinfo</u> endpoint to obtain the <u>updated\_at</u> claim value in the ID token. The <u>updated\_at</u> claim obtains its value from the <u>modifiedTimestampAttribute</u> attribute in the user profile. If the profile has never been modified, <u>updated\_at</u> claim uses the <u>createdTimestampAttribute</u> attribute. For more information, see "Configuring as an OP for Mobile Connect" in the *OpenID Connect 1.0 Guide*.

amster attribute: modifiedTimestampAttribute

#### **Created Timestamp attribute name**

The identity Data Store attribute used to return created timestamp values.

This attribute is paired together with the Modified Timestamp Attribute Name (modifyTimestampAttribute). You can leave both attributes unset (default) or set them both. If you set only one attribute and leave the other blank, the access token fails with a 500 error.

For example, when you configure AM as an OpenID Connect Provider in a Mobile Connect application and use DS as an Identity data store, the client accesses the userinfo endpoint to obtain the updated\_at claim value in the ID token. The updated\_at claim obtains its value from the modifiedTimestampAttribute attribute in the user profile. If the profile has never been modified, updated\_at claim uses the createdTimestampAttribute attribute. For more information, see "Configuring as an OP for Mobile Connect" in the OpenID Connect 1.0 Guide.

#### amster 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

amster data 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

amster data 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

amster data 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

amster data 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-0AEP-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

amster data 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

amster data 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 <code>family\_name</code> would allow the claim <code>family\_name</code> to be used by the client, but would not display it to the user on the consent page when requested.

**amster** data attribute: supportedClaims

### **OpenID Connect JWT Token Lifetime (seconds)**

The amount of time the JWT will be valid for, in seconds.

Default value: 3600

amster data 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| rsa1\_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

amster data 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.

amster data 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

#### amster data 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

amster data 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

amster data 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

amster data 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.

amster data attribute: loaMapping

#### **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.

amster data 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.

amster data 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

**amster** data 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

**amster** data 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:

#### ES512

amster data 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-0AEP-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-0AEP RSA-0AEP-256 A128KW RSA1\_5 A256KW dir A192KW

amster data 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

amster data attribute: supportedRequestParameterEncryptionEnc

## **Require request URI supported**

Specifies whether request\_uri values must be pre-registered using the request\_uris registration parameter.

Default value: false

amster data attribute: requireRequestUriRegistration

## **Authorized OIDC SSO Clients**

Specify a list of client names that are authorized to use OpenID Connect ID tokens as SSO Tokens.

Clients in this list can use ID tokens issued by AM to a user as if it were a full SSO token belonging to that user. For information on SSO tokens, see "About Sessions" in the *Authentication and Single Sign-On Guide*.

Important

Only add known trusted clients, as enabling this feature grants more authority than an ID Token normally provides.

Note that Java EE Agents 5 and Web Policy Agents 5 use OpenID Connect for communicating with AM. Agent profiles are automatically granted this privilege and do not need to be whitelisted.

amster attribute: authorisedOpenIdConnectSSOClients

## 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.

amster data 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.

amster data attribute: completionUrl

### **Device Code Lifetime (seconds)**

The lifetime of the device code, in seconds.

Default value: 300

amster data attribute: deviceCodeLifetime

### **Device Polling Interval**

The polling frequency for devices waiting for tokens when using the device code flow.

Default value: 5

amster data attribute: devicePollInterval

## 2.2.16. Platform

#### amster type ID: 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

amster data 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

amster data attribute: cookieDomains

# 2.2.17. Policy Configuration

amster 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=*|oneLevelWildcard=-*-|delimiter=/|caseSensitive=false
serviceType=sunIdentityServerDiscoveryService|
class=com.sun.identity.policy.plugins.PrefixResourceName|wildcard=*|oneLevelWildcard=-*-|delimiter=;|
caseSensitive=false
```

amster data 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

amster data 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

amster data 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

amster data attribute: ldapServer

## LDAP Users Base DN

Base DN for LDAP Users subject searches.

Default value: dc=openam,dc=forgerock,dc=org

amster data attribute: usersBaseDn

## **OpenAM Roles Base DN**

Base DN for OpenAM Roles searches.

Default value: dc=openam,dc=forgerock,dc=org

amster data attribute: rolesBaseDn

## LDAP Bind DN

Bind DN to connect to the directory server for policy information.

Default value: cn=Directory Manager

amster data attribute: bindDn

## **LDAP Bind Password**

Bind password to connect to the directory server for policy information.

amster data attribute: <a href="mailto:bindPassword">bindPassword</a>

## LDAP Organization Search Filter

Search filter to match organization entries.

Default value: (objectclass=sunismanagedorganization)

amster data attribute: realmSearchFilter

### **LDAP Users Search Filter**

Search filter to match user entries.

Default value: (objectclass=inetorgperson)

amster data 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

amster data 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

amster data attribute: rolesSearchScope

#### **LDAP Users Search Attribute**

Naming attribute for user entries.

Default value: uid

amster data attribute: usersSearchAttribute

#### **Maximum Results Returned from Search**

Search limit for LDAP searches.

Default value: 100

amster data attribute: maximumSearchResults

### Search Timeout

Time after which OpenAM returns an error for an incomplete search, in seconds.

Default value: 5

amster data 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

amster data attribute: sslEnabled

### **LDAP Connection Pool Minimum Size**

Minimum number of connections in the pool.

Default value: 1

amster data attribute: connectionPoolMinimumSize

### **LDAP Connection Pool Maximum Size**

Maximum number of connections in the pool.

Default value: 10

amster data attribute: connectionPoolMaximumSize

#### **Subjects Result Time to Live**

Maximum time that OpenAM caches a subject result for evaluating policy requests, in minutes. A value of o prevents OpenAM from caching subject evaluations for policy decisions.

Default value: 10

**amster** data attribute: subjectsResultTLL

#### **User Alias**

If enabled, OpenAM can evaluate policy for remote users aliased to local users.

Default value: false

**amster** data attribute: userAliasEnabled

# 2.2.18. Push Notification Service

amster type ID: 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

amster data 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

amster data 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* 

amster data 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* 

amster data attribute: googleEndpoint

#### **SNS Client Region**

Region of your registered Amazon Simple Notification Service client. For more information, see <a href="https://docs.aws.amazon.com/general/latest/gr/rande.html">https://docs.aws.amazon.com/general/latest/gr/rande.html</a>.

The possible values for this property are:

us-gov-west-1 us-east-1 us-west-1 eu-west-1 eu-central-1 ap-southeast-1 ap-northeast-2 ap-northeast-2 sa-east-1 cn-north-1

Default value: us-east-1

amster data 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

**amster** data 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

amster data 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

amster data 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

**amster** data attribute: mdCacheSize

# 2.2.19. RADIUS Server

amster type ID: RadiusServerService

# 2.2.19.1. Configuration

The following settings appear on the **Configuration** tab:

# Enabled

 $\ensuremath{\mathsf{Enables}}$  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

amster data 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

amster data 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

amster data attribute: radiusThreadPoolCoreSize

### **Thread Pool Max Size**

Maximum number of threads allowed in the pool. See also "Thread Pool Core Size".

Default value: 10

amster data 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

amster data 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

amster data 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

amster data 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



amster data 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 obfiscated by replacing with asterisks. This should only be enabled for troubleshooting as it adds significant content to logs and slows processing.

Default value: NO

amster data 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

amster data 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
```

amster data attribute: handlerConfig

# 2.2.20. REST APIs

amster type ID: 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

amster data 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

amster data 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** 

amster data 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

amster data attribute: defaultProtocolVersion

# 2.2.21. SAML v2.0 SOAP Binding

amster type ID: 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

amster data attribute: requestHandlers

# 2.2.22. SAML v2.0 Service Configuration

amster type ID: 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

amster data attribute: cacheCleanupInterval

### Attribute name for Name ID information

User entry attribute to store name identifier information.

Default value: sun-fm-saml2-nameid-info

amster data 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

amster data attribute: nameIDInfoKeyAttribute

#### **Cookie domain for IdP Discovery Service**

Specifies the cookie domain for the IDP discovery service.

Default value: openam.example.com

**amster** data attribute: <a href="https://docs.org/cockieDomain">idpDiscoveryCookieDomain</a>

#### **Cookie type for IdP Discovery Service**

Specifies the cookie type to use.

The possible values for this property are:

PERSISTENT SESSION

Default value: **PERSISTENT** 

**amster** data attribute: <a href="https://www.ubiconverses/attribute-idpDiscoveryCookieType">idpDiscoveryCookieType</a>

# **URL scheme for IdP Discovery Service**

Specifies the URL scheme to use.

The possible values for this property are:

http



#### https

Default value: https

amster data 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

amster data 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

amster data attribute: encryptedKeyInKeyInfo

#### XML Signing SPI implementation class

Used by the SAML2 engine to sign documents.

Default value: com.sun.identity.saml2.xmlsig.FMSigProvider

**amster** data attribute: xmlSigningClass

#### **XML Signing Certificate Validation**

If enabled, then validate certificates used to sign documents.

Default value: false

amster data attribute: signingCertValidation

#### **CA Certificate Validation**

If enabled, then validate CA certificates.

Default value: false

amster data attribute: caCertValidation

# Enable SAML v2.0 failover

If enabled, OpenAM can failover SAML v2.0 requests to another instance.

Default value: false

amster data attribute: fail0verEnabled

# Buffer length (in bytes) to decompress request

Specify the size of the buffer used for decompressing requests, in bytes.

Default value: 2048

amster data 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

amster data attribute: metadataSigningKey

### Metadata signing key password

Specify the password used to retrieve the signing key from the keystore.

amster data attribute: metadataSigningKeyPass

# 2.2.23. Scripting

amster type ID: 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

amster data 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.

```
amster data 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.

**amster** data 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.

amster data 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.



amster data 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.

amster data 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 <u>Core thread pool size</u> idle threads will not be terminated, to maintain the initial pool size.

amster data 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.

amster data 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.

amster data 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.

#### amster data attribute: useSecurityManager

#### Scripting languages

Select the languages available for scripts on the chosen type. Either GROOVY or JAVASCRIPT.

amster data attribute: languages

# **Default Script**

The source code that is presented as the default when creating a new script of this type.

amster data attribute: defaultScript

# 2.2.24. Session

amster type ID: 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

amster data 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

amster data attribute: latestAccessTimeUpdateFrequency

#### **DN Restriction Only Enabled**

If enabled, OpenAM will not perform DNS lookups when checking restrictions in cookie hijacking mode.

Default value: false

amster data attribute: dnRestrictionOnly

#### **Session Timeout Handler implementations**

Lists plugin classes implementing session timeout handlers. Specify the fully qualified name.

**amster** data 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

amster data attribute: maxSessionListSize

#### **Timeout for Search**

Time after which OpenAM sees an incomplete search as having failed, in seconds.

Default value: 5

amster data 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** 

amster data attribute: propertyChangeNotifications

# **Notification Properties**

Lists session properties for which OpenAM can send notifications upon modification. Session notification applies to stateful sessions only.

amster data 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	
0FI	F

Default value: **OFF** 

amster data 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

amster data 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

amster data 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

amster data 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:

	56 34 12 56 56 34			
ES512	56 34 12 56 56 34			

Default value: HS256

#### amster data 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=

amster data 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, ES256,

Certificate will be retrieved from the keystore specified by the com.sun.identity.saml.xmlsig.keystore property.

Default value: test

amster data 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-0AEP-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** 

amster data 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

#### amster data 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

amster data 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

amster data 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

amster data 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

amster data 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 have for the HMAC key).

AES key sizes greater than 128 bits require installation of the JCE Unlimited Strength policy files in your JRE.

**amster** data 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

amster data attribute: statelessCompressionType

# 2.2.24.7. Dynamic Attributes

#### Note

Configuring any of the following properties at the realm level (Realms > *Realm Name* > Services > Session) causes the values to be stored in the identity data store configured in that realm.

If you remove the identity data store from the realm, the properties will use the values configured at the global level (Configure > Global Services > Session).

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

amster data 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

**amster** data attribute: maxIdleTime

#### **Maximum Caching Time**

Maximum time before OpenAM refreshes a session that has been cached, in minutes.

Default value: 3

amster data attribute: maxCachingTime

#### **Active User Sessions**

Maximum number of concurrent stateful sessions OpenAM allows a user to have.

Default value: 5

amster data attribute: quotaLimit

# 2.2.25. Session Property Whitelist Service

amster type ID: 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.

amster data attribute: sessionPropertyWhitelist

# 2.2.26. Social Authentication Implementations

amster type ID: 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

**amster** data 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

amster data 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

### **amster** data 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

**amster** data attribute: enabledKeys

# 2.2.27. UMA Provider

amster type ID: 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

amster data attribute: rptLifetime

### **Permission Ticket Lifetime (seconds)**

The maximum life of a permission ticket before it expires, in seconds.

Default value: 120

amster data 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

amster data 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

amster data 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

amster data 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

amster data attribute: emailRequestingPartyOnPendingRequestApproval

#### User profile preferred Locale attribute

User profile attribute storing the user's preferred locale.

Default value: inetOrgPerson

amster data 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** 

amster data 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

amster data attribute: requireTrustElevation

2.2.28. User

amster type ID: 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.

amster data attribute: preferredTimezone

#### **Administrator DN Starting View**

Specifies the DN for the initial screen when the OpenAM administrator successfully logs in to the OpenAM console.

amster data 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

amster data attribute: defaultUserStatus

# 2.2.29. User Self-Service

amster type ID: 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

amster data 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

amster data attribute: signingSecretKeyAlias

# **Google reCAPTCHA Site Key**

Google reCAPTCHA plugin site key.

amster data attribute: captchaSiteKey

### Google reCAPTCHA Secret Key

Google reCAPTCHA plugin secret key.

amster data attribute: captchaSecretKey

### **Google Re-captcha Verification URL**

Google reCAPTCHA plugin verification URL.

Default value: https://www.google.com/recaptcha/api/siteverify

amster data 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?
```

amster data attribute: kbaQuestions

#### **Minimum Answers to Define**

Specifies the minimum number of KBA answers that users must define.

Default value: 1

amster data 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

amster data 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

amster data 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

amster data attribute: userRegistrationEnabled

# Captcha

If enabled, users must pass a Google reCAPTCHA challenge during user self-registration to mitigate against software bots.

Default value: false

amster data attribute: userRegistrationCaptchaEnabled

#### **Email Verification**

If enabled, users who self-register must perform email address verification.

Default value: true

amster data attribute: userRegistrationEmailVerificationEnabled

#### **Security Questions**

If enabled, users must set up their security questions during the self-registration process.

Default value: false

amster data attribute: userRegistrationKbaEnabled

#### Token Lifetime (seconds)

Maximum lifetime of the token allowing User Self-Registration, in seconds.

Default value: 900

**amster** data attribute: userRegistrationTokenTTL

#### **Outgoing Email Subject**

Customize the User Self-Registration verification email subject text. Format is locale|subject text.

Default value: en|Registration email

amster data attribute: userRegistrationEmailSubject

### **Outgoing Email Body**

Customize the User Self-Registration verification email body text. Format is: localejbody text.

Default value: en|<h2>Click on this <a href="%link%">link</a> to register.</h2>

amster data 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

amster data 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

amster data 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

amster data attribute: forgottenPasswordEnabled

#### Captcha

If enabled, users must pass a Google reCAPTCHA challenge during password reset to mitigate against software bots.

Default value: false

amster data attribute: forgottenPasswordCaptchaEnabled

# **Email Verification**

If enabled, users who reset passwords must perform email address verification.

Default value: true

amster data attribute: forgottenPasswordEmailVerificationEnabled

### **Security Questions**

If enabled, users must answer their security questions during the forgotten password process.

Default value: false

amster data 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

amster data attribute: forgottenPasswordTokenTTL

#### **Outgoing Email Subject**

Customize the forgotten password email subject text. Format is locale subject text.

Default value: en|Forgotten password email

amster data 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>

amster data 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

amster data 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

amster data attribute: forgottenUsernameCaptchaEnabled

#### Security Questions

If enabled, users must answer their security questions during the forgotten username process.

Default value: false

**amster** data attribute: forgottenUsernameKbaEnabled

### **Email Username**

If enabled, users receive their forgotten username by email.

Default value: true

amster data attribute: forgottenUsernameEmailUsernameEnabled

#### Show Username

If enabled, users see their forgotten username on the browser page.

Default value: false

amster data attribute: forgottenUsernameShowUsernameEnabled

#### **Token LifeTime (seconds)**

Maximum lifetime for the token allowing forgotten username, in seconds.

Default value: 900

amster data attribute: forgottenUsernameTokenTTL

#### **Outgoing Email Subject**

Customizes the forgotten username email subject text. Format is locale|subject text.

Default value: en|Forgotten username email

amster data 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>

amster data 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.

amster data 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 frealm} string is replaced with the current realm.

Default value: http://openam.example.com:8080/openam/XUI/?realm=\${realm}#register/

amster data 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 *frealm* string is replaced with the current realm.

Default value: http://openam.example.com:8080/openam/XUI/?realm=\${realm}#passwordReset/

amster data 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

amster data 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

amster data 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

amster data attribute: forgottenUsernameServiceConfigClass

# 2.2.30. Validation Service

**amster** type ID: 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 <u>goto</u> or <u>gotoOnFail</u> 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/\*?\*

amster data 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.

- "Configuring Servers"
- "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 > Server > Server Name.

Default server properties are applied to all server instances, and can be overriden 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.

		ienceu i	repercies		
http://openam.example.com:8	080/openam				
✿ General ● Security	CTS			Search	٩
a Session	CTS Token Store	External S	Store Configuration		
E CTS	St	tore Mode	Default Token Store	-	
⊘ UMA	R	loot Suffix			Inherit value
<ul> <li>Advanced</li> <li>Directory Configuration</li> </ul>	Max Co	nnections	10		
					Save Changes

# 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 > Server > *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, <a href="https://openam.example.com:443/openam/notificationservice">https://openam.example.com:443/openam/notificationservice</a>

Default: %SERVER\_PROT0%://%SERVER\_HOST%:%SERVER\_PORT%/%SERVER\_URI%/notificationservice

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, <u>debug.out</u>. By default, AM writes a debug log per component.

Changes to this property take effect immediately. No server restart is necessary.

Default:0ff

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.iplanet.am.smtphost

## Mail Server Port Number

Specifies the port of the SMTP server AM uses for sending email.

Default: 25

property: com.iplanet.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: AQICQ7QMKN5TSt1fpyFZBMZ8hRwkYkkrUaFk

property: com.iplanet.am.service.secret

# **Encryption class**

Specifies the default class used to handle encryption

Default: com.iplanet.services.util.JCEEncryption

property: com.iplanet.security.encryptor

## Secure Random Factory Class

Specifies the class used to provide AM with cryptographically strong random strings. Possible values are the com.iplanet.am.util.JSSSecureRandomFactoryImpl class for JSS and the com.iplanet.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.iplanet.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.RemoteHttpServletRequest .authentication.service.protocol.RemoteServletRequest, org.forgerock.openam.authentication.service .protocol.RemoteServletResponse, org.forgerock.openam.authentication.service.protocol.RemoteSession, .org.forgerock.openam.duthentication.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 "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 "Tuning CTS LDAP Connection 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-djl.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-djl.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-djl.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-djl.example.com:389. Any server not specified accesses the first server on the list, while it is available.

If cts-djl.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-djl.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 "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 "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 "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 "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.iplanet.am.cookie.c66Encode

Properly URL encode session tokens.

Default: true

### com.iplanet.am.daemons

Modules for which to open daemons at AM startup.

Default: securid

#### com.iplanet.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. The value of this property defaults to the unique AM server ID, although you can set your own unique value

To improve AM server performance, keep the value of the amlbcookie cookie set to the AM server ID when using Web Policy Agent 4.1.x with CDSSO mode enabled.

If you have replaced the value of the this property and you need to match the AM server URLs with their corresponding server IDs, query the global-config/servers endpoint. For example:



```
$ curl -X GET
١
--header 'Accept: application/json'
\
--header "iPlanetDirectoryPro: AQIC5...NDU1*" \
'https://openam.example.com:8443/openam/json/global-config/servers?_queryFilter=true'
"result": [
   " id": "01",
   "rev": "-1541617246",
   "siteName": null,
   "url": "https://openam.example.com:8443/openam"
}
],
"resultCount": 1,
"totalPagedResults": -1,
"totalPagedResultsPolicy": "NONE"
```

In the example above, the server ID for server https://openam.example.com:8443/openam is 01.

### 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.iplanet.am.sdk.caching.enabled

Enables caching for configuration data and user data. See "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.iplanet.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.iplanet.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.iplanet.am.session.client.polling.period

If client applications poll for changes, number of seconds between polls.

Default: 180

### com.iplanet.am.session.failover.cluster.stateCheck.period

Time in milliseconds between health checks of other servers in the same site.

Default: 1000

### com.iplanet.am.session.failover.cluster.stateCheck.timeout

Socket timeout in milliseconds for health checks of other servers in the same site.

Default: 1000

### com.iplanet.am.session.httpSession.enabled

Create an HttpSession for users on successful authentication.

Default: true

### com.iplanet.security.SSLSocketFactoryImpl

SSL socket factory implementation used by AM.

Default: com.sun.identity.shared.ldap.factory.JSSESocketFactory, uses a pure Java provider

### com.iplanet.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 property 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.

#### Note

Set this property on a per-server basis by navigating to Deployment > Servers > Server Name > Advanced, rather than globally under Configure > Server Defaults.

#### 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 "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 "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 "Preparing AES Key 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 "Preparing AES Key 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 "Preparing AES Key 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-0AEP-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.ssoprovider.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.ssoprovider.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.policy.subject.evaluation.cache.size

Maintains a record of subject IDs matched or not matched in a given session. The cache is keyed on the token ID and the session is cleared when destroyed.

Default: 10000

org.forgerock.services.cts.reaper.cache.pollFrequencyMilliseconds

How often to poll the reaper cache for tokens that have expired, and delete them.

By default, an AM instance will review its cache for tokens eligible for deletion every 100 milliseconds.

Default: 100 (milliseconds)

For more information, see "Reaper Cache Size" in the Installation Guide.

### org.forgerock.services.cts.reaper.cache.size

The number of records an AM instance will store in its CTS reaper cache.

Default: 500000

For more information, see "Reaper Cache Size" in the Installation Guide.

#### org.forgerock.services.cts.reaper.search.gracePeriodMilliseconds

Specifies a grace period used when searching for expired tokens. Any tokens that expired more than the specified duration ago are returned.

The grace period should be larger than the value controlled by the org.forgerock.services.cts .reaper.cache.pollFrequencyMilliseconds advanced property. This allows an AM instance sufficient time to delete the token using its cache, rather than search.

Deleting from the cache is preferred as it avoids expensive searches against the CTS persistence store, and avoids multiple servers attempting to delete the same token.

Default: 300000 (milliseconds)

For more information, see "Reaper Cache Size" in the Installation Guide.

#### org.forgerock.services.cts.reaper.search.pageSize

The maximum number of expired tokens to return in one page when searching the CTS persistence store.

#### Note

If the search returns a full page of results, the AM instance will delete the results it has received, and immediately perform another search to retrieve the next page of results, without waiting for the configured poll frequency.

## Default: 1000

For more information, see "Reaper Cache Size" in the Installation Guide.

#### org.forgerock.services.cts.reaper.search.pollFrequencyMilliseconds

How often to perform a search for expired tokens in the CTS persistence store.

Default: 300000 (milliseconds)

For more information, see "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 "Tuning CTS LDAP Connection 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 "Tuning CTS LDAP Connection 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 "Tuning CTS LDAP Connection 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.

# <sup>Chapter 3</sup> Ports Used

The software uses a number of ports by default.

Default ports are shown in the following table:

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 "SecurID Authentication Module" in the Authentication and Single Sign-On Guide.

# Default Ports Used

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- Draft 10 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.

## 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.

# <sup>Chapter 5</sup> 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 <u>isAlive.jsp</u> in the main <u>/path/to/tomcat/webapps/openam</u> 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 <a href="https://openam.example.com">https://openam.example.com</a>.com:8443/openam/, the full URL to the <a href="https://openam.example.com">isAlive.jsp</a> endpoint is <a href="https://openam.example.com">https://openam.example</a>.com:8443/openam/, the full URL to the <a href="https://openam.example.com">isAlive.jsp</a> endpoint is <a href="https://openam.example.com">https://openam.example</a>.com:8443/openam/</a>.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 <a href="http://idp.example.com:8080/openam">http://idp.example.com:8080/openam</a>, you can log in and review debug options by navigating to <a href="http://idp.example.com:8080/openam/Debug.jsp">http://idp.example.com:8080/openam</a>, you can log in and review debug options by navigating to <a href="http://idp.example.com:8080/openam/Debug.jsp">http://idp.example.com:8080/openam</a>, you can log in and review debug options by navigating to <a href="http://idp.example.com:8080/openam/Debug.jsp">http://idp.example.com:8080/openam</a>, you can log in and review debug options by navigating to <a href="http://idp.example.com">http://idp.example.com</a>.

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 "*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 "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 PBEWithMD5AndDES, 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 "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 <code>OAuth.xml</code> 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 <u>user.not.inrole</u> parameter, which is defined in the <u>amAuthUI.properties</u> 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 toplevel 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.

#### FSSAMLTargetURLsEdit.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 processingrelated 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 <code>console/realm</code> 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.jspservice 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 an 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.

## SCPolicy.jsp

Supports a view of the current policy configuration. To access this window, select Configure > Global Services > Policy Configuration.

#### SCPolicyResourceComparatorAdd.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.

#### SCPolicyResourceComparatorEdit.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 SOAPbased 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.

#### SCS0APBinding.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).

#### SCS0APBindingRequestHandlerListDup.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 fo 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.

### SMDiscoveryBootstrapRef0ffAdd.jsp

Includes new resource offerings for the discovery service, bootstrapped using a standard such as SAML2.

#### SMDiscoveryBootstrapRef0ffEdit.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 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.

#### SMProfile.jsp

Provides statistics on current stateful login sessions. Available from Realms > *Realm Name* > Sessions.

#### SessionHAStatistics.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 "*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 wih a user. To access from the screen for an individual user, select Service > 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 "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 "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 "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 an 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 "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.

#### idpSS0Federate.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.

#### idpSS0Init.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 <a href="https://idpMNIRequestInit.jsp">idpMNIRequestInit.jsp</a>. 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 <a href="https://idplace.org/ligblecommons.org">idplace.org</a>.

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 <u>url-pattern</u> 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, /profileservice, /policyservice, /namingservice, /loggingservice, /authservice, /
notificationservice

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 spMNISOAP.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 SPECPService 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 spSS0Init.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.

#### /idpSS0Federate

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 chapter on "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 <u>SingleSignOnService</u>. Associated with the <u>FSSSOAndFedService</u> 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 "Well-Known Endpoints".

#### /json/\*

Used by a servlet named ForgeRockRest. Associated with the HttpServlet class. For more information, see "*Developing with the REST API*" in the *Development Guide*. In addition, you can read more about associated REST endpoints in "REST API Endpoints".

### /frrest/oauth2/\*

Used by a servlet named OAuth2Rest. Associated with the RestTokenDispatcher class. For more information, see "OAuth 2.0 Token Administration Endpoint (Legacy)" 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 "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.

### /**id**m/\*

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 "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 "Configuring for OpenID Connect Discovery" in the *OpenID Connect 1.0 Guide*.

# <sup>Chapter 6</sup> 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 "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 retreiving 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: Retreived 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: Retreiving the circle of trust

Actions: Check configuration; check debug for more detailed error message.

# CONFIG\_ERROR\_RETREIVE\_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: Acccount 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  $\operatorname{ID}$ 

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 Authenticaton 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 retreive 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 retreive 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 retreiving 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 Response 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: Invaid 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: Invaid 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: Invaid 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: Invaid 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: Invaid 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: Invaid 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: Invaid 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: Invaid 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: Invaid 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: Invaid 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\_COMFIRMATION\_DATA

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

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

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



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: Invaid 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 retreived., 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 retreive the certificate.

Data: The realm from which the metadata was retreived., 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 retreived., 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 existance 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 retreive 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 retreive 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 Resposnse, 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 retreived., Entity Identifier for the Policy Decision Point., Cert Alias used to retrieve certificate from keystore.

Triggers: The Request will be processed.

#### SUCCESS\_FED\_SSO

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



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

### 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

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 levele 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**



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

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

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 Secuirty 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.

# ${\tt LOGIN\_FAILED\_MODULE\_INSTANCE\_ACCOUNTEXPIRED}$

**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.

# ${\tt LOGIN\_FAILED\_MODULE\_INSTANCE\_MODULEDENIED}$

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.

# ${\bf SUCCEED\_UNASSIGN\_SERVICE\_FROM\_REALM}$

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 returneed.

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.

# SUCCEED\_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.

# SUCCEED\_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.

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

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

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\_CONFIGURATIONT\_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

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

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

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.

#### SUCCEED\_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

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

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

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: Attemp 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



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

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



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

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

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

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

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 authority to be created, metaAlias for hosted attribute 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 authority to be created, metaAlias for hosted attribute 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

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

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

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

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



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

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

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

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 succeded.

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

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



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.

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.

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.

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.

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.

## ${\tt SUCCEED\_WRITe\_GLOBAL\_DEFAULT\_ATTRIBUTe\_VALUES}$

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

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

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

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

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

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

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

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

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

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

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

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

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

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\_DESCRIPTORS

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\_DESCRIPTORS

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\_DESCRIPTORS

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

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

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

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

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

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



#### 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\_ATR\_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 nodified.

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



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

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** 

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



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

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

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\_IGNORING\_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

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.

While many articles are visible to community members, ForgeRock customers have access to much more, including advanced information for customers using ForgeRock software in a mission-critical capacity.

• ForgeRock product 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.

# A.2. Using the ForgeRock.org Site

The ForgeRock.org site has links to source code for ForgeRock open source software, as well as links to the ForgeRock forums and technical blogs.

If you are a *ForgeRock customer*, raise a support ticket instead of using the forums. ForgeRock support professionals will get in touch to help you.

# A.3. Getting Support and Contacting ForgeRock

ForgeRock provides support services, professional services, training 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 on ForgeRock's support offering, including support plans and service level agreements (SLAs), visit https://www.forgerock.com/support.

# 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	In general terms, a service exposing protected resources.
	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.
Application type	Application types act as templates for creating policy applications.
	Application types define a preset list of actions and functional logic, such as policy lookup and resource comparator logic.



	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	Defined as part of policies, these determine the circumstances under which which a policy applies.
	Environmental conditions reflect circumstances like the client IP address, time of day, how the subject authenticated, or the authentication level achieved.



	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.

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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	Represents an entity that has been authenticated (such as a user, a device, or an application), and thus is distinguished from other entities.
	When a Subject successfully authenticates, AM associates the Subject with the Principal.
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	AM unit for organizing configuration and identity information.
	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.
	Administrators can delegate realm administration. The administrator assigns administrative privileges to users, allowing them to perform administrative tasks within the realm.
Resource	Something a user can access over the network such as a web page.
	Defined as part of policies, these can include wildcards in order to match multiple actual resources.
Resource owner	In OAuth 2.0, entity who can authorize access to protected web resources, such as an end user.

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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 Stateful session and Stateless session.
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 Stateful session, 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	Group of AM servers configured the same way, accessed through a load balancer layer.
	The load balancer handles failover to provide service-level availability. Use sticky load balancing based on amlbcookie values to improve site performance.
	The load balancer can also be used to protect AM services.
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 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.