

OpenAM 11.0.1 Release Notes

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Abstract

Notes covering OpenAM prerequisites, fixes, known issues. OpenAM provides open source Authentication, Authorization, Entitlement and Federation software.



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Chapter 1. What's New in OpenAM 11.0.1

Important

OpenAM 11.0.1 is a maintenance release that resolves a number of issues, including security issues in OpenAM. It is strongly recommended that you update to this release to make your deployment more secure, and to take advantage of important functional fixes. ForgeRock customers can contact support for help and further information.

Before you install OpenAM or update your existing OpenAM installation, read these release notes. Then update or install OpenAM.

- If you have already installed OpenAM, see [To Update OpenAM From 11.0.0](#).

Do *not* perform an upgrade by deploying the new version and then importing an existing configuration by running the **ssoadm import-svc-config** command. Importing an outdated configuration can result in a corrupted installation.

- If you are installing OpenAM for the first time, see [To Install OpenAM](#).

1.1. Product Enhancements

In addition to fixes, this release includes the following limited product enhancements.

- OpenAM REST API now allows logout with a restricted token ([OPENAM-3484](#)).
- Restricted token asString values now use a hash in order to limit their size ([OPENAM-3414](#)).
- The SAML 2.0 IDP Adapter interface now includes a preSignResponse method ([OPENAM-3190](#)).

This method makes it possible to adjust the content of a SAML response in order to add a custom SAML extension for example. The method is called after the SAML Response object is created but before the SAML Response is signed or encrypted.

- The default SAML 2.0 IDP attribute mapper implementation now provides a way to Base64 encode binary attributes ([OPENAM-2767](#)).

In order to have the default IDP attribute mapper Base64 encode binary attributes when adding them to the SAML attributes, use the `;binary` postfix for the attribute name, as in the following example:

```
objectGUID=objectGUID;binary
```

This maps the local binary attribute `objectGUID` to a SAML attribute called `objectGUID` that is Base64 encoded.

The default IDP attribute mapper also supports NameFormat URI format as shown in the following example:

```
urn:oasis:names:tc:SAML:2.0:attrname-format:uri|objectGUID=objectGUID;binary
```

- The `AttributeQueryUtil.getAttributeMapForFedlet` method now handles failure status codes received from the IDP ([OPENAM-1749](#)).
- **New goto/gotoOnFail URL Validation Service.** OpenAM now provides a new "Validation Service" for URL whitelisting. OpenAM uses the Validation Service during the authentication process on the server and DAS-side for `goto` and `gotoOnFail` URLs, and during the SAML authentication process on the server and fedlet-side for Relay State URLs.

You can set the `goto/gotoOnFail` URL lists on the OpenAM console via Access Control > *realm* > Services > Validation Service. The new property for the Validation Service is `openam-auth-valid-goto-resources`.

The Validation Service also uses a new delegation policy that grants the necessary permissions to the agent accounts, which allows them to access the valid `goto` URL domain lists.

For developers, the `goto` URL validation logic has been extracted out to a separate class called `RedirectUrlValidator`, which can be used from both `openam-core` (that is, OpenAM) and `openam-federation-library` (that is, fedlets).

This feature is not supported as a patch and is only available by means of a new installation or an upgrade. The upgrade wizard ensures the migration of existing valid `goto` and `gotoOnFail` domains to the new service and ensures that the new delegation policy is added to the system. ([OPENAM-1773](#)).

Note

You must check that the goto and gotoOnFail redirects are still working after an upgrade if your goto and gotoOnFail URL lists are not fully formed.

1.2. OpenAM Documentation

You can read the following additional [product documentation for OpenAM 11.0.0](http://docs.forgerock.org/) online at <http://docs.forgerock.org/>.

- [OpenAM 11.0.0 Release Notes](#)
- [OpenAM 11.0.0 Installation Guide](#)
- [OpenAM 11.0.0 Upgrade Guide](#)
- [OpenAM 11.0.0 Administration Guide](#)
- [OpenAM 11.0.0 Developer's Guide](#)
- [OpenAM 11.0.0 Reference](#)
- [OpenAM 11.0.0 Javadoc](#)

Chapter 2. Before You Install OpenAM 11.0.1 Software

This chapter covers software and hardware prerequisites for installing and running OpenAM software.

Note

The content of this chapter has not changed since OpenAM 11.0.0.

2.1. Java Requirements

This release of OpenAM requires Java Development Kit 6 or Java Development Kit 7. ForgeRock recommends the most recent update of Java 6 or 7 to ensure you have the latest security fixes.

ForgeRock has tested this release of OpenAM primarily with Oracle Java SE JDK, and also tested OpenAM on WebSphere with IBM JDK.

OpenAM Java SDK requires Java Development Kit 6 or 7.

2.2. Web Application Container Requirements

This release of OpenAM runs in the following web application containers.

- Apache Tomcat 6, 7 (ForgeRock's preferred web container for OpenAM)
- GlassFish v2, v3
- IBM WebSphere 8.0, 8.5
- JBoss Enterprise Application Platform 5, 6
JBoss Application Server 7
- Jetty 7 (7.6.13 or later)
Jetty 8 (8.1.13 or later)
- Oracle WebLogic Server 11g (10.3.5)
Oracle WebLogic Server 12c (12.1.1)

If running as a non-root user, the web application container must be able to write to its own home directory, where OpenAM stores configuration files.

2.3. Data Store Requirements

This release of OpenAM works with the following CTS data stores.

- Embedded (using ForgeRock OpenDJ for the data store)
- External ForgeRock OpenDJ data store

The CTS is supported on OpenDJ versions 2.6.0 and later.

This release of OpenAM works with the following configuration data stores.

- Embedded (using ForgeRock OpenDJ for the data store)

When using the embedded configuration store for CTS or configuration, you must deploy OpenAM on a local file system and not on an NFS-mounted file system.

- External ForgeRock OpenDJ data store

ForgeRock recommends updating to the latest stable release.

- External Oracle Unified Directory 11g or later
- External Oracle Directory Server Enterprise Edition data store, version 6.3 or later

This release of OpenAM works with the following user profile data stores.

- ForgeRock OpenDJ
- Microsoft Active Directory (tested by ForgeRock on Windows Server 2008 R2 and 2012)
- IBM Tivoli Directory Server 6.3
- OpenDS, version 2 or later
- Oracle Directory Server Enterprise Edition, version 6.3 or later

OpenAM also works with other LDAPv3 compliant directory servers. Some features of OpenAM depend on features supported by your directory service, such as the following:

- Extensible LDAP schema, required to extend the schema for OpenAM. First, install OpenAM to use a fresh instance of OpenDJ, such as the embedded OpenDJ server. After installation, study the custom schema definitions from the OpenDJ file, `config/schema/99-user.ldif`, to see what schema definitions you must add to your directory. You might need to adapt the schema definition format before adding the definitions to your directory.
- The persistent search request control (OID: 2.16.840.1.113730.3.4.3).
- The Behera Internet-Draft [Password Policy for LDAP Directories](#) (in the context of the LDAP authentication module only)

If you plan to deploy with OpenLDAP or other LDAPv3 directory for user data, make sure you test your solution before you deploy to ensure all OpenAM features that you use work as expected.

2.4. Browsers Tested

ForgeRock has tested many browsers with OpenAM console and end user pages, including the following browsers.

- Chrome and Chromium 16 and later
- Firefox 3.6 and later
- Internet Explorer 7 and later
- Safari 5 and later

2.5. Platform Requirements

ForgeRock has tested this release of OpenAM on the following platforms.

- Linux 2.6, 3.0
- Microsoft Windows Server 2008 R2, 2012
- Oracle Solaris 10, 11

2.6. Hardware Requirements

You can deploy OpenAM on any hardware supported for the combination of software required. Deploying OpenAM requires a minimum of 1 GB free RAM over and above the RAM used by all other software on the system.

Minimum requirements are enough to start and to evaluate OpenAM. Recommended hardware resources depend on your specific deployment requirements. For more information, see the *Administration Guide* chapter on *Tuning OpenAM*.

ForgeRock has tested this release of OpenAM primarily on x86 and x64 based systems.

2.7. Special Requests

If you have a special request regarding support for a component or combination not listed here, contact ForgeRock at info@forgerock.com.

Chapter 3. Updating & Installing OpenAM

ForgeRock recommends that you update OpenAM 11.0.0 installations to this release. If you are installing OpenAM for the first time, you can use the same installation instructions as for 11.0.0.

Procedure 3.1. To Update From OpenAM 11.0.0

If you have already installed OpenAM, follow these steps.

1. Back up the deployment.

For details, see the section, *Back Up the Deployment*, in the *OpenAM 11.0.0 Upgrade Guide*.

2. Download and unzip OpenAM 11.0.1.

Find a link to the OpenAM download page from <http://forgerock.com/download-stack/>.

3. If you have made any customizations, apply them to the 11.0.1 .war file.
4. Redeploy the .war file to your web container, using the web container administration console or deployment command.
5. Start OpenAM, and run the upgrade process for the server.
6. If you have deployed other components, such as the Distributed Authentication UI (DAS), Core Server only (no console), or the **ssoadm** command, also update those components.

Procedure 3.2. To Install OpenAM

If you have not yet installed OpenAM, install this release instead of OpenAM 11.0.0.

1. Download and unzip OpenAM 11.0.1.

Find a link to the OpenAM download page from <http://forgerock.com/download-stack/>.

2. Follow the instructions in the *OpenAM 11.0.0 Installation Guide*.

Chapter 4. OpenAM Changes and Deprecated Functionality

This chapter covers both major changes to existing functionality, and also deprecated and removed functionality.

4.1. Important Changes to Existing Functionality

These changes are new in OpenAM 11.0.1.

- Consistency has been improved in how OpenAM policy rules match resources. Policy rules are now interpreted more consistently in line with the documentation, and more consistently across platforms and across self and subtree modes. Before you upgrade, consider how these changes affect policy rules.

Although the changes introduced by the improvements affect mainly edge cases, they do impact deployments relying on previous, inconsistent behaviors. The following points describe how OpenAM and policy agents behave following upgrade to OpenAM 11.0.1 and web policy agents 3.3.1.

- Policy agents configured to use subtree mode behave as they did prior to 3.3.0.
- If you created your policies with OpenAM 11.0.0 and web policy agents 3.3.0, then note that trailing slashes are no longer stripped from resource names ([OPENAM-3509](#)).

In order to match a trailing slash, your rule must end in a slash, or a slash followed by a wildcard.

- When policy agents are configured to use self mode, trailing wildcards, except after `?`, match zero or more characters.
- When policy agents are configured to use self mode, previously a trailing wildcard after a slash, `/``*`, matched one or more characters, whereas it now matches zero or more. This means that a resource ending in `/` previously would not match a rule ending in `/``*`, whereas it now does.

If you already have two rules to allow access, one ending in `/` and the other in `/``*`, then you have nothing to do. Only the latter rule is now required.

If however you have only rules ending in /* and intend these to deny access to resources ending in /, then add rules ending in / specifically to deny access to resources ending in /.

- When web policy agents are configured to use self mode, trailing wildcards after ? match *one* or more characters. This means that a resource with a trailing ? no longer matches a rule of the form /*?*, whereas it would have matched with earlier versions.

To match the behavior of previous releases, when using self mode with resources having empty query strings, add additional rules without trailing wildcards as in /*? before you upgrade OpenAM.

- OpenAM now handles SAML single logout (SLO) requests differently when the user presents an invalid session ([OPENAM-3437](#)).

In this scenario OpenAM no longer follows the RelayState without validation. To ensure that the RelayState validation succeeds, include the metaAlias request parameter when invoking the SLO JSPs.

- For LDAP and Active Directory data store configurations the settings for the Authentication Naming Attribute (sun-idrepo-ldapv3-config-auth-naming-attr) and the LDAP Users Search Attribute (sun-idrepo-ldapv3-config-users-search-attribute) now have the same effects as they did in versions prior to 11.0.0 ([OPENAM-3428](#)).

The Authentication Naming Attribute is now used only to find the user when performing authentication. The LDAP Users Search Attribute is used in other cases when searching for users. When upgrading from OpenAM 11.0.0, make sure these attributes are correctly set in data store configurations.

- The fix for [OPENAM-2327](#) adds a new PrintWriter argument to the postSingleSignOnSuccess method of the [SAML2ServiceProviderAdapter](#) class. If you use a custom Service Provider adapter, then you must update its implementation.

The new PrintWriter argument takes the PrintWriter for presenting output. It fits between the HttpServletResponse response argument and the Object session argument.

- **Updated weblogic.xml for WebLogic.** When running OpenAM on WebLogic 11g, you may hit a classpath issue as WebLogic uses its own classes if a class exists in both the parent and child classloaders by default.

To use OpenAM and its classes on WebLogic 11g, create a WebLogic deployment descriptor file, WEB-INF/weblogic.xml in the .war before deployment. The descriptor file maps resources defined for OpenAM in WebLogic deployments.

An example weblogic.xml file is presented below.

```
<?xml version="1.0" encoding="UTF-8"?>
<weblogic-web-app xmlns="http://xmlns.oracle.com/weblogic/weblogic-web-app"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://xmlns.oracle.com/weblogic/weblogic-web-app
    http://xmlns.oracle.com/weblogic/weblogic-web-app/1.3/weblogic-web-app.xsd">
  <context-root>/openam</context-root>
  <container-descriptor>
    <prefer-application-packages>

      <!-- Use bundled Jersey library -->
      <package-name>com.sun.jersey.*</package-name>
      <package-name>com.sun.research.ws.wadl.*</package-name>
      <package-name>com.sun.ws.rs.ext.*</package-name>

      <!-- Rhino -->
      <package-name>org.mozilla.javascript.*</package-name>

      <package-name>org.apache.commons.lang.*</package-name>
    </prefer-application-packages>
  </container-descriptor>
</weblogic-web-app>
```

For more information see, [OPENAM-3333](#).

The following changes were listed for OpenAM 11.0.0.

- The advanced server property used to set the HTTP header name, `com.sun.identity.authentication.client.ipAddressHeader`, has replaced the legacy OpenSSO property `com.sun.identity.session.httpClientIPHeader` ([OPENAM-1879](#)).
- Legacy naming conventions have been changed to conform to the current product name, OpenAM.

`$HOME/.openamcfg/` is the new name for `$HOME/.openssocfg/`. If you upgrade, OpenAM still supports use of `$HOME/.openssocfg/`, and does not rename the folder. For new OpenAM installs, OpenAM creates the directory with the new name, `$HOME/.openamcfg/`, at configuration time.

Other files, such as the `openam.war` file, and paths have been modified to ensure consistency with the naming conventions.

- OpenAM now ships with multiple .war files. You no longer have to build custom .war files for core server-only or distributed authentication UI installations for example.

- In versions before OpenAM 10.1.0 the default root suffix DN for OpenAM configuration and profile data was `dc=opensso,dc=java,dc=net`. The default root suffix is now `dc=openam,dc=forgerock,dc=org`.
- The fix for [OPENAM-1630](#) changes SAML metadata signing in OpenAM to better conform with the SAML 2.0 standard.
 - Metadata for hosted entities is signed using the `metadataSigningKey` configured for the realm, or inherited from the global configuration for the server.
 - OpenAM now signs the `EntityDescriptor` element that contains child `SPSSODescriptor` or `IDPSSODescriptor` elements.
 - When importing remote entity metadata with signatures, OpenAM does not modify the signatures, but instead returns them as they were when they were imported.
 - When OpenAM imports remote entity metadata that has no signature and signed metadata is requested on export, OpenAM signs the metadata with the `metadataSigningKey`.
- The default policy evaluation mode for new policy agent profiles is now `self` rather than `subtree`, in order to better scale for large numbers of policy rules.

Upgrade does not change existing policy agent profile configurations, however. If you want to adopt the new default setting for existing policy agents, you must change the setting manually.

To do so for Java EE policy agents, set `com.sun.identity.policy.client.-cacheMode=self`.

For web policy agents, set `com.sun.identity.agents.config.fetch.from.-root.resource=false`.

- You now specify rules for referrals in the same way as rules for policies.

For example, with previous releases a referral rule for `http://example.-com/` matched everything underneath. Now you would need three rules, `http://example.com/`, `http://example.com/*`, and `http://example.com/*?*`. When used at the end of a rule `*` matches one or more characters, rather than zero or more characters.

When you upgrade OpenAM, the upgrade tool converts existing referral rules.

4.2. Deprecated Functionality

The following functionality is deprecated in OpenAM 11.0.0, and is likely to be removed in a future release.

- With the implementation of OAuth 2.0 in this release, OAuth 1.0 has been deprecated. OAuth 1.0 support was originally provided in OpenAM 9.
- The Netscape LDAP API is to be removed from OpenAM, with OpenAM using the OpenDJ LDAP SDK instead. This affects all classes in `com.sun.identity.shared.ldap.*` packages.
- OpenAM currently uses Sun Java System Application Framework (JATO). JATO is deprecated and is likely to be replaced in a future release.
- With the implementation of the Persistent Cookie authentication module, the Core Authentication module persistent cookie options are deprecated and are likely to be removed in a future release.
- Older REST services relying on the following end points are deprecated.

<code>/identity/attributes</code>	<code>/identity/logout</code>
<code>/identity/authenticate</code>	<code>/identity/read</code>
<code>/identity/create</code>	<code>/identity/search</code>
<code>/identity/delete</code>	<code>/identity/update</code>

The following table shows how legacy and newer end points correspond.

Table 4.1. REST End Points

Deprecated URIs	Newer Evolving URIs
<code>/identity/attributes</code>	<code>/json/users</code>
<code>/identity/authenticate</code>	<code>/json/authenticate</code>
<code>/identity/create, /identity/delete, /identity/read, /identity/search, /identity/update</code>	<code>/json/agents, /json/groups, /json/realms, /json/users</code>
<code>/identity/logout</code>	<code>/json/sessions/?_action=logout</code>
N/A	<code>/json/dashboard</code>
N/A	<code>/json/serverinfo</code>

Find examples in the *Developer Guide* chapter on *Using RESTful Web Services* OpenAM.

Support for the older REST services is likely to be removed in a future release in favor of the newer REST services. Older REST services will be removed only after replacement REST services are introduced.

4.3. Removed Functionality

- OpenAM Java SDK no longer supports JDK 5.
- The `iplanet-am-auth-ldap-server-check` property for LDAP and Active Directory authentication modules has been removed and replaced with a heartbeat mechanism configurable through the LDAP Connection Heartbeat Interval (`openam-auth-ldap-heartbeat-interval`) and LDAP Connection Heartbeat Time Unit (`openam-auth-ldap-heartbeat-interval`) properties for the modules.

Set these new properties as necessary when you have firewalls or load balancers that drop connections that remain idle for too long.

- The advanced server property, `openam.session.destroy_all_sessions`, has been replaced by the built-in Global Session Service setting, `DESTROY_OLD_SESSIONS`.
- Javadoc for the client SDK is no longer delivered with the distribution, but instead is available online.

Chapter 5. OpenAM Fixes, Limitations, & Known Issues

Important

OpenAM 11.0.1 together with OpenAM web policy agents 3.3.1 address backward compatibility for policy evaluation. For details, make sure that you read the release notes section on *Important Changes to Existing Functionality*.

OpenAM issues are tracked at <https://bugster.forgerock.org/jira/browse/-/OPENAM>. This chapter covers the status of key issues and limitations in this release.

5.1. Key Fixes

The following bugs were fixed in release 11.0.1. For details, see the [OpenAM issue tracker](#).

- [OPENAM-3742](#): Large amount of invalid search requests made against IdRepo
- [OPENAM-3740](#): HttpOnly and Secure cookie flags not always honored in multiserver deployments
- [OPENAM-3707](#): Error while retrieving NameIDKeyMap
- [OPENAM-3678](#): OAuth2 restlet extension doesn't populate name and description on the OAuth2 consent page
- [OPENAM-3666](#): In-memory account lockout does not work when using Data Store authentication module
- [OPENAM-3648](#): SAML 1.x authenticationMethod should escape "|" characters
- [OPENAM-3639](#): WS-Fed IP sends incorrectly encoded unicode characters
- [OPENAM-3638](#): Policy rule with trailing wildcard denies access to a valid resource URL
- [OPENAM-3632](#): Adaptive module does not honor httpOnly Secure cookie settings

- [OPENAM-3623](#): LDAP auth-module connection pool does not correctly recover
- [OPENAM-3607](#): Adaptive IP check fails when message level debug enabled
- [OPENAM-3573](#): IDP Initiated federation with missing SPNameQualifier result in exception
- [OPENAM-3572](#): MailServerImpl not properly handling mailservers without authentication
- [OPENAM-3561](#): Special characters are incorrectly handled when using LDAP auth module
- [OPENAM-3542](#): Possible NPE when sending SAML request without isPassive attribute
- [OPENAM-3531](#): new_org.jsp doesn't work when SAML request was sent using HTTP-POST binding
- [OPENAM-3522](#): Special LDAP characters in the data store's naming attribute are not escaped
- [OPENAM-3520](#): OAuth2 read/delete throws NPE if SSOToken doesn't belong to the same realm as token's realm
- [OPENAM-3509](#): PolicyEvaluation strips off trailing '/' from resource resulting in wrong enforcement on agent side
- [OPENAM-3506](#): OAuth2 grant_type=client_credentials read/delete fail with NPE
- [OPENAM-3499](#): LoginServlet is NOT enforcing strict session timeouts on DAS
- [OPENAM-3482](#): ForgotPassword REST API should escape username used in confirmationLink
- [OPENAM-3465](#): Parsing output of Embedded OpenDJ dsconfig list-replication-server command fails due to change since v2.6.0
- [OPENAM-3458](#): SAML federation can fail in multiserver deployments
- [OPENAM-3444](#): Incorrect NameIdentifier generated when using both default and non-default NameIDFormat with SAML 1.x
- [OPENAM-3437](#): RelayState validation fails during SLO
- [OPENAM-3428](#): DJLDAPv3Repo breaks Active Directory when using sAMAccountName as naming attribute with the DN being the CN

- [OPENAM-3413](#): Update federation attribute mapping documentation with details of new binary attribute mapping feature
- [OPENAM-3408](#): Fix for OPENAM-2626 leads to concurrent modification exception
- [OPENAM-3401](#): The token generated by the forgotPassword REST API should be a one time password
- [OPENAM-3385](#): DJLDAPv3Repo Error Unexpected Results Returned when searching Active Directory users from the root
- [OPENAM-3353](#): LDAP auth does not set operation timeout; OpenAM freeze
- [OPENAM-3269](#): create-agent-grp or adding groupconfig in OpenAM console fails with NPE for subrealms
- [OPENAM-3259](#): StackOverflowError when invalid pcookie is presented
- [OPENAM-3252](#): LoginServlet reroute logic should consider AMAuthCookie as request parameter
- [OPENAM-3237](#): Updating a user entry with an empty attribute fails if the attribute didn't exist in the entry before
- [OPENAM-3230](#): When I make Upgrade from AM 955 to AM 11 upgrade report show me incorrect version of an existing instance
- [OPENAM-3227](#): OAuth2 Authentication Module does not utilise com.sun.identity.shared.encode.CookieUtils when creating new cookies.
- [OPENAM-3226](#): Creating a realm may cause duplicate delegation privilege entries to be written to datastore if multiple servers are running
- [OPENAM-3225](#): SAML authentication throws NPE with IDP metadata showing certain characteristics
- [OPENAM-3210](#): In CDSSO scenario no Logout is triggered when choosing 'yes' on 'new_org.jsp'
- [OPENAM-3204](#): Goto URL validation can choke on relative URLs
- [OPENAM-3202](#): RelayState is validated as a URL
- [OPENAM-3190](#): IdP Adapter should have an extension point that can manipulate the SAML response
- [OPENAM-3189](#): IdP Proxy should invoke SP Adapter when sending the proxied SAML request

- [OPENAM-3165](#): NPE during export-svc-cfg
- [OPENAM-3160](#): AuthContext failover doesn't work
- [OPENAM-3156](#): web.xml should not have <istributable/>
- [OPENAM-3113](#): DJLDAPv3Repo should properly set the LDAP error codes on IdRepoException
- [OPENAM-2922](#): SP initiated SLO can fail with IllegalStateException
- [OPENAM-2760](#): Validation of gotoOnFail URLs
- [OPENAM-2327](#): OpenAM JSP violate JSP 2.0 spec
- [OPENAM-2322](#): NULL pointer exception in windowsdesktopsso.java file when doing kerberos service ticket authenticaiton with Openssclientsdk.jar client program - backward compatibility broken
- [OPENAM-2294](#): Errors during federation can result in displaying Redirect.jsp
- [OPENAM-2273](#): Help text on console for auto federation is misleading
- [OPENAM-2145](#): Possible memory leaks around remote Session objects
- [OPENAM-1957](#): NPE ERROR: Error creating logFailed message
- [OPENAM-1739](#): HOTP module may ignore SMTP settings in the configuration
- [OPENAM-1109](#): AdminTokenAction doesn't clear invalid SSOToken
- [OPENAM-1012](#): IDP initiated SAML2 SLO error when SP does not have SLO binding
- [OPENAM-688](#): REOPEN -LDAP Error 80 can result in build up of LDAPv3EventService::RetryTask objects
- [OPENAM-119](#): Concurrent access of non-thread safe objects possible in IdRepoJAXRPCObjectImpl

5.2. Limitations

When session failover is configured to use external OpenDJ directory servers, OpenAM must access those directory servers through an LDAP load balancer that can fail over connections from OpenAM whenever a directory server goes offline. Otherwise, sessions could continue to persist after users logout of OpenAM.

Do not run different versions of OpenAM together in the same OpenAM site.

When deploying OpenAM components on Microsoft Windows in an IPv6 environment, you must use the Java 7 Development Kit on Windows (due to [JDK-6230761](#), which is fixed only in Java 7).

The Database Repository type of data store is experimental and not supported for production use.

By default OpenAM does not enforce session quotas when running in Site mode without session failover. To work around this behavior, set the server configuration property `openam.session.-useLocalSessionsInMultiServerMode=true`. You can set this property in OpenAM console under Configuration > Servers and Sites > Servers > Server Name > Advanced.

The XUI is experimental and not supported for production use. The only language locale available for the XUI at this time is US English, in the `/path/to/openam/webapps/XUI/locales` directory.

On hosts with pure IPv6 networks, OpenAM configuration has been seen to fail while starting the embedded OpenDJ directory server ([OPENAM-3008](#)).

5.3. Known Issues

The following important known issues remained open at the time release 11.0.1 became available. For details and information on other issues, see the [OpenAM issue tracker](#).

- [OPENAM-3864](#): Policy evaluation results differs between clean and upgraded OpenAM instances
- [OPENAM-3841](#): Export metadata produces XML Parsing Error after upgrade to AM11.0.1
- [OPENAM-3827](#): json/session endpoint not listing sessions
- [OPENAM-3811](#): Possible CME while serializing InternalSessions
- [OPENAM-3809](#): The final SLO response should be sent using appropriate binding
- [OPENAM-3790](#): Spurious authentication cookie can prevent logout to work
- [OPENAM-3739](#): configurator tool fails when AuthClientUtil is initialized before the tool

- [OPENAM-3660](#): RedirectCallbackHandler uses `HttpServletRequest.getRequestURL` to construct `AM_REDIRECT_BACK_SERVER_URL`
- [OPENAM-3659](#): OAuth2 auth module uses `HttpServletRequest.getRequestURL()` to construct `ORIG_URL` cookie
- [OPENAM-3651](#): LoA based SAML2IDPFinder fails with NPE if the `AuthnRequest` did not contain `RequestedAuthnContext`
- [OPENAM-3646](#): REST endpoint `frrest/oauth2/token` reports `tokenName` `access_token` when given a `refresh_token`
- [OPENAM-3633](#): `SystemConfigurationUtil` returning wrong information while config is reloaded in rare condition
- [OPENAM-3466](#): LDAP authentication module does not apply the change of the password for the bind DN user until restart
- [OPENAM-3447](#): CTS update fails due to attribute conflict
- [OPENAM-3333](#): WebLogic 11(10.3.6.0) doesn't create an OAuth2 token
- [OPENAM-3270](#): `openam/.version` not updated after upgrade
- [OPENAM-3243](#): The Core Auth Module persistent cookie options are different from the Persistent Cookie Module
- [OPENAM-3239](#): OAuth 2 client properties randomly disappears after upgrade from OpenAM 10.1 to OpenAM 11
- [OPENAM-3223](#): Policy Wildcard Matches doesn't work after OpenAM upgrade with an ODSEE
- [OPENAM-3216](#): CTS Token timeout incorrect after changing token idle time
- [OPENAM-3207](#): `PLLRequestServlet` should log an error if the configured maximum request size is exceeded
- [OPENAM-3205](#): Missing labels in OAuth2 "Register a Client" page
- [OPENAM-3184](#): Insufficient error logging when 'agent profile' can not be found by `CDCServlet`
- [OPENAM-3112](#): REST authenticate resource should cope with charset provided with `Content-Type` header
- [OPENAM-3109](#): Token conflicts can occur if OpenDJ servers are replicated

- [OPENAM-3105](#): `CachedSubEntries.getSubEntries()` shouldn't sort `LDAPSearchResults`
- [OPENAM-3065](#): Misconfiguring CTS causes issues with IDRepo unable to read realms
- [OPENAM-3056](#): Retrieving roles may fail when using more than one data store
- [OPENAM-3048](#): RESTful authentication using curl doesn't work on the WebLogic 12c (12.1.1.0)
- [OPENAM-2948](#): RESTful read performance: `identityExists()` is called twice before searching user entry
- [OPENAM-2874](#): The OAuth2 client registration endpoint does not set `idTokenSignedResponseAlg` to its default
- [OPENAM-2846](#): The REST auth API should provide a way to set the client IP address in a secure way
- [OPENAM-2715](#): Mandatory OAuth2 Provider settings not enforced in the UI
- [OPENAM-2712](#): `Adaptive.getIdentity` prints 'More than one user found' when no user was found
- [OPENAM-2656](#): `PrefixResourceName#compare()` strips off trailing '/' in `PathInfo`
- [OPENAM-2608](#): Restricted Token validation does not work in legacy REST API
- [OPENAM-2564](#): resource-based authentication with `DistAuth` not working
- [OPENAM-2537](#): SAML `AuthContext` mapper auth level setting inconsistencies
- [OPENAM-2469](#): IdP initiated SSO endpoints should honor `RelayState` even when they're POSTed
- [OPENAM-2460](#): Policy evaluation may hang with large number of matching referral privileges
- [OPENAM-2453](#): HTTP GET `/ws/1/entitlement/privilege?` HTTP 400 with message "Unable to search privileges."
- [OPENAM-2404](#): `new_org.jsp` is displayed from the original realm in case of session upgrade

- [OPENAM-2262](#): Configure OAuth2 wizard always enables refresh tokens
- [OPENAM-2170](#): Configure OAuth2 wizard fails to create policy in sub-realm
- [OPENAM-2168](#): Authentication Success Rate and Authentication Failure Rate are always 0
- [OPENAM-2155](#): Non printable characters in some files. Looks like most should be copyright 0xA9
- [OPENAM-2137](#): DSConfigMgr can hide exception root causes
- [OPENAM-2085](#): Unreliable policy evaluation results with `com.sun.identity.agents.config.fetch.from.root.resource` enabled
- [OPENAM-2023](#): Federation Connectivity Test fails with Account termination is not working
- [OPENAM-1946](#): Password change with AD does not work when old password is provided
- [OPENAM-1945](#): Default Configuration create invalid domain cookie
- [OPENAM-1921](#): REST GET for user "*" returning first user listed
- [OPENAM-1892](#): Only Accept certificate for authentication if KeyUsage is correct
- [OPENAM-1886](#): Session invalidated on OpenAM server is not deleted from SFO datastore
- [OPENAM-1852](#): Oauth2 auth-module can not be used with DistAuth
- [OPENAM-1839](#): LDAPConnectionPool is not recovered
- [OPENAM-1831](#): OpenAM 10.0 subrealm DNS alias doesn't work as expected unless setting `com.sun.identity.server.fqdnMap`
- [OPENAM-1811](#): DAS response serialization is not working as expected when using PAP
- [OPENAM-1660](#): Read-access to SubjectEvaluationCache is not synchronized
- [OPENAM-1659](#): Default Authentication Locale is not used as fallback
- [OPENAM-1655](#): AttributeQueryUtil ignores configured SPAttributeMapper

- [OPENAM-1642](#): Chain based UI customization is not case insensitive
- [OPENAM-1563](#): Servers and Sites pages may display password in clear text
- [OPENAM-1505](#): LogoutViewBean does not use request information for finding the correct template
- [OPENAM-1456](#): Change of the agent group in the J2EE policy agent profile causes profile corruption
- [OPENAM-1330](#): 'sharedState' in LoginContext should be thread safe
- [OPENAM-1323](#): Unable to create session service when no datastore is available
- [OPENAM-1317](#): With ssoadm create-agent, default values are handled differently for web agents and j2ee agents
- [OPENAM-1269](#): Entitlements are incorrectly converted to policies
- [OPENAM-1237](#): Property 'noSubjectKeyIdentifier' is missing in fmWSSecurity.properties
- [OPENAM-1219](#): SAML 2 metadata parsing breaks in glassfish 3.1.2
- [OPENAM-1194](#): Unable to get AuthnRequest error in multiserver setup
- [OPENAM-1181](#): Improperly defined applications cause the policy framework to throw NPE
- [OPENAM-1137](#): Error message raised when adding a user to a group
- [OPENAM-1111](#): Persistent search in LDAPv3EventService should be turned off if caching is disabled
- [OPENAM-1105](#): Init properties sometimes don't honor final settings
- [OPENAM-774](#): Invalid characters check not performed.
- [OPENAM-752](#): AgentsRepo#getAttributes fails to get agent information occasionally leading to server restart
- [OPENAM-294](#): ssoadm: create and update
- [OPENAM-291](#): SelfWrite permissions are denied to sub realms
- [OPENAM-71](#): SAML2 error handling in HTTP POST and Redirect bindings

Chapter 6. How to Report Problems & Provide Feedback

If you have questions regarding OpenAM which are not answered by the documentation, there is a mailing list which can be found at <https://lists.forgerock.org/mailman/listinfo/openam> where you are likely to find an answer.

If you have found issues or reproducible bugs within OpenAM 11.0.1, report them in <https://bugster.forgerock.org>.

When requesting help with a problem, include the following information:

- Description of the problem, including when the problem occurs and its impact on your operation
- Description of the environment, including the following information:
 - Machine type
 - Operating system and version
 - Web server or container and version
 - Java version
 - OpenAM version
 - Any patches or other software that might be affecting the problem
- Steps to reproduce the problem
- Any relevant access and error logs, stack traces, or core dumps

Chapter 7. Support

You can purchase OpenAM support subscriptions and training courses from ForgeRock and from consulting partners around the world and in your area. To contact ForgeRock, send mail to info@forgerock.com. To find a partner in your area, see <http://forgerock.com/partners/find-a-partner/>.

