

Oracle® Fusion Middleware

Release Notes for Oracle Identity Management



12c (12.2.1.4.0)

E95864-07

October 2021

The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

ORACLE®

Oracle Fusion Middleware Release Notes for Oracle Identity Management, 12c (12.2.1.4.0)

E95864-07

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Preface

This preface includes the following sections:

- [Audience](#)
- [Documentation Accessibility](#)
- [Related Documents](#)
- [Conventions](#)

Audience

This document is intended for users of Oracle Identity Management 12c (12.2.1.3.0).

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

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Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Related Documents

For more information, see the following resources:

- [Oracle Fusion Middleware Documentation](#)

This contains documentation for all Oracle Fusion Middleware 12c products.

- [Oracle Technology Network](#)

This site contains additional documentation that is not included as part of the documentation libraries.

1

Introduction

Topics

- [Latest Release Information](#)
- [Purpose of this Document](#)
- [System Requirements and Specifications](#)
- [Certification Information](#)
- [Oracle Support](#)

1.1 Latest Release Information

This document is accurate at the time of publication. Oracle will update the release notes periodically after the software release. You can access the latest information and additions to these release notes on the Oracle Help Center.

<http://docs.oracle.com/en/>

1.2 Purpose of this Document

This document contains the release information for Oracle Identity Management 12c (12.2.1.4.0). It describes differences between Oracle Identity Management and its documented functionality. Oracle recommends you review its contents before installing, or working with the product.

1.3 System Requirements and Specifications

Oracle Fusion Middleware installation and configuration will not complete successfully unless users meet the hardware and software prerequisite requirements before installation. For more information, see [Oracle Fusion Middleware System Requirements and Specifications](#).

1.4 Certification Information

To see versions of platforms and related software for which Oracle Identity Management is certified and supported, go to [Oracle Fusion Middleware Supported System Configurations](#).

1.5 Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support at <https://support.oracle.com>.

2

Oracle Identity Management 12c (12.2.1.4.0) Bundle Patches

This chapter provides information about the Bundle Patches for Oracle Identity Management 12c (12.2.1.4.0).

Topics

- [About Oracle Access Management Bundle Patches](#)
- [About Oracle Identity Governance Bundle Patches](#)
- [About Oracle Unified Directory Bundle Patches](#)
- [About Oracle Internet Directory Bundle Patches](#)

2.1 About Oracle Access Management Bundle Patches

You can apply the following bundle patches on top of Oracle Access Management 12c (12.2.1.4.0):

- **Certification of Quarterly Bundle Patches for Oracle Access Management and Underlying Components**
Starting with Bundle Patch 01, Oracle has certified the dependent Middleware component patches for Identity Management products and recommends that you apply these certified patches. For more information about these patches, see *Certification of Underlying or Shared Component Patches for Identity Management Products (Doc ID 2627261.1)* at <https://support.oracle.com>.
- **Stack Patch Bundle**
Stack patch Bundle deploys the IDM product and dependent FMW patches using a tool. For more information about these patches, see *Quarterly Stack Patch Bundles (Doc ID 2657920.1)* at <https://support.oracle.com>.

2.2 About Oracle Identity Governance Bundle Patches

You can apply the following bundle patch on top of Oracle Identity Governance 12c (12.2.1.4.0):

- **Certification of Quarterly Bundle Patches for Oracle Identity Governance and Underlying Components**
Starting with Bundle Patch 01, Oracle has certified the dependent Middleware component patches for Identity Management products and recommends that you apply these certified patches. For more information about these patches, see *Certification of Underlying or Shared Component Patches for Identity Management Products (Doc ID 2627261.1)* at <https://support.oracle.com>.
- **Quarterly Stack Patch Bundle**

Stack Patch Bundle deploys the IDM product and dependent FMW patches by using a tool. For more information about these patches, see *Quarterly Stack Patch Bundles (Doc ID 2657920.1)* at <https://support.oracle.com>.

2.3 About Oracle Unified Directory Bundle Patches

You can apply the following bundle patches on top of Oracle Unified Directory 12c (12.2.1.4.0):

- **Certification of Quarterly Bundle Patches for Oracle Unified Directory and Underlying Components**
Starting with Bundle Patch 01, Oracle has certified the dependent Middleware component patches for Identity Management products and recommends that you apply these certified patches. For more information about these patches, see *Certification of Underlying or Shared Component Patches for Identity Management Products (Doc ID 2627261.1)* at <https://support.oracle.com>.
- **Stack Patch Bundle**
Stack Patch Bundle deploys the IDM product and dependent FMW patches by using a tool. For more information about these patches, see *Quarterly Stack Patch Bundles (Doc ID 2657920.1)* at <https://support.oracle.com>.

2.4 About Oracle Internet Directory Bundle Patches

You can apply the following bundle patches on top of Oracle Internet Directory 12c (12.2.1.4.0):

- **Certification of Quarterly Bundle Patches for Oracle Internet Directory and Underlying Components**
Oracle has certified the dependent Middleware component patches for Identity Management products and recommends that you apply these certified patches. For more information about these patches, see *Certification of Underlying or Shared Component Patches for Identity Management Products (Doc ID 2627261.1)* at <https://support.oracle.com>.

3

What's New in Oracle Identity Management 12c (12.2.1.4.0)

This topic lists the new features for all the products in Oracle Identity Management Release 12c (12.2.1.4.0).

Topics

- [What's New in Oracle Access Management](#)
- [What's New in Oracle Identity Governance](#)
- [What's New in Oracle Unified Directory](#)
- [What's New in Oracle Internet Directory](#)
- [What's New in Oracle Identity Management Integration](#)

3.1 What's New in Oracle Access Management

Oracle Access Management 12c (12.2.1.4.0) includes the following new features:

- **Passwordless Login**
Passwordless authentication allows you to bypass the standard web form based authentication when using a mobile device. For details, see *Using Passwordless Authentication in Administering Oracle Access Management*.
- **Dynamic Client Registration**
Dynamic client Registration (DCR) provides a way for the native mobile apps (Android) to dynamically register as clients with the OAuth Server (OAM). For details, see *Dynamic Client Registration in Administering Oracle Access Management*
- **OAP over REST**
Oracle Access Protocol (OAP) over REST enables the use of HTTP(S) infrastructure to route and load balance requests. Changing the transport mechanism between WebGate and server has a beneficial impact on reducing operational cost for hybrid deployments where some components are on-premises and others have moved to cloud. For details, see *About OAP Over Rest Communication in Administering Oracle Access Management*
- **WebGate using PFS and Approved Cipher Suites for OAP Simple/Cert Mode Communication**
When the Simple/Cert Mode communication occurs, WebGate ensure that valid and approved cipher suites defined by the admin are used. For details, see *About WebGate TLS validating PFS and Approved Ciphers in Administering Oracle Access Management*
- **HealthCheck Framework**
HealthCheck Framework enables health check on servers. These checks can be performed using REST API or by scheduling periodic checks on the server. Each schedule can be associated with a specified set of tests to be run. For details, see

Monitoring Server Health with Health Check Framework in *Administering Oracle Access Management*

- **Modified UserInfo Response**

The format of the UserInfo response for OAuth flows is modified with the following changes:

- Additional new parameters `guid` and `sub` are included in the response.
- The parameters `Profile`, `Email`, `Address`, and `Phone` are returned directly under the root tag instead of separate containers for each of the parameters.
- The parameters `email_verified` and `phone_number_verified` are returned as booleans.

For example,

```
{
  "guid": "6C9CF210194A11E99FB45DDD0C60B95A",
  "sub": "weblogic",
  "family_name": "weblogic",
  "preferred_username": "weblogic",
  "updated_at": "1548740667872",
  "email_verified": false,
  "phone_number_verified": false
}
```

To retrieve the user info attributes in the older format (see the following example), set the custom attribute `UserInfoScopeCont` to `true` at the domain level.

Sample UserInfo response format when the custom attribute `UserInfoScopeCont` is set,

```
{
  "profile": {
    "guid": "6C9CF210194A11E99FB45DDD0C60B95A",
    "sub": "weblogic",
    "family_name": "weblogic",
    "preferred_username": "weblogic",
    "updated_at": "1548743708100"
  },
  "email": {
    "email_verified": false
  },
  "address": {},
  "phone": {
    "phone_number_verified": false
  }
}
```

- **Policy Cache Resiliency**

Improved resilience of the managed servers with the ability to read, validate and replace policy cache in a small step within the server, and delegation of cache building to the Admin Server. Introduced distribution of policy cache from Admin to manage servers with write once and read many times and reducing contention between multiple OAM server's policy cache present in a cluster.

Policy cache can be fine-tuned using parameters. For details, see Configuring Policy Cache Parameters in *Administering Oracle Access Management*.

3.2 What's New in Oracle Identity Governance

Oracle Identity Governance 12c (12.2.1.4.0) has the following key new features:

- **Application Onboarding**

The application onboarding capability in Identity Self Service has been enhanced to enable you to configure and manage flat files, manage jobs, and upgrade connector applications. See Managing Flat File Configurations, Managing Jobs, and Upgrading Connector Applications in *Performing Self Service Tasks with Oracle Identity Governance*.

- **Challenge Questions**

- The list of challenge questions is updated for this release. See Challenge Questions and Response After First Login in *Performing Self Service Tasks with Oracle Identity Governance*.
- Setting challenge questions requires authentication. See Setting Challenge Questions and Response in *Performing Self Service Tasks with Oracle Identity Governance*.

- **Pending Approvals and Provisioning Tasks**

- For parent or child form modification requests, a change indicator indicates the modified fields in the approval form. See Approving a Task in *Performing Self Service Tasks with Oracle Identity Governance*.
- Similarly, for parent form modification requests, a change indicator indicates the modified fields in the manual fulfillment form. See Completing a Task in *Performing Self Service Tasks with Oracle Identity Governance*.

- **Certification**

In the base selection for user, role, and entitlement certification definitions, you can filter the criteria based on various user, role, and entitlement attributes and user defined fields (UDFs). You can also save the filter criteria and use it for creating other user, role, and entitlement certification definitions. See Creating a User Certification Definition, Creating a Role Certification Definition, and Creating an Entitlement Certification Definition in *Performing Self Service Tasks with Oracle Identity Governance*.

- **Access Policy Harvesting**

Access policies are linked to accounts created by requests and to accounts that are provisioned directly. See Evaluating Policies for Reconciled and Bulk Load-Created Accounts in *Performing Self Service Tasks with Oracle Identity Governance*.

- **Archival and Data Purge**

- Oracle Identity Governance provides a new Offline Data Purge Framework to purge huge data sets in a few iterations and reclaim huge storage space with the same operation. See Using the Offline Data Purge Framework in *Administering Oracle Identity Governance*.
- Oracle Identity Governance provides a new complete data cleanup utility for non-production environments to purge all the data from underlying database tables for the respective OIG feature and to reclaim storage space with the same operation. See Using the Complete Nuke Cleanup Framework in *Administering Oracle Identity Governance*.

- Existing and incoming audit data in the UPA table at mid-tier level can be compressed based on the level of compression you set. See Legacy Audit Data Compression in *Administering Oracle Identity Governance*.
- A new scheduled task has been introduced to purge data from RECON_EXCEPTIONS table. See About the Reconciliation Exceptions Purge Utility in *Administering Oracle Identity Governance*.
- **New User Interface**
 - The user interface to provision a resource to an organization has been enhanced. See Provisioning a Resource in *Performing Self Service Tasks for Oracle Identity Governance*.
 - The user interface to view the action history of a provisioned resource has been enhanced. See Viewing Resource History in *Performing Self Service Tasks for Oracle Identity Governance*.
 - The user interface to manage pending provisioning tasks has been enhanced. See Managing Pending Provisioning Tasks in *Performing Self Service Tasks for Oracle Identity Governance*.
 - As a result of the new UI in Oracle Identity System Administration, procedures have been revised for managing IT resources. See Managing IT Resources in *Administering Oracle Identity Governance*.
 - As a result of the new UI in Oracle Identity System Administration, procedures have been revised for Connector Lifecycle Management. See Installing a Connector, Cloning Connectors, Exporting Connector Object Definitions in Connector XML Format, Wizard Mode Upgrade in Staging Environment and Silent Mode Upgrade in Staging and Production Environment in *Administering Oracle Identity Governance*.
- **Deployment Manager**
 - The Deployment Manager exports and imports identity audit rules in human readable format. See About Export/Import of Identity Audit Rules in *Administering Oracle Identity Governance*.
 - The Deployment Manager also exports and imports role UDF data. See About Export/Import of Role UDF Data in *Administering Oracle Identity Governance*.
- **Identity Management Diagnostic Framework**

Oracle Identity Governance provides a new Identity Management Diagnostic Framework (ID MDF) for first occurrence diagnostics and Service-Level Agreement (SLA)-based notification for faster resolution of issues. See Using the Identity Management Diagnostic Framework in *Administering Oracle Identity Governance*.

3.3 What's New in Oracle Unified Directory

Oracle Unified Directory 12c (12.2.1.4.0) has the following key features:

- REST API
 - OUD 12c (12.2.1.4.0) introduces SCIM Rest services for accessing identity information (Users, Groups, etc), including querying, retrieval, create, update and delete. To configure SCIM, see Managing OUD Directory Data with SCIM Rest API. in *Administering Oracle Unified Directory*.

- OUD 12c (12.2.1.4.0) introduces the Data Management REST API to manage directory data in Oracle Unified Directory. See Configuring Data Management REST API in *Administering Oracle Unified Directory* .
- The Admin Rest API support was introduced in 12.2.1.3.0. To configure Admin Rest API, see Administering Oracle Unified Directory Using REST API in *Administering Oracle Unified Directory*.

3.4 What's New in Oracle Internet Directory

Oracle Internet Directory 12c (12.2.1.4.0) has the following new features:

- **Quality of Service**

Provides the capability to restrict the number of user connections or operations possible in a given duration of time. See Managing Quality of Service Configuration in *Administering Oracle Internet Directory*.

- **Monitoring Oracle Internet Directory Server using LDAP**

Monitors the current state of the server for debugging or troubleshooting purposes by using LDAP. See Monitoring Oracle Internet Directory Server Using LDAP in *Administering Oracle Internet Directory*.

- **Update to Oracle Database Client software**

Oracle Internet Directory 12.2.1.4.0 installation includes an update to the database client software installed with Oracle Fusion Middleware. The database patch set included is 12.1.0.2.190716. If you execute the command `opatch lsinventory`, the patch identification number for this update will appear as 29494060 on Linux/Unix and 30220086 on Microsoft Windows.

3.5 What's New in Oracle Identity Management Integration

Support for upgrading OAM-OIG integrated environments from 11g Release 2 (11.1.2.3.0) and 12c (12.2.1.3.0) to the latest 12c (12.2.1.4.0) release version after applying the OAM bundle patch 12.2.1.4.200327, or the OIM bundle patch 12.2.1.4.200505, or the latest bundle patch available for your release.

For more information about the upgrade, Upgrading OIG-OAM Integrated Environments. in the *Integration Guide for Oracle Identity Management Suite*.

4

Oracle Access Management

Known issues and workarounds for Oracle Access Management include general issues and configuration issues.

Topics

- [Access Management Known Issues and Workarounds](#)
- [Access Management Console Issues](#)
- [Features Not Supported in Access Manager](#)



Note:

See [What's New in Oracle Access Management](#) for information about new features in this release of Oracle Access Management.

4.1 Access Management Known Issues and Workarounds

This topic describes known issues and workaround for Oracle Access Management. It includes the following topics:

- [IHS 9 Web Server Crashes after Configuring WebGate 12cPS4 for AIX Platform](#)
- [Exception Occurs After 12c IIS WebGate Restarts or Stops](#)
- [JPS Library Error Causing ASDK Initializing Failure](#)
- [Takes time to propagate a policy or any metadata change](#)
- [User name field in SME UI is case sensitive](#)
- [Unused References in OAM console](#)
- [Deprecated Java Policy](#)
- [Test-to-Production Not Supported in OAM](#)
- [chghost Tool does not Work with OAM](#)
- [Exception occurs while using OAM Access Tester Tool](#)
- [Simple Security Mode Does Not Function with OAM Server](#)

4.1.1 IHS 9 Web Server Crashes after Configuring WebGate 12cPS4 for AIX Platform

Issue

IHS 9 web server crashes after configuring WebGate 12cPS4 for AIX 7.1 platform.

Workaround

On AIX platform, set the environment variable `LDR_PRELOAD64` to `libclntsh.so` before configuring the WebGate. For example:

```
export LDR_PRELOAD64=libclntsh.so
```

4.1.2 Exception Occurs After 12c IIS WebGate Restarts or Stops

Issue

After the IIS Server is restarted or stopped, an exception occurs and a pop-up Window appears.

Workaround

Click **Cancel** on the pop-up window and proceed.

4.1.3 JPS Library Error Causing ASDK Initializing Failure

Issue

Running the oamasdk libraries for initialization of Access Client using `jps-api.jar`, `jps-manifest.jar`, and `opss-manifest.jar` returns the following error:

```
SEVERE: Oracle Access SDK initialization failed.
```

```
java.lang.NullPointerException
at
oracle.security.opss.internal.service.config.OPSSConfigurationServiceImp
l.getDef
aultBootstrapConfiguration(OPSSConfigurationServiceImpl.java:260)
at
oracle.security.opss.internal.service.config.RuntimeConfigurationService
Impl.g
etDefaultBootstrapConfiguration(RuntimeConfigurationServiceImpl.java:313
)
at
oracle.security.opss.internal.runtime.ServiceContextManagerImpl.initBoot
strap(
ServiceContextManagerImpl.java:173)
at
oracle.security.opss.internal.runtime.ServiceContextManagerImpl.initBoot
strap(
ServiceContextManagerImpl.java:154)at
oracle.security.opss.internal.runtime.ServiceContextManagerImpl.initBoot
strap(
ServiceContextManagerImpl.java:148)
at
oracle.security.jps.internal.config.OpssCommonStartup$3.run(OpssCommonSt
artup.
java:401)
at java.security.AccessController.doPrivileged(Native Method)
```

```
at
oracle.security.jps.internal.config.OpssCommonStartup.preStart(OpssCommonStar
t
up.java:357)
at oracle.security.jps.JpsStartup.preStart(JpsStartup.java:389)
at oracle.security.jps.JpsStartup.start(JpsStartup.java:228)
at
oracle.security.opss.internal.core.runtime.ContextFactoryProxy.checkInit(Conte
xtFactoryProxy.java:201)
at
oracle.security.opss.internal.core.runtime.ContextFactoryProxy.getContext(Con
t
extFactoryProxy.java:139)
```

Workaround

1. Update the class path to include the following jars:
 - oracle_common/modules/oracle.igf/igf-manifest.jar
 - oracle_common/modules/oracle.idm/identitystore.jar
2. Pass the `-Dopss.tenant.mode=JPS_AP` argument as a JVM option while running the ASDK code.

4.1.4 Takes time to propagate a policy or any metadata change

Issue

Set the password policy option to "Disallow previous passwords" and create a new password using the previously used password. The password can still be created.

Workaround

When you perform any change to the policy, it takes time to propagate across the OAM cluster. You should wait for a minimum of 60 seconds or more if the network is slow for the changes to take effect. It is recommended that the changes be made when the OAM servers are offline

4.1.5 User name field in SME UI is case sensitive

Issue

OAM console based session management search is case sensitive.

4.1.6 Unused References in OAM console

Issue

Following are the references in OAM console that are unused:

- Access Portal
- OAuth Service
- Allow OAuth Token

- Token Issuance Policies
- Access Portal Service Settings

4.1.7 Deprecated Java Policy

For Upgrade Customers, refer java policy. See TLS1.2 Support in Oracle Access Management

4.1.8 Test-to-Production Not Supported in OAM

Issue

OAM does not support Test-to-Production (T2P) tools in this release.

Workaround

To create one or more cloned data centers follow the steps in the procedure, Adding an Additional Clone Data Center to the Existing Multi-Data Center Setup.

4.1.9 chghost Tool does not Work with OAM

Issue

OAM does not support *chghost* tool in this release.

Workaround

The host:port for primary and secondary servers can be configured using the UI parameters on OAM console.

See [Configuring and Managing Registered OAM Agents Using the Console](#)

The webgate profiles and policies on OAM server use the import/export partners or Bulk updates for Webgates.

See

- Import Partners
- Export Partners
- Bulk updates to Webgates

For webgates, you can do either of the following when host and port information is changed:

- Manually edit the host and port information of new OAM server by updating the *ObAccessClient.xml* at target host.
- You can register the Webgate agent with the new Oracle Access Manager by using the Oracle Access Manager Administration Console and replace the old artifacts.

See [Registering an OAM Agent using the console](#)

Alternatively, you can use the RREG command-line tool to register a new Webgate agent.

See Locating and Preparing the RREG Tool and Remote Registration Tools, Modes, and Process

**Note:**

ObAccessClient.xml can be found at `webgate_instance_dir` (`${Oracle_Home}/user_projects/domains/${DOMAIN_HOME}/config/fmwconfig/components/OHS/ohs1/webgate/config/ObAccessClient.xml`)

4.1.10 Exception occurs while using OAM Access Tester Tool

Issue

In OAM Access Tester tool, after entering sever connection details and clicking on **Connect** button, the connection will be established but with the following exception.

In Access Tester Console:

```
SEVERE: Server reported that incorrect NAP version is being used, while client attempted to communicate using NAP version 5. See server log for more information.
```

Stack trace in Server Logs:

```
<Error> <oracle.oam.proxy.oam> <OAM-04020> <Exception encountered while processing the request message for agent {0} at IP {1} Request message {2} :oracle.security.am.proxy.oam.requesthandler.OAMProxyException: Partner: TestWebgate is registered with version 11.0.0.0. Runtime version of agent is different: 11.* .Agent will not be able to communicate with the server at oracle.security.am.proxy.oam.requesthandler.ObAAAServiceServer.getClientAuthentInfo(ObAAAServiceServer.java:159) at oracle.security.am.proxy.oam.requesthandler.RequestHandler.ObAuthenReqChallengeHandler(RequestHandler.java:566) at oracle.security.am.proxy.oam.requesthandler.RequestHandler.handleRequest(RequestHandler.java:229) at oracle.security.am.proxy.oam.requesthandler.RequestHandler.handleMessage(RequestHandler.java:180) at oracle.security.am.proxy.oam.requesthandler.ControllerMessageBean.getResponseMessage(ControllerMessageBean.java:94) at oracle.security.am.proxy.oam.requesthandler.ControllerMessageBean_eo7ylc_MDOImpl.__WL_invoke(Unknown Source) at weblogic.ejb.container.internal.MessageDrivenLocalObject.invoke(MessageDrivenLocalObject.java:127) at
```

```
oracle.security.am.proxy.oam.requesthandler.ControllerMessageBean_eo7ylc
_MDOImpl.getResponseMessage(Unknown Source)
at
oracle.security.am.proxy.oam.mina.ObClientToProxyHandler.getResponse(ObC
lientToProxyHandler.java:316)
at
oracle.security.am.proxy.oam.mina.ObClientToProxyHandler.messageReceive
d(ObClientToProxyHandler.java:270)
at
org.apache.mina.common.DefaultIoFilterChain$TailFilter.messageReceived(D
efaultIoFilterChain.java:743)
at
org.apache.mina.common.DefaultIoFilterChain.callNextMessageReceived(Defa
ultIoFilterChain.java:405)
at
org.apache.mina.common.DefaultIoFilterChain.access$1200(DefaultIoFilterC
hain.java:40)
at
org.apache.mina.common.DefaultIoFilterChain$EntryImpl$1.messageReceived(
DefaultIoFilterChain.java:823)
at org.apache.mina.common.IoFilterEvent.fire(IoFilterEvent.java:54)
at org.apache.mina.common.IoEvent.run(IoEvent.java:62)
at
oracle.security.am.proxy.oam.mina.CommonJWorkImpl.run(CommonJWorkImpl.ja
va:85)
at
weblogic.work.j2ee.J2EEWorkManager$WorkWithListener.run(J2EEWorkManager.
java:209)
at
weblogic.invocation.ComponentInvocationContextManager._runAs(ComponentIn
vocationContextManager.java:352)
at
weblogic.invocation.ComponentInvocationContextManager.runAs(ComponentInv
ocationContextManager.java:337)
at
weblogic.work.LivePartitionUtility.doRunWorkUnderContext(LivePartitionUt
ility.java:57)
at
weblogic.work.PartitionUtility.runWorkUnderContext(PartitionUtility.java
:41)
at
weblogic.work.SelfTuningWorkManagerImpl.runWorkUnderContext(SelfTuningWo
rkManagerImpl.java:644)
at weblogic.work.ExecuteThread.execute(ExecuteThread.java:415)
at weblogic.work.ExecuteThread.run(ExecuteThread.java:355)
>
```




Note:

The above exception will be seen while using Access Tester. Access Tester will try to connect with NAP version 5, then with NAP version 4 and followed by NAP version 3 if the former does not work. But, there is no impact on the functionality.

4.1.11 Simple Security Mode Does Not Function with OAM Server

On the AIX Platform, Simple Security Mode does not function with OAM Server.

While registering new Webgate Agent for artifacts generation, select **Open** or **Cert Security Mode** in the OAM Server Console.

4.2 Access Management Console Issues

This topic describes Console issues and workaround for Oracle Access Management (Access Manager). It includes the following topic:

- [OOB OAM console logout does not work](#)

4.2.1 OOB OAM console logout does not work

Issue

Till R2PS3, IAMSuiteAgent was the OOB agent protecting the OAM console. From 12c PS3 onwards, OAM console can be protected using a webgate agent.

Workaround

Close OAM console instead of logout.

Server side session will not be created when OAM console accesses OOB. As per EDG (Enterprise Development Guide), it is recommended to protect OAM console using a webgate agent.

4.3 Features Not Supported in Access Manager

This section provides a list of features that are not supported in Access Manager releases.

- [Features Not Supported in Access Manager 12.2.1.4.0](#)
- [Features Not Supported in Access Manager 12.2.1.3.0](#)

4.3.1 Features Not Supported in Access Manager 12.2.1.4.0

The unsupported features are the same as in 12.2.1.3.0 release.

4.3.2 Features Not Supported in Access Manager 12.2.1.3.0

The following table lists the features that will be unsupported from OAM 12.2.1.3.0 and provides the migration path:

Unsupported Features in OAM 12.2.1.3.0	Description	Migration Path
10g OSSO server co-existence	OAM 12c server does not support co-existence with the OSSO servers	Upgrade from OSSO to OAM 11g R2PS3 and then upgrade to OAM 12c.
OpenSSO server co-existence	OAM 12c server does not support co-existence with the OpenSSO server.	Upgrade to OAM 11gR2PS3 and then upgrade to OAM 12c.
OAM 10g server co-existence	OAM 12c server does not support co-existence with OAM 10g server.	Migrate to OAM 12c server.
OpenSSO agents	OpenSSO agents are not supported in the OAM 12c release.	Migrate to supported 12c agents. OAM 11g and 12c WebGates and Accessgates are supported in OAM 12.2.1.3.0
mod_osso	OAM 12c does not support mod OSSO (OSSO Agent Proxy) agents.	Migrate to 12c WebGate agents and upgrade to OAM 12c.
OAM10g WebGate	OAM 12c server does not support OAM 10 WebGates.	Migrate to OAM11g R2PS3 or OAM 12c WebGates Upgrade the server to OAM 12c.
IDMConfigTool	OAM 12c does not support the following commands and attributes: <ul style="list-style-type: none"> • prepareIDStore= FUSION • prepareIDStore= OAAM • configPolicyStore • configOVD • disableOVDAccessConfig • postProvConfig • validate: All options are not supported • ovdConfigUpgrade • upgradeOIMTo11gWebgate • POLICYSTORE_SHARES_IDSTORE • SPLIT_DOMAIN 	

Unsupported Features in OAM 12.2.1.3.0	Description	Migration Path
IAMSuiteAgent	OAM 12c does not support IAMSuiteAgent. Till R2PS3, IAMSuiteAgent was the OOB agent protecting the OAM console. From 12c PS3 onwards, this is done using default OOB Login page. As per EDG (Enterprise Development Guide), it is recommended to protect OAM console using a webgate agent.	
Oracle Mobile Security Suite (OMSS)	OAM 12c does not support OMSS.	It is recommended to use OpenID Connect. For details, see OIDC Client Integrations with Social Identity Providers.
Security Token Service (STS)	OAM 12c does not support STS.	It is recommended to use OAuth. For details, see Understanding OAuth Services



Note:

There is no 12c version of Oracle Adaptive Access Manager (OAAM), continue to use OAAM 11g with OAM 12c.

In 12c, for mobile and social login usecases, we recommend customers to use standard OAuth. We are deprecating proprietary way of achieving these use cases so that the customers can move to a more standards-based approach that would allow better interoperability. The following services are deprecated in 12c:

- Mobile and Social Services
- Mobile OAuth Service
- Security Token Service
- Access Portal Service

5

Oracle Identity Governance

Known issues and workarounds for Oracle Identity Governance include general issues and issues related to multi-language support.

Topics

- [General Issues and Workarounds](#)
- [Configuration Issues and Workarounds](#)
- [Multi-Language Support Issues and Workarounds](#)
- [Features Not Supported in Oracle Identity Governance 12c \(12.2.1.4.0\)](#)
- [Oracle Identity Governance 12c Database Schema Changes](#)



Note:

See [What's New in Oracle Identity Governance](#) for information about new features in this release of Oracle Identity Governance.

5.1 General Issues and Workarounds

This section describes the general issues and workarounds in this release of Oracle Identity Governance.

- [The Request for Others Option is Available for All Users](#)
- [Session Time-out Warning Displayed When Using the Deployment Manager](#)
- [EditFailedException When Releasing Configuration from WebLogic Console](#)
- [LDAP Synchronization Not Supported](#)
- [Oracle Identity Governance Servers Throw Error During Heavy Load](#)
- [OJET Web Context Does Not Display URL When Using Internet Explorer Browser](#)
- [Unusual Build Up of Diagnostic Logs](#)
- [Logo Not Displayed in Certification Reports](#)
- [Pending Request Approval Fails](#)
- [Duplicate Entries Are Not Allowed in Lookups](#)
- [Missing Label for the Base Selection List](#)
- [Accessibility Issues in the Certification Dashboard](#)
- [Missing Label for the Date Created QBE](#)
- [Change Indicator for Child Table Modification in a Disconnected Application Instance Not Displayed for Manual Fulfillment Task](#)

- [Navigation by Pressing Tab Not Working in Popup to Confirm Cloning](#)
- [Search in Request Reassign Fails](#)
- [JAVA.LANG.THROWABLE: DIAGNOSTIC AID Error is Logged](#)
- [Blank Schema Page for Active Directory Connector on Internet Explorer 11](#)
- [The Account Discriminator Checkbox is Dotted in Edge Browser](#)
- [Bulk Load Utility Not Working on Windows](#)
- [Default Session Timeout](#)

5.1.1 The Request for Others Option is Available for All Users

Issue

When you click the **Request Access** tile in the **Self Service** tab of Oracle Identity Self Service, the **Request for Others** option should be enabled only for authorized users and managers. However, the **Request for Others** option is enabled for all users irrespective of authorization.

5.1.2 Session Time-out Warning Displayed When Using the Deployment Manager

Issue

When using the Deployment Manager, session time-out warning message is displayed although the system is not idle.

Currently, there is no workaround for this issue. Click **OK** on the warning message box and continue.

5.1.3 EditFailedException When Releasing Configuration from WebLogic Console

Issue

In an Oracle Identity Governance deployment that has been upgraded from an earlier release, when you click **Release Configuration** in Oracle WebLogic Console, the following error is generated:

```
weblogic.management.provider.EditFailedException: Error loading jdbc/oimMDS-jdbc.xml
```

This error does not have any functional impact on the WebLogic configuration.

Workaround

To workaround this issue, open the following DataSource configurations, make any changes, and then save and activate the changes:

- ApplicationDB

- mds-oim
- oimJMSStoreDS
- oimOperationsDB
- soaOIMLookupDB

5.1.4 LDAP Synchronization Not Supported

Issue

LDAP synchronization, or integration between Oracle Identity Governance (OIG) and Oracle Access Manager (OAM) by using the IDMConfigTool is not supported in Oracle Identity Governance 12c (12.2.1.3.0) or Oracle Identity Governance 12c (12.2.1.4.0).

Oracle Identity Governance 12c (12.2.1.3.1) release onwards, OAM-OIG integration using LDAP Connectors is supported. For more information, see [What's New in Oracle Identity Management Integration](#).

Workaround

If you have upgraded from Release 11.1.2.3 to Release 12.2.1.3, then you can continue with LDAP synchronization, as described in [Enabling LDAP Synchronization in Oracle Identity Manager](#) in *Integration Guide for Oracle Identity Management Suite* for Release 11.1.2.3.

5.1.5 Oracle Identity Governance Servers Throw Error During Heavy Load

Issue

During heavy loads, Oracle Identity Governance servers throw error due to PS_TXN table space issue.

Workaround

For instructions on how to resolve this issue, see [My Oracle Support document ID 1444959.1](#)

5.1.6 OJET Web Context Does Not Display URL When Using Internet Explorer Browser

Issue

When Internet Explorer is used, OJET Web Context does not show browser URL in the Organization Provisioning and Resource History pages.

5.1.7 Unusual Build Up of Diagnostic Logs

Issue

After installing and configuring Oracle Identity Governance and starting all servers, an unusual build up of diagnostic logs is shown in the `DOMAIN_HOME/servers/oim_server/`

logs/ directory of the Oracle Identity Governance managed server. The logs show the following:

```
[tenant-name: GLOBAL] Exception info[[
oracle.jbo.ReadOnlyDefObjectException: JBO-25075: Definition
AvailableServicesVO of type ViewObject is read-only. Cannot modify it
at oracle.jbo.server.MetaObject.checkEditable(MetaObject.java:328)
at oracle.jbo.server.ViewDefImpl.setSelectClause(ViewDefImpl.java:3864)
at
```

Workaround

To fix this issue:

1. Go to the `DOMAIN_HOME/bin/` directory.
2. In a text editor, open the `setDomainEnv.sh` file.
3. Search for the `Doracle.xdkjava.compatibility.version : 11.1.1` flag, and remove it.
4. Save and close the `setDomainEnv.sh` file.
5. Go to the `DOMAIN_HOME/bin/` directory.
6. In a text editor, open the `setSoaDomainEnv.sh` file.
7. Under `EXTRA_JAVA_PROPERTIES`, add the following:

```
Doracle.xdkjava.compatibility.version : 11.1.1
```

8. Save and close the `setSoaDomainEnv.sh` file.
9. Restart all servers.

5.1.8 Logo Not Displayed in Certification Reports

Issue

When you log in to Oracle Identity Self Service and view certification reports, the logo is displayed in the PDF, HTML, and RTF formats of the report. However, the logo is not displayed in the RTF, Excel, Excel 2000, and CSV formats of the report.

Similarly, when you log in to Oracle BI Publisher Enterprise and view certification reports, the logo is displayed in the PDF, HTML, and RTF formats. However, the logo is not displayed in the Excel (mhtml), Excel (html), and CSV formats of the report.

5.1.9 Pending Request Approval Fails

Issue

In a clustered deployment of Oracle Identity Governance, when a node fail over occurs, clicking **Approve** on the Request Approval page throws an exception, and displays 404 Page Not Found on the page. The exception is:

```
<Mar 11, 2019 3:03:49,288 AM PDT> <Error> <Cluster> <BEA-003144> <All session
objects should be serializable to replicate. Check the objects in the
```

```

session. Failed to replicate a non-serializable object in context /identity.
java.rmi.UnmarshalException: error unmarshalling arguments; nested exception
is:
java.io.InvalidClassException: filter status: REJECTED
at weblogic.utils.StackTraceDisabled.unknownMethod()
Caused By: java.io.InvalidClassException: filter status: REJECTED
at weblogic.utils.StackTraceDisabled.unknownMethod()
>
<Mar 11, 2019 3:03:49,909 AM PDT> <Warning>
<oracle.adfinternal.view.faces.renderkit.rich.RegionRenderer>
<ADF_FACES-60099> <The region component with id: pt1:d_reg:region2 has
detected a page fragment with multiple root components. Fragments with more
than one root component may not display correctly in a region and may have a
negative impact on performance. It is recommended that you restructure the
page fragment to have a single root component.>
<Mar 11, 2019 3:03:50,175 AM PDT> <Error> <Cluster> <BEA-003144> <All session
objects should be serializable to replicate. Check the objects in the
session. Failed to replicate a non-serializable object in context /identity.
java.rmi.UnmarshalException: error unmarshalling arguments; nested exception
is:
java.io.InvalidClassException: filter status: REJECTED
at weblogic.utils.StackTraceDisabled.unknownMethod()
Caused By: java.io.InvalidClassException: filter status: REJECTED
at weblogic.utils.StackTraceDisabled.unknownMethod()

```

Workaround

The issue can be resolved by updating the `setDomainEnv.sh` file with the following Java property in each node of the cluster, and then starting the WebLogic server:

```
-Dweblogic.oif.serialFilter=maxdepth=250
```

5.1.10 Duplicate Entries Are Not Allowed in Lookups

Issue

You can add duplicate entries in Lookups by using the Design Console without encountering any errors. But when duplicate entries are added to Lookups by using the Identity System Administration, then the following error is logged:

```

[2019-07-02T01:12:18.848-07:00] [oim_server1] [WARNING] []
[oracle.adf.controller.faces.lifecycle.Utils] [tid: [ACTIVE].ExecuteThread:
'11' for queue: 'weblogic.kernel.Default (self-tuning)'] [userId: xelsysadm]
[ecid: 3a5b75b9-1f43-49ac-adac-ee9126ffbf38-00021c4b,0] [APP:
oracle.iam.console.identity.sysadmin.ear] [partition-name: DOMAIN]
[tenant-name: GLOBAL] [DSID: 0000MilixkrBLA85Rjp5id1T4nxP00006z] ADF: Adding
the following JSF error message: IAM-0120030:A system error #1562055138838
has occurred. Please contact System Administrator.[]
oracle.iam.ui.platform.exception.OIMRuntimeException: IAM-0120030:A system
error #1562055138838 has occurred. Please contact System Administrator.

```

The error is generated because duplicate entries are not allowed in Lookups.

5.1.11 Missing Label for the Base Selection List

In the Base Selection page of the New Certification wizard, a label is missing for the Base Selection list. This is a violation of the accessibility guidelines but does not lead to a loss of functionality.

5.1.12 Accessibility Issues in the Certification Dashboard

In the Certification Dashboard in Identity Self Service:

- A label is missing for the table that lists the certifications
- Alt texts are missing for the values in the Percent Complete column

These are violations of the accessibility guidelines but do not lead to any loss of functionality.

5.1.13 Missing Label for the Date Created QBE

In the Certification Definitions page, a label is missing for the Date Created Query By Example (QBE). This is a violation of the accessibility guidelines but does not lead to a loss of functionality.

5.1.14 Change Indicator for Child Table Modification in a Disconnected Application Instance Not Displayed for Manual Fulfillment Task

In a disconnected application instance, the change indicator for child table modification is not displayed for manual fulfillment task.

5.1.15 Navigation by Pressing Tab Not Working in Popup to Confirm Cloning

Using Mozilla Firefox 55.0.3 web browser to access the Identity Self Service, in the Clone Application page, when you enter values for the required fields, and then click **Apply**, the **Do you wish to create default request form** message box is displayed. In this message box, navigating between the **Yes** and **No** buttons and the close icon is not working by pressing the `Tab` key.

5.1.16 Search in Request Reassign Fails

Issue

In the Reassign Task dialog box, if you select the **Transfer ownership to another user or group** option and search for a specific user by selecting **All**, then the following error is displayed:

```
Search failed with an error. Queried participants exceeds limit.. Use a better search query,  
which returns allowed number of participants
```

The following error is logged:

```
[2019-01-17T21:12:48.807-08:00] [oim_server1] [WARNING] []  
[org.apache.myfaces.trinidad.util.ComponentUtils] [tid:  
[ACTIVE].ExecuteThread: '25' for queue: 'weblogic.kernel.Default  
(self-tuning)'] [userId: xelsysadm] [ecid:  
5f2d732c-eb4e-410d-91ca-d56dc3deaa71-0000d9a7,0] [APP:  
oracle.iam.console.identity.self-service.ear] [partition-name: DOMAIN]  
[tenant-name: GLOBAL] [DSID: 0000MXVKjvQ3b6kpGwK6yf1SG3ph00007Q] Could not
```

```

find the component with scopedId ::idSearchButton1 from
RichInputText[UIXEditableFacesBeanImpl, id=idSearchStringField] with the
supported syntax. The component was found with the deprecated syntax. Please
use the supported syntax.
[2019-01-17T21:12:48.808-08:00] [oim_server1] [WARNING] []
[org.apache.myfaces.trinidad.util.ComponentUtils] [tid:
[ACTIVE].ExecuteThread: '25' for queue: 'weblogic.kernel.Default
(self-tuning)'] [userId: xelsysadm] [ecid:
5f2d732c-eb4e-410d-91ca-d56dc3deaa71-0000d9a7,0] [APP:
oracle.iam.console.identity.self-service.ear] [partition-name: DOMAIN]
[tenant-name: GLOBAL] [DSID: 0000MXVKjvQ3b6kpGwK6yf1SG3ph00007Q] Could not
find the component with scopedId ::idSearchButton1 from
RichInputText[UIXEditableFacesBeanImpl, id=idSearchStringField] with the
supported syntax. The component was found with the deprecated syntax. Please
use the supported syntax.
[2019-01-17T21:12:48.811-08:00] [oim_server1] [WARNING] []
[org.apache.myfaces.trinidad.util.ComponentUtils] [tid:
[ACTIVE].ExecuteThread: '25' for queue: 'weblogic.kernel.Default
(self-tuning)'] [userId: xelsysadm] [ecid:
5f2d732c-eb4e-410d-91ca-d56dc3deaa71-0000d9a7,0] [APP:
oracle.iam.console.identity.self-service.ear] [partition-name: DOMAIN]
[tenant-name: GLOBAL] [DSID: 0000MXVKjvQ3b6kpGwK6yf1SG3ph00007Q] Could not
find the component with scopedId ::idSearchButton1 from
RichInputText[UIXEditableFacesBeanImpl, id=idSearchStringField] with the
supported syntax. The component was found with the deprecated syntax. Please
use the supported syntax.
[2019-01-17T21:12:48.834-08:00] [oim_server1] [ERROR] []
[oracle.soa.services.workflow.worklist] [tid: [ACTIVE].ExecuteThread: '25'
for queue: 'weblogic.kernel.Default (self-tuning)'] [userId: xelsysadm]
[ecid: 5f2d732c-eb4e-410d-91ca-d56dc3deaa71-0000d9a7,0] [APP:
oracle.iam.console.identity.self-service.ear] [partition-name: DOMAIN]
[tenant-name: GLOBAL] [DSID: 0000MXVKjvQ3b6kpGwK6yf1SG3ph00007Q]
<oracle.bpel.worklistapp.dc.idbrowser.beans.controller.IdentityBrowserControll
er.executeSearch> Search failed with an error
[2019-01-17T21:12:48.863-08:00] [oim_server1] [WARNING] []
[org.apache.myfaces.trinidad.component.UIXComponentBase] [tid:
[ACTIVE].ExecuteThread: '25' for queue: 'weblogic.kernel.Default
(self-tuning)'] [userId: xelsysadm] [ecid:
5f2d732c-eb4e-410d-91ca-d56dc3deaa71-0000d9a7,0] [APP:
oracle.iam.console.identity.self-service.ear] [partition-name: DOMAIN]
[tenant-name: GLOBAL] [DSID: 0000MXVKjvQ3b6kpGwK6yf1SG3ph00007Q] getClientId
should not be called while the view is being constructed. Component ID:
j_id110

```

Workaround

To avoid this issue, if you search by selecting **All**, then perform a blank search and do not provide a search value. If you want to search for a specific user, then select the **User** option.

5.1.17 JAVA.LANG.THROWABLE: DIAGNOSTIC AID Error is Logged

Sometimes the following error is logged when starting the server or clicking a user:

```

ADFCONTEXT LEAK DETECTED.
JAVA.LANG.THROWABLE: DIAGNOSTIC AID

```

This is a benign error message and does not cause any loss of functionality.

5.1.18 Blank Schema Page for Active Directory Connector on Internet Explorer 11

If you access the Identity Self Service by using the Internet Explorer 11 web browser, while creating a target application for the Active Directory connector using application onboarding, the Schema page is displayed as blank and the Attribute table is not shown.

5.1.19 The Account Discriminator Checkbox is Dotted in Edge Browser

When you access the Identity Self Service by using the Edge web browser, while creating an application, when you open the Advanced Settings dialog box from the Schema page, the **Account Discriminator** checkbox is displayed as dotted.

However, this does not result to any functional loss.

5.1.20 Bulk Load Utility Not Working on Windows

Issue

Running the bulk load utility on a Windows host fails with the following error:

```
Error:
Error:
Compiling Procedures ....
Compilation done...

Enter password for OIM database user again :
Exception in thread "main" java.lang.ClassNotFoundException:
oracle.jdbc.driver.OracleDriver
    at java.net.URLClassLoader.findClass(URLClassLoader.java:382)
    at java.lang.ClassLoader.loadClass(ClassLoader.java:424)
    at sun.misc.Launcher$AppClassLoader.loadClass(Launcher.java:349)
    at java.lang.ClassLoader.loadClass(ClassLoader.java:357)
    at java.lang.Class.forName0(Native Method)
    at java.lang.Class.forName(Class.java:264)
    at bulkload.BulkloadUtil.getConnection(BulkloadUtil.java:163)
    at bulkload.UserLoad.main(UserLoad.java:996)
```

Workaround

To workaround this issue:

1. Search and download the `ojdbc8.jar` file from Oracle Technology Network web site at:
<https://www.oracle.com/technical-resources/>
2. Place the `ojdbc8.jar` file in the OIG database `$ORACLE_HOME/jdbc/lib/` directory.
3. Re-run the bulk load utility.

5.1.21 Default Session Timeout

Issue

In Oracle Identity Governance 12c (12.2.1.3.0) and 12c (12.2.1.4.0), the default session timeout for Identity Self Service and Identity System Administration is 10 minutes.

The default session timeout is set by the following entry in the `web.xml` file:

```
<session-config>
    <session-timeout>10</session-timeout>
</session-config>
```

For Identity Self Service: `$FMW_HOME/Oracle_IDM1/server/apps/oracle.iam.console.identity.self-service.ear /oracle.iam.console.identity.self-service.war/WEB-INF/web.xml`

For Identity System Administration: `$FMW_HOME/Oracle_IDM1/server/apps/oracle.iam.console.identity.sysadmin.ear/oracle.iam.console.identity.sysadmin.war/WEB-INF/web.xml`

However, changing the default session timeout value is not supported.

5.2 Configuration Issues and Workarounds

This section describes the configuration issues and workarounds in this release of Oracle Identity Governance.

- [OIM-SOA Integration MBean Fails During Domain Configuration](#)
- [NullPointerException in the Admin Server Logs](#)
- [Error Stack in OIM Managed Server Logs](#)
- [Error in OIM Managed Server Logs](#)
- [SSL Upgrade Not Supported](#)
- [The User Profile Audit Compression Scheduled Job Does Not Open in Identity System Administration After Upgrade](#)

5.2.1 OIM-SOA Integration MBean Fails During Domain Configuration

Issue

When you configure the Oracle Identity Governance domain, run the `offlineconfig manager.sh` script, and start all servers, and then invoke the OIM-SOA integration MBean, the following error is logged in the server logs:

```
<May 6, 2019 12:50:29,701 AM PDT> <Error> <com.oracle.coherence> <BEA-000000>
<2019-05-06 00:50:29.701/217214.494 Oracle Coherence GE 12.2.1.4.0 <Error>
(thread=Cluster, member=3): Received cluster heartbeat from the senior
Member(Id=1, Timestamp=2019-05-03 12:25:22.783, Address=10.248.121.88:25538,
MachineId=42905,
Location=site:example.com,machine:slc16oqj,process:30630,member:AdminServer,
Role=WeblogicServer) that does not contain this Member(Id=3,
Timestamp=2019-05-03 12:30:58.275, Address=10.248.121.88:14080,
```

```
MachineId=42905,
Location=site:example.com,machine:slc16oqj,process:31978,member:oim_server1,
Role=WeblogicServer); stopping cluster service.>
```

```
<May 6, 2019 12:50:29,753 AM PDT> <Warning> <Log Management> <BEA-170011>
<The LogBroadcaster on this server failed to broadcast log messages to the
Administration Server. The Administration Server may not be running. Message
broadcasts to the Administration Server will be disabled.>
```

Workaround

Make sure that date and time on the WebLogic host and database host are in sync. After making sure date and time are in sync, invoke `oimsointegrationmbean` again.

5.2.2 NullPointerException in the Admin Server Logs

Issue

When you start the admin server, `soa_server1`, and `oim_server1` after installing and configuring the Oracle Identity Governance domain, and then log into the Administrative Console and Enterprise Manager, you can find the following stack trace in the Admin Server logs:

```
[2019-01-28T22:50:03.042-08:00] [AdminServer] [NOTIFICATION] [J2EE JSP-00068]
[oracle.j2ee.jsp] [tid: [ACTIVE].ExecuteThread: '92' for queue:
'weblogic.kernel.Default (self-tuning)'] [userId: weblogic] [ecid:
8dfa55d0-c5cd-4b02-8a96-7b9106ed0437-00000150,0] [APP: em] [partition-name:
DOMAIN] [tenant-name: GLOBAL] [DSID: 0000MYONlm03f5kpGwDCif1SJzSH000002]
invalid taglib uri: http://www.w3.org/2001/XMLSchema, unless non taglib
namespace was intended in a JSP document.
[2019-01-28T22:50:03.070-08:00] [AdminServer] [NOTIFICATION] [J2EE JSP-00068]
[oracle.j2ee.jsp] [tid: [ACTIVE].ExecuteThread: '92' for queue:
'weblogic.kernel.Default (self-tuning)'] [userId: weblogic] [ecid:
8dfa55d0-c5cd-4b02-8a96-7b9106ed0437-00000150,0] [APP: em] [partition-name:
DOMAIN] [tenant-name: GLOBAL] [DSID: 0000MYONlm03f5kpGwDCif1SJzSH000002]
invalid taglib uri: http://www.w3.org/2001/XMLSchema, unless non taglib
namespace was intended in a JSP document.
[2019-01-28T22:50:03.274-08:00] [AdminServer] [ERROR] []
[org.apache.myfaces.trinidadinternal.menu.MenuContentHandlerImpl] [tid:
[ACTIVE].ExecuteThread: '92' for queue: 'weblogic.kernel.Default
(self-tuning)'] [userId: weblogic] [ecid:
8dfa55d0-c5cd-4b02-8a96-7b9106ed0437-00000150,0] [APP: em] [partition-name:
DOMAIN] [tenant-name: GLOBAL] [DSID: 0000MYONlm03f5kpGwDCif1SJzSH000002]
Shared Node Model not created for emas_wlsc_envCluster_breadcrumb. Check for
the existence of the corresponding managed bean in your config files. [[
java.lang.NullPointerException: Shared Node Model not created for
emas_wlsc_envCluster_breadcrumb. Check for the existence of the corresponding
managed bean in your config files.
at
org.apache.myfaces.trinidadinternal.menu.MenuContentHandlerImpl.startElement(M
enuContentHandlerImpl.java:353)
at
com.sun.org.apache.xerces.internal.parsers.AbstractSAXParser.startElement(Abst
ractSAXParser.java:509)
at
com.sun.org.apache.xerces.internal.parsers.AbstractXMLDocumentParser.emptyElem
ent(AbstractXMLDocumentParser.java:182)
at
com.sun.org.apache.xerces.internal.impl.XMLDocumentFragmentScannerImpl.scanSta
rtElement(XMLDocumentFragmentScannerImpl.java:1339)
```

```

at
com.sun.org.apache.xerces.internal.impl.XMLDocumentFragmentScannerImpl$FragmentContentDriver.next(XMLDocumentFragmentScannerImpl.java:2784)
at
com.sun.org.apache.xerces.internal.impl.XMLDocumentScannerImpl.next(XMLDocumentScannerImpl.java:602)
at
com.sun.org.apache.xerces.internal.impl.XMLDocumentFragmentScannerImpl.scanDocument(XMLDocumentFragmentScannerImpl.java:505)
at
com.sun.org.apache.xerces.internal.parsers.XML11Configuration.parse(XML11Configuration.java:842)
at
com.sun.org.apache.xerces.internal.parsers.XML11Configuration.parse(XML11Configuration.java:771)
at
com.sun.org.apache.xerces.internal.parsers.XMLParser.parse(XMLParser.java:141)

at
com.sun.org.apache.xerces.internal.parsers.AbstractSAXParser.parse(AbstractSAXParser.java:1213)
at
com.sun.org.apache.xerces.internal.jaxp.SAXParserImpl$JAXPSAXParser.parse(SAXParserImpl.java:643)
at weblogic.xml.jaxp.WebLogicXMLReader.parse(WebLogicXMLReader.java:133)
at weblogic.xml.jaxp.RegistryXMLReader.parse(RegistryXMLReader.java:170)
at javax.xml.parsers.SAXParser.parse(SAXParser.java:392)
at javax.xml.parsers.SAXParser.parse(SAXParser.java:195)

```

This error message is benign and does not have any impact on the functionality.

5.2.3 Error Stack in OIM Managed Server Logs

The following error stack is shown in OIM managed server logs:

```

Jul 17, 2019 12:35:03,548 AM PDT> <Error>
<oracle.adfinternal.view.page.editor.utils.ReflectionUtility> <WCS-16178>
<Error instantiating class -
oracle.adfdtinternal.view.faces.portlet.PortletDefinitionDTFactory>
<Jul 17, 2019 12:35:03,584 AM PDT> <Warning>
<oracle.adfinternal.view.faces.renderkit.rich.NavigationPaneRenderer>
<BEA-000000> <Warning: There are no items to render for this level>
<Jul 17, 2019 12:35:19,440 AM PDT> <Error> <oracle.iam.platform.kernel.impl>
<IAM-0080075> <XML schema validation failed for XML
/metadata/iam-features-OIMMigration/EventHandlers.xml : eventhandlers and it
will not be loaded by kernel. >
<Jul 17, 2019 12:35:20,261 AM PDT> <Error> <oracle.iam.platform.kernel.impl>
<IAM-0080075> <XML schema validation failed for XML
/metadata/iam-features-sso-integration/event-definition/EventHandlers.xml :
eventhandlers and it will not be loaded by kernel. >
<Jul 17, 2019 12:35:20,490 AM PDT> <Warning>
<oracle.iam.platform.kernel.impl> <IAM-0089999> <Kernel Information:

```

This is a benign error without any functional impact and can be ignored.

5.2.4 Error in OIM Managed Server Logs

The following error is shown in the OIM managed server logs:

```
"
<Aug 7, 2019 5:04:50,334 AM PDT> <Error> <XELLERATE.APIS> <BEA-000000>
<Class/Method:
tcITResourceInstanceOperationsBean/updateWithCredentialStoreData encounter
some problems: Parameter User Reservation Container not present in
credential store. pls check for svr_key:1>
returning the ovd url value :
```

This is a benign error without any functional impact and can be ignored.

5.2.5 SSL Upgrade Not Supported

If you upgrade Oracle Identity Governance 12c (12.2.1.3.0) with SSL enabled to Oracle Identity Governance 12c (12.2.1.4.0) and start the servers, Identity Self Service and soa-infra are not accessible. This is because upgrading a deployment of Oracle Identity Governance with SSL enabled is not supported in this release.

5.2.6 The User Profile Audit Compression Scheduled Job Does Not Open in Identity System Administration After Upgrade

Issue

After you upgrade Oracle Identity Governance 12c (12.2.1.3.0) to 12c (12.2.1.4.0), the User Profile Audit Compression scheduled job does not open in Identity System Administration, and the following error is shown in the server logs:

```
Caused By: java.lang.NullPointerException
at
oracle.iam.features.scheduler.agentry.operations.LookupActor.prepare(LookupAct
or.java:1551)
at
oracle.iam.consoles.faces.utils.CanonicUtils.prepareOperation(CanonicUtils.java:1
69)
```

This is because the User Profile Audit Compression scheduled task is not seeded in MDS after upgrade.

Workaround

To workaround this issue, seed the scheduled task definition in MDS. To do so:

1. Create a XML file with any name, for example `UpaCompressionScheduleTask.xml`.
2. Add the following scheduled task definition to the XML file and save it.

```
<?xml version="1.0"?>
<scheduledTasks xmlns="http://xmlns.example.com/oim/scheduler">
<task>
<name>User Profile Audit Compression</name>
<class>com.thortech.xl.schedule.tasks.UpaCompressionScheduleTask</class>
<description>User Profile Audit Compression</description>
<retry>5</retry>
<parameters>
<number-param required="true" encrypted="false" helpText="Number of
Threads">Number of Threads</number-param>
<number-param required="true" encrypted="false" helpText="Batch
Size">Batch Size</number-param>
```

```

<number-param required="false" encrypted="false" helpText="Time Limit in
mins">Time Limit in mins</number-param>
</parameters>
</task>
</scheduledTasks>

```

3. Create a directory structure, for example `/scratch/ootbTask/metadata/`.
4. Copy the `UpaCompressionScheduleTask.xml` file in the `/scratch/ootbTask/metadata/` directory.
5. Log in to Oracle Enterprise Manager Fusion Middleware Control.
6. Search and open the `oracle.mds.lcm:Application=oim,Location=oim_server1,name=MDSAppRuntime,type=MDSAppRuntime MBean`.
7. Click the **Operations** tab, and use the `importMetadata` operation.
8. For the `fromLocation` parameter, enter `/scratch/ootbTask` as the value according to this example.
9. For the `docs` parameter, enter `/metadata/UpaCompressionScheduleTask.xml` as the value according to this example.

The following screenshot shows the example values in the `MDSAppRuntime` page in System MBean Browser.

The screenshot shows the System MBean Browser interface. The left pane displays a tree view of MBeans, with 'MDSAppRuntime' selected under 'Application: oim'. The right pane shows the configuration for the 'importMetadata' operation. The 'Parameters' table is as follows:

Name	Description	Type	Value
fromLocation	A valid, existing absolute path to a directory or archive in the file system from which the selected documents will be imported. The directory must be accessible from the machine where the application is running.	java.lang.String	/scratch/ootbTask
docs	A list of fully qualified metadata documents to import. This can be specified by a list of fully qualified metadata documents or a document name pattern that is used to identify which documents to import.	Array of java.lang.String	/metadata/UpaCompressionScheduleTask.xml
	A list of names of the specified		

10. Click **Invoke**.

A message about the successful operation is displayed at the top.

See [Importing Metadata Files from MDS](#) for generic steps to import metadata from MDS.

5.3 Multi-Language Support Issues and Workarounds

This section describes the multi-language support issues and workarounds in this release of Oracle Identity Governance.

- [Locale Drop Down Not Translated for My Information and Modify User Pages](#)
- [Search Result Message in the Export Configuration Page Not Translated](#)
- [Some Strings Not Translated on Application Onboarding Screens](#)
- [Translation Not Available for Some Catalog Text](#)

- [Translation Not Available for Some Search Types in Deployment Manager Export](#)

5.3.1 Locale Drop Down Not Translated for My Information and Modify User Pages

Issue

The Locale list in the My Information page and Modify User page of Identity Self Service are not translated if the browser language is set to any one of the following:

- Arabic (ar)
- Hebrew (he)
- Danish (da)
- Czech (cs)
- Dutch (nl)
- Romanian (ro)
- Slovak (sk)
- Norwegian (no)
- Hungarian (hu)

5.3.2 Search Result Message in the Export Configuration Page Not Translated

Issue

When you perform a default search in the Export Configuration page of the Deployment Manager, the search result message is displayed only in English, and is not translated to other languages.

5.3.3 Some Strings Not Translated on Application Onboarding Screens

Issue

The following text in the application onboarding pages in Identity Self Service are not translated in German:

- **Connector Package:** The **Connector Package** option in the Basic Information page of the Create Application wizard and the Create Authoritative Application wizard
- **Schema:** The **Schema** page of the Create Application wizard and the Create Authoritative Application wizard
- **Name** and **Connector Name:** The **Name** and **Connector Name** options in the search list of the Applications page
- **Organization:** The **Organization** tab in the Settings page of the Create Application wizard and the Create Authoritative Application wizard

- **Account Name:** The **Account Name** drop down in the Applications page
- **Provisioning Field:** The **Provisioning Field** column name in the Schema tab of the Create Application wizard and the Create Authoritative Application wizard
- **Action Script:** The **Action Script** buttons in the Applications page

5.3.4 Translation Not Available for Some Catalog Text

Issue

Under the cart details in the Access Request Catalog, translation to other languages is not available for the following text:

You must click Update or Fulfill to apply any changes made in this section.

5.3.5 Translation Not Available for Some Search Types in Deployment Manager Export

Issue

In the Export Configuration page of Oracle Identity System Administration, translation to other languages is not available for some text in the options of the Type drop-down list. The text **GTC**, **IT**, **JAR**, and **Plugin** are displayed in English.

5.4 Features Not Supported in Oracle Identity Governance 12c (12.2.1.4.0)

The following features are not supported in this release:

Features Unsupported in 12.2.1.4.0	Description
Generic Technology Connector (GTC)	Generic Technology Connector for developing custom connectors is not supported in this release.
Segregation of Duties (SoD) using Oracle Application Access Controls Governor (OAACG)	SoD check with OAACG is not supported. In this release, SoD and audit violations are managed by using the Identity Audit feature of Oracle Identity Governance. See <i>Managing Identity Audit in Performing Self Service Tasks with Oracle Identity Governance</i> .

5.5 Oracle Identity Governance 12c Database Schema Changes

For information about Oracle Identity Governance database schema changes (DDL) for releases 12c (12.2.1.3.0) and 12c (12.2.1.4.0), see the following My Oracle Support Note at <https://support.oracle.com/>:

OIG 12c Database Schema Changes (Doc ID 2656103.1)

6

Oracle Unified Directory

Known issues and workarounds for Oracle Unified Directory include general issues and known issues related with Oracle Unified Directory, Oracle Unified Directory Services Manager, and related directory components.

Topics

- [Supported Interfaces for Directory Virtualization Features](#)
- [System Requirements and Specifications](#)
- [Software Environment Limitations and Recommendations](#)
- [Oracle Unified Directory \(OUD\) Known Issues and Workarounds](#)
- [Oracle Unified Directory Services Manager \(OUDSM\) Known Issues and Workarounds](#)
- [Related Oracle Directory Components Known Issues and Workarounds](#)

Note:

- See [What's New in Oracle Unified Directory](#) for information about new features in this release of Oracle Unified Directory.

6.1 Supported Interfaces for Directory Virtualization Features

This section lists the Interfaces that are supported for Directory Virtualization features.

Note:

To use the virtual directory capabilities described here, you must have a valid [Oracle Directory Service Plus](#) license.

Table 1 lists the supported interfaces for virtualization workflow elements in this release:

Note:

The Dynamic Tree, and Flat Tree workflow elements are not supported in this release. If you encounter any functions in the interfaces for these workflow elements, do not execute them as they are not supported.

Table 6-1 Oracle Unified Directory Virtualization Features

Workflow Element	Configure with Command Line	Configure with OUDSM	Additional Information
Join	Yes	Yes	See Configuring a Virtual Directory View of Your Repositories in <i>Oracle® Fusion Middleware Administering Oracle Unified Directory</i> .
HideByFilter	Yes	No	See Filtering Search Results Using the HideByFilter in <i>Oracle® Fusion Middleware Administering Oracle Unified Directory</i> .
GetRidOfDuplicates	Yes	No	See Eliminating Duplicate Entries from Search Results Using the GetRidOfDuplicates in <i>Oracle® Fusion Middleware Administering Oracle Unified Directory</i> .
Active Directory Password Update	Yes	No	See Updating User Passwords Stored in Active Directory in <i>Oracle® Fusion Middleware Administering Oracle Unified Directory</i> .
RDBMS	Yes	No	See Configuring Access to Identity Data Stored in an RDBMS in <i>Oracle® Fusion Middleware Administering Oracle Unified Directory</i> .
VirtualMemberOf	Yes	No	See Adding the memberof User Attribute to person Entries in <i>Oracle® Fusion Middleware Administering Oracle Unified Directory</i> .

6.2 Oracle Unified Directory System Requirements and Specifications

You must read through the system requirements and certification documents to ensure that your environment meets the minimum installation requirements for the products you are installing.

Before performing any installation, you should read the system requirements and certification documents to ensure that your environment meets the minimum installation requirements for the products you are installing. The following documents are available on Oracle Technology Network (OTN):

- Oracle® Fusion Middleware Installing Oracle Unified Directory 12c (12.2.1.4.0).

This document provides information related to hardware and software requirements, minimum disk space and memory requirements, and required system libraries, packages, or patches when installing Oracle Unified Directory with other Oracle products.

- Oracle Fusion Middleware Supported System Configurations
<http://www.oracle.com/technetwork/middleware/ias/downloads/fusion-certification-100350.html>

This landing page contains links to certification information for all products in Fusion Middleware suite. To view the certification matrix:

1. Access the Oracle Fusion Middleware Supported System Configurations landing page:
<http://www.oracle.com/technetwork/middleware/ias/downloads/fusion-certification-100350.html>
2. Scroll down to System Requirements and Supported Platforms for Oracle Identity and Access Management 12c (12.2.1.4.0).
3. Click the *xls* link to view the certification matrix.

This document contains the most detailed information about supported application servers, supported clients, JDK requirements, and IPv4/IPv6 certifications for installing Oracle Unified Directory. This document always contains the latest information for a specific release.

- *Oracle® Fusion Middleware Installing Oracle Unified Directory 12c (12.2.1.4.0)*

Planning the Oracle Unified Directory Installation contains pre-installation system notes and other information you should review prior to Oracle Unified Directory installation.

The following sections describe additional information specific to Oracle Unified Directory installation requirements:

- [Hardware Requirements](#)
- [Software Requirements](#)
- [Certified Languages](#)

6.2.1 Hardware Requirements

You must bear in mind the minimum hardware requirements for installation that are recommended for this release.

As a general guideline, the following hardware is recommended:

Table 6-2 Recommended Hardware

Hardware Component	Requirement
RAM	Evaluation purposes: At least 256 MB of free memory for a small database. Production: Minimum of 2 GB.

Table 6-2 (Cont.) Recommended Hardware

Hardware Component	Requirement
Local disk space	<p>Evaluation purposes: For a small database and sufficient space for log files, your system should have at least 100 MB of free local disk space. Preferably, you should have at least 1 GB of disk space.</p> <p>Production: For a typical production deployment with a maximum of 250,000 entries and no binary attributes, such as images, 4 GB of disk space might be sufficient for the database only. You might need an additional 1 GB of disk space for log files. You need to determine disk space for the change log database (DB), which is dependent on the load (updates per second) and on the replication purge delay (that is, the time the server should keep information about internal updates). The change log DB can grow up to 30-40 GB with loads of 1,000 modifications per second.</p> <p>When you use global index replication, ensure that you have enough disk space for the replication change logs. By default, the change log stores changes from the last 100 hours. The configuration should be based on the expected size of the service. For example, you would need 150 GB for 5,000 modify/seconds.</p>

For optimal performance, your system must have sufficient RAM memory for the JVM heap and database cache. The server also provides ready-to-use tuning. For more information about setting the JVM heap and database cache, see *Configuring the JVM, Java Options, and Database Cache* in *Oracle® Fusion Middleware Installing Oracle Unified Directory*.

Your system should also have enough disk space to store the generated log files. The server log files can consume up to 1 GB of disk space with default server settings. In replicated environments, the change log database can grow up to 30-40 GB with loads of 1,000 mods/sec. For information about setting the log file size, see *Configuring Log Rotation Policies* in *Oracle® Fusion Middleware Administering Oracle Unified Directory*.

You can configure Oracle Unified Directory in such a way that it uses substantially less, or more, disk space depending on your applications and performance needs. Any setup considerations must determine the amount of memory for the server's database and log files.

On Solaris and Linux systems, the operating system should be configured to have at least twice as much virtual memory as JVM heap. To achieve this, you might need to increase the size of the operating system swap space.

6.2.2 Software Requirements

You must bear in mind the software requirements that are to be met before beginning the installation.

In addition to the operating system, application server, and JDK requirements described in this document:

<http://www.oracle.com/technetwork/middleware/ias/downloads/fusion-certification-100350.html>.

You must ensure to resolve the following operating system specific requirements:

- [File Descriptor Requirements \(Linux Systems\)](#)

- [Specific Requirements for Installation in Solaris Zones](#)

6.2.2.1 File Descriptor Requirements (Linux Systems)

The recommendation described in this section affects Linux systems only. All other supported platforms are not impacted.

To ensure optimal server performance, the total number of client connections, database files, and log files must not exceed the maximum file descriptor limit on the operating system (`ulimit -n`). By default, the directory server allows an unlimited number of connections but is restricted by the file descriptor limit on the operating system. Linux systems limit by default the number of file descriptors that any one process may open to 1024 per process.

After the directory server has exceeded the file descriptor limit of 1024 per process, any new process and worker threads will be blocked. For example, if the directory server attempts to open an Oracle Berkeley Java Edition database file when the operating system has exceeded the file descriptor limit, the directory server will no longer be able to open a connection that can lead to a corrupted database exception. Likewise, if you have a directory server that exceeds the file descriptor limit set by the operating system, the directory server can become unresponsive as the LDAP connection handler consumes all of the CPU's processing in attempting to open a new connection.

To fix this condition, set the maximum file descriptor limit to 65535 per process on Linux machines.

To view the maximum file descriptor limit, run the following command:

```
/sbin/sysctl -a | grep file-max
```

If the `file-max` value is lower than 65535, then perform the following steps:

1. Using any text editor, create or edit the `/etc/sysctl.conf` file, and add or edit lines similar to the following:

```
fs.file-max = 65536
```
2. Enter the following command to change the current values of the kernel parameters:

```
/sbin/sysctl -p
```
3. Enter the command `/sbin/sysctl -a | grep file-max` to confirm that the values are set correctly.
4. Using any text editor, edit the `/etc/security/limits.conf` file, and add the following lines:

```
soft nofile 1024  
hard nofile 65535
```



Note:

When you specify the values in the `/etc/sysctl.conf` or `/etc/security/limits.conf` file, they persist when you restart the system.

6.2.2.2 Specific Requirements for Installation in Solaris Zones

This section describes the specific requirements for installation of Oracle Unified Directory on Solaris Zones.

The Oracle Unified Directory software treats global, full local, and sparse zones as an independent physical system. Installing the server in any type of Solaris zone is therefore like installing on an independent system. The software does not share services or file locations with other zones.

6.2.3 Certified Languages

You can find here the list of languages supported, called certified languages.

Oracle Unified Directory is certified for the following languages:

- Chinese (Simplified)
- Chinese (Traditional)
- French
- German
- Italian
- Japanese
- Korean
- Spanish
- Portuguese (Brazilian)



Note:

Certain error messages (specifically, the SEVERE and FATAL messages) are displayed in English only.

6.3 Software Environment Limitations and Recommendations

This section describes the limitations that might affect the initial deployment of your directory server.

The Oracle Unified Directory 12c (12.2.1.4.0) software has some limitations that might affect the initial deployment of your directory server. Follow the recommendations for deployments in this section.

Administrators also should appropriately tune the Oracle Unified Directory directory server and its Java Virtual Machine (JVM) to ensure that adequately sized hardware is made available to support heavy write operations. See *Configuring the JVM, Java Options, and Database Cache* in *Oracle Fusion Middleware Installing Oracle Unified Directory*.

This section describes the following topics:

- [OUD 12c \(12.2.1.4.0\) Limitations](#)
- [Viewing the Certification Matrix](#)
- [Software Recommendations](#)

6.3.1 OUD 12c (12.2.1.4.0) Limitations

This section lists the limitations of Oracle Unified Directory 12c (12.2.1.4.0). They are as follows:

- The Oracle Unified Directory directory server provides full LDAP v3 support, except for alias dereferencing, and limited support for LDAPv2.
- For Enterprise User Security, Oracle Unified Directory is validated to store and manage users and groups locally, and also for proxying to other external directory servers. The list of supported external directory servers is documented in the certification matrix. See [Viewing the Certification Matrix](#) in *Oracle Fusion Middleware Installing Oracle Unified Directory*.
- Oracle Unified Directory Server in proxy mode provides the best search performance when the search queries ask for the specific required attributes (rather than all the attributes) of an entry.

6.3.2 Viewing the Certification Matrix

This section describes the procedure to view the certification matrix.

To view the certification matrix:

1. Access the Oracle Fusion Middleware Supported System Configurations landing page:
<http://www.oracle.com/technetwork/middleware/ias/downloads/fusion-certification-100350.html>
2. Scroll down to System Requirements and Supported Platforms for Oracle Identity and Access Management 12c Release (12.2.1.4.0).
3. Click the *x/s* link to view the certification matrix and then click the **Interop** tab for the list of supported external directory servers.

6.3.3 Software Recommendations

This section lists the recommendations for using Oracle Unified Directory.

The recommendations that are to be followed are:

- The directory server provides better performance when the database files are cached entirely into memory.
- The default settings of the Oracle Unified Directory directory server are targeted initially at evaluators or developers who are running equipment with a limited amount of resources. For this reason, you should tune the Java virtual machine (JVM) and the directory server itself to improve scalability and performance, particularly for write operations. See *Configuring the JVM, Java Options, and Database Cache* in *Oracle Fusion Middleware Installing Oracle Unified Directory*.

- If you want to import large LDIF files by using the `import-ldif` command, then it is recommended that you use the `--skipDNvalidation` option. However, if you are not certain that the LDIF file is valid, using this option is not advised.
- If you want to perform `isMemberOf` query for complex searches involving static groups, it is advisable to keep group membership and user entry under the same backend.

6.3.4 Deprecation of the Password Notification Change plug-in

Starting with Oracle Unified Directory 12c (12.2.1.4.0), the Password Notification Change plug-in (`oidpwdcn.dll`) is deprecated.

Oracle recommends that you replace this plug-in with the centrally managed users (CMU) feature provided by Oracle Database.

6.4 Oracle Unified Directory (OUD) Known Issues and Workarounds

The following sections describe known issues and limitations with the Oracle Unified Directory 12c (12.2.1.4.0) core server at the time of this release.

- [\(Bug 29964155\) Unable to Find the System Component Details in the config.xml File](#)
- [PBKDF2WithHmacSHA512–based password storage schemes might fail due to JDK bug](#)
- [\(Bug 20109035\) OUD upgrade fails to set the purging flag in the ds-sync-hist index](#)
- [\(Bug 19786556\) During modification of a large static group, the administrative limit might be exceeded](#)
- [\(Bug 19767906\) ECL changes are delayed by the clock difference between servers in topology](#)
- [\(Bug 19260923\) Using the signal SIGSTOP causes failures](#)
- [\(Bug 17874888\) Removing the data-sync privilege for a user removes all privileges for that user](#)
- [\(Bug 17797663\) Pass-Through Authentication subject to limitations when configured with Kerberos authentication provider.](#)
- [\(Bug 17689711\) Enabling the changelog for a suffix on two servers will unexpectedly enable replication on the suffix](#)
- [\(Bug 14772631\) If an AddOutboundTransformation definition contains a dot, then a search request might fail](#)
- [\(Bug 14080885\) The moveplan interface does not have a field to update the path for keystore pin file](#)
- [\(Bug 14652478\) The runInstaller command fails to check for appropriate OS](#)
- [\(Bug 14065106\) Translation is not supported for some error message and online Help](#)
- [\(Bug 14055062\) If the value for parameter `-j,--rootUserPasswordFile` is provided as a relative path, commands fail](#)

- (Bug 13996369) The `gicadm` command does not import a catalog
- (Bug 13965857) If you specify an alternative location for a cloned server instance, the cloned server instance is not completely configured
- (Bug 13954545) The `ldapsearch.bat` client incorrectly handles a trailing asterisk character
- (Bug 12291860) No SNMP trap is sent if the server is stopped using the `stop-ds` command with no credentials
- (Bug 12280658) The ModDN operation is not supported if DN's are indexed in the global index catalog (GIC)
- (Bug 12266690) Load balancing routes are deleted without warning
- (Bug 11718654) Error Occurs in Replicated Topology with a Heavy Workload

6.4.1 (Bug 29964155) Unable to Find the System Component Details in the `config.xml` File

Issue

If you update the node manager properties like username and password, the system component details in the `config.xml` file are deleted. This causes the OUD system component to fail while trying to start/stop the component using `stopComponent.sh/startComponent.sh`.

Workaround

Ensure that you do not update the node manager details after creating the system components.

6.4.2 PBKDF2WithHmacSHA512–based password storage schemes might fail due to JDK bug

Issue

If you are using the following password storage schemes that are based on PBKDF2WithHmacSHA512 algorithm, then you might experience unpredictable results. This problem occurs owing to an issue with JDK 8.

- `cn=PBKDF2 HMAC SHA-512,cn=Password Storage Schemes,cn=config`
- `cn=EUS PBKDF2 SHA-512,cn=Password Storage Schemes,cn=config`

If you are using the preceding schemes on a heavily-loaded server, then you might not be able to bind to Oracle Unified Directory.

Workaround

This issue is fixed in JDK 9. This fix has been backported to JDK 8. Oracle recommends that you to apply the JDK patch if you are using the preceding PBKDF2WithHmacSHA512–based password storage schemes in your configuration. For more information about applying this patch, you can contact My Oracle Support.

6.4.3 (Bug 20109035) OUD upgrade fails to set the purging flag in the ds-sync-hist index

Issue

Bug Number: 20109035

When the `ds-sync-hist` flag of the `ds-cfg-purging` is set to false, the OUD upgrade fails to set the purging flag in the `ds-sync-hist` index.

Workaround

Set the `ds-cfg-purging` flag of the `ds-sync-hist` index to true. Then rebuild the `ds-sync-hist` index:

```
./dsconfig set-local-db-index-prop --element-name userRoot --index-name  
ds-sync-hist --set purging:true
```

```
./rebuild-index -b "dc=example,dc=com" -i ds-sync-hist
```

6.4.4 (Bug 19786556) During modification of a large static group, the administrative limit might be exceeded

Issue

Bug Number: 19786556

Misleading additional information occurs when a static large group is modified.

Workaround

Increasing the `member-lookthrough-limit` property. See *Managing Static Groups With More Than 100,000 Members* in *Oracle® Fusion Middleware Administering Oracle Unified Directory*.

6.4.5 (Bug 19767906) ECL changes are delayed by the clock difference between servers in topology

Issue

Bug Number: 19767906

Although there are two servers in the replication topology, results are returned from one server only. This error occurs during data transfer between the replication servers.

Workaround

There is currently no workaround for this issue.

6.4.6 (Bug 19260923) Using the signal SIGSTOP causes failures

Issue

Bug Number: 19260923

When you use the signal SIGSTOP to pause the server, it can disable the backend upon using SIGSCONT to resume server processing. This problem occurs because SIGSTOP is not supported by OUD.

Workaround

Set BDB JE latch timeout to a duration longer than the duration between SIGSTOP and SIGCONT. The following is an example: `dsconfig set-workflow-element-prop --add je-property:je.env.latchTimeout="12 h"`

6.4.7 (Bug 17874888) Removing the data-sync privilege for a user removes all privileges for that user

Issue

Bug Number: 17874888

The data-sync privilege was not an operational privilege and consequently the OUD server does not recognize this privilege. For example, if the root user is created as follows:

```
dn: cn=myroot,cn=Root DNs,cn=config
objectClass: inetOrgPerson
objectClass: person
objectClass: top
objectClass: ds-cfg-root-dn-user
objectClass: organizationalPerson
userPassword: admin-password
cn: myroot
sn: myroot
ds-cfg-alternate-bind-dn: cn=myroot
givenName: My Root User
ds-privilege-name: -data-sync
```

then the OUD server does not recognize the privilege, and cannot remove it. Instead, the OUD server removes all privileges for this user.

Workaround

All references to this privilege in the OUD server configuration should be removed. For example:

```
$ ldapmodify -h localhost -p 4444 --useSSL
dn: cn=myroot,cn=Root DNs,cn=config
changetype: modify
delete:ds-privilege-name
ds-privilege-name: -data-sync
```

6.4.8 (Bug 17797663) Pass-Through Authentication subject to limitations when configured with Kerberos authentication provider.

Issue

Bug Number: 17797663

When pass-through authentication (PTA) is configured with a Kerberos authentication provider, certain conditions must be met in order for the bind to succeed.

Workaround

Configure PTA to meet the following conditions:

- The user provider must be a local backend.
- The PTA suffix, the user suffix, and the authentication suffix must be the same. The easiest way to configure the suffixes to be the same is to define the PTA suffix, and leave the other suffixes undefined.

6.4.9 (Bug 17689711) Enabling the changelog for a suffix on two servers will unexpectedly enable replication on the suffix

Issue

Bug Number: 17689711

You may encounter this issue when you have two servers containing two suffixes: one suffix already configured for replication (for example `dc=example,dc=com`), and the other suffix *not* configured for replication (for example `cn=companyname`.) When you enable the changelog for `cn=companyname` in both servers, replication is automatically configured for the `cn=companyname` suffix because the servers themselves have already been defined and configured for replication.

Workaround

There is currently no workaround for this issue.

6.4.10 (Bug 14772631) If an AddOutboundTransformation definition contains a dot, then a search request might fail

Issue

Bug Number: 14772631

When you configure an `AddOutboundTransformation` with `virtualAttr={%sn%.%cn%@o.com}` where the definition contains a dot, then a search request with a filter on the `virtualAttr` parameter might not work correctly.

For instance, the `sn` and `cn` backend attribute values contain a dot, such as `"sn:sn.light"` and `"cn:cn.light."` Here, a search request with a filter on the `virtualAttr`, for example `"virtualAttr=sn.light.cn.light@o.com"` might not work correctly.

Workaround

There is currently no workaround for this issue.

6.4.11 (Bug 14080885) The moveplan interface does not have a field to update the path for keystore pin file

Issue

Bug Number: 14080885

The `moveplan` interface does not have a field to update the path for keystore pin file during the cloning process.

Workaround

Use the `dsconfig` command on the cloned instance to update the `key-store-pin-file` value of JKS Key Manager Provider.

6.4.12 (Bug 14652478) The `runInstaller` command fails to check for appropriate OS

Issue

Bug Number: 14652478

On Oracle Linux Enterprise 6, the `runInstaller` command may require i686 packages to be present on the system. Although the missing packages are not directly required for OUD to operate properly, they are required during the installation process.

Workaround

Prior to running the `runInstaller` command, install the required i686 packages. See Section 1.1 System Requirements and Certification in *Oracle® Fusion Middleware Installing Oracle Unified Directory*

6.4.13 (Bug 14065106) Translation is not supported for some error message and online Help

Issue

Bug Number: 14065106

The messages and Help for `oudCopyConfig`, `oudExtractMovePlan`, and `oudPasteConfig` command-line tools of Oracle Unified Directory are only available in English.

Workaround

There is currently no workaround for this issue.

6.4.14 (Bug 14055062) If the value for parameter `-j, --rootUserPasswordFile` is provided as a relative path, commands fail

Issue

Bug Number: 14055062

On Windows system, if the value for parameter `-j, --rootUserPasswordFile` is provided as a relative path, then `oud-setup`, `oud-proxy-setup`, and `oud-replication-gateway-setup` commands fail.

Workaround

Provide an absolute path for `-j, --rootUserPasswordFile` parameter.

For example:

```
-j C:\local>Password.txt
```

6.4.15 (Bug 13996369) The gicadm command does not import a catalog

Issue

Bug Number: 13996369

The `gicadm` command does not import a catalog when you specify a relative path.

Workaround

Specify an absolute path to import a catalog.

6.4.16 (Bug 13965857) If you specify an alternative location for a cloned server instance, the cloned server instance is not completely configured

Issue

Bug Number: 13965857

The `-tih`, `-targetInstanceHomeLoc` option of the `oudPasteConfig` command allows you to specify the location of the cloned server instance. If you specify an alternative location, for the cloned server instance, the instance is still created in the default location (`TARGET_ORACLE_HOME/./TARGET_INSTANCE_NAME`) and no error message is generated. However, the cloned server is configured partially as some custom parameters are not updated in the cloned server instance.

Workaround

To successfully clone the server instance, as the `-tih` parameter is mandatory, you must explicitly provide the default location for the `-tih` parameter as follows:

```
-tih TARGET_ORACLE_HOME/./TARGET_INSTANCE_NAME
```

6.4.17 (Bug 13954545) The ldapsearch.bat client incorrectly handles a trailing asterisk character

Issue

Bug Number: 13954545

On a Windows system with a JDK 1.7 (previous to Update 11) JVM instance running, the `ldapsearch.bat` client might not handle the trailing "*" correctly.

Workaround

Download the latest JDK version to leverage the fixes and updates that are added to the Java SE platform.

6.4.18 (Bug 12291860) No SNMP trap is sent if the server is stopped using the stop-ds command with no credentials

Issue

Bug Number: 12291860

On Windows systems, no SNMP trap is sent if the server is stopped by using `stop-ds` with no credentials. The server is, however, stopped correctly.

The SNMP trap is sent if the server is stopped by using `stop-ds -D bindDN -p password`.

Workaround

There is currently no workaround for this issue.

6.4.19 (Bug 12280658) The ModDN operation is not supported if DN's are indexed in the global index catalog (GIC)

Issue

Bug Number: 12280658

When a distribution is using a GIC, and the GIC indexes the entry DN's, the ModifyDN operation is not supported.

If DN's are not indexed in the global index catalog, the modify DN operation is supported. Otherwise, only the modify RDN operation is supported.

Workaround

Although indexing the DN is recommended for performance reasons, as a workaround in this situation, do not index the DN.

6.4.20 (Bug 12266690) Load balancing routes are deleted without warning

Issue

Bug Number: 12266690

If you delete the load balancing workflow element or the load balancing algorithm, the load balancing routes are also deleted without any warning.

Workaround

There is currently no workaround for this issue.

6.4.21 (Bug 11718654) Error Occurs in Replicated Topology with a Heavy Workload

Issue

Bug Number: 11718654

In a replicated topology, if the server has a heavy workload, then the following error message is recorded in the error log: "The server failed to obtain a read lock on the parent entry `dc=example, dc=com` after multiple attempts."

Workaround

Configure a larger database cache. See Tuning the Server Configuration in *Oracle® Fusion Middleware Administering Oracle Unified Directory*.

6.5 Oracle Unified Directory Services Manager (Oracle Unified Directory Services Manager) Known Issues and Workarounds

The following sections describe known issues with Oracle Unified Directory Services Manager at the time of Oracle Unified Directory 12c (12.2.1.4.0) release.

Note:

If Oracle Unified Directory has recently been updated, you might encounter a problem when you try to invoke Oracle Unified Directory Services Manager. During an Oracle Unified Directory update operation, Oracle Unified Directory Services Manager is also updated, and the Oracle Unified Directory Services Manager URL can change. This problem usually occurs if you used your browser to invoke the earlier version of Oracle Unified Directory Services Manager.

Therefore, to invoke the updated version of Oracle Unified Directory Services Manager, first clear your browser's cache and cookies.

This section describes the following known issues and workarounds:

- [\(Bug 17582404\) ADF error is displayed in WebLogic Server logs.](#)
- [\(Bugs 18789805/18915580/18905879/18884612/18874750\) Modification Issues with Join Workflow Element](#)
- [\(Bug 18871434\) Join DN attribute does not return in Advanced Search in OUDSM](#)
- [\(Bug 19028533\) Adv Search: Issue with Search in pick attributes table](#)
- [\(Bug 17462792\) Subtabs may not display as designed on Solaris](#)
- [\(Bug 17262682\) Default browser settings may not allow OUDSM URL to be accessible on Windows 2008 R2\(Bug 17462792\) Subtabs may not display as designed on Solaris](#)
- [\(Bug 16946878\) Alerts not sent as designed](#)
- [\(Bug 16056177\) On the Advanced Search page, when you click an entry in the Search Results table, some buttons do not behave as expected](#)
- [\(Bug 15928439\) Java NullPointerException occurs if a changelog entry does not contain a specified objectclass](#)

- [\(Bug 12363352\)](#) In the screenreader mode, focus for some buttons does not work as expected

6.5.1 (Bug 17582404) ADF error is displayed in WebLogic Server logs.

Issue

Bug Number: 17582404

When accessing an entry in the data view, the following error message appears in the WebLogic Server logs:

```
<Oct 9, 2013 8:04:17 AM PDT> <Error>
<oracle.adf.controller.internal.binding.TaskFlowRegionInitialConditions>
<ADFC-64007> <ADFC: Task flow binding parameter 'entryObject' of type
'oracle.idm.directoryservices.odsm.model.oid.UserEntry' on binding
'oidDBdetailtaskflow' is not serializable, potential for incorrect
application behavior or data loss.>
```

Workaround

The error does not affect the WebLogic Server functionality. You can safely ignore the message.

6.5.2 (Bugs 18789805/18915580/18905879/18884612/18874750) Modification Issues with Join Workflow Element

Issue

Bug Number: 18789805/18915580/18905879/18884612/18874750

The results of modification of certain elements and parameters in JOIN Workflow Element in OUDSM are not saved.

The list of parameters that are not saved are:

- "Attribute Storage", "Attribute Retrieval" for both Primary and Secondary Participant
- join suffix value
- join condition
- bind priority in the Participant Relations
- LDAP operations

Workaround

Use dsconfig to do the modification.

6.5.3 (Bug 18871434) Join DN attribute does not return in Advanced Search in OUDSM

Issue

Bug Number: 18871434

In OUDSM, query using advanced search does not return the Join DN attribute. Using ldapsearch, the search returns the join dn attribute.

Workaround

Use ldapsearch to get the Join DN attribute.

6.5.4 (Bug 19028533) Adv Search: Issue with Search in pick attributes table

Issue

Bug Number: 19028533

On the Advanced Search page, the search operation on the Attribute picker window for the "Fetched Attributes" and "Sort Results On" sections, returns error: "An unresolvable error has occurred. Contact your administrator for more information."

Workaround

Manually select the attribute by scrolling down the Select Attribute table.

6.5.5 (Bug 17462792) Subtabs may not display as designed on Solaris

Issue

Bug Number: 17462792

When accessing the Directory Service Manager tab or Topology Manager tab using Firefox on a Solaris system, the subtabs may not display as expected.

Workaround

Click the forward arrows (>>) or back arrows (<<) to open a menu, and then navigate among the subtabs.

6.5.6 (Bug 17262682) Default browser settings may not allow OUDSM URL to be accessible on Windows 2008 R2

Issue

Bug Number: 17262682

After installing OUD and OUDSM on Windows 2008 R2, when you try to access the OUDSM URL, the message "Starting Oracle Directory Services Manager..." displays, but the OUDSM application does not load in the browser as expected. This can occur when you use Microsoft Internet Explorer version 8 or 9 browsers.

Workaround

1. Verify that JavaScript is enabled.
2. Add the OUDSM URL in the trusted sites.

Go to Tools-> Internet Options -> Security -> Trusted sites -> Sites -> Add. Then click Add to add the OUDSM URL to a site.

6.5.7 (Bug 16946878) Alerts not sent as designed

Issue

Bug Number: 16946878

On the Alert Handler Properties page, the Disabled Alert Type and Enabled Alert Type fields do not work as designed. Regardless of the setting for either field, alerts are never sent as expected.

Workaround

Use `dsconfig set-alert-handler-prop` to add or remove enabled-alert-type or disabled-alert-type values.

Use `dsconfig set-alert-handler-prop --add enabled-alert-type: alert type value` to add enabled-alert-type *alert type value*.

Use `dsconfig set-alert-handler-prop set-alert-handler-prop --remove enabled-alert-type: alert type value` to remove enabled-alert-type *alert type value*.

Example:

```
# dsconfig -h slc03roj -p 4444 -D "cn=Directory Manager" -j /tmp/oud -n -X set-alert-handler-prop --handler-name "SMTP Alert handler name" --remove enabled-alert-type:org.openss.server.DirectoryServerShutdown
```

6.5.8 (Bug 16056177) On the Advanced Search page, when you click an entry in the Search Results table, some buttons do not behave as expected

Issue

Bug Number: 16056177

On the Advanced Search page, when you click an entry in the Search Results table, the **Show Attributes** button does not appear if Optional Attributes is already expanded. However, if you collapse **Optional Attributes** and then expand, the **Show Attributes** button appears. But, when you click the button the Select Attributes dialog box is blank.

Workaround

To view the entry details, you can select the same entry from the Data Browser tab.

6.5.9 (Bug 15928439) Java NullPointerException occurs if a changelog entry does not contain a specified objectclass

Issue

Bug Number: 15928439

When this NullPointerException is encountered, the contents of that particular changelog entry cannot be accessed from OUDSM. You can continue to use OUDSM to perform other tasks and access other entries.

Workaround

To access a changelog entry with no objectclass specified, use a different LDAP client.

6.5.10 (Bug 12363352) In the screenreader mode, focus for some buttons does not work as expected

Issue

Bug Number: 12363352

When you are in the screenreader mode, the Create, Apply, and Cancel buttons in the OUDSM interface do not get focus after modification.

Workaround

Press the Tab key until you get the focus on the required button. Alternatively, you can use the mouse to activate the required button.

6.6 Related Oracle Directory Components Known Issues and Workarounds

This section describes the known issues and its workarounds for Oracle Directory Integration Platform and Oracle Identity Governance Framework.

Topics

- [Oracle Directory Integration Platform](#)
- [Oracle Identity Governance Framework](#)

6.6.1 Oracle Directory Integration Platform

Known issues and workarounds for Oracle Directory Integration Platform include general issues and configuration issues.

Topics

- [General Oracle Directory Integration Platform Issues and Workarounds](#)
- [Oracle Directory Integration Platform Configuration Issues and Workarounds](#)
- [Provisioning Issues](#)

6.6.1.1 General Oracle Directory Integration Platform Issues and Workarounds

This section describes general issues and workarounds.

Topics

- [Enabling the Domain-Wide Administration Port on Oracle WebLogic Server Prevents use of the DIP Command Line Interface](#)
- [LDIF Files That Contain Non-ASCII Characters Will Cause the testProfile Command Option to Fail if the LDIF File has Native Encoding](#)
- [Running the testProfile Command with LDIF Files Option Fails in Advance Mode](#)

- [Some Changes May Not Get Synchronized Due to Race Condition in Heavily-Loaded Source Director](#)
- [manageSyncProfiles Utility Prompts for Connected Directory Password](#)
- [The Oracle Password Filter for Microsoft Active Directory Installation Screens Displays 11g Version](#)
- [Resource Usage Charts will not be Displayed](#)

6.6.1.1.1 Enabling the Domain-Wide Administration Port on Oracle WebLogic Server Prevents use of the DIP Command Line Interface

Issue

Be aware that enabling the domain-wide administration port on any WebLogic server running Directory Integration Platform will prevent you from using the DIP command line interface using a standard administrator account. Entering DIP commands will result in an error similar to the following:

```
User: "weblogic", failed to be authenticated
```

Workaround

Administrators can still use the Enterprise Manager (EM) GUI to configure and manage Oracle Directory Integration Platform.

6.6.1.1.2 LDIF Files That Contain Non-ASCII Characters Will Cause the testProfile Command Option to Fail if the LDIF File has Native Encoding

Issue

When running DIP Tester from a command-line, the `manageSyncProfiles testProfile` command will fail if the `-ldiffile` option is specified and the LDIF file contains non-ASCII characters.

Workaround

Note that LDIF files with UTF-8 encoding are not impacted by this limitation. If an LDIF file containing multibyte characters cannot be saved with UTF-8 encoding, then use the following workaround:

1. From a command-line, add the entry using the `ldapadd` command and include the `-E` option to specify the locale. For the required command syntax, see `ldapadd Command Reference` in *Oracle Fusion Middleware Reference for Oracle Identity Management*.
2. Get the specific `changeNumber` for the last add operation.
3. Execute the `testProfile` command using the `changeNumber` from the previous step.

For more information, see the section `Running DIP Tester From the WLST Command-Line Interface` in *Oracle Fusion Middleware Administering Oracle Directory Integration Platform*.

6.6.1.1.3 Running the testProfile Command with LDIF Files Option Fails in Advance Mode

Issue

When running DIP Tester from a command-line in advance mode, the `manageSyncProfiles testProfile` command will fail if the `-ldiffile` option is specified and may synchronize the wrong operation.

Workaround

To resolve this issue, run the `manageSyncProfile updatechgnum` command. See "Running DIP Tester From the WLST Command-Line Interface" in the *Oracle Fusion Middleware Administering Oracle Directory Integration Platform*.

6.6.1.1.4 Some Changes May Not Get Synchronized Due to Race Condition in Heavily-Loaded Source Directory

Issued

If the source directory is heavily-loaded, a race condition may occur where database commits cannot keep pace with updates to the `lastchangenumber`. If this race condition occurs, Oracle Directory Integration Platform may not be able to synchronize some of the changes.



Note:

This issue only occurs if you are using Oracle Internet Directory as the back-end directory.

Workaround

To resolve this issue, perform the following steps to enable database commits to keep pace with the `lastchangenumber`:

1. Increase the value of the synchronization profile's Scheduling Interval.
2. Control the number of times the search is performed on the source directory during a synchronization cycle by setting the `searchDeltaSize` parameter in the profile. Oracle suggests starting with a value of 10, then adjusting the value as needed.

6.6.1.1.5 manageSyncProfiles Utility Prompts for Connected Directory Password

Issue

When you run the `manageSyncProfiles` utility to synchronize with a database, the `manageSyncProfiles register` prompts for the connected directory password.

Workaround

Ensure that you specify the connected database password and not the directory password.

6.6.1.1.6 The Oracle Password Filter for Microsoft Active Directory Installation Screens Displays 11g Version

There is no impact to functionality and no user action is needed.

6.6.1.1.7 Resource Usage Charts will not be Displayed

The DIP home page does not display the resource usage charts in Oracle Directory Integration Platform 12c (12.2.1.3).

6.6.1.2 Oracle Directory Integration Platform Configuration Issues and Workarounds

This section describes configuration issues and their workarounds. It includes the following topics:

- [Specify the Service Name While Creating Synchronization Profiles](#)
- [If Oracle Internet Directory is the Back-End Directory then do not use localhost as Oracle Internet Directory Hostname When Configuring Oracle Directory Integration Platform](#)
- [You may Need to Restart the Directory Integration Platform After Running dipConfigurator Against Oracle Unified Directory](#)
- [When Configuring a Profile, you may Need to Scroll Past a Section of Whitespace to View Mapping Rules](#)
- [Specify the Host Name and Port Number for an Oracle RAC Database](#)

6.6.1.2.1 Specify the Service Name While Creating Synchronization Profiles

When you create the synchronization profile, ensure that you specify the database service name and not the SID.

Examples:

To connect to a database, use the form `host:port:serviceName` for the `odip.profile.condirurl` connection detail property in a directory synchronization profile.

Specify the database service name for **Database Service ID** in the **Create Synchronization Profile** page in Oracle Enterprise Manager Fusion Middleware Control. See *Creating Synchronization Profiles* in *Oracle Fusion Middleware Administering Oracle Directory Integration Platform*.

6.6.1.2.2 If Oracle Internet Directory is the Back-End Directory then do not use localhost as Oracle Internet Directory Hostname When Configuring Oracle Directory Integration Platform

When configuring Oracle Directory Integration Platform against an existing Oracle Internet Directory using the Configuration Wizard, you must specify the hostname for Oracle Internet Directory using only its fully qualified domain name (such as `myhost.example.com`). Do not use `localhost` as the Oracle Internet Directory hostname even if Oracle Directory Integration Platform and Oracle Internet Directory are collocated on the same host.

If you use `localhost` as the Oracle Internet Directory hostname, you will not be able to start the Oracle WebLogic Managed Server hosting Oracle Directory Integration Platform.

6.6.1.2.3 You may Need to Restart the Directory Integration Platform After Running dipConfigurator Against Oracle Unified Directory

After running dipConfigurator against an Oracle Unified Directory (OUD) endpoint, if you are unable to open the Directory Integration Platform (DIP) UI in Enterprise Manger, stop and start DIP to fix the UI problem.

6.6.1.2.4 When Configuring a Profile, you may Need to Scroll Past a Section of Whitespace to View Mapping Rules

If you are using Internet Explorer to view the Directory Integration Platform (DIP) UI, you may need to scroll past a large blank space to see the profile mapping rules section. This issue is not known to affect other browsers.

6.6.1.2.5 Specify the Host Name and Port Number for an Oracle RAC Database

Issue

While configuring Oracle Directory Integration Platform for Oracle Internet Directory as the back-end directory, If you only specify the URL for the RAC database in the dbconfig file, then the following error messages appear:

```
Error occurred in configuring DataSource.  
Error occurred in rolling back DataSource changes.  
Error occurred in configuring DataSource.  
Error occurred during DIP configuration Step - DataSourceConfigurationStep.  
Error occurred in DIP configuration against OID as backend.
```

Workaround

To resolve this issue, specify the URL, DB_HOST , and DB_PORT for the Oracle RAC database in the dbconfig file.

6.6.1.3 Provisioning Issues

This section describes provisioning issues.

Topics

- [Modification may not Propagate Using Interface Protocol \(Inbound\) Version 3.0](#)
- [Provisioning from Oracle Internet Directory \(Back-End Directory\) to an Application May Fail](#)

6.6.1.3.1 Modification may not Propagate Using Interface Protocol (Inbound) Version 3.0

Issue

When an inbound provisioning profile with interface protocol version 3.0 is configured with Oracle Internet Directory (Back-End Directory), then modification fails to propagate.

Workaround

See <https://support.oracle.com/>.

6.6.1.3.2 Provisioning from Oracle Internet Directory (Back-End Directory) to an Application May Fail

Issue

If you delete a provisioning profile for Oracle Internet Directory, and recreate it with same name, then the provisioning from Oracle Internet Directory to an application may fail.

Workaround

To resolve this issue, create a provisioning profile and specify a new name.

For more information on creating a provisioning profile, see `About manageProvProfiles Command` in *Oracle Fusion Middleware Administering Oracle Directory Integration Platform*.

6.6.2 Oracle Identity Governance Framework

Known issues and workarounds for Oracle Identity Governance Framework include general issues and known issues related with Identity Governance Framework, Library Oracle Virtual Directory (LibOVD), and Identity Directory Service (IDS).

Topics

- [LibOVD and IDS Known Issues and Workarounds](#)
- [Oracle Identity Governance Framework Documentation Changes](#)

6.6.2.1 LibOVD and IDS Known Issues and Workarounds

Known issues related with LibOVD and IDS for release 12c (12.2.1.4.0).

Topics

- [libovdconfig.bat script Does Not Support a Space in File Path](#)
- [Users with Same Name in Multiple Identity Stores](#)

6.6.2.1.1 libovdconfig.bat script Does Not Support a Space in File Path

Issue

On the Microsoft Windows platform, the `libovdconfig.bat` script does not work if the path to your Java installation in the `-jreLoc` option includes a space character. For example, `C:\Program Files\Java\jdk1.7.0_21`.

Workaround

Provide the path to your Java installation in DOS 8.3 format.

For example:

```
-jreloc C:\Progra~1\Java\jdk1.7.0_21
```

6.6.2.1.2 Users with Same Name in Multiple Identity Stores

Issue

If a user name is present in more than one LDAP repository and the `virtualize` property is set to use LibOVD, then the data in only one of those repositories is returned when you query that user name with the Identity Directory API.

Workaround

Currently, there is no workaround for this issue.

6.6.2.2 Oracle Identity Governance Framework Documentation Changes

Identity Governance Framework introduced some behavioral changes in the 12c (12.2.1.3.0) release. This includes deprecated and desupported features and components.

Deprecated Chapters or Books

By deprecate, we mean that the feature is no longer being enhanced but is still supported for the full life of the 12c (12.2.1.3.0) release. By desupported, we mean that Oracle will no longer fix bugs related to that feature and may remove the code altogether. Where indicated, a deprecated feature may be desupported in a future major release.

- From 12c (12.2.1.3.0) release onward, the following Javadocs were deprecated:
 - *Java API Reference for Identity Governance Framework IDXUserRole*
 - *Java API Reference for Identity Governance Framework UserRole*

Oracle recommends the use of Identity Directory API. See *Java API Reference for Identity Governance Framework Identity Directory*.

- Deprecation of Using the ArisID API functionality from 12c (12.2.1.3.0) onward.

7

Oracle Internet Directory

This chapter describes issues associated with Oracle Internet Directory. It includes the following topics:

Topics

- [General Oracle Internet Directory Issues and Workarounds](#)
- [Oracle Internet Directory Configuration Issues and Workarounds](#)
- [Documentation Errata](#)

7.1 General Oracle Internet Directory Issues and Workarounds

This section describes general issues and workarounds. It includes the following topics:

- [\(Bug 25875893\) ODS Schema details not getting auto-filled using Schemas Option](#)
- [\(Bug 25814730\) OID12cPS3: Startup fails because low system shared memory on Solaris](#)
- [\(Bug 26564247\) PS3 OID: Help link on ODSM URL does not work](#)
- [\(Bug 19898973\) Substring Filter Not Supported for Collective Attributes](#)
- [\(Bug 14079791\) Search on rootDSE lastchangenumber Attribute Works For One Attribute At A Time](#)
- [\(Bug 17348090\) Search with Filter Containing AND Operation of Collective Attributes Not Supported](#)
- [\(Bug 17435510\) Oracle Database Requires Patch to Fix Purge Job Problems](#)
- [\(Bug 18695967\) ODSM Does Not Create Entry of Custom objectclass With Custom Mandatory Field](#)
- [\(Bug 18196425\) ODSM Adds Fake Entries to the Chained Container and Displays Duplicate Entries During Export](#)
- [\(Bug 19521548\) Oracle Internet Directory Upgrade from 10.1.4.3 to 11.1.1.9.0 Fails During Configuration on AIX](#)
- [\(Bug 12833947\) ODSM Problems in Internet Explorer 7](#)
- [\(Bug 16964666\) Cloned Oracle Internet Directory Instance Fails or Runs Slowly](#)
- [\(Bug 16498988\) Oracle Internet Directory Fails to Start on Solaris SPARC System Using ISM](#)
- [ODSM Browser Window Becomes Unusable](#)
- [\(Bug 9050432\) Bulkmodify Might Generate Errors](#)
- [\(Bug 8464130\) Turkish Dotted I Character is Not Handled Correctly](#)
- [\(Bug 10383377\) SQL of OPSS ldapsearch Might Take High CPU%](#)
- [Unable to set up OID replication in Oracle Enterprise Manager](#)

- Unable to estimate OID tuning and sizing needs in Oracle Enterprise Manager
- Unable to manage wallet for OID in Oracle Enterprise Manager
- In IBM AIX, OID Schema Load May Fail While Running the RCU Tool

7.1.1 (Bug 25875893) ODS Schema details not getting auto-filled using Schemas Option

Issue

When you are upgrading from 11g Release 1(11.1.1.9.0) in the Upgrade Assistant, if you select **All Schemas Used By a Domain** option, the schema details are not auto-populated in ODS Schemas screen.

Workaround

As a workaround, user has to manually provide ODS schema details such as Database Type, string etc.

7.1.2 (Bug 25814730) OID12cPS3: Startup fails because low system shared memory on Solaris

Issue

OID server startup fails on Solaris platforms due to low system shared memory.

Workaround

To fix this issue, you need to increase shared memory on Solaris system platform when DB is collocated. If you are installing only OID, then you need 1.5GB shared memory.

For example, as a root user, if you increase `project.max-shm-memory` to 12GB(from 8 GB), the OID instance is brought up.

```
prctl -n project.max-shm-memory -v 12gb -r -i project default
$ prctl -n project.max-shm-memory $$
process: 7423: bash
```

NAME	PRIVILEGE	VALUE	FLAG	ACTION	RECIPIENT
project.max-locked-memory					
	privileged	12.0GB	-	deny	-
	system	16.0EB	max	deny	-

7.1.3 (Bug 26564247)PS3 OID: Help link on ODSM URL does not work

Issue

When you login to ODSM and click on **Help**, help pages are not accessible.

Workaround

Though the help is not accessible via ODSM help, we can access the pages through OID document library. See Overview of Oracle Directory Service Manager

7.1.4 (Bug 19898973) Substring Filter Not Supported for Collective Attributes

Issue

Oracle Internet Directory does not provide support for substring filter for collective attributes. For instance, the following substring filter is not supported:

```
tenantguid=*234*
```

Workaround

However, the equality filter for instance, `tenantguid=12345` is supported for collective attributes.

7.1.5 (Bug 14079791) Search on rootDSE `lastchangenumber` Attribute Works For One Attribute At A Time

Issue

If you perform `ldapsearch` on rootDSE to fetch the `lastchangenumber` attribute along with other attributes, then `lastchangenumber` is not retrieved.

For instance, when you run the following command then `lastchangenumber` attribute is not retrieved:

```
ldapsearch -p port -D "cn=orcladmin" -w password -b "" -s base "objectclass=*"
changelog lastchangenumber
```

Workaround

The workaround for this problem is to perform `ldapsearch` on rootDSE only for `lastchangenumber` attribute as follows:

```
ldapsearch -p <port> -h <hostname> -b ' ' -s base '(objectclass=*)' lastchangenumber
lastchangenumber=4714
```

7.1.6 (Bug 17348090) Search with Filter Containing AND Operation of Collective Attributes Not Supported

Issue

When the search filter contains only collective attribute expressions, and an AND (&) operation is performed, then the server does not return expected results.

For example, if you run the following commands having collective attributes only, then if you run an AND operation, the server fails to return the desired result.

```
ldapsearch -b 'cn=u1,cn=collandbug' '&(description=coll1 desc)
(description=coll2 desc)' dn
```

Workaround

There is no workaround for this issue.

7.1.7 (Bug 17435510) Oracle Database Requires Patch to Fix Purge Job Problems

Issue

Some versions of Oracle Database, such as 10.1.0.5.0rec.jul10, 10.2.0.4.5.psu, 10.2.0.5.1psu, 11.1.0.7.4psu, and 11.2.0.1.2psu require a patch to fix Oracle Internet Directory purge job problems.

Without the patch, a purge jobs operation does not function properly, and these symptoms can occur:

- Oracle Internet Directory change logs do not get purged, and the purge log shows ORA-23421 errors.
- Executing change log purge jobs with `orclpurgenow` set to 1 hangs.

Workaround

If you are experiencing the preceding purge job problems with any of the listed Oracle Database versions, then apply the latest Patch Set Update (PSU) for your Oracle Database that fixes RDBMS bug 9294838. If so, apply the RDBMS patch for your database. You can apply the patch after you have installed Oracle Internet Directory.

7.1.8 (Bug 18196425) ODSM Adds Fake Entries to the Chained Container and Displays Duplicate Entries During Export

Issue

In ODSM, when you set up server chaining with Oracle Directory Server Enterprise Edition (ODSEE) as the backend the following issues emerge:

- If you create an entry through ODSM, then ODSM pretends to add the entry to the remote server through chaining. However, the entry does not get added on the remote server, ODSEE.
- If you add the preceding entry directly to the remote backend, and navigate to the parent entry through the Data Explorer tab, and then export to LDIF the same entry, you will see duplicate entries.

Workaround

There is no workaround for this issue.

7.1.9 (Bug 18695967) ODSM Does Not Create Entry of Custom objectclass With Custom Mandatory Field

Issue

On the Schema tab, create a custom attribute and a custom objectclass, and also select custom attribute as indexed. Now, on the Data Browser tab if you create an entry of `objectclass="custom object class"` then it does not allow you to enter the mandatory value in the custom attribute field.

Workaround

There is no workaround for this issue.

7.1.10 (Bug 19521548) Oracle Internet Directory Upgrade from 10.1.4.3 to 11.1.1.9.0 Fails During Configuration on AIX

Issue

This issue occurs when you upgrade Oracle Internet Directory from 10.1.4.3 to 11.1.1.9.0 on AIX. The upgrade fails during configuration with the following error:

```
javax.net.ssl.SSLException: Received fatal alert: illegal_parameter
```

Workaround

The workaround for this issue is to add the java option to disable ECDH ciphers while configuring Oracle Internet Directory 11.1.1.9.0, as shown in the following example:

```
ORACLE_HOME/config.sh -Doracle.ldap odi.sslsocketfactory.disable-ecc=true
```

7.1.11 (Bug 12833947) ODSM Problems in Internet Explorer 7

Issue

The ODSM interface might not appear as described in Internet Explorer 7.

For example, the **Logout** link might not be displayed.

Workaround

If this causes problems, upgrade to Internet Explorer 8 or 9 or use a different browser.

7.1.12 (Bug 16964666) Cloned Oracle Internet Directory Instance Fails or Runs Slowly

Issue

In a cloned Oracle Internet Directory environment, undesired host names can cause errors, failures, or performance degradation.

This problem can occur when you clone an Oracle Internet Directory instance and the cloned target instance gets undesired host names from the source instance. Some of these hosts might be outside of a firewall or otherwise inaccessible to the target instance.

The cloned Oracle Internet Directory instance assumes it is in a clustered environment and tries to access the undesired hosts for notifications and other changes. However, the cloned instance cannot access some of the hosts and subsequently fails, returns errors, or runs slowly.

For example, this problem can occur during the following operations for a cloned Oracle Internet Directory target instance:

- Running the `faovmdeploy.sh createTopology` command to create an Oracle Virtual Machine (VM)

- Deploying Enterprise Manager agents in different Oracle Virtual Machines

Workaround

To fix this problem, remove the undesired host names from the cloned Oracle Internet Directory instance, as follows:

1. Set the required environment variables. For example:

```
export ORACLE_INSTANCE=/u01/oid/oid_inst
export ORACLE_HOME=/u01/oid/oid_home
export PATH=$ORACLE_HOME/bin:$ORACLE_INSTANCE/bin:$PATH
export TNS_ADMIN=$ORACLE_INSTANCE/config
```

2. Connect to the Oracle Database and delete the entries with the undesired Oracle Internet Directory host names. For example, in the following queries, substitute the undesired host name for *sourceHostname*:

```
sqlplus ods@oiddb
delete from ods_shm where nodename like '%sourceHostname%';
delete from ods_shm_key where nodename like '%sourceHostname%';
delete from ods_guardian where nodename like '%sourceHostname%';
delete from ods_process_status where hostname like '%sourceHostname%';
commit;
```

3. Stop and then restart the cloned Oracle Internet Directory component. For example:

```
opmnctl stopproc ias-component=oid1
opmnctl startproc ias-component=oid1
```

4. Find the *cn* entries with the undesired Oracle Internet Directory host names. For example:

```
ldapsearch -h oid_host -p oid_port -D cn=orcladmin -w admin_password -b
"cn=subregistrysubentry" -s sub "objectclass=*" dn
cn=oid1_1_hostName1,cn=osldapd,cn=subregistrysubentry
cn=oid1_1_hostName2,cn=osldapd,cn=subregistrysubentry
cn=oid1_1_myhost.example.com,cn=osldapd,cn=subregistrysubentry
```

5. From the results in the previous step, remove the entries with the undesired host names. For example:

```
ldapdelete h oid_host -p oid_port -D cn=orcladmin -w admin_password
"cn=oid1_1_hostName1,cn=osldapd,cn=subregistrysubentry"
ldapdelete h oid_host -p oid_port -D cn=orcladmin -w admin_password
"cn=oid1_1_hostName2,cn=osldapd,cn=subregistrysubentry"
```

6. Verify that the undesired host names are removed. For example:

```
ldapsearch h oid_host -p oid_port -D cn=orcladmin -w admin_password -b
"cn=subregistrysubentry" -s sub "objectclass=*" dn
cn=oid1_1_myhost.example.com,cn=osldapd,cn=subregistrysubentry
```



See Also:

"Cloning Oracle Fusion Middleware" in the *Oracle Fusion Middleware Administrator's Guide*.

7.1.13 (Bug 16498988) Oracle Internet Directory Fails to Start on Solaris SPARC System Using ISM

Issue

Oracle Internet Directory fails to start on the following Oracle Solaris SPARC system using Intimate Shared Memory (ISM): 5.11 11.1 sun4v sparc sun4v

Workaround

As a workaround for this problem, set the following values, as shown in the next procedure:

- Set the total amount of operating system physical locked memory allowed (`project.max-locked-memory`) for Oracle Internet Directory to 2 GB or higher so that the value aligns with the supported page sizes. The `pagesize -a` command lists all the supported page sizes on Solaris systems.
- Set the `orclecachemaxsize` attribute to less than the `project.max-locked-memory` and ensure that the value aligns with the OS supported page sizes. For example, set the value to 256 MB.

In the following procedure, it is assumed that the Oracle Internet Directory services are managed by an operating system user named "oracle":

1. Log in to the Solaris SPARC system as the root user.
2. Check the project membership of the OID user.

If the OID user belongs to the default project:

- a. Create a new project with the value of maximum locked memory set to 2 GB or higher, and associate the OID user with the newly created project. On Solaris 10 and 11, project id 3 represents the default project. For example:

```
# id -p oracle
uid=2345(oracle) gid=529(dba) projid=3(default)
# projadd -p 150 -K "project.max-locked-memory=(priv,2G,deny)" oidmaxlkmem
# usermod -K project=oidmaxlkmem oracle
```

- b. Verify that the value for the resource control `project.max-locked-memory` was set to 2 GB, as expected. For example:

```
# su - oracle

$ id -p oracle
uid=2345(oracle) gid=529(dba) projid=150(oidmaxlkmem)

$ prctl -n project.max-locked-memory -i project 150
project: 150: oidmaxlkmem
NAME      PRIVILEGE      VALUE      FLAG      ACTION      RECIPIENT
project.max-locked-memory
  privileged      2.00GB      -      deny      -
  system          16.0EB      max      deny      -
```

If the OID user belongs to a non-default project:

- a. Modify the corresponding project to include the `project.max-locked-memory` resource control and set the value to 2 GB or higher. For example:

```
# id -p oracle
uid=2345(oracle) gid=529(dba) projid=125(oraproj)
```

```
# projmod -a -K "project.max-locked-memory=(priv,2G,deny)" oraproj
```

- b. Verify that the value for the resource control `project.max-locked-memory` was set to 2 GB, as expected. For example:

```
# projects -l oraproj
oraproj
      projid : 125
      comment: ""
      users  : (none)
      groups : (none)
      attribs: project.max-locked-memory=(priv,2147483648,deny)
              project.max-shm-memory=(priv,34359738368,deny)
```

```
# su - oracle
$ id -p
uid=2345(oracle) gid=529(dba) projid=125(oraproj)

$ prctl -n project.max-locked-memory -i project 125
project: 125: oraproj
NAME      PRIVILEGE      VALUE      FLAG      ACTION      RECIPIENT
project.max-locked-memory
          privileged    2.00GB     -        deny       -
          system      16.0EB     max      deny       -
```

3. Set the entry cache maximum size (`orclecachemaxsize` attribute) to a value that is less than the maximum locked memory size allowed by the OS and that aligns with the OS supported page sizes.

For example, using SQL*Plus, set the value to 256 MB:

```
sqlplus ods@oiddb
update ds_attrstore set attrval='256m'
  where entryid=940 and attrname='orclecachemaxsize';
commit;
```

4. Run the `config.sh` script to configure Oracle Internet Directory.

7.1.14 ODSM Browser Window Becomes Unusable

Issue

Under certain circumstances, after you launch ODSM from Fusion Middleware Control, then select a new ODSM task, the browser window might become unusable. For example, the window might refresh repeatedly, appear as a blank page, fail to accept user input, or display a null pointer error.

Workaround

As a workaround, go to the URL: `http://host:port/odsm`, where *host* and *port* specify the location where ODSM is running, for example, `http://myserver.example.com:7005/odsm`. You can then use the ODSM window to log in to a server.

7.1.15 (Bug 9050432) Bulkmodify Might Generate Errors

Issue

If Oracle Internet Directory is using Oracle Database 11g Release 1 (11.1.0.7.0), you might see `ORA-600` errors while performing `bulkmodify` operations.

Workaround

To correct this problem, apply the fixes for Bug 7019313 and Bug 7614692 to the Oracle Database.

7.1.16 (Bug 8464130) Turkish Dotted I Character is Not Handled Correctly

Issue

Due to a bug, Oracle Internet Directory cannot handle the upper-case dotted I character in the Turkish character set correctly. This can cause problems in ODSM and in command-line utilities.

Workaround

There is no workaround for this issue.

7.1.17 (Bug 10383377) SQL of OPSS ldapsearch Might Take High CPU%

Issue

The SQL of an OPSS one level `ldapsearch` operation, with filter "`orcljaznprincipal=value`" and required attributes, might take unreasonably high percentage DB CPU.

Workaround

If this search performance impacts the overall performance of the machine and other processes, you can resolve the issue by performing the following steps in the Oracle Database:

1. Log in to the Oracle Database as user `ODS` and execute the following SQL:

```
BEGIN
DBMS_STATS.GATHER_TABLE_STATS(OWNNAME=>'ODS',
                               TABNAME=>'CT_ORCLJAZNPRINCIPAL',
                               ESTIMATE_PERCENT=>DBMS_STATS.AUTO_SAMPLE_SIZE,
                               CASCADE=>TRUE);
END;
/
```

2. Flush the shared pool by using the `ALTER SYSTEM` statement, as described in the *Oracle Database SQL Language Reference*.

7.1.18 Unable to set up OID replication in Oracle Enterprise Manager

Issue

The wizard for setting up replication is no longer available in Oracle Enterprise Manager Fusion Middleware Control 12c Administration menu.

Workaround

You can use the command line tools for setting up LDAP-based replication. See Command-line Tools to Setup and Modify Replication in *Administering Oracle Internet Directory*.

7.1.19 Unable to estimate OID tuning and sizing needs in Oracle Enterprise Manager

Issue

The wizard for estimating sizing and tuning needs is no longer available in Oracle Enterprise Manager Fusion Middleware Control 12c Administration menu.

Workaround

For recommendations on sizing and tuning Oracle Internet Directory, see Tuning and Sizing Oracle Internet Directory in *Administering Oracle Internet Directory*.

7.1.20 Unable to manage wallet for OID in Oracle Enterprise Manager

Issue

The wallet option is no longer available in Oracle Enterprise Manager Fusion Middleware Control 12c Security menu.

Workaround

You can use the `orapki` tool or the keystore service to create a wallet, see Wallet Management and Keystore Management in *Administering Oracle Fusion Middleware*.

7.1.21 In IBM AIX, OID Schema Load May Fail While Running the RCU Tool

Issue

Impacted Platforms: IBM AIX

After successful installation of Oracle Internet Directory 12c on AIX operating system, the OID schema load using the RCU tool fails with the following error:

```
Error initializing SQLPlusEngine:
java.io.IOException: java.io.IOException: java.io.IOException:
java.io.IOException: java.io.IOException:
java.io.IOException: java.io.IOException: java.io.IOException:
java.io.IOException: java.io.IOException:
java.io.IOException: java.io.IOException: Error initializing sqlplus.
at
oracle.sysman.assistants.common.dbutil.sqlplus.SQLPlusEngine.setDefaultE
ngineSettings(SQLPlusEngine.java:2144)
at
oracle.sysman.assistants.common.dbutil.sqlplus.SQLPlusEngine.initialize(
SQLPlusEngine.java:352)
at
oracle.sysman.assistants.rcu.backend.action.SQLPlusAction.perform(SQLPlu
```

```
sAction.java:214)
at
oracle.sysman.assistants.rcu.backend.task.AbstractCompTask.execute(AbstractCompTask.java:255)
at
oracle.sysman.assistants.rcu.backend.task.ActualTask.run(TaskRunner.java:346)
at java.lang.Thread.run(Thread.java:785)
```

Oracle Internet Directory 12c is bundled with IBM AIX Database client 12.1.0.2.0 version. The issue is related to the IOCP API symbols dependency in IBM AIX Database 12.1.0.2 client library. Enable the IOCP module in the machine where OID server is installed to resolve this issue.

Workaround

On IBM AIX in IBM POWER Systems (64-Bit), enable I/O completion ports (IOCP) before initiating the install process. To enable IOCP ports, set the status of the IOCP port to Available.

To check if the IOCP module is enabled, run the `lsdev` command:

```
$ lsdev | grep iocp
```

By default, IOCP is set to `Defined`, and hence not enabled. The following sample output shows the IOCP status is set to `Defined`:

```
iocp0      Defined      I/O Completion Ports
```

To enable IOCP, set the IOCP status to `Available` using the following procedure:

1. Log in as `root` and run the following command:

```
# smitty iocp
```

2. Select **Change / Show Characteristics of I/O Completion Ports**.
3. Change the configured state at system restart from `Defined` to `Available`.
4. Run the `lsdev` command to confirm the IOCP status is set to `Available`:

```
$ lsdev | grep iocp
iocp0      Available      I/O Completion Ports
```

5. Perform a system restart to make the changes permanent.

7.2 Oracle Internet Directory Configuration Issues and Workarounds

This section describes configuration issues and their workarounds. It includes the following topics:

- [Accept TLS Protocol for SSL support](#)

7.2.1 Accept TLS Protocol for SSL support

Issue

While configuring Oracle Internet Directory in SSL mode, if SSLv3 is disabled and you try to enable the TLS mode only, then the Oracle Internet Directory configuration hangs. This happens when `orclsslcipher suite` attribute is populated with unsupported cipher suites.

Workaround

The workaround is to remove the unsupported cipher suite from the `orclsslcipher suite` attribute. For more information about the supported cipher suite list, see "Supported Cipher Suites" in Oracle Fusion Middleware Administrator's Guide for Oracle Internet Directory.

In addition, you must completely disable SSLv3 and TLS 1.0, and enable TLS for configuring Oracle Internet Directory in SSL mode. For enabling only TLS (and disabling SSLv3), you need to modify the value of `orclcryptoversion` attribute to 24. This value refers to TLS 1.1 and TLS 1.2. For more information, see "Supported Protocol Versions" in *Oracle Fusion Middleware Administrator's Guide for Oracle Internet Directory*.

Run the `ldapmodify` command to update the value of `orclcryptoversion` to 24 as follows:

```
ldapmodify -D "cn=orcladmin" -q -p portNum -h hostname -f ldifFile
```

Here `ldifFile` contains:

```
dn: cn=oid1,cn=osdldapd,cn=subconfigsubentry
changetype: modify
replace: orclcryptoversion
orclcryptoversion: 24
```

7.2.2 Warning When Creating a Remote Oracle Internet Directory Instance

Issue

When you create an Oracle Internet Directory instance targeted to a remote node, on first machine, the following warning is displayed in the Administration Server logs:

```
<Warning> <Management> <BEA-141296> <Unable to contact Node Manager
on "oidhost2">.
Activation for system component "oid2" is deferred until "oidhost2"
becomes available.
java.lang.RuntimeException: Node Manager is not available on machine
oidhost2
```

Workaround

This warning can be ignored.

7.3 Documentation Errata

This section describes documentation errata. It includes the following topics:

- [Replication Instructions in Tutorial for Identity Management are Incomplete](#)

7.3.1 Replication Instructions in Tutorial for Identity Management are Incomplete

In the *Tutorial for Identity Management*, which is linked from *Getting Started with Oracle Identity Management*, *Setting up Oracle Internet Directory Replication*, is missing important information.

Specifically, the instructions do not work unless the new consumer node is empty. If the new consumer node has pre-loaded data, then various conflict resolution and invalid attribute name format messages will appear in the replication logs.

For more information, see *Rules for Configuring LDAP-Based Replication* in the *Oracle Fusion Middleware Administering Oracle Internet Directory*.

8

Oracle Identity Management Integration

Notes for this release include information about supported integrations.

- [Features Not Supported in Release 12.2.1.4.0](#)
- [Features Not Supported in Release 12.2.1.4.0 \(BP02\)](#)
- [Oracle Identity Management Integration Issues and Workarounds](#)

8.1 Features Not Supported in Release 12.2.1.4.0

Oracle Identity Management does not support the following integration features in this release:

- Upgrading OAM-OIG integrated deployment is not supported in 12c (12.2.1.4.0). OAM-OIG integration is supported only for fresh installations of OAM and OIG.
- For all directory types (OUD, OID, and AD) the following reconciliations are not supported:
 - User delete full and incremental reconciliation.
 - Reconciliation of deleted roles that have user members or child roles.
- For Active Directory type, Role hierarchy full and incremental reconciliation is not supported.
- If LDAP directory is used as a target in customer's setup, you cannot use it for OAM-OIG integration. It is not supported out-of-box and must be handled as one-off.
- Reservation container is not supported in a connector-based OAM-OIG integration.

8.2 Features Not Supported in Release 12.2.1.4.0 (BP02)

Oracle Identity Management does not support the following integration features in this release after applying the OAM bundle patch 12.2.1.4.200327 or the OIM bundle patch 12.2.1.4.200505:

- If LDAP directory is used as a target in customer's setup, you cannot use it for OAM-OIG integration. It is not supported out-of-box and must be handled as one-off.
- Reservation container is not supported in a connector-based OAM-OIG integration.

8.3 Oracle Identity Management Integration Issues and Workarounds

Use OIG as a primary source for managing Users and Roles.

Perform deletion of users, or role related changes such as memberships and hierarchy in OIG and not directly against the directory.

The following are the known limitations for the OIG-OAM integration:

- Group names must be unique in target LDAP for SSO-integrated setup.
- Orchestration-Provisioning Compensation will not be performed by any of the LDAP account, role, user membership, and role hierarchy post process handlers.