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#### Abstract

Guide to installing OpenAM Java EE policy agents. OpenAM provides open source Authentication, Authorization, Entitlement and Federation software.



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# Java EE Agent Configuration Properties

Java EE Agents use the following configuration properties. Bootstrap properties are always configured locally, whereas other agent configuration properties are either configured centrally in OpenAM or locally using the agent properties file.

# 1.1 Bootstrap Configuration Properties

These properties are set in config/OpenSSOAgentBootstrap.properties.

#### am.encryption.pwd

When using an encrypted password, set this to the encryption key used to encrypt the agent profile password.

### com.iplanet.am.naming.url

Set this to the naming service URL(s) used for naming lookups in OpenAM. Separate multiple URLs with single space characters.

#### com.iplanet.am.service.secret

When using a plain text password, set this to the password for the agent profile, and leave am.encryption.pwd blank.

When using an encrypted password, set this to the encrypted version of the password for the agent profile. Use the command ./agentadmin --encrypt agentInstance passwordFile to get the encrypted version.

- com.iplanet.am.services.deploymentDescriptor
  Set this to the URI under which OpenAM is deployed, such as /openam.
- com.iplanet.services.debug.directory

  Set this to the full path of the agent's debug log directory where the agent
  writes debug log files.
- com.sun.identity.agents.app.username Set this to the agent profile name.
- com.sun.identity.agents.config.local.logfile Set this to the full path for agent's audit log file.
- com.sun.identity.agents.config.lock.enable

  Set this to true to require an agent restart to allow agent configuration changes, even for hot-swappable parameters. Default is false.
- com.sun.identity.agents.config.organization.name

  Set this to the realm name where the agent authenticates to OpenAM.
- com.sun.identity.agents.config.profilename
   Set this to the profile name used to fetch agent configuration data. Unless
   multiple agents use the same credentials to authenticate, this is the same as
   com.sun.identity.agents.app.username.
- com.sun.identity.agents.config.service.resolver
  Set this to the class name of the service resolver used by the agent.
- com.sun.services.debug.mergeall
  When set to on, the default, the agent writes all debug messages to a single
  file under com.iplanet.services.debug.directory.

# 1.2 Agent Configuration Properties

These properties are set in config/OpenSSOAgentConfiguration.properties if your agent uses local configuration. If your agent uses centralized configuration, the properties are set in OpenAM.

 $\verb|com.iplanet.am.cookie.name| \\$ 

Name of the SSO Token cookie used between the OpenAM server and the agent. Default: iPlanetDirectoryPro.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Global > Cookie Name.

#### com.iplanet.am.sdk.remote.pollingTime

If notifications are not enabled and set to a value other than zero, specifies the time in minutes after which the agent polls to update cached user management data. Default: 1

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > OpenAM Services > User Data Cache Polling Time.

#### com.iplanet.am.server.host

Specifies the OpenAM authentication service host name.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > OpenAM Services > OpenAM Authentication Service Host Name.

#### com.iplanet.am.server.port

Specifies the OpenAM authentication service port number.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > OpenAM Services > OpenAM Authentication Service Port.

#### com.iplanet.am.server.protocol

Specifies the protocol used by the OpenAM authentication service.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > OpenAM Services > OpenAM Authentication Service Protocol.

#### com.iplanet.am.session.client.polling.enable

When enabled, the session client polls to update the session cache rather than relying on notifications from OpenAM.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > OpenAM Services > Enable Client Polling.

#### com.iplanet.am.session.client.polling.period

Specifies the time in seconds after which the session client requests an update from OpenAM for cached session information. Default: 180

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > OpenAM Services > Client Polling Period.

#### com.iplanet.security.encryptor

Specifies the agent's encryption provider class.

Default: com.iplanet.services.util.JCEEncryption

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Miscellaneous > Encryption Provider.

com.iplanet.services.debug.level

Default is Error. Increase to Message or even All for fine-grained detail.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Global > Agent Debug Level.

com.sun.identity.agents.config.access.denied.uri

Specifies the URIs of custom pages to return when access is denied. The key is the web application name. The value is the custom URI.

To set a global custom access denied URI for applications without other custom access denied URIs defined, leave the key empty and set the value to the global custom access denied URI, /sample/accessdenied.html.

To set a custom access denied URI for a specific application, set the key to the name of the application, and the value to the application access denied URI, such as /myApp/accessdenied.html.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Resource Access Denied URI.

com.sun.identity.agents.config.agent.host

Specifies the host name of the agent protected server to show to client browsers, rather than the actual host name.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Advanced > Alternative Agent Host Name.

com.sun.identity.agents.config.agent.port

Specifies the port number of the agent protected server to show to client browsers, rather than the actual port number.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Advanced > Alternative Agent Port Name.

com.sun.identity.agents.config.agent.protocol

Specifies the protocol used to contact the agent from the browser client browsers, rather than the actual protocol used by the server. Either http or https.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Advanced > Alternative Agent Protocol.

com.sun.identity.agents.config.amsso.cache.enable When enabled, the agent exposes SSO Cache through the agent SDK APIs.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > SSO > SSO Cache Enable.

com.sun.identity.agents.config.attribute.cookie.encode When enabled, attribute values are URL encoded before being set as a cookie.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Attribute Cookie Encode.

com.sun.identity.agents.config.attribute.cookie.separator
 Specifies the separator for multiple values of the same attribute when it is set
 as a cookie. Default: |.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Cookie Separator Character.

com.sun.identity.agents.config.attribute.date.format Specifies the java.text.SimpleDateFormat of date attribute values used when an attribute is set in an HTTP header. Default: EEE, d MMM yyyy hh:mm:ss z.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Fetch Attribute Date Format.

com.sun.identity.agents.config.audit.accesstype
Types of messages to log based on user URL access attempts.

Valid values for the configuration file property include LOG\_NONE, LOG\_ALLOW, LOG DENY, and LOG BOTH.

For centralized configurations this property is configured under Access Control  $> Realm\ Name > Agents > J2EE > Agent\ Name > Global > Audit Access Types.$ 

com.sun.identity.agents.config.auth.handler
Specifies custom authentication handler classes for users authenticated with
the application server. The key is the web application name and the value is
the authentication handler class name.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Custom Authentication Handler.

com.sun.identity.agents.config.bypass.principal Specifies a list of principals the agent bypasses for authentication and search purposes, such as guest or testuser.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Miscellaneous > Bypass Principal List.

com.sun.identity.agents.config.cdsso.cdcservlet.url
 List of URLs of the available CDSSO controllers that the agent can use for
 CDSSO processing. For example, http://openam.example.com:8080/openam/
 cdcservlet.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > SSO > CDSSO Servlet URL.

com.sun.identity.agents.config.cdsso.clock.skew

When set to a value other than zero, specifies the clock skew in seconds that the agent accepts when determining the validity of the CDSSO authentication response assertion.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > SSO > CDSSO Clock Skew.

com.sun.identity.agents.config.cdsso.domain
 List of domains, such as .example.com, in which cookies have to be set in
 CDSSO.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > SSO > Cross Domain SSO.

com.sun.identity.agents.config.cdsso.enable Enables Cross Domain Single Sign On.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > SSO > Cross Domain SSO.

com.sun.identity.agents.config.cdsso.redirect.uri Specifies a URI the agent uses to process CDSSO requests. For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > SSO > CDSSO Redirect URI.

com.sun.identity.agents.config.cdsso.secure.enable When enabled, the agent marks the SSO Token cookie as secure, thus the cookie is only transmitted over secure connections.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > SSO > Cross Domain SSO.

com.sun.identity.agents.config.cdsso.trusted.id.provider Specifies the list of OpenAM servers or identity providers the agent trusts when evaluating CDC Liberty Responses.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > SSO > CDSSO Trusted ID Provider.

com.sun.identity.agents.config.change.notification.enable Enable agent to receive notification messages from OpenAM server for configuration changes.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Global > Profile.

com.sun.identity.agents.config.client.hostname.header

If the agent is behind a proxy or load balancer, then the agent can get client
IP and host name values from the proxy or load balancer. For proxies and
load balancer that support providing the client IP and host name in HTTP
headers, you can use the following properties.

When multiple proxies or load balancers sit in the request path, the header values can include a comma-separated list of values with the first value representing the client, as in client, next-proxy, first-proxy.

HTTP header name that holds the hostname of the client.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Advanced > Client Hostname Header.

com.sun.identity.agents.config.client.ip.header Similar to com.sun.identity.agents.config.client.hostname.header, HTTP header name that holds the IP address of the client.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Advanced > Client IP Address Header.

com.sun.identity.agents.config.conditional.login.url
To conditionally redirect users based on the incoming request URL, set this property.

This takes the incoming request domain to match, a vertical bar ( | ), and then a comma-separated list of URLs to which to redirect incoming users.

If the domain before the vertical bar matches an incoming request URL, then the policy agent uses the list of URLs to determine how to redirect the user-agent. If the global property FQDN Check (com.sun.identity.agents.config.fqdn.check.enable) is enabled for the policy agent, then the policy agent iterates through the list until it finds an appropriate redirect URL that matches the FQDN check. Otherwise, the policy agent redirects the useragent to the first URL in the list.

Property: com.sun.identity.agents.config.conditional.login.url

Examples: com.sun.identity.agents.config.conditional.login.url[0]= login.example.com|http://openam1.example.com/openam/UI/Login, http://openam2.example.com/openam/UI/Login, com.sun.identity.agents.config.conditional.login.url[1]= signin.example.com|http://openam3.example.com/openam/UI/Login, http://openam4.example.com/openam/UI/Login

If CDSSO is enabled for the policy agent, then this property takes CDSSO Servlet URLs for its values (com.sun.identity.agents.config.cdsso.cdcservlet.url), rather than OpenAM login URLs.

CDSSO examples: com.sun.identity.agents.config.conditional.login. url[0]= login.example.com|http://openam1.example.com/openam/cdcservlet, http://openam2.example.com/openam/cdcservlet, com.sun.identity.agents. config.conditional.login.url[1]= signin.example.com|http://openam3. example.com/openam/cdcservlet, http://openam4.example.com/openam/ cdcservlet

com.sun.identity.agents.config.conditional.logout.url
The values take the incoming request URL to match and a comma-separated list of URLs to which to redirect users logging out.

Example: com.sun.identity.agents.config.conditional.logout.url[0]=
logout.example.com|http://openam1.example.com/openam/UI/Logout, http://
openam2.example.com/openam/UI/Logout

com.sun.identity.agents.config.cookie.reset.domain

Specifies how names from com.sun.identity.agents.config.cookie.reset.name
correspond to cookie domain values when the cookie is reset.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > SSO > Cookie Reset Domain Map.

com.sun.identity.agents.config.cookie.reset.enable
When enabled, agent resets cookies in the response before redirecting to
authentication.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > SSO > Cookie Reset.

com.sun.identity.agents.config.cookie.reset.name
 List of cookies to reset if com.sun.identity.agents.config.cookie.reset.
 enable is enabled.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > SSO > Cookie Reset Name List.

com.sun.identity.agents.config.cookie.reset.path
Specifies how names from the com.sun.identity.agents.config.cookie.reset.
name correspond to cookie paths when the cookie is reset.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > SSO > Cookie Reset Path Map.

com.sun.identity.agents.config.default.privileged.attribute Specifies the list of privileged attributes granted to all users with a valid OpenAM session, such as AUTHENTICATED USERS.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Default Privileged Attribute.

com.sun.identity.agents.config.filter.mode

Specifies how the agent filters requests to protected web applications. The global value functions as a default, and applies for protected applications that do not have their own filter settings. Valid settings include the following.

ALL

Enforce both the J2EE policy defined for the web container where the protected application runs, and also OpenAM policies.

When setting the filter mode to ALL, set the Map Key, but do not set any Corresponding Map Value.

#### J2EE POLICY

Enforce only the J2EE policy defined for the web container where the protected application runs.

#### NONE

Do not enforce policies to protect resources. In other words, turn off access management. Not for use in production.

SSO ONLY

Enforce only authentication, not policies.

URL POLICY

Enforce only OpenAM, URL resource based policies.

When setting the filter mode to URL\_POLICY, set the Map Key to the application name and the Corresponding Map Value to URL POLICY.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Global > Agent Filter Mode.

com.sun.identity.agents.config.fqdn.check.enable Enables checking of FQDN default value and FQDN map values.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Global > FQDN Check.

com.sun.identity.agents.config.fqdn.default

Fully qualified domain name that the users should use in order to access resources.

This property ensures that when users access protected resources on the web server without specifying the FQDN, the agent can redirect the users to URLs containing the correct FQDN.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Global > FQDN Default.

com.sun.identity.agents.config.fqdn.mapping

Maps virtual, invalid, or partial hostnames, and IP addresses to the FQDN to access protected resources. The property allows agents to redirect users to the FQDN and receive cookies belonging to the domain. It also ensures that invalid FQDN values that can cause the application server to become unusable or render resources inaccessible get properly mapped to the FQDN.

The property accepts an  $invalid\_hostname$  and a validN Map Key value. The  $invalid\_hostname$  maps an invalid or a partial hostname, or an IP address to a FQDN. The validN (where N=1,2,3...) Map Key maps virtual hostnames to a FQDN.

```
com.sun.identity.agents.config.fqdn.mapping[invalid_hostname] = valid_hostname
com.sun.identity.agents.config.fqdn.mapping[validN] = valid_hostname
```

For example, to map the partial hostname myserver to myserver.mydomain. example, enter myserver in the Map Key field, enter myserver.mydomain.example

in the Corresponding Map Value field and then click Add. This corresponds to:

```
com.sun.identity.agents.config.fqdn.mapping[myserver] = myserver.mydomain.example
```

To address a server as xyz.hostname.com, when the actual name of the server is abc.hostname.com, enter valid1 in the Map Key field, enter xyz.hostname. example in the Corresponding Map Value field and then click Add. This corresponds to:

```
com.sun.identity.agents.config.fqdn.mapping[valid1] = xyz.hostname.com
```

If you have multiple virtual servers rst.hostname.com, uvw.hostname.com, and xyz.hostname.com pointing to the same actual server abc.hostname.com and each virtual server has its own policies defined, the properties can be defined as:

```
com.sun.identity.agents.config.fqdn.mapping[valid1] = rst.hostname.com
com.sun.identity.agents.config.fqdn.mapping[valid2] = uvw.hostname.com
com.sun.identity.agents.config.fqdn.mapping[valid3] = xyz.hostname.com
```

For centralized configurations, this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Global > FQDN Virtual Host Map.

```
com.sun.identity.agents.config.httpsession.binding
```

When enabled the agent invalidates the HTTP session upon login failure, when the user has no SSO session, or when the principal user name does not match the SSO user name.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Global > HTTP Session Binding.

```
com.sun.identity.agents.config.ignore.path.info
```

When enabled, strip path info from the request URL while doing the Not Enforced List check, and URL policy evaluation. This is designed to prevent a user from accessing a URI by appending the matching pattern in the policy or not enforced list.

For example, if the not enforced list includes /\*.gif, then stripping path info from the request URL prevents access to http://host/index.html by using http://host/index.html?hack.gif.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Miscellaneous > Ignore Path Info in Request URL.

com.sun.identity.agents.config.jboss.webauth.available When enabled, allow programmatic authentication with the JBoss container using the WebAuthentication feature. This feature works only with JBoss 4.2.2 to 7 when the J2EE POLICY or ALL filter mode is in use.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Advanced > JBoss Application Server.

com.sun.identity.agents.config.legacy.redirect.uri
Specifies a URI the agent uses to redirect legacy user agent requests.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Miscellaneous > Legacy User Agent Redirect URI.

com.sun.identity.agents.config.legacy.support.enable When enabled, provide support for legacy browsers.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Miscellaneous > Legacy User Agent Support Enable.

com.sun.identity.agents.config.legacy.user.agent
 List of header values that identify legacy browsers. Entries can use the
 wildcard character, \*.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Miscellaneous > Legacy User Agent List.

com.sun.identity.agents.config.load.interval Interval in seconds to fetch agent configuration from OpenAM. Used if notifications are disabled. Default: 0

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Global > Configuration Reload Interval.

com.sun.identity.agents.config.local.log.rotate
When enabled, audit log files are rotated when reaching the specified size.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Global > Rotate Local Audit Log.

com.sun.identity.agents.config.local.log.size
Beyond this size limit in bytes the agent rotates the local audit log file if
rotation is enabled. Default: 50 MB

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Global > Local Audit Log Rotation Size.

com.sun.identity.agents.config.locale.country
The default country for the agent.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Miscellaneous > Locale Country.

com.sun.identity.agents.config.locale.language The default language for the agent.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Miscellaneous > Locale Language.

com.sun.identity.agents.config.log.disposition Specifies where audit messages are logged. By default, audit messages are logged remotely.

Valid values for the configuration file property include REMOTE, LOCAL, and ALL.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Global > Audit Log Location.

com.sun.identity.agents.config.login.attempt.limit
When set to a value other than zero, this defines the maximum number of
failed login attempts allowed during a single browser session, after which the
agent blocks requests from the user.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Global > Login Attempt Limit.

com.sun.identity.agents.config.login.content.file
Full path name to the file containing custom login content when Use Internal
Login is enabled.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Login Content File Name.

com.sun.identity.agents.config.login.error.uri
 Specifies the list of absolute URIs corresponding to a protected application's
 web.xml form-error-page element, such as /myApp/jsp/error.jsp.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Login Error URI.

com.sun.identity.agents.config.login.form
 Specifies the list of absolute URIs corresponding to a protected application's
 web.xml form-login-page element, such as /myApp/isp/login.isp.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Login Form URI.

com.sun.identity.agents.config.login.url.prioritized When enabled, OpenAM uses the priority defined in the OpenAM Login URL list as the priority for Login and CDSSO URLs when handling failover.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > OpenAM Services > Login URL Prioritized.

com.sun.identity.agents.config.login.url.probe.enabled When enabled, OpenAM checks the availability of OpenAM Login URLs before redirecting to them.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > OpenAM Services > Login URL Probe.

com.sun.identity.agents.config.login.url.probe.timeout
Timeout period in milliseconds for OpenAM to determine whether to failover
between Login URLs when Login URL Probe is enabled. Default: 2000

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > OpenAM Services > Login URL Probe Timeout.

com.sun.identity.agents.config.login.url
 OpenAM login page URL, such as http://openam.example.com:8080/openam/
 UI/Login, to which the agent redirects incoming users without sufficient
 credentials so then can authenticate.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > OpenAM Services > OpenAM Login URL.

com.sun.identity.agents.config.login.use.internal When enabled, the agent uses the internal default content file for the login.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Use Internal Login.

com.sun.identity.agents.config.logout.application.handler Specifies how logout handlers map to specific applications. The key is the web application name. The value is the logout handler class.

To set a global logout handler for applications without other logout handlers defined, leave the key empty and set the value to the global logout handler class name, GlobalApplicationLogoutHandler.

To set a logout handler for a specific application, set the key to the name of the application, and the value to the logout handler class name.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Application Logout Handler.

com.sun.identity.agents.config.logout.entry.uri
Specifies the URIs to return after successful logout and subsequent
authentication. The key is the web application name. The value is the URI to
return.

To set a global logout entry URI for applications without other logout entry URIs defined, leave the key empty and set the value to the global logout entry URI. /welcome.html.

To set a logout entry URI for a specific application, set the key to the name of the application, and the value to the application logout entry URI, such as / myApp/welcome.html.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Logout Entry URI.

com.sun.identity.agents.config.logout.handler
 Specifies custom logout handler classes to log users out of the application
 server. The key is the web application name and the value is the logout
 handler class name.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Custom Logout Handler.

com.sun.identity.agents.config.logout.introspect.enabled
 When enabled, the agent checks the HTTP request body to locate the Logout
 Request Parameter you set.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Logout Introspect Enabled.

com.sun.identity.agents.config.logout.request.param

Specifies parameters in the HTTP request that indicate logout events. The
key is the web application name. The value is the logout request parameter.

To set a global logout request parameter for applications without other logout request parameters defined, leave the key empty and set the value to the global logout request parameter, logoutparam.

To set a logout request parameter for a specific application, set the key to the name of the application, and the value to the application logout request parameter, such as logoutparam.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Logout Request Parameter.

com.sun.identity.agents.config.logout.uri
Specifies request URIs that indicate logout events. The key is the web
application name. The value is the application logout URI.

To set a global logout URI for applications without other logout URIs defined, leave the key empty and set the value to the global logout URI, /logout.jsp.

To set a logout URI for a specific application, set the key to the name of the application, and the value to the application logout page.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Application Logout URI.

com.sun.identity.agents.config.logout.url.prioritized When enabled, OpenAM uses the priority defined in the OpenAM Logout URL list as the priority for Logout URLs when handling failover.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > OpenAM Services > Logout URL Prioritized.

com.sun.identity.agents.config.logout.url.probe.enabled When enabled, OpenAM checks the availability of OpenAM Logout URLs before redirecting to them.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > OpenAM Services > Logout URL Probe.

com.sun.identity.agents.config.logout.url.probe.timeout
Timeout period in milliseconds for OpenAM to determine whether to failover
between Logout URLs when Logout URL Probe is enabled. Default: 2000

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > OpenAM Services > Logout URL Probe Timeout.

com.sun.identity.agents.config.logout.url
 OpenAM logout page URLs, such as http://openam.example.com:8080/openam/
 UI/Logout. The user is logged out of the OpenAM session when accessing
 these URLs.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > OpenAM Services > OpenAM Logout URL.

com.sun.identity.agents.config.notenforced.ip.cache.enable
When enabled, the agent caches evaluation of the not enforced IP list.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Not Enforced IP Cache Flag.

com.sun.identity.agents.config.notenforced.ip.cache.size
When caching is enabled, this limits the number of not enforced addresses
cached. Default: 1000

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Not Enforced IP Cache Size.

com.sun.identity.agents.config.notenforced.ip.invert
Only enforce the not enforced list of IP addresses. In other words, enforce
policy only for those client addresses and patterns specified in the list.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Not Enforced IP Invert List.

com.sun.identity.agents.config.notenforced.ip
 No authentication and authorization are required for the requests coming
 from these client IP addresses.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Not Enforced Client IP List.

com.sun.identity.agents.config.notenforced.refresh.session.idletime When enabled, the agent reset the session idle time when granting access to a not enforced URI, prolonging the time before the user must authenticate again.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Refresh Session Idle Time.

com.sun.identity.agents.config.notenforced.uri.cache.enable
When enabled, the agent caches evaluation of the not enforced URI list.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Not Enforced URIs Cache Enabled.

com.sun.identity.agents.config.notenforced.uri.cache.size
When caching is enabled, this limits the number of not enforced URIs cached.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Not Enforced URIs Cache Size.

com.sun.identity.agents.config.notenforced.uri.invert
Only enforce not enforced list of URIs. In other words, enforce policy only for
those URIs and patterns specified in the list.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Invert Not Enforced URIs.

com.sun.identity.agents.config.notenforced.uri
List of URIs for which no authentication is required, and the agent does not
protect access. You can use wildcards to define a pattern for a URI.

The \* wildcard matches all characters except question mark (?), cannot be escaped, and spans multiple levels in a URI. Multiple forward slashes do not match a single forward slash, so \* matches mult/iple/dirs, yet mult/\*/dirs does not match mult/dirs.

The -\*- wildcard matches all characters except forward slash (/) or question mark (?), and cannot be escaped. As it does not match /, -\*- does not span multiple levels in a URI.

OpenAM does not let you mix \* and -\*- in the same URI.

Examples include /logout.html, /images/\*, /css/-\*-, and /\*.jsp?locale=\*.

Trailing forward slashes are not recognized as part of a resource name. Therefore /images// and /images are equivalent.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Not Enforced URIs.

com.sun.identity.agents.config.policy.advice.use.redirect When enabled, the remote policy client is configured to use HTTP-Redirect instead of HTTP-POST for composite advice.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > OpenAM Services > Policy Client Service.

com.sun.identity.agents.config.policy.env.get.param
 Specifies the list of HTTP GET request parameters whose names and values
 the agents sets in the environment map for URL policy evaluation by the
 OpenAM server.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > OpenAM Services > URL Policy Env GET Parameters.

com.sun.identity.agents.config.policy.env.jsession.param Specifies the list of HTTP session attributes whose names and values the agents sets in the environment map for URL policy evaluation by the OpenAM server.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > OpenAM Services > URL Policy Env jsession Parameters.

com.sun.identity.agents.config.policy.env.post.param
 Specifies the list of HTTP POST request parameters whose names and values
 the agents sets in the environment map for URL policy evaluation by the
 OpenAM server.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > OpenAM Services > URL Policy Env POST Parameters.

com.sun.identity.agents.config.port.check.enable
 When enabled, activate port checking, correcting requests on the wrong port.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Miscellaneous > Port Check Enable.

com.sun.identity.agents.config.port.check.file Specifies the name of the file containing the content to handle requests on the wrong port when port checking is enabled.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Miscellaneous > Port Check File.

com.sun.identity.agents.config.port.check.setting
Specifies which ports correspond to which protocols. The agent uses the map when handling requests with invalid port numbers during port checking.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Miscellaneous > Port Check Setting.

com.sun.identity.agents.config.postdata.preserve.cache.entry.ttl POST data storage lifetime in milliseconds. Default: 300000.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Advanced > Post Data Preservation.

com.sun.identity.agents.config.postdata.preserve.cache.noentry.url Specifies a list of application-specific URIs if the referenced Post Data Preservation entry cannot be found in the local cache because it has exceeded its POST entry TTL. Either the agent redirects to a URI in this list, or it shows an HTTP 403 Forbidden error.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Advanced > Post Data Preservation.

com.sun.identity.agents.config.postdata.preserve.enable
Enables HTTP POST data preservation, storing POST data before redirecting
the browser to the login screen, and then autosubmitting the same POST
after successful authentication to the original URL.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Advanced > Post Data Preservation.

com.sun.identity.agents.config.postdata.preserve.stickysession.mode
 Specifies whether to create a cookie, or to append a query string to the URL
 to assist with sticky load balancing.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Advanced > Post Data Preservation.

com.sun.identity.agents.config.postdata.preserve.stickysession.value Specifies the key-value pair for stickysession mode. For example, a setting of lb=myserver either sets an lb cookie with myserver value, or adds lb=myserver to the URL query string.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Advanced > Post Data Preservation.

com.sun.identity.agents.config.privileged.attribute.mapping.enable When enabled, lets you use Privileged Attribute Mapping.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Enable Privileged Attribute Mapping.

com.sun.identity.agents.config.privileged.attribute.mapping
 Maps OpenAM UUIDs to principal names specified in your web application's
 deployment descriptor, such as com.sun.identity.agents.config.privileged.
 attribute.mapping [id\=manager,ou\=group,o\=openam] = am\_manager\_role
 or com.sun.identity.agents.config.privileged.attribute.mapping [id
 \=employee,ou\=group,o\=openam] = am employee role

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > OPrivileged Attribute Mapping.

com.sun.identity.agents.config.privileged.attribute.tolowercase Specifies how privileged attribute types should be converted to lower case.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Privileged Attributes To Lower Case.

com.sun.identity.agents.config.privileged.attribute.type
Specifies the list of privileged attribute types fetched for each user.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Privileged Attribute Type.

com.sun.identity.agents.config.privileged.session.attribute Specifies the list of session property names, such as UserToken which hold privileged attributes for authenticated users.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Privileged Session Attribute.

com.sun.identity.agents.config.profile.attribute.fetch.mode When set to HTTP\_COOKIE or HTTP\_HEADER, profile attributes are introduced into the cookie or the headers, respectively.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Profile Attribute Fetch Mode.

com.sun.identity.agents.config.profile.attribute.mapping
Maps the profile attributes to HTTP headers for the currently authenticated
user. Map Keys are LDAP attribute names, and Map Values are HTTP header
names.

To populate the value of profile attribute CN under CUSTOM-Common-Name: enter CN in the Map Key field, and enter CUSTOM-Common-Name in the Corresponding Map Value field. This corresponds to com.sun.identity.agents.config.profile.attribute.mapping[cn]=CUSTOM-Common-Name.

In most cases, in a destination application where an HTTP header name shows up as a request header, it is prefixed by HTTP\_, lower case letters become upper case, and hyphens (-) become underscores (\_). For example, common-name becomes HTTP\_COMMON\_NAME.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Profile Attribute Mapping.

com.sun.identity.agents.config.redirect.attempt.limit
When set to a value other than zero, this defines the maximum number of
redirects allowed for a single browser session, after which the agent blocks
the request.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Global > Redirect Attempt Limit.

com.sun.identity.agents.config.redirect.param
Property used only when CDSSO is enabled. Only change the default value,
goto when the login URL has a landing page specified such as, com.sun.
identity.agents.config.cdsso.cdcservlet.url = http://openam.example.
com:8080/openam/cdcservlet?goto= http://www.example.com/landing.jsp.
The agent uses this parameter to append the original request URL to this
cdcservlet URL. The landing page consumes this parameter to redirect to the
original URL.

As an example, if you set this value to goto2, then the complete URL sent for authentication is http://openam.example.com:8080/openam/cdcservlet?goto=http://www.example.com/landing.jsp?goto2=http://www.example.com/original.jsp.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Miscellaneous > Goto Parameter Name.

com.sun.identity.agents.config.remote.logfile
 Name of file stored on OpenAM server that contains agent audit messages if
 log location is remote or all.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Global > Remote Log Filename.

com.sun.identity.agents.config.repository.location Whether the agent's configuration is managed centrally through OpenAM (centralized) or locally in the policy agent configuration file (local).

Default: centralized

com.sun.identity.agents.config.response.attribute.fetch.mode When set to HTTP\_COOKIE or HTTP\_HEADER, response attributes are introduced into the cookie or the headers, respectively. When set to REQUEST\_ATTRIBUTE, response attributes are part of the HTTP response.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Response Attribute Fetch Mode.

com.sun.identity.agents.config.response.attribute.mapping
Maps the policy response attributes to HTTP headers for the currently
authenticated user. The response attribute is the attribute in the policy
response to be fetched.

To populate the value of response attribute uid under CUSTOM-User-Name: enter uid in the Map Key field, and enter CUSTOM-User-Name in the Corresponding Map Value field. This corresponds to com.sun.identity.agents.config.response.attribute.mapping[uid]=Custom-User-Name.

In most cases, in a destination application where an HTTP header name shows up as a request header, it is prefixed by HTTP\_, lower case letters become upper case, and hyphens (-) become underscores (\_). For example, response-attr-one becomes HTTP\_RESPONSE\_ATTR\_ONE.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Response Attribute Map.

com.sun.identity.agents.config.response.header

Specifies the custom headers the agent sets for the client. The key is the header name. The value is the header value.

For example, com.sun.identity.agents.config.response.header[Cache-Control]=no-cache.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Global > Custom Response Header.

com.sun.identity.agents.config.session.attribute.fetch.mode
When set to HTTP\_COOKIE or HTTP\_HEADER, session attributes are introduced
into the cookie or the headers, respectively. When set to REQUEST\_ATTRIBUTE,
session attributes are part of the HTTP response.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Session Attribute Fetch Mode.

com.sun.identity.agents.config.session.attribute.mapping
Maps session attributes to HTTP headers for the currently authenticated
user. The session attribute is the attribute in the session to be fetched.

To populate the value of session attribute UserToken under CUSTOM-userid: enter UserToken in the Map Key field, and enter CUSTOM-userid in the Corresponding Map Value field. This corresponds to com.sun.identity.agents.config.session.attribute.mapping[UserToken]=CUSTOM-userid.

In most cases, in a destination application where an HTTP header name shows up as a request header, it is prefixed by HTTP\_, lower case letters become upper case, and hyphens (-) become underscores (\_). For example, success-url becomes HTTP\_SUCCESS\_URL.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Session Attribute Map.

com.sun.identity.agents.config.user.attribute.name
Specifies the data store attribute that contains the user ID.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Global > User Attribute Name.

com.sun.identity.agents.config.user.mapping.mode Specifies the mechanism used to determine the user ID.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Global > User Mapping Mode.

com.sun.identity.agents.config.user.principal

When enabled, OpenAM uses both the principal user name and also the user ID for authentication.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Global > User Principal Flag.

com.sun.identity.agents.config.user.token

Specifies the session property name for the authenticated user's ID. Default: UserToken.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Global > User Token Name.

com.sun.identity.agents.config.verification.handler

Specifies custom verification classes to validate user credentials with the local user repository. The key is the web application name and the value is the validation handler class name.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Application > Custom Verification Handler.

com.sun.identity.agents.config.webservice.authenticator Specifies an implementation class of interface com.sun.identity.agents. filter.IWebServiceAuthenticator that can be used to authenticate webservice requests.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Advanced > Web Service Authenticator.

com.sun.identity.agents.config.webservice.autherror.content Specifies a file the agent uses to generate an authorization error fault for the client application.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Advanced > Web Service Authorization Error Content File.

com.sun.identity.agents.config.webservice.enable Enable web service processing.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Advanced > Web Service Enable.

com.sun.identity.agents.config.webservice.endpoint Specifies a list of web application end points that represent web services.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Advanced > Web Service End Points.

com.sun.identity.agents.config.webservice.internalerror.content Specifies a file the agent uses to generate an internal error fault for the client application.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Advanced > Web Service Internal Error Content File.

com.sun.identity.agents.config.webservice.process.get.enable
 When enabled, the agent processes HTTP GET requests for web service
 endpoints.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Advanced > Web Service Process GET Enable.

com.sun.identity.agents.config.webservice.responseprocessor
 Specifies a class implementing com.sun.identity.agents.filter.
 IWebServiceResponseProcessor, used to process web service responses.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Advanced > Web Service Response Processor.

com.sun.identity.agents.config.xss.code.elements Specifies strings that, when found in the request, cause the agent to redirect the client to an error page.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Advanced > Cross Site Scripting Detection.

com.sun.identity.agents.config.xss.redirect.uri
Maps applications to URIs of customized pages to which to redirect clients
upon detection of XSS code elements.

For example, to redirect clients of MyApp to /myapp/error.html, use MyApp as the key and /myapp/error.html as the corresponding value.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Advanced > Cross Site Scripting Detection.

com.sun.identity.agents.notification.enabled When enabled, OpenAM sends notification about changes to policy.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > OpenAM Services > Enable Policy Notifications.

com.sun.identity.agents.polling.interval

Specifies the time in minutes after which the policy cache is refreshed. Default: 3

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > OpenAM Services > Policy Client Polling Interval.

com.sun.identity.client.notification.url
URL used by agent to register notification listeners.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > Global > Agent Notification URL.

com.sun.identity.idm.remote.notification.enabled When enabled, receive notification from OpenAM to update user management data caches.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > OpenAM Services > Enable Notification of User Data Caches.

com.sun.identity.policy.client.booleanActionValues
Specifies the values, such as allow and deny, that are associated with boolean policy decisions.

Default: iPlanetAMWebAgentService|GET|allow|deny:iPlanetAMWebAgentService|POST|allow|deny

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > OpenAM Services > Policy Client Boolean Action Values.

com.sun.identity.policy.client.cacheMode

Set to cache mode subtree when only a small number of policy rules are defined. For large numbers of policy rules, set to self.

Default: self

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > OpenAM Services > Policy Client Cache Mode.

com.sun.identity.policy.client.clockSkew

Time in seconds used adjust time difference between agent system and OpenAM. Clock skew in seconds = AgentTime - OpenAMServerTime.

Default: 10.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > OpenAM Services > Policy Client Clock Skew.

com.sun.identity.policy.client.resourceComparators
 Specifies the comparators used for service names in policy.

Default: serviceType=iPlanetAMWebAgentService| class=com.sun. identity.policy.plugins.HttpURLResourceName|wildcard=\*| delimiter=/| caseSensitive=false

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > OpenAM Services > Policy Client Resource Comparators.

#### com.sun.identity.sm.cacheTime

If notifications are not enabled and set to a value other than zero, specifies the time in minutes after which the agent polls to update cached service configuration data. Default: 1

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > OpenAM Services > Service Data Cache Time.

com.sun.identity.sm.notification.enabled

When enabled, receive notification from OpenAM to update service configuration data caches.

For centralized configurations this property is configured under Access Control > Realm Name > Agents > J2EE > Agent Name > OpenAM Services > Enable Notification of Service Data Caches.