Oracle® Enterprise Performance Management System

Readme

Release 11.2.16.0.000

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Oracle Enterprise Performance Management System Release 11.2.16.0.000 Readme

Purpose

This document includes important, late-breaking information about this release of Oracle Enterprise Performance Management System. Review this Readme thoroughly before installing EPM System.

Overview

This Quarterly Release Update is distributed as an OPatch comprising OPatches for individual EPM system components. Release 11.2.16 is a cumulative update and includes all updates from Release 11.2.15. This release update can be applied on top of Releases 11.2.15. See OPatch Dependencies and Details for the list of OPatches for individual EPM system components.

Oracle recommends that you read the 11.2.16 Readme in its entirety before applying the patch to Release 11.2.16.

Release 11.2.16 (Release 11.2, Update 16) includes the following deliverables:

- ```
  Oracle Enterprise Performance Management System - 11.2.16.0.000 for
  Microsoft Windows x64 (64-bit)
  ```

- ```
  Oracle Enterprise Performance Management System - 11.2.16.0.000 for
  Linux x86-64
  ```

- ```
  Oracle Enterprise Performance Management System - Client Installers
  11.2.16.0.000 for Microsoft Windows x64 (64-bit)
  ```

- ```
  Oracle Data Relationship Management 11.2.16.0.000 for Microsoft
  Windows (64 bit)
  ```

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> **Note:**
>
> Release 11.2.16 will not contain an Installation and Configuration guide. See Oracle Enterprise Performance Management System Installation and Configuration Guide for Release 11.2.15 for more information.

EPM System Update and Upgrade Policies

See EPM System Update and Upgrade Policies for more information on update and upgrade policies for Oracle Enterprise Performance Management System.

Expiration of Support for Profitability and Cost Management Standard Applications (End of Life)

Beginning with Release 11.2.16, the Standard Applications will not be available or accessible in Oracle Hyperion Profitability and Cost Management.

See My Oracle Support (MOS) Article Doc ID 2945279.1 - Hyperion Profitability and Cost Management: Standard Applications Statement of Direction for important information on Hyperion Profitability and Cost Management Standard Applications.

Standard Profitability applications should now be migrated to the Management Ledger application type. See the MOS (My Oracle Support) article - Doc ID 2938476.1 - HPCM Transitioning Standard Applications to Management Ledger for details on the migration process .

New Features

This section includes new features in this release. To review the list of new features from earlier releases, use the Cumulative Feature Overview tool. This tool enables you to identify the products you own and your current implementation release. With a single click, the tool quickly produces a customized report of new feature descriptions. This tool is available here: https://apexapps.oracle.com/pls/apex/f?p=20620:1:0

Release 11.2.16 includes the following new features:

- Certification of SQL Server 2022.
- Java 8 Update `391`.
- WebLogic Patch Set Update `12.2.1.4.231115`.
- Application Data Framework (ADF) Bundle Patch `12.2.1.4.230823`.
- Oracle HTTP Server (OHS) 19c Bundle Patch `12.2.1.4.230922`.
- There are no Oracle Data Integrator (ODI) Patches in Release 11.2.16.
- For all the new features in Release 11.2.8 - 11.2.15, see New Features: 11.2.8 - 11.2.15.

> **✎ Note:**
>
> The auditing of internal authentication within the EPM application has been removed, and now only the auditing of external authentication occurs when the user logs in to the EPM application using their credentials.

Supported Platforms

Information about system requirements, browser support, supported languages and supported platforms for Oracle Enterprise Performance Management System products is available in spreadsheet format in the *Oracle Enterprise Performance Management System Certification Matrix*. This matrix is posted on the Supported Platforms Matrices page on Oracle Technology Network (OTN):

Oracle Enterprise Performance Management System - Certification Matrix.

Supported Paths

Oracle recommends that you apply the set of Oracle Enterprise Performance Management System Release 11.2.16 product Opatches together, using the `ApplyUpdate` script. If you are updating from an earlier release, you must first update to Release 11.2.15.

- EPM System updates are released on a quarterly basis, generally in January, April, July, and October.

- Updates include changes for all embedded components, such as WebLogic and Java, as needed.

- Updates are applied in place.

- Any customer patches that were released are rolled into the next update.

- Updates are expected to be easy to apply and have minimum impact for you to absorb.

Installing EPM for the first time

Before you install and configure, review the installation prerequisites and requirements listed in Installation Prerequisites and Requirements.

1. *Install Release 11.2.15*: See Installing EPM System Products in *Oracle Enterprise Performance Management System Installation and Configuration Guide* for instructions.

2. *Apply Update to Release 11.2.16*: See Applying Release 11.2.16.

3. *Configure Release 11.2.16*: See Configuring EPM System After Applying an Update for more details.

Updating from Release 11.2.x

Before you apply the update to Release 11.2.16, review the prerequisites and requirements listed in Applying an Update Prerequisite Tasks.

1. **Updating from 11.2.8 to 11.2.15**:

    a. *Apply Update from Release 11.2.8 to Release 11.2.12 or 11.2.13 or 11.2.14*: See Applying an Update to EPM System Products.

    b. *Install Update to Release 11.2.15*: See Installing EPM System Products Using Apply Update.

    c. *Apply Update to Release 11.2.16*: See Applying Release 11.2.16.

    d. *Configure Release 11.2.16*: See Configuring EPM System After Applying an Update for more details.

2. **Updating to Release 11.2.15 from Releases prior to 11.2.8**

    a. *Install Update to Release 11.2.8*: See Installing EPM System Products Using Apply Update.

    b. *Apply Update from Release 11.2.8 to Release 11.2.12 or 11.2.13 or 11.2.14*: See Applying an Update to EPM System Products.

    c. *Install Update to Release 11.2.15*: See Installing EPM System Products Using Apply Update.

    d. *Apply Update to Release 11.2.16*: See Applying Release 11.2.16.

    e. *Configure Release 11.2.16*: See Configuring EPM System After Applying an Update for more details.

Upgrading from Release 11.1.2.x

You can upgrade Oracle Enterprise Performance Management System Release 11.1.2.x products to Release 11.2.15.

1. *Upgrade from 11.1.2.x to Release 11.2.8*: See Upgrading EPM System. in *Oracle Enterprise Performance Management System Installation and Configuration Guide* for instructions.

2. *Apply Update from Release 11.2.8 to Release 11.2.12 or 11.2.13 or 11.2.14*: See Applying an Update to EPM System Products.

3. *Install Update to Release 11.2.15*: See Installing EPM System Products Using Apply Update.

4. *Apply Update to Release 11.2.16*: See Applying Release 11.2.16.

5. *Configure Release 11.2.16*: See Configuring EPM System After Applying an Update for more details.

> **Note:**
>
> Oracle Hyperion Enterprise Performance Management System Release Update 11.2.15 now supports application and artifact migration from Release 11.2.12, 11.2.13, and 11.2.14. See Upgrading EPM System (from 11.2.12+ to 11.2.15) using Out of Place Procedure for more information.

Applying and Rolling Back Release 11.2.16

Prerequisites

1. Disable the anti-virus software before you apply Release 11.2.16 to your environment. Ensure that you have the anti-virus software disabled for the entire duration of the update process. Anti-virus software can be re-enabled when the update is complete.

2. To identify any EPM patch conflicts before applying the quarterly update, enter the following command:

   a. On **Windows**:

   > **Note:**
   >
   > The following script must only be run with Administrator privileges.

   ```
   .\ApplyUpdate.ps1 <MIDDLEWARE_HOME> -verify
   ```

   b. On **Linux**: `./ApplyUpdate.sh <ORACLE_HOME> -verify`

3. Stop services:

   • Oracle Enterprise Performance Management System services

   • Node Manager Windows Service and Oracle HTTP Server, if you are using Oracle HTTP Server as your web server

   • WebLogic Administration Server

   For information about stopping services, see Starting and Stopping EPM System Products in *Enterprise Performance Management System Installation and Configuration Guide*.

4. Back up these folders:

   • EPM Oracle Home. The default EPM Oracle home location is *MIDDLEWARE_HOME*/EPMSystem11R1.

   • EPM Oracle Instance. The default location for the EPM Oracle Instance is *MIDDLEWARE_HOME*/user_projects/epmsystem1.

   You can delete these folders after you apply the update and validate the installation.

5. Back up the keystores from:

- `MIDDLEWARE_HOME\jdk\jre\lib\security\cacerts`

- `MIDDLEWARE_HOME\EPMSystem11R1\common\JRE\Sun\1.8.0\lib\security\cacerts`

> **Note:**
>
> A new version of JDK is included with every 11.2.x Release update. During this update process, existing JDK folders are removed and replaced with newer versions. After applying the Release update, you must restore the backed up keystores (cacerts).
>
> To import the keystores, run the following command:
>
> ```
> keytool -import -alias alias_name -keystore
> <path_to_keystore_file> -file <path_to_certificate_file> -
> storepass keystore_password -trustcacerts
> ```
>
> Once the keystores are imported, restart all the EPM services for the changes to take effect.
> See Configuring SSL-Enabled External User Directories for more information.

Applying Release 11.2.16

Release 11.2.16 applies a set of OPatches for all EPM system components on your environment. Oracle recommends that you apply the entire set using the `ApplyUpdate` utility.

Ensure that you meet all the prerequisites before you apply Oracle Enterprise Performance Management System Release 11.2.16 to your environment. See Prerequisites for more details.

From the Oracle Software Delivery Cloud (http://edelivery.oracle.com/), select the products that you licensed and add them to the cart. All required zip files are included. Select your platform, and download the files into `/download_location`.

For the list of deliverables in Release 11.2.16 (Release 11.2, Update 16), see Overview:

Unzip the files into `/download_location`.

- Use a zip file extraction program that can handle long path names, such as 7-Zip.

- If you are prompted that any files or common components already exist, click **Yes** to overwrite the files.

- Unzip to a directory with no spaces in the name.

1. To Apply Release 11.2.16 (Release 11.2, Update 16):

a. On **Windows**: Launch **Windows PowerShell** as an Administrator from the **Start** menu. Navigate to the directory where you extracted the ZIP files and run the following script. For example, navigate to `11.2.16.0-Update-Win` directory and run the following script.

> **Note:**
>
> - The following script must only be run with Administrator privileges.
> - Before running the following script, ensure that you do not extract any additional OPatch ZIP folders or OPatch ZIP files under `11.2.16.0-Update-Win` directory (which contains the `ApplyUpdate.ps1` script) in addition to the ZIP files/folders that are already present.

```
.\ApplyUpdate.ps1 <MIDDLEWARE_HOME>
```

b. On **Linux**: Navigate to the directory where you extracted the ZIP files. Run the following script from the directory where you extracted the ZIP file. For example, navigate to `11.2.16.0-Update-Linux` folder and run the following script:

> **Note:**
>
> Before running the following script, ensure that you do not extract any additional OPatch ZIP folders or OPatch ZIP files under `11.2.16.0-Update-Linux` directory (which contains the `ApplyUpdate.sh` script) in addition to the ZIP files/folders that are already present.

```
./ApplyUpdate.sh <MIDDLEWARE_HOME>
```

2. Redeploy Oracle Hyperion foundation services after applying Release 11.2.16.

> **Note:**
>
> Redeployment is required only in the administrator server node. It is not required in other distributed environments.

3. You must now start all the services. For information about starting services, see Starting and Stopping EPM System Products in *Enterprise Performance Management System Installation and Configuration Guide*.

Rolling Back Release 11.2.16

Ensure that you meet all the prerequisites before you proceed with the rollback feature.

The rollback feature allows you to rollback all the OPatches except the following:

- JDK OPatches
- Weblogic CPU OPatches
- Oracle Virtual Directory (OVD) OPatch
- Oracle HTTP Server (OHS) OPatch
- Fusion Middleware (FMW) OPatches
    - FMW.ADF
    - FMW.EM
- ODBC OPatch
- Oracle Hyperion Shared Services OPatch
- Oracle Hyperion Infrastructure OPatch

1. To Rollback the update:

    a. On **Windows**: Launch **Windows PowerShell** from the **Start** menu as an Administrator and run the following script from the directory where you extracted the ZIP file. For example, navigate to `11.2.16.0-Update-Win` directory and run the following script:

    ```
    .\RollbackUpdate.ps1 <MIDDLEWARE_HOME>
    ```

    b. On **Linux**: Navigate to the directory where you extracted the ZIP files. Run the following script from the directory where you extracted the ZIP file. For example, navigate to `11.2.16.0-Update-Linux` folder and run the following script:

    ```
    ./RollbackUpdate.sh <MIDDLEWARE_HOME>
    ```

2. You must now start all the services. For information about starting services, see Starting and Stopping EPM System Products in *Enterprise Performance Management System Installation and Configuration Guide* .

Verifying Status

You can check the status of the ApplyUpdate or Rollback script by following one of the steps below:

1. Open Oracle Enterprise Management System Workspace, click **Help** > **About Oracle Enterprise Performance Management System Workspace, Fusion Edition** > **Show Details**.

2. Check the inventory for Oracle Enterprise Performance Management (EPM) OPatches. To check the inventory for EPM OPatches, enter the following command in one line:
Before running this command, ensure that you change the directory from the command line to : `<MIDDLEWARE_HOME>\EPMSystem11R1\OPatch`

- On **Windows**: `opatch lsinventory -oh <MIDDLEWARE_HOME>\EPMSystem11R1 | findstr /i /L /c:"Patch"`

- On **Linux**: `opatch lsinventory -oh <MIDDLEWARE_HOME>\EPMSystem11R1 | grep "Patch[ ][ ]"`

```
Sample Output:
D:\Oracle\Middleware\EPMSystem11R1\OPatch lsinventory -oh
D:\Oracle\Middleware\EPMSystem11R1\OPatch | findstr /i /L /c:"Patch  "
Patch  33727616     : applied on Sun Feb 20 23:39:56 PST 2022
Patch  33678607     : applied on Sun Feb 20 23:36:01 PST 2022
Patch  33093748     : applied on Sun Feb 20 23:35:18 PST 2022
Patch  32720458     : applied on Sun Feb 20 23:34:51 PST 2022
```

3. Check the inventory for Oracle Fusion Middleware (FMW) OPatches. To check the inventory for FMW Opatches, enter the following command in one line:
Before running this command, ensure that you change the directory from the command line to : `<MIDDLEWARE_HOME>\OPatch`

- On **Windows**: `opatch lsinventory -oh <MIDDLEWARE_HOME> | findstr /i /L /c:"Patch"`

- On **Linux**: `opatch lsinventory -oh <MIDDLEWARE_HOME> | grep "Patch[ ][ ]"`

```
Sample Output:
Oracle Interim Patch Installer version 13.9.4.2.7
OPatch version    : 13.9.4.2.7
OPatch detects the Middleware Home as "D:\Oracle\Middleware"
Patch  33727616     : applied on Tue Apr 12 19:02:01 EDT 2022
Unique Patch ID:  24578917
Patch description:  "WLS PATCH SET UPDATE 12.2.1.4.220105"
Patch  33678607     : applied on Tue Apr 12 18:59:04 EDT 2022
Unique Patch ID:  24558585
Patch description:  "RDA release 20.4-20211126 for OFM SPB"
Patch  33093748     : applied on Tue Apr 12 18:58:36 EDT 2022
Unique Patch ID:  24325771
Patch description:  "One-off"
Patch  32720458     : applied on Tue Apr 12 18:58:19 EDT 2022
Unique Patch ID:  24558359
Patch description:  "JDBC 19.3.0.0 FOR CPUJAN2022 (WLS 12.2.1.4, WLS 14.1.1)"
Patch  1221412      : applied on Tue Apr 12 18:57:54 EDT 2022
Unique Patch ID:  24516660
Patch description:  "Bundle patch for Oracle Coherence Version 12.2.1.4.12"
Patch  33697227     : applied on Tue Apr 12 18:54:58 EDT 2022
Unique Patch ID:  24560598
OPatch succeeded.
```

4. Check the inventory for Oracle HTTP Server (OHS) OPatches. To check the inventory for OHS Opatches, enter the following command in one line:
`C:\Oracle\Middleware\ohs\OPatch>opatch.bat lsinventory -oh C:\Oracle\Middleware\ohs | findstr /i /L /c:"Patch"`

The log file details and location of the files are described in the table below:

Table 1-1   Log Names and Location

Script	Summary Log File Name	Detail Log File Name	Location
ApplyUpdate	`ApplyUpdateSummary.log`	`ApplyUpdateDetail-<Day>.<DD>.<MM>.<YYYY>-<HH>.<MI>.<SS>.log`	`<EPM_ORACLE_HOME>/diagnostics/logs/install/`
RollbackUpdate	`RollbackUpdateSummary.log`	`RollbackUpdateDetail-<Day>.<DD>.<MM>.<YYYY>-<HH>.<MI>.<SS>.log`	`<EPM_ORACLE_HOME>/diagnostics/logs/install/`

Summary log contains the status of each product OPatch and detail log contains the detailed information about the status of each OPatch applied along with the OPatch output. For more details on OPatches Common Error Messages, tips and troubleshooting, see Tips and Troubleshooting for more details.

Optional: Applying Individual OPatches

Oracle recommends that you apply the set of Oracle Enterprise Performance Management System Release 11.2.16 product Opatches together, using the `ApplyUpdate` script. See Applying Release 11.2.16 for more details.

However, you can also apply selected OPatches based on your operating system environment:

> **Note:**
>
> It is recommended to take a back up of the original `configure<OS>.properties` file before you edit the properties file for the desired OPatches.

1. From the directory where you downloaded and extracted the `11.2.16.0-Update-<OS>` folder, open `configureWindows.properties` or `configureLinux.properties` file based on your operating system.

2. In the `configure<OS>.properties` file, include only those products that you want to apply. For example, if you want to apply Oracle Hyperion Calculation Manager OPatch, ensure that the entry `CALC=35975910` is present in the `configure<OS>.properties` file. The list of individual products and their OPatch IDs in the `configure<OS>.properties` file are listed below:

- `CALC=35975910`
- `FCM=35977782`
- `FDMEE=36037639`
- `FR=35969500`
- `HFM=35801686`
- `HP=36036321`
- `HPCM=35973301`
- `HSS=36016278`
- `Infra=35983616`
- `TAXPROV=35977741`
- `Workspace=35980876`

For more details on individual EPM system products, OPatch ZIP file names and OPatch IDs, see OPatch Dependencies and Details.

3. Run the `ApplyUpdate` Script to apply the individual OPatch:

   - On **Windows**:

      > **✏ Note:**
      >
      > The following script must only be run with Administrator privileges.

      ```
      ApplyUpdate.ps1 <MIDDLEWARE_HOME>
      ```

   - On **Linux**:

      ```
      ApplyUpdate.sh <MIDDLEWARE_HOME>
      ```

      > **✏ Note:**
      >
      > For additional information, refer to your individual OPatch Readme Guide.

OPatch Dependencies and Details

The following table lists the set of OPatches and dependencies for individual EPM system components:

Table 1-2   OPatch Details

Product	Product OPatch ID	OPatch Dependency - Component	OPatch Dependency - ID
Oracle Hyperion Calculation Manager (CALC)	35975910	NA	NA
Oracle Hyperion Financial Data Quality Management Enterprise Edition (FDMEE)	36037639	NA	NA
Oracle Hyperion Financial Close Management (FCM) **Note**: Oracle Hyperion Tax Governance is included in this OPatch.	35977782	NA	NA
Oracle Hyperion Financial Management (HFM)	35801686	**ADF**	**33697227**
		WebLogic	**33751264**
Oracle Hyperion Financial Reporting (FR)	35969500	NA	NA
Oracle Hyperion Planning (HP)	36036321	NA	NA
Oracle Hyperion Profitability and Cost Management (HPCM)	35973301	NA	NA
Oracle Hyperion Shared Services (HSS)	36016278	**Oracle Hyperion Infrastructure (Infra)**	**35983616**
Oracle Hyperion Infrastructure (Infra)	35983616	**Oracle Hyperion Shared Services (HSS)**	**36016278**
Oracle Hyperion Tax Provision (TAXPROV)	35977741	NA	NA
Oracle Hyperion Enterprise Performance Management Workspace (Workspace)	35980876	NA	NA

Error Correction Policy

This topic outlines the error correction policies for Oracle Enterprise Performance Management (EPM) Release 11.2.x.

For information on the **Oracle Enterprise Performance Management Error Correction Policy**, visit these My Oracle Support articles:

- Oracle Enterprise Performance Management (EPM) 11.2 Software Error Correction Policy [Doc ID 2749950.1]

- Oracle Enterprise Performance Management (EPM) Release 11.2 Grace Periods for Error Correction [Doc ID 2627593.1]

Defects Fixed

Release 11.2.16 resolves the following defects:

Table 1-3   Defects Fixed in 11.2.16

Defect Number	Description
Oracle Hyperion Financial Management	
34385239	Journal post is not possible with the ICPTOP member.
34781911	HFM 11.2.10 Metadata extract displays Version 11.2.9.
34808954	Wildcard search in data form add member selection does not work.
35680968	Process control emails are not getting triggered when using custom roles on native groups.
35827639	`Error: <DOC_NAME> PDF Could not be found` when opened through tasklist.
35904675	Assign Access Control issue "This content is blocked. Contact the site owner to fix the issue".
35909593	HFM Metadata scan hanging.
35935327	"Enabled Only For Admin" works on only one server.
36038466	In SmartView, Parent Member is lost when Ancestor position is set to bottom and zoom in all level is selected.
Oracle Hyperion Infrastructure Technology	
34687912	Essbase 21C is not able to connect to HSS when Delegated Mode is enabled.
34796521	Unable to extract HFM artifacts with LCM, `EPMLCM-66116: AN ERROR OCCURRED WRITING METADATA FILE CONTENT TO LCM FILE SYSTEM`.
Oracle Hyperion Planning	
35570937	Editing substitution variable with non-ASCII characters in the name may result in error.
35577200	When limits are defined for Runtimeprompt, member search may not work when launching rule set from SmartView.
35333584	Composite data form may have default page members when it is opened in SmartView using **Open in SmartView** option from Planning web.
30914292	When users access Manage Approvals from SmartView, all the Entity members may be listed.
33621095	Accessibility issues with My TaskList page.

Table 1-3   (Cont.) Defects Fixed in 11.2.16

Defect Number	Description
35363902	Accessibility issues with data form.
35909692	Accessibility issues with business rule execution associated with data form.
Oracle Hyperion Profitability and Cost Management	
35984614	Clustered Profitability and Cost Management environments, including the Standard Deployment, are supported in this patch. Unlike previous releases, there is no need to request a separate patch to enable clustered deployment. Clustered implementation is supported out of the box and no manual steps required.
32558515	Enhancement: Custom calculation rule details are now included in the Program Documentation Report.
Oracle Hyperion Workspace	
35806568	Explorer file downloads with a space in name appear as a plus.

See Defects Fixed: 11.2.0 - 11.2.15 for the list of cumulative defects fixed starting from Release 11.2.0.

Known Issues

Release 11.2.16 includes the following known issues.

Table 1-4   Known Issues in 11.2.16

Defect Number	Description
Oracle Hyperion Profitability and Cost Management	
35659280	Standard Profitability Applications are no longer supported, and will not be accessible in this patch. If you installed this patch but are still using Standard applications, you should roll back this patch. Your standard applications will become accessible again after rolling back this patch and then reregistering each application. To reregister: 1) In the Profitability Applications console, select the Standard application that you want to continue using, then select **Re-Register** from the **Actions** menu. 2) In the Workspace Navigator, select **Applications** -> **Refresh**. You will now see the reregistered application in the **Applications** -> Profitability list.
36124578	Beginning with Release 11.2.16, the REST Sample Client can only be run on the server where Profitability and Cost Management is installed. See the *Oracle Hyperion Profitability and Cost Management REST API Developer's Guide* for details.

See Known Issues: 11.2.0 - 11.2.15 for the list of cumulative known issues starting from Release 11.2.0.

Tips and Troubleshooting

Tips and troubleshooting topics are listed in the Installation and Configuration Troubleshooting Guide.

All Oracle Enterprise Performance Management System guides are available in the library on the Oracle Help Center: https://docs.oracle.com/en/applications/?tab=8.

Documentation Updates

Accessing EPM System Product Documentation

Find the latest Oracle Enterprise Performance Management System product guides in the Oracle Help Center (https://docs.oracle.com/en/). To access documents to view or download, click the Applications icon. In the Applications Documentation window, select the Enterprise Performance Management tab, and then look for your release in the Enterprise Performance Management list.

You can also find deployment-related documentation on the Oracle Technology Network (http://www.oracle.com/technetwork/index.html) and on the Oracle Software Delivery Cloud website (http://edelivery.oracle.com/EPD/WelcomePage/get_form).

Appendix

- New Features: 11.2.8 - 11.2.15
- Defects Fixed: 11.2.0 - 11.2.15
- Known issues: 11.2.0 - 11.2.15

New Features: 11.2.8 - 11.2.15

This section includes the list of cumulative new features starting from Release 11.2.8. You can also review the list of new features from earlier releases, use the Cumulative Feature Overview tool. This tool enables you to identify the products you own and your current implementation release. With a single click, the tool quickly produces a customized report of new feature descriptions. This tool is available here:https://apexapps.oracle.com/pls/apex/f?p=20620:1:0

Release 11.2.15 New Features

Release 11.2.14 New Features

Release 11.2.13 New Features

Release 11.2.12 New Features

Release 11.2.11 New Features

Release 11.2.10 New Features

Release 11.2.9 New Features

Defects Fixed: 11.2.0 - 11.2.15

This section includes the list of cumulative defects fixed starting from Release 11.2.0.

Table 1-5   Defects Fixed: 11.2.0 - 11.2.15

Release	Link to Defects Fixed
11.2.15	Defects Fixed in 11.2.15
11.2.14	Defects Fixed in 11.2.14
11.2.13	Defects Fixed in 11.2.13
11.2.12	Defects Fixed in 11.2.12
11.2.11	Defects Fixed in 11.2.11
11.2.10	Defects Fixed in 11.2.10
11.2.9	Defects Fixed in 11.2.9
11.2.8	Defects Fixed in 11.2.8
11.2.7	Defects Fixed in 11.2.7
11.2.6	Defects Fixed in 11.2.6
11.2.5	Defects Fixed in 11.2.5
11.2.4	Defects Fixed in 11.2.4
11.2.3	Defects Fixed in 11.2.3
11.2.2	Defects Fixed in 11.2.2
11.2.1	Defects Fixed in 11.2.1
11.2.0	NA

Known Issues: 11.2.0 - 11.2.15

This section includes the list of cumulative known issues starting from Release 11.2.0.

Table 1-6   Known Issues: 11.2.0 - 11.2.15

Release	Link to Known Issues
11.2.15	Known Issues: 11.2.15
11.2.14	Known Issues: 11.2.14
11.2.13	Known Issues: 11.2.13
11.2.12	Known Issues: 11.2.12
11.2.11	Known Issues: 11.2.11
11.2.10	Known Issues: 11.2.10
11.2.9	NA
11.2.8	Known Issues: 11.2.8
11.2.7	Known Issues: 11.2.7

Table 1-6   (Cont.) Known Issues: 11.2.0 - 11.2.15

Release	Link to Known Issues
11.2.6	Known Issues: 11.2.6
11.2.5	Known Issues: 11.2.5
11.2.4	Known Issues: 11.2.4
11.2.3	Known Issues: 11.2.3
11.2.2	Known Issues: 11.2.2
11.2.1	Known Issues: 11.2.1
11.2.0	Known Issues: 11.2.0

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