Oracle® Managed Cloud Self-Service Platform

User's Guide

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Contents

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Introduction

The following topics are covered in this section:

About Oracle Managed Cloud Self-Service Platform

Oracle Managed Cloud Self-Service Platform initiative enables a modernized experience by offering Self Service capabilities to MCS customers at OCI. The Self-Service Platform delivers capabilities and automation used by MCS Operations directly for use by the customer. The vision is to help improve service agility while delivering a modernized managed application lifecycle experience.

Dashboard

The Dashboard tab provides a short description of the product, together with release notes covering the new features and site alerts.

By default, a customer will be displayed. Click the drop-down to select the customer.

Help

The Help includes links to the Oracle Managed Cloud Self-Service Platform documentation.

Avatar/User

The Avatar/User includes Preferences and Log Out option. The Preferences contain General Preferences, and CEMLIs (Preferences, Products, Customers). You can manage your preferences, custom products, and customers from here.

CEMLI

Oracle Managed Cloud Self-Service Platform provides a range of tools and services designed to manage CEMLIs (Configurations, Extensions, Modifications, Localizations, and Integrations) associated with your Oracle E-Business Suite environment. Manage the full CEMLI lifecycle using this portal, from cataloging existing modifications to investigating change and performance impact, and offering reliable and consistent customization delivery across your infrastructure.

Manage Data Fixes, similar to customization, associated with you Oracle E-Business Suite environment.

Configurations

Enable/disable traces and make common config changes in a self-service mode without the need for engaging Oracle teams.

If the customer you've selected has access rights only, the Configurations menu will be displayed. Configurations page displays all the RFC executions the user has submitted.

Bounce

Users can work with self-service Bounce to shut down, start up, and bounce DB Tier and MidTiers and/or MidTier components (individual or combination of components). Bounce is only applicable to NON-PROD instances.

Exadata CPU Scaling

Users can scale up or scale down the number of OCPUs assigned to their Exadata infrastructure as well as the OCPUs assigned to individual databases hosted on that infrastructure without a downtime. Scale Up/Scale Down activities can be scheduled to be executed in the future.

Requirements

The minimum requirements to use Oracle Managed Cloud Self-Service Platform are:

- A valid MOS account.
- At least one support identifier (SI) associated with your MOS account.

> **Note:**
>
> SIs are termed customer support identifiers (CSIs) in Oracle Managed Cloud Self-Service Platform.

- At least one active Oracle E-Business Suite (EBSO) service associated with your MOS account.

Additionally, you must have the following MOS privileges to perform specific tasks:

- To create RFC, MOS *CreateRFC* privilege for your customer organization associated with your MOS account.
- To schedule RFCs for deployment, MOS *Authorized Approver* privilege for the Oracle E-Business Suite environment where the CEMLI patch will be deployed, associated with your MOS account.

Oracle Managed Cloud Self-Service Platform setup should be completed on your EBSO environments before it can apply CEMLI patches created from the portal. Please work with your SDM to create RFCs for Oracle Managed Cloud Self-Service Platform setup.

To request Oracle Managed Cloud Self-Service Platform setup, you or your SDM must create RFCs with the following specifications:

- Category: Application - EBSO Ondemand or Application - EBS OPC or Application - EBS OCI
- Service Type: EBSO or EBSZ or EBSI
- RFC Type: Configuration - EBSO or OPCEBS_Configuration or OCIEBS_Configuration

- Sub Type: Sysadmin Changes or OPCEBS_Configuration or OCIEBS_Configuration
- Summary: Oracle Managed Cloud Self-Service Platform Setup for instance <SID>

Signing into the Oracle Managed Cloud Self-Service Platform

Oracle Managed Cloud Self-Service Platform can be accessed as follows:

1. Go to the Oracle Managed Cloud Self-Service Platform home page.
2. Enter your Single Sign-On (SSO) credentials.

   The Oracle Managed Cloud Self-Service Platform home page opens.

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Working with Instances

This chapter describes how to use the Instances tab to add new instances, edit exisitng instances, and select an instance to associate your CEMLIs with.
The following topics are covered in this chapter:

- Selecting an Instance
- Viewing Instance Details

Selecting an Instance

To select an instance:

1. On the CEMLI home page, verify that your customer details are displayed.
2. Click Instances.

   The Instances tab opens, showing the following information:

   - Instance Name: Specifies the name of the instance your CEMLI is associated with.
   - OS: Specifies the operating system running on the instance.
   - Apps Version: Specifies the version of the Apps schema associated with the instance.
3. In the Actions list, click **Change Instance**.

   The Change Instance dialog box opens, showing the following information:

   - Instance Name: Specifies the name of the instance your CEMLI is associated with.
   - EBS Version: Specifies the Oracle E-Business Suite version running on the instance.
   - Operating System: Specifies the operating system running on the instance.
   - Database Tier Details: Provides detailed information about the database tier associated with the instance.
   - Application Tier Details: Provides detailed information about the application tier associated with the instance.
   - Last Updated: Specifies the date and time when the instance details were last updated.

   The Instances tab is automatically populated with the details of the selected tab, as described in Viewing Instance Details.

Viewing Instance Details

The Database Tier Node and Application Tier Node(s) on the Instances tab include details about the selected instance, as follows:

- the Database Tier Node table:
  - Host Name: Specifies the name of the host where the database is running.

  - Port #: Specifies the SQL*Net port to connect to the database.
  - SID: Specifies the database instance name.
  - Database Version: Specifies the version of the database.
  - Apps User: Specifies the name of the user who owns the APPS schema.
  - Appslsys User: Specifies the name of the user who owns the APPSLSYS schema.
  - Active: Specifies whether the database tier node is active or not.
- the Application Tier Node(s) table:
  - Tier #: Specifies the logical number indicating the tier.
  - Host Name: Specifies the name of the host where the application tier is running.
  - APPL_TOP Directory: Specifies the path to the file system.
  - User Account: Specifies the application owner OS account.
  - Data Center: Specifies the name of the data center where the environment is located.
  - Active: Specifies whether the application tier node is active or not.

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Using Packager

This chapter describes the Packager option, the core tool in Oracle Automated CEMLI Execution (ACE).

The following topics are covered in this chapter:

About Packager

Oracle Automated CEMLI Execution's core tool, Packager, provides you with the ability to bundle your configurations, extensions, modifications, localizations, and integrations (CEMLI) into ADPatch-compliant CEMLI patches, which are deployed using the Oracle Enterprise Manager (EM) Patching system and the Managed Cloud Services automated change management systems. These CEMLI patches are subsequently available for deployment in any of your Oracle E-Business Suite environments. To deploy these custom patches, a separate RFC must be created and scheduled for each environment.

Packager reduces redundant processes and errors resulting from manual deployment. It also eliminates the need to write CEMLI installation scripts or detailed installation instructions, making more efficient use of your development resources.

Additionally, patches created using Packager are copied automatically to servers hosting your Oracle E-Business Suite services, and do not need to be attached to your My Oracle Support (MOS) requests for change (RFC). Packager patches can be promoted to any provisioned environment without rebuild.

National Language Support (NLS) versions are also generated automatically when the NLS version is selected or when NLS-specific files are included in the initial build. And, in common with all Oracle E-Business Suite patches, patch information is saved in the `ad_applied_patches` and `ad_bugs` tables.

Requirements

The minimum requirements to use Packager are the same as for Oracle Automated CEMLI Execution:

- A valid MOS account.
- At least one customer support identifier (CSI) associated with this MOS account.

- At least one active Oracle E-Business Suite (EBSO) service associated with this MOS account.

Additionally, you must have the following MOS privileges to perform specific tasks:

- To create RFCs, MOS *CreateRFC* privilege associated with the customer SI.
- To schedule RFCs for deployment, MOS *Authorized Approver* privilege for the Oracle E-Business Suite environment where the CEMLI patch will be deployed.

Oracle Automated CEMLI Execution setup should be completed on your EBSO environments before it can apply CEMLI patches created from the portal. Please work with your SDM to create RFCs for Oracle Automated CEMLI Execution setup.

To request Oracle Automated CEMLI Execution setup, you or your SDM must create RFCs with the following specifications:

- Category: Application - EBSO Ondemand or Application - EBS OPC or Application - EBS OCI
- Service Type: EBSO or EBSZ or EBSI
- RFC Type: Configuration - EBSO or OPCEBS_Configuration or OCIEBS_Configuration
- Sub Type: Sysadmin Changes or OPCEBS_Configuration or OCIEBS_Configuration
- Summary: ACE Setup for instance <SID>

How to Use Packager

This section describes each of the procedures required to package and deploy your CEMLIs using Packager.

To use Packager:

1. Ensure that your CEMLIs and RFCs meet Oracle requirements, as described in Requirements.
2. Set up your systems to use Packager, as described in Setting Up Packager.
3. Check and upload your CEMLI customized files to the CEMLI repository, as described in #unique_20.
4. Build patches using uploaded files, as described in #unique_21.
5. Schedule your custom patch(es) for deployment using Oracle's automated patching and change management systems, as described in Scheduling Custom Patches for Deployment (Execution).

Setting Up Packager

Before using Packager, you must check your Packager customer preferences and register any unregistered custom applications, which are populated automatically if a primary assessment has been performed.

Optionally modify this information or, if a primary assessment has not been performed, enter the information manually:

- Packager customer preferences are described in Setting Packager Customer Preferences.
- Oracle E-Business Suite custom applications are described in Registering Custom Applications in Packager.

Setting Packager Customer Preferences

If your Packager customer preferences have not been set already, follow this procedure. Once set, these preferences are used for all subsequent Packager tasks.

> **Note:**
>
> If you select the Allow Auto Header check box, file headers are automatically inserted in all CEMLI files with object types that require them. For a detailed description of object types, see CEMLI File Object Types .

To set up Packager customer preferences:

1. On the CEMLI home page, verify that your customer details are displayed.
2. Click Packager.

   The Upload Customized Files tab is displayed by default.
3. Click Set Customer Preferences.
4. From the Apps Release list, select the Oracle E-Business Suite release used in the environment.
5. From the Patch Driver Format list, select one of the following formats:
   - u (recommended)
   - cdg (for older Oracle E-Business Suite releases)
6. From the Base Language list, select the base language for the Oracle E-Business Suite environment.
7. If you have implemented NLS Languages support, *optionally* use the Change NLS Language(s) list to select from the available NLS languages.

   The Base Language list is refreshed to reflect your selections.
8. If you want to enable automatic inclusion of headers, select the Allow Auto Header check box.
9. Click **Save**.

   The Set Customer Preferences page shows the updated preferences.

Registering Custom Applications in Packager

As part of the initial setup, you must also register any custom applications that have not been already registered in Packager settings.

To register custom applications:

1. On the CEMLI home page, verify that your customer details are displayed.

2. Click Packager.

   The Upload Customized Files tab is displayed by default.

> **Note:**
>
> You must register only custom applications that are not already registered in Packager. Please only register custom applications that have Oracle Automated CEMLI Execution setup completed in your E-Business Suite environment.
>
> If a custom application is displayed in the Packager | Existing Products area, you do not need to register it again.

3. Click Manage Custom Products.
4. In the Register New Product area, enter the following information:
   - Product Name: Specifies the short name of the custom application, in lower case with no spaces.
   - Application Id: Specifies the ID for the application. Use a query to retrieve this value from the `APPSFND_APPLICATION_VL` view. See Sample Query.
   - Description: Provides a free-text description of the custom application.
   - DB Schema: Specifies the name of the database schema associated with the custom product.

> **Note:**
>
> You will not be able to modify this information once it is saved.

5. Click **Create**.

   The page is refreshed, displaying the custom application name and details in the Product List area, as follows:
   - Application Id: Specifies the ID for the application.
   - Name: Specifies the short name of the custom application, in lower case with no spaces.
   - Description: Provides a free-text description of the custom application. The information in this field can be edited and saved.
   - Active: Specifies whether the custom product is active or not. The information in this field can be edited and saved.
   - Schema: Specifies the name of the database schema associated with the custom product. The information in this field can be edited and saved.
   - Created By: Specifies the email address of the user who registered the product.
   - Created On: Specifies the date when the product was registered.

Sample Query

The following query retrieves custom application information from the Oracle E-Business Suite database (DB):

```
select app.application_short_name, prod.application_id
from fnd_product_installations prod,
      fnd_application app
where app.application_id>20000
and app.application_id= prod.application_id
```

Where:

`app.application_short_name` is the short name of the application

`prod.application_id` is the production application ID

This example shows a typical output from this query:

```
APPLICATION_SHORT_NAME         APPLICATION ID  ORACLE_ID  PRODUCTION_VERSION
----------------------         --------------  ---------  ------------------
XBOL                           20003           0          11.5.0
```

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Setting Preferences

The following sections explain how to set preferences:

- General Preferences

General Preferences

To set general preferences:

1. From the top-right corner of the dashboard, click avatar/user, and then select **Preferences**.
2. In the General Preferences page, set the following:
   - Time Zone
   - Customer
   - Service
   - Instance

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Using Configurations

The Configuration page displays in each column the RFC No., scheduling details, RFC status, intermediate statuses, and customer update.

To create config RFC:

1. In the dashboard, click the hamburger menu (three horizontal lines) at the top-left corner.
2. From the navigation pane, click **Configurations**.
3. In the **Configurations** page, click **Initiate Config**.
4. For **Config Type**, select **Trace & Debug**.
5. For **Activity Name**, select either of the following:
   - FRD Enable/Disable
   - FND Enable/Disable
6. For **Activity Type**, select **Enable**.
7. Select a **Target**.
8. For **Summary**, optionally enter a summary of this RFC.
9. Select **Auto Disable Interval** to schedule the disable activity time gap.
10. In the **Activity Based Inputs** section, enter the **UserName**.
11. If **FND Enable/Disable** is selected, enter **Debug Log Module**, and select **Debug Log Level**.
12. Select the **Accept Risk** checkbox.
13. Click **Customer Note** to add an action plan or any other relevant information you want included in the RFC.
14. Click **Submit**.
    The Schedule Execution popup opens.
    - If you click **Not Now**, you will be returned to the listings in the Configurations page.
    - If you click **Yes**, the RFC will be scheduled for execution in 15 minutes.
    - If you click **Pick Future**, you will be taken to the scheduling Details page.
15. From the **Configurations** page, click the RFC from the listings.
16. In the **Details** page, click the **Logs** to view the logs.
17. To view the **Activity Name Parameter**, click the Information icon in the **Activity Name** text box.

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Using Bounce

This chapter describes how the OCI users can work with self-service Bounce to shut down, start up, and bounce DB Tier and MidTiers and/or MidTier components (individual or combination of components). Bounce is only applicable to NON-PROD instances.

To use bounce:

1. In the dashboard, click the hamburger menu (three horizontal lines) at the top-left corner.
2. From the navigation pane, click **Bounce**.
3. In the **Bounce** page, click **Initiate Bounce**.
4. In the **Initiate Bounce** page, select the **RFC Details**.
5. Select the **Environment** which needs to be bounced. This list is populated with all the environments associated with the support identifier (SI).
6. For Operation, select any of the following:
   - Bounce
   - Stop
   - Start (This option is visible only when previous RFC operation is stopped)
7. For Services, select any of the following:
   - All (Apps and DB) - This will Bounce/Stop/Start all MT and DB services.
   - All Apps - This will Bounce/Stop/Start all MT services.
   - Apps Components - This will allow users to select individual components like Apache, OPMN etc.
     The Bounce/Stop field is automatically filled in with data on the host and service that need to be restarted/stopped.
8. For the Operation **Stop**, you must additionally select **Blackout Duration**. You must start the services before the Blackout duration by creating **Start Services RFC**.
9. Click **Customer Note** to add an action plan or any other relevant information you want included in the RFC.
10. Click **Submit**.
    The Schedule Execution popup opens.
    - If you click **Not Now**, you will be returned to the listings in the Bounce page.
    - If you click **Yes**, the Bounce will be scheduled for execution in 15 minutes.
    - If you click **Pick Future**, you will be taken to the Details page.

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Using CEMLI

This chapter describes the actions that you can take on CEMLI files using Oracle Managed Cloud Self-Service Platform:

- Before Uploading CEMLI Files
- Uploading CEMLI Files as a .zip File with Manifest
- Uploading CEMLI Files
- Building Patches

Before Uploading CEMLI Files

This section covers some considerations before uploading CEMLI files.

File Format and Object Type Considerations

All CEMLI files that you upload must use the Oracle standard file format and assign the correct object type to each file during upload. Supported object types are listed in CEMLI File Object Types .

The object type determines other requirements, also configured when you upload the CEMLI file to Oracle Automated CEMLI Execution, as shown in the following list:

- File Header: Specifies the file header. See the Object Types That Do Not Require a Header section in CEMLI File Object Types .
- Description: Provides a free-text description of the CEMLI file. Also useful in identifying different versions of the same CEMLI file.
- Object Type: Specifies the supported Oracle E-Business Suite object type.
- Version: Specifies the file version, in numeric form, as identified in the header. For example, 123.1.3.
- NLS Language: Specifies all supported NLS languages. See the Object Types That Support NLS Languages section in CEMLI File Object Types .
- Parameters: Allows you to enter values for the parameters specific to the selected object type. For more information on the object types supported in Oracle Automated CEMLI Execution, see the Object Types That Use Parameters section in CEMLI File Object Types .

For example:

- No File Header Required: Several file types do not require a file header. Packager reads the Oracle E-Business Suite release number from the file header or, where the file contains no header, Packager prompts you to enter the release number. See the Object Types That Do Not Require a Header section in CEMLI File Object Types .
- NLS Languages Supported: Some file types have NLS support, ensuring that different language versions of the same CEMLI file are supported. See the Object Types That Support NLS Languages section in CEMLI File Object Types . You can upload multiple

versions of the same CEMLI file, tracked by the version number in the file header. Use the Description field to make it easier to identify the proper file when multiple rows are displayed for the same file. Different patches can include different versions of the same file. However, a single patch cannot contain multiple versions of the same file.

- Invalid Parameters: Where file types require any mandatory parameters to be specified, Packager prompts you to enter the parameters specific to the selected file type. For example, where the selected file type requires a deployment path, Packager prompts you to enter the deployment path before you upload the file. See the Object Types That Use Parameters section in CEMLI File Object Types .

Additionally, if the Allow Auto Header check box is not selected in your Packager customer preferences, file headers are not inserted into CEMLI files. Before upload, you must insert headers into all CEMLI files that require them, ensuring that headers use the correct format, as described in CEMLI File Header Format .

If you have not created your CEMLI files, configure this setting as explained in Setting Packager Customer Preferences. Otherwise, add headers manually, using the format described in CEMLI File Header Format .

Uploading CEMLI Files as a .zip File with Manifest

This section describes how to add the .zip file containing your CEMLI files to Packager, and upload this .zip file with manifest to the Oracle Automated CEMLI Execution repository.

To create the CEMLI files .zip file:

1. Create the directory structure on your local machine. For example:

```
/applmgr/CEMLI/modules/files
.
|-|forms
|-|--|D
|-|--|US
|-|html
|-|--|D
|-|--|US
|-|media
|-|reports
|-|--|D
|-|--|US
|-|sql
|-|--|US
```

2. At the top level directory, zip all files. For example, zip the files in step 1 Uploading CEMLI Files as a .zip File with Manifest at the */applmgr/CEMLI/modules/files* directory, producing *files.zip*.

3. Create the manifest file manually using a standard text editor. You will need to copy the file contents into the native Packager manifest editor.

   When creating the manifest file, include the file name, the module, the description, the file type, the deployment path (if required), and the language.

   The manifest file name follows the relative path from the top level directory beneath the files directory.

   For example, for *XBOATTRS.fmb*, the file name is */forms/US/XBOATTRS.fmb*.

This sample manifest file shows the typical format:

```
/forms/US/AKDATTRS.fmb,sxbo,US_AKDATTRS form,fmb,null,US
/reports/US/ABMACTD.rdf,sxbo,US_ABMACTF report,rdf,null,US
/sql/getPONumber.sql,sxbo,PO number access sql,pkb,null, US
/sql/vendor_supplier_MAT.sql,sxbo,vendor supplier relation,pkb,null,US
```

> **Note:**
>
> Alternatively, you can paste the manifest directly into Packager using the Manifest tab. You can also modify the manifest on the Manifest or Editor tabs. See #unique_39.

To upload CEMLI files in a .zip file:

1. On the CEMLI home page, verify that your customer details are displayed.
2. Click Packager.

   The Upload Customized Files tab is displayed by default.
3. In the Actions list, click **Choose Product**.

   The Select Product dialog box opens.
4. Select the custom application you want to associate the uploaded files with.
5. Click **Close**.

   The Product Name, Description and Created By fields are populated with the corresponding information.
6. In the Upload Customized Files area, click **Zip File Upload**.

   The Upload Archive of Customized Files dialog box opens.
7. Click **Choose File**.

   The Open dialog box opens.
8. Select one or more files that you want to upload, then click **Open**.

   The Upload Archive of Customized Files page is refreshed, showing the .zip file. The Define archive manifest field is populated with details of the .zip file contents.
9. On the Manifest tab, paste the .zip file manifest, created in step 3 . This comma-separated list must contain a matching line for each CEMLI file included in the .zip file.
10. Click the Editor tab to view the manifest converted to the standard fields used in the Currently Uploaded Files area.
11. *(Optional)* Modify the manifest in either the Manifest or Editor tab.
12. Click **Start Upload**.

    The page is refreshed, listing all the selected files in the Currently Uploaded Files area.

> **Note:**
>
> To select multiple files, hold the Ctrl key, and click each file to be added.

Each record in the Currently Uploaded Files area shows the following information:

- Archived: Specifies whether the uploaded file is archived or not.
- Name: Specifies the name of the file to be uploaded.
- Description: Provides a free-text description of the file to be uploaded.
- Product: Specifies the short name of the custom application the file is associated with.
- Object Type: Specifies the supported Oracle E-Business Suite object type. For more information on the object types supported in Oracle Automated CEMLI Execution, see CEMLI File Object Types .
- Parameters: Provides values for the parameters specific to the selected object type. For more information on the object types supported in Oracle Automated CEMLI Execution, see CEMLI File Object Types .
- Version: Specifies the file version, in numeric form, as identified in the header. For example, 123.1.3.
- Language: Specifies the language associated with the file to be included in the patch.
- Uploaded By: Specifies the email address of the user who uploaded the file.
- Uploaded On: Specifies the date when the file was uploaded.

Uploading CEMLI Files

This section describes how to upload CEMLI files to Oracle Managed Cloud Self-Service Platform.

To upload CEMLI files:

1. In the dashboard, click the hamburger menu (three horizontal lines) at the top-left corner.
2. In the navigation pane, under **CEMLI**, click **Files**.
   All the uploaded CEMLI files are displayed.
3. To refresh the list, click the refresh icon.
4. To view the archived files, move the **Display Archive** slider to the right.
5. To search for a file, type a few letters of the search criteria in the search text box, and press **Enter**.
   You can search by entering a few letters of the description, CEMLI file name, product, file type, or upload details.
6. To archive a file, click the file, and in the file details page, click **Archive**.
7. To delete a file, click the file, and in the file details page, click **Delete**.
8. To download a file, click the file, and in the file details page, click **Download**.
9. To upload file, click **Upload Files**.
10. In the **Upload File(s)** page, select the **Product**. By Default, the last selected custom product appears in the **Product** field.
11. To upload a zip file, move the **Zip Upload** slider to the right. Alternatively, the Zip file can be uploaded using the OAF zip feature. See https://aceportal-

internal.oracleoutsourcing.com/CEMLI/helpDocs/ACE/Automated_CEMLI_Execution_FAQ.docx on **How to use OAF Zip** feature.

12. Drag-and-drop or select the files to upload.
13. Enter a **Description**, select the **File Type**, **Language**, and the **Version**.
14. Click **Upload**.
15. To reselect another product and file to upload, click **Clear All**.
    Selections done are cleared,and you can now make a new selection.
16. To view details of an existing uploaded file, click on the file name from the files list.

Building Patches

You can now use the files you have uploaded to create custom patches which can be applied to your environments.

Patch File Naming Format

To be deployed using the standard Oracle Enterprise Manager patching process, the patch file is generated using the following naming convention:

```
p<numeric_value>_<cust_short_name>_<ebs_version>_cmli.zip
```

where

`<numeric_value>` is an automatically generated number,

`<cust_short_name>` is the short name for your organization in the Packager repository,

`<ebs_version>` is the Oracle E-Business Suite release number,

`cmli` indicates that this is a CEMLI patch, to differentiate it from standard Oracle patches.

For example, this CEMLI patch name uses the standard format:

```
10000001418_Oracle_11i_cmli.zip
```

where

`10000001418` is the automatically generated number,

`Oracle` is a short name for the organization,

`11i` is the Oracle E-Business Suite release number,

`cmli` indicates that this is a CEMLI patch.

Build Custom Patches

This section explains how to view the already built patches list, search for a patch, or build patches.

To build custom patches:

1. In the dashboard, click the hamburger menu (three horizontal lines) at the top-left corner.
2. In the navigation pane, under **CEMLI**, click **Patches**.
   All the already built patches are displayed.
3. To refresh the list, click the refresh icon.

4. To search for a patch, type a few letters of the search criteria in the search text box, and press **Enter**.
   You can search by entering a few letters of the description, patch file name, patch no. or upload details.
5. From the Available Files area, select the files that you want to use to build your patch.

   Each record in the Available Files area shows the following information:

   - Archived: Specifies whether the file to be included in the patch is archived or not.
   - Name: Specifies the name of the file to be included in the patch.
   - Description: Provides a free-text description of the file to be included in the patch.
   - Product: Specifies the short name of the custom application the file is associated with.
   - Object Type: Specifies the supported Oracle E-Business Suite object type. For more information on the object types supported in Oracle Automated CEMLI Execution, see CEMLI File Object Types .
   - Parameters: If the selected file is an XML Publisher or other object type that requires additional parameters, this field shows the parameters indicated in the Enter File Parameters dialog box.
   - Version: Specifies the file version, in numeric form, as identified in the header. For example, 123.1.3.
   - Language: Specifies the language associated with the file to be included in the patch.
   - Uploaded By: Specifies the email address of the user who uploaded the file.
   - Uploaded On: Specifies the date when the file was uploaded.
6. Click **Build Patch**.
7. In the **Build Patch** page, enter the **Patch Name** and **Description**.
8. To generate JAR file using adcgnjar utility, after creating the class file (12.2), select the **Generate JAR** check box.
9. To view the archived files in the **Available Files** section, move the **Display Archive** slider to the right.
10. To choose the files from the **Available Files** and move it to the **Selected Files** section or vice versa, select the files and click the forward or backward arrow.
11. To change/add the sequence, under the **Selected Files** section, enter the number in the **Sequence** box.
12. Click **Submit**.
    When the patch build process is complete, a message showing the patch no. is displayed at the top-right corner of the page. The custom patch is copied automatically to the middle tiers hosting Oracle E-Business Suite environments.

Viewing Patch Details

To view patch details:

1. In the dashboard, click the hamburger menu (three horizontal lines) at the top-left corner.
2. In the navigation pane, under **CEMLI**, click **Patches**.
   All the already built patches are displayed.
3. Click a patch.
   All the details of that patch are displayed.

Downloading Patches

To download patches:

1. In the dashboard, click the hamburger menu (three horizontal lines) at the top-left corner.
2. In the navigation pane, under **CEMLI**, click **Patches**.
   All the already built patches are displayed.
3. Click a patch.
   The patch details page displays the list of files under that patch.
4. click **Download**.

Deleting Patches

To delete patches:

1. In the dashboard, click the hamburger menu (three horizontal lines) at the top-left corner.
2. In the navigation pane, under **CEMLI**, click **Patches**.
   All the already built patches are displayed.
3. Click a patch.
   The patch details page displays the list of files under that patch.
4. click **Delete**.

8

Scheduling Custom Patches for Deployment (Execution)

Each environment requires a separate MOS RFC, which can be created from Oracle Automated CEMLI Execution. If you have the *CreateRFC* and *Authorized Approver* privilege in MOS, you can use Packager to create and schedule RFCs for your environment. Otherwise, an authorized approver for your organization will need to schedule any RFCs you create.

This section describes:

- how to schedule a custom patch deployment using Packager. For more information, see Scheduling a Custom Patch Deployment Using Packager.
- how to schedule a custom patch deployment using My Oracle Support. For more information, see Scheduling a Custom Patch Deployment Using MOS.

> **Note:**
>
> To schedule RFCs in Packager, you must have the MOS *Authorized Approver* privilege for the Oracle E-Business Suite environment where the CEMLI patch will be deployed. Otherwise, request that a MOS authorized approver for your organization schedules the RFC through Oracle Automated CEMLI Execution.

Scheduling a Custom Patch Deployment Using Packager

This section describes how to schedule a custom patch (CEMLI Patch or ACE Data Fix) deployment using Packager. The ACE Data Fix option can be used to promote data fixes that do not require manual intervention or input parameters during execution.

> **Note:**
>
> You must run a test deployment of each new RFC in a non-production environment before attempting to deploy the RFC in a production environment.
>
> You must use MOS, rather than Packager, to modify the RFC in the following situations:
>
> - the Packager scheduling operation failed for some reason - for example, a Web service failure or application integration issue. This results in the creation, but not scheduling, of the RFC.
> - Oracle Automated CEMLI Execution is down.

To initiate CEMLI activity:

1. In the dashboard, click the hamburger menu (three horizontal lines) at the top-left corner.
2. In the navigation pane, under **CEMLI**, click **Executions**.
   All the existing executions are displayed.
3. To refresh the list, click the refresh icon.
4. To search for an execution, type a few letters of the search criteria in the search text box, and press **Enter**.
   You can search by entering a few letters of your search criteria. This is a free text search.
5. Click **Initiate CEMLI Activity**.
6. Select any of the following activity to perform:
   - CEMLI Patch
   - ACE Data Fix
7. Click **Proceed**.
8. In the **Initiate CEMLI** page, set the following:
   a. From the Target list, select the **Environment** where the patch will be deployed. This list is populated with all the environments associated with the **Support Identifier (SI)**.
   b. Click on the **RFC Type** box, so the **RFC Type** and **RFC Sub Type** are autopopulated.
   c. In the **Selected Patch Numbers** field, click the plus icon.
   d. In the **Select Patch from the list below** screen, select all patches that you want to include in the RFC, and then click **Done**.
      The Selected Patch Numbers box at the top of the list displays all the selected patches.
   e. To search for a patch to include, enter a search criteria in the free text search box at the top.
      In the **Initiate CEMLI** page, the **Selected Patch Numbers** field is automatically populated with the numbers of the selected patches, while the Summary field is automatically populated with the number of patches to be applied.
   f. (Production RFCs only) Click **Search RFCs**.
      The Search and Select Existing RFC dialog box opens, allowing you to select the number of an RFC that was already successfully deployed on a non-production instance.

      If you do not provide this information and want to directly deploy a change to a production environment, the Risk Statement dialog box opens asking you to acknowledge that you accept that you are deploying untested code directly to a production instance.
   g. Select the **Accept Risk** check box to acknowledge your acceptance of the risk of applying CEMLIs and read the risk statement before the RFC can be created.
   h. Select the **Auto Skip** checkbox to complete the RFC despite any custom code failure during patch application by automatically skipping the failed adworker.
   i. Select the **Auto Stop** checkbox to stop RFC execution in case of any custom code failures during patch application, and terminate the execution.

j. Select the **Bounce Options** at the host level or instance level. Select the check box corresponding to the services that need to be restarted.
(Optional) If you want to delete the data in the Apache cache module, leave the Clear Apache Cache check box selected (default). Also for EBS 12.2 and above, if you want to bounce Managed Server, leave the Managed Server check box selected (default for EBS 12.2 and above).

The Bounce field is automatically filled in with data on the host and service that need to be restarted. If any service needs to be restarted after the patch is applied, the estimated time listed in the Estimated Time to Apply Change field is automatically increased by one hour.

k. Click **Customer Note** to add an action plan or any other relevant information you want included in the RFC.

l. Select the **Hot Backup** check box to enable/disable the Hot backup for Non Prod instances. For Production instances, this check box is automatically selected and cannot be deselected.
This Provision of Hot backup selection is only available for the ACE Data Fix option. Users who selected CEMLI Patching option will not see this feature.

m. Click **Submit**.
The Schedule Execution screen opens.

n. If you click **Not Now**, you are returned to the listings in the **Bounce** page.

o. If you click **Yes**, the **Bounce** will be scheduled for execution in 15 minutes.

p. If you click **Pick Future**, you are taken to the **Details** page.
The RFC is created and displayed in the **Executions** page.

9. To view details of an RFC, click that RFC from the list.
All non-production RFCs are listed in descending order of the run completion date.

Scheduling a Custom Patch Deployment Using MOS

This section describes how to schedule a custom patch deployment using MOS.

> **Note:**
>
> When custom patch deployment is scheduled using MOS, scheduling conflicts are not verified, which may result in patch failure. Once the RFC scheduled in MOS is set to *Open - Ready for Execution*, you do not have the option to cancel the RFC, nor do you have the ability to choose multiple patches using the **Select Patch(es)** button. We therefore recommend using the RFC scheduling feature in Oracle Automated CEMLI Execution, as explained in Scheduling a Custom Patch Deployment Using Packager.

To schedule a custom patch deployment using MOS:

1. Sign in to MOS:

   `http://support.oracle.com`

2. From the navigation bar, select **Managed Cloud**, then select **Requests**.

   The Managed Cloud: Requests - Changes page opens.

3. In the Planned Changes area, click **Create RFC**. The Create Change Request: Overview page opens.
4. Enter the following information in the Change Overview area:
   - Support Identifier: Select the appropriate SI from the list.
   - Target: Select the target environment on which this patch should be deployed.
   - RFC Type: Select **CEMLI Patch** to deploy your custom patch. (Note that the CEMLI option is for manual deployments only.)
   - Summary: Optionally enter a summary of this patch.
   - Description: Optionally enter a description for this patch.
   - Special Instructions: Add any special instructions here, limited to 500 characters. For example, all CEMLI patches are applied in Hotpatch mode. If you require services to be restarted following patch application, include the relevant instructions here.
5. Review the Contact Information area, and optionally add alternate contacts for the custom patch.
6. Click **Next**.

   The Create Change Request: Severity page opens.
7. Select the severity level for your change.
8. Click **Next**.

   The Create Change Request: Details page opens.
9. In the Change Details area, enter the required information in the Related Service Request, Non-Prod RFC number, and Estimated Time to Apply Change fields.
10. In the File Attachment area, click **Attach** to select any CEMLI and additional files to be included with the change request.
11. Review all details, then click **Submit**.

    The Requests home page opens, with the new RFC listed in the Planned Changes area. The RFC status is set automatically to *Ready for Scheduling*.

    Unlike manually applied patches, which require an action plan, you can schedule the RFC immediately.
12. Click the RFC number in the Planned Changes area.

    The Activity History page opens.
13. Click **Schedule and Approve**.

    The Schedule & Approve page opens, displaying a date and time that incorporates the deployment lead time. Check the availability of the time and date slot displayed.

> **Note:**
>
> To schedule RFCs in Packager, you must have the MOS *Authorized Approver* privilege for the Oracle E-Business Suite environment where the CEMLI patch will be deployed. Otherwise, request that a MOS authorized approver for your organization schedules the RFC through Oracle Automated CEMLI Execution.

The custom patch is deployed at the time and date selected. The RFC is updated with run details following deployment.

9
Using Reports

This chapter describes how to use the Reports tab to search CEMLI data and export such data to Excel.

The following topics are covered in this chapter:

- Working with Reports
- Generating Reports for Uploaded Files
- Generating Reports for Patches
- Generating Reports for Change Requests

Working with Reports

The following sections describe how to use the tables in the Reports tabs:

- Exporting Data
- Sorting Data
- Managing Columns

Exporting Data

To export data:

1. Search your data of interest, as explained in Searching Uploaded Files, Searching Patches and Searching Change Requests, respectively.
2. In the Action list, select **Export to Excel (All Rows)**.

   The Save As dialog box opens.
3. Navigate to the location where you want to save the file, then click **Save**.

   The file is downloaded to the selected location.

Sorting Data

To sort data:

1. Search your data of interest, as explained in Searching Uploaded Files, Searching Patches and Searching Change Requests, respectively.
2. Click any column name to sort the displayed data, as explained below:
   - ▲ - the data is sorted in ascending order
   - ▼ - the data is sorted in descending order

Moreover, Oracle Automated CEMLI Execution offers an advanced sorting option:

1. Search your data of interest, as explained in Searching Uploaded Files, Searching Patches and Searching Change Requests, respectively.
2. In the View list, select **Sort**, then click **Advanced...**

   The Advanced Sort dialog box opens.
3. In the Sort By and Then By lists, select the criteria you want to sort data by.
4. Select the Ascending and Descending check boxes, as appropriate.
5. Click **OK**.

Managing Columns

Oracle Automated CEMLI Execution lets you customize tables to perfectly match your needs.

To define the columns you want to display:

1. In the View list, select Columns.
2. Click **Show All** to display all the available columns or click the name of a column to have it shown or hidden from view.

To change the order in which columns are displayed:

1. In the View list, select **Reorder Columns...**

   The Reorder Columns dialog box opens.
2. In the Visible Columns list, select the column whose place you want to change, then use the arrows to the right, as explained below:
   - Click to move the selected column to the top of the list.
   - Click to move the selected column one place up in the list.
   - Click to move the selected column one place down in the list.
   - Click to move the selected column to the bottom of the list.

Generating Reports for Uploaded Files

The following sections describe how to use the Reports tab to search for uploaded files and export such data to Excel:

- Viewing Uploaded Files
- Searching Uploaded Files

For information on how to export and sort data, as well as on how to manage columns, see Working with Reports.

Viewing Uploaded Files

To see the files you have uploaded in Oracle Automated CEMLI Execution:

1. On the CEMLI home page, verify that your customer details are displayed.
2. Click Reports.

The File Uploads tab is displayed by default, showing the following information for each uploaded file:

- Archived: Specifies whether the uploaded file is archived or not.
- Name: Specifies the name of the uploaded file.
- Description: Specifies an optional description entered by the user who uploaded the file.
- Product: Specifies the short name of the custom application the file is associated with.
- Object Type: Specifies the object type associated with the uploaded file.
- Parameters: Specifies the values for the parameters specific to the selected object type.
- Version: Specifies the version information automatically detected in the file header.
- Language: Specifies the NLS language associated with the uploaded file, if applicable.
- Uploaded By: Specifies the email address of the user who uploaded the file.
- Uploaded On: Specifies the date when the file was uploaded.

Searching Uploaded Files

To search files uploaded in Oracle Automated CEMLI Execution:

1. On the CEMLI home page, verify that your customer details are displayed.
2. Click Reports.

   The File Uploads tab is displayed by default.
3. *(Optional)* If you want to search for all files, including archived files, select the Display Archived Files check box in the upper part of the Uploaded Files table to see all archived files.
4. In the From and To fields, enter the dates corresponding to the time interval over which the search should expand. The From field defaults to the last 60 days, while the End field defaults to the current day.

   > **Note:**
   >
   > Fill in these fields only when searching by the upload date.

5. Select one of the search criteria from the list in the upper right corner of the Uploaded Files table:
   - Name
   - Description
   - Product
   - Object Type
   - Parameters
   - Version

- Language
- Uploaded By

6. Enter the search string in the search field.
7. Click **Search**.

   The Uploaded Files table is refreshed to show the results that match your search criteria.

Generating Reports for Patches

The following sections describe how to use the Patches tab to search for patches and export such data to Excel:

- Viewing Patches
- Searching Patches

For information on how to export and sort data, as well as on how to manage columns, see Working with Reports.

Viewing Patches

To see the patches created in Oracle Automated CEMLI Execution:

1. On the CEMLI home page, verify that your customer details are displayed.
2. Click Reports.

   The File Uploads tab is displayed by default.
3. Click Patches.

   The Patches tab is displayed, showing the following information for each patch:

   - Name: Specifies the automatically generated name of the patch.
   - Description: Specifies the description of the patch, as entered by the user.
   - Patch Name: Specifies the name of the patch, as entered by the user.
   - Created By: Specifies the email address of the user who created the patch.
   - Created On: Specifies the date when the patch was created.

Searching Patches

To search patches created in Oracle Automated CEMLI Execution:

1. On the CEMLI home page, verify that your customer details are displayed.
2. Click Reports.

   The File Uploads tab is displayed by default.
3. Click Patches.

   The Patches tab is displayed.
4. *(Optional)* Select the Display Details check box to see the details of files included in each patch.

5. In the From and To fields, enter the dates corresponding to the time interval over which the search should expand. The From field defaults to the last 60 days, while the End field defaults to the current day.

> **Note:**
>
> Fill in these fields only when searching by the create date.

6. Select one of the search criteria from the list in the upper right corner of the Patches List table:
   - Name
   - Description
   - Patch Name
   - Created By
   - File Name
   - File Description
   - Product
   - Object Type
   - Version
7. Enter the search string in the search field.
8. Click **Search**.

   The Patches List table is refreshed to show the results that match your search criteria.

Generating Reports for Change Requests

The following sections describe how to use the Change Requests tab to search for change requests and export such data to Excel:

- Viewing Change Requests
- Searching Change Requests

For information on how to export and sort data, as well as on how to manage columns, see Working with Reports.

Viewing Change Requests

To see change requests in Oracle Automated CEMLI Execution:

1. On the CEMLI home page, verify that your customer details are displayed.
2. Click Reports.

   The File Uploads tab is displayed by default.
3. Click Change Requests.

   The Change Requests tab is displayed, showing the following information for each patch:

- RFC Number: Specifies the ID that was automatically assigned to the RFC when the RFC was created.
- Target: Specifies the name of the instance the patch will be applied to.
- Summary: Provides a description of the actions required under the RFC.
- Patch Number: Specifies the number of the patch to be applied.
- Created On: Specifies the date and time when the RFC was created.
- Local Scheduled Date: Specifies the date and time when the patch is scheduled for deployment.
- Status: Specifies the situation of the RFC at a particular time. Available options include:
  - Closed - Aborted
  - Closed - Completed
  - Open - Approved and Scheduled
  - Open - Awaiting Customer
  - Open - Awaiting Customer UAT
  - Open - Execution Completed
  - Open - Execution In Progress
  - Open - New
  - Open - Ready for Execution
  - Open - Ready for Scheduling/Approval
- Customer Status: Specifies the progress the customer has made in the RFC process. Available options include:
  - 1-Callback
  - Acknowledged
  - IRR
  - ReviewUpdate

Searching Change Requests

To search files you have uploaded in Oracle Automated CEMLI Execution:

1. On the CEMLI home page, verify that your customer details are displayed.
2. Click Reports.

   The File Uploads tab is displayed by default.
3. Click Change Requests.

   The Change Requests tab is displayed.
4. In the From and To fields, enter the dates corresponding to the time interval over which the search should expand. The From field defaults to the last 60 days, while the End field defaults to the current day.
5. Select one of the search criteria from the list in the upper right corner of the RFC Report table:

- RFC Number
- Target
- Summary
- Patch Number
- Status
- Customer Status

6. Enter the search string in the search field.
7. Click **Search**.

   The RFC Report table is refreshed to show the results that match your search criteria.

Using Config Automation

This chapter describes how to use the Config Automation tab to raise Config related RFCs, and how to trace the issues and debug it

The following topic is covered in this chapter:

Working with Config Automation

Working with Config Automation

To create Config RFC:

1. Click the **Config Automation** tab, and then under the RFC listing, click **Initiate Config Activity**.

   The Activity Details page opens.
2. For **Config Type**, select **Trace & Debug**.
3. For **Activity Name**, select either of the following:
   - FRD Enable/Disable (applicable only for Apps Version - Pre 12.2)
   - FND Enable/Disable

   If **FRD Enable/Disable** is selected, then the **Bounce** check box is visible. Select the check box to enable **Bounce**.
4. For **Activity Type**, select **Enable**.
5. Select a **Target**.
6. For **Summary**, optionally enter a summary of this RFC.
7. Select **Auto Disable Interval** to schedule the disable activity time gap.
8. In the **Activity Based Inputs** section, enter the **UserName**.
9. If **FND Enable/Disable** is selected, enter **Debug Log Module**, and select **Debug Log Level**.
10. Select the **Accept Risk** checkbox.
11. Click **Customer Note** to add an action plan or any other relevant information you want included in the RFC.
12. Click **Create RFC**, schedule it, and go back to **Dashboard**.

RFC information appears in the RFC list. Based on the Auto- Disable Interval you selected, Disable RFC will be auto-created.

13. After enabling **Activity**, proceed to simulate the step using EBS UI.
14. Under **Dashboard**, click **Update**.

    The Update feature allows you to initiate the transfer of logs (assuming that you already simulated the EBS steps).
15. Wait for minimum 5-10 minutes to allow ACE to transfer the logs, and then click **Logs** to review the logs.

    Once logs are collected, disable RFC will be executed as per the schedule.

10

Exadata CPU Scaling

Using the Exadata CPU Scaling feature, the number of OCPUs (Oracle CPUs) assigned to the Exadata database can be increased or decreased to optimize the workloads. For example, the database CPU can be scaled upwards during peak load times and scaled down thereafter.

CPU Scaling on the database can also be scheduled to run in the future to offset workload changes, anticipated or known in advance.

Creating and Scheduling Executions

You can create an execution when you need to either scale up or down your Exadata database CPUs. The executions you create are displayed in the Exadata CPU Scaling page. The Exadata Infrastructure corresponding to your environment can host multiple databases. You can scale up or down the CPU allocation for each database hosted on an Exadata Infrastructure. After creating your execution, you can schedule it to run at a particular date and time.

To create executions:

1. In the dashboard, click the hamburger menu (three horizontal lines) at the top-left corner.
2. From the navigation pane, click **Exadata CPU Scaling**.
3. In the **Exadata CPU Scaling** page, click **Create Execution**
4. In the **Create & Schedule** page, select the **Environment Name**.

   The corresponding values are auto-populated in all other fields.
   During creation of a new execution, the data pertaining to the existing CPUs allocated to the Exadata Infrastructure as well for each of the Databases Hosted are shown on a last collected basis. If you feel the last collection time is obsolete or old, you can trigger a data collection and refresh of the data by clicking the Refresh icon at the top banner. The refresh process takes a few minutes to complete.
5. To scale up or down the OCPU allocation on Exadata infrastructure, click the up or down arrow in the **OCPU Allocation** field.

   The Databases Hosted section refreshes to display the CPU allocation to database in the selected environment, as well the allocations for all other databases hosted on that Exadata infrastructure.
6. To scale up or down the other databases hosted on the selected environment, double-click the **OCPU Allocation** field from the **Databases Hosted** section.
7. Click the up or down arrow in the **OCPU Allocation** fields, corresponding to the databases you want to modify.
8. Click **Create**.

You are now returned to the Exadata CPU Scaling page, where all the executions are listed. Your newly created execution, including executions in the Database Hosted section will be displayed on the top of the list.
The status of the execution is indicated alongside the execution detail as coloured bars, and textually in the Status column:

- Green - Completed successfully, or queued based on the scheduled time
- No color - In Progress, or stopped manually in between the execution run
- Red - Failed
- Yellow - Pending assignment of a schedule by the user

9. To search for an execution you created, type the search criteria in the **Search** field, and press **Enter**.
10. To view the log of an execution, click the progress **Status** corresponding to that execution.

    A panel opens showing details of each stages the execution went through.

To edit an existing execution:

1. From the executions listed in the **Exadata CPU Scaling** page, click the **Environment Name**.
2. In the **Edit & Schedule** page, click Refresh at the top-right corner, if required.
3. Modify values in the editable fields, if required.
4. Click **Save & Close**.

   You are now returned to the Exadata CPU Scaling page, where all the executions are listed.
5. To discard any edits done and return to the **Exadata CPU Scaling** page, click **Cancel** at the top-right corner.

To schedule new executions:

Exadata CPU Scaling executions can be scheduled either during creation of the execution itself, or at a later point in time after creation.

1. In the **Exadata CPU Scaling** page, click **Create Execution**.
2. In the **Create & Schedule** page, select the **Environment Name**, and then click **Next**.
3. In the **Schedule Execution** page, click the calendar icon in the **Start Time** field to set the date and time.

   If any RFC schedule conflicts are there, the summary of conflict is displayed. Also, you cannot save the chosen schedule and proceed with creating execution. The Create button will be disabled. So, you must choose a new date/time where there are no conflicts.
4. To save the schedule and return to the **Exadata CPU Scaling** page, click **Create**.
5. To discard any scheduling changes including the values set in the **Create Execution** screen, and return to the **Exadata CPU Scaling** page, click **Cancel** at the top-right corner.

> **Note:**
>
> The values you've set in the Create Execution screen is still in draft stage, until the Create button is clicked. So, if you click the Cancel button from the Schedule Execution screen, all the values set in the Create Execution screen will also be deleted. Also, the Create & Schedule Execution process you initiated will be completely canceled.

6. To go back to the **Create Execution** page, click **Back**.

To schedule existing executions:

For the existing executions, you can either modify the schedules already set during creation of execution, or create a new schedule if you've not set a schedule at the creation time.

1. From the executions listed in the **Exadata CPU Scaling** page, click the **Environment Name**.
2. In the **Edit & Schedule** page, modify values if required.
3. If you plan to schedule later, click **Save & Close** to return to the **Exadata CPU Scaling** page.
4. If you want to proceed with scheduling, click **Next**.
5. In the **Schedule Execution** page, click the calendar icon in the **Start Time** field to set the date and time.

   If any RFC schedule conflicts are there, the summary of conflict is displayed. Also, you cannot save the chosen schedule. The Save & Close button will be disabled. So, you must choose a new date/time where there are no conflicts.
6. To save the schedule and return to the **Exadata CPU Scaling** page, click **Save & Close**.
7. To cancel the schedule, click **Cancel Schedule**.
8. To discard any scheduling changes and return to the **Exadata CPU Scaling** page, click **Cancel** at the top-right corner.
9. To go back to the **Edit Execution** page, click **Back**.

Part I
Licensing Information

This part contains licensing information on third-party products included with Oracle Managed Cloud Self-Service Platform:

11
Introduction

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12

Third-Party Products Licensing for Oracle Managed Cloud Self-Service Platform

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dayjs

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RequireJS i18n 2.0.2
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jQuery UI - v1.12.1 - 2015-03-18

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RequireJS text 2.0.15
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js-cookie

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A

CEMLI File Object Types

This appendix summarizes all CEMLI file objects that are supported in Oracle Automated CEMLI Execution Release 18.1.

The following topics are covered in this appendix:

Object Types

The following table lists all object types that can be associated with your uploaded files.

> **Note:**
>
> You **must** select the correct object type. Otherwise you may not see the expected result following deployment of the patch.
>
> File extension naming conventions for SQL scripts are provided as guidelines only, and you are not required to create SQL scripts with these particular extensions. By default, the object type is assigned based on the file extension. Therefore, it is faster to upload customized files with file extension.

Object Type	File Extension	Description	Execution Phase[1]	Default Sequence	Alternative Method
APPS Package Body	pkb	Custom package body to be installed in APPS schema	plb	3	Include in APPS Package Spec script
APPS Package Spec	pks	Custom package spec to be installed in APPS schema	pls	3	Not applicable
APPS Synonym	syn	Create synonyms for custom objects	en	50	Include in SQL File Copy and Execute as APPS
APPS View	vw	Custom views to be created in APPS schema	vw	3	Include in SQL File Copy and Execute as APPS
BC4J Substitution	bc4j_jpx	Customization of Business Components for Java	dat	25	Not applicable

Object Type	File Extension	Description	Execution Phase[1]	Default Sequence	Alternative Method
Bitmap Image	bmp	Bitmap image file	Not applicable	Not applicable	Not applicable
Compressed File	zip	Zip file	Not applicable	Not applicable	Not applicable
Configuration File	cfg	Configuration file	Not applicable	Not applicable	Not applicable
Copy and deploy Java classes and BC4J XML objects	oa_java_type	Copy and deploy Java classes and BC4J XML	last	3	Not applicable
Copy and load an OAF Page into DB	oaf_page	Copy and load an OAF Page into DB	dat	24	Not applicable
Copy and load an OAF Translations into DB	oaf_translation	Copy and load an OAF Translations into DB	dat	25	Not applicable
Copy and load XML Gateway DTD into DB	ecx_dtd	Copy and load XML Gateway DTD into DB	Not applicable	Not applicable	Not applicable
Copy and load XML Gateway mapping into DB	ecx_mapping	Copy and load XML Gateway mapping into DB	Not applicable	Not applicable	Not applicable
Copy Java class	oa_java_class	Copy Java class	last	3	
Custom Index	c_idx	Index on custom table	dfr	3	Include in Custom Table script
Custom Package Body	c_pkb	Package body to be installed in custom schema	plb	3	Include in Package Spec script
Custom Package Spec	c_pks	Package spec to be installed in custom schema. Include DDL for grants to APPS schema.	pls	3	Not applicable
Custom Patch	c_patch	Cemli Patch file built from EM	Not applicable	Not applicable	Not applicable
Custom Sequence	c_seq	Custom sequence	seq	3	Not applicable
Custom SQL File Copy and Execute	c_sql_exec	Any valid SQL script including DDL. Can be used to produce spool output.	dfr	99	Not applicable
Custom Table	c_tbl	Custom table. Include DDL for grants to APPS schema.	tab	3	Not applicable
Custom Trigger	c_trg	Custom trigger	en	3	Custom Table script
Custom View	c_vw	View to be created in custom schema. Include DDL for grants to APPS schema.	vw	3	Not applicable
Discoverer Export	dis	Oracle Discoverer	Not applicable	Not applicable	Not applicable
Discoverer File	eex	Oracle Discoverer	Not applicable	Not applicable	Not applicable

Object Type	File Extension	Description	Execution Phase[1]	Default Sequence	Alternative Method
Driver File	drv	EBSO Patch Driver file	Not applicable	Not applicable	Not applicable
Dump File	dmp	Oracle Database dump file	Not applicable	Not applicable	Not applicable
Excel File	xls	Microsoft Excel file	Not applicable	Not applicable	Not applicable
FDI File	fdi	Disk image file	Not applicable	Not applicable	Not applicable
FDO File	fdo	Form definition operator script	Not applicable	Not applicable	Not applicable
FND Message Loader Text	msg	FND Loader message file	daa	3	Not applicable
FNDLOAD Control File	lct	FND Loader control file	Not applicable	Not applicable	Not applicable
FNDLOAD Data File	ldt	FND Loader data file	daa	52	Not applicable
Forms Compiled	fmx	Oracle compiled form	Not applicable	Not applicable	Not applicable
Forms Library Source and Runtime	pll	Custom library attached to forms	Not applicable	Not applicable	Not applicable
Forms Menu File	mmb	Forms menu file	Not applicable	Not applicable	Not applicable
Forms Source and Text	fmb	Forms source file	Not applicable	Not applicable	Not applicable
Generic File Copy to Deployment Path	gen_cp	Generic File Copy to specified location	first	3	Not applicable
Graphic Interchange Format File	gif	Gif image file	upg	3	Not applicable
Help File	hlp	Help file	Not applicable	Not applicable	Not applicable
Hypertext File	htm	HTML file	upg	3	Not applicable
Hypertext Markup	html	HTML file	Not applicable	Not applicable	Not applicable
Image Files	img	Standard image file	Not applicable	Not applicable	Not applicable
JPEG Image	jpg	JPEG image file	Not applicable	Not applicable	Not applicable
Java Archive File	jar	Java archive	Not applicable	Not applicable	Not applicable
Java File	java	Java file	Not applicable	Not applicable	Not applicable
Java Loader Text	jlt	Java loader file	dat	4	Not applicable
Javascript File	js	JavaScript file	Not applicable	Not applicable	Not applicable
Java Server Page	jsp	Java Server Page file	Not applicable	Not applicable	Not applicable

Object Type	File Extension	Description	Execution Phase[1]	Default Sequence	Alternative Method
MAC File	mac	Macro file	Not applicable	Not applicable	Not applicable
Message File	msb	Message file	Not applicable	Not applicable	Not applicable
OAF zip file	oaf_zip	Oracle Application Framework zip file	Not applicable	Not applicable	Not applicable
ODF File	odf	Object definition file	seq	3	Not applicable
Office Binder Document File	obd	Online help file	Not applicable	Not applicable	Not applicable
Oracle Graphs File	ogd	Oracle Graphics file	Not applicable	Not applicable	Not applicable
OWB Text File	mdl	Text file created by Oracle Warehouse Builder (OWB) metadata loader file for data import	Not applicable	Not applicable	Not applicable
PDF Documents	pdfh	Adobe Acrobat document	Not applicable	Not applicable	Not applicable
PDF Templates	pdft	PDF template file	Not applicable	Not applicable	Not applicable
Perl Module	pm	Perl module file	Not applicable	Not applicable	Not applicable
Perl Script	pl	Perl script file	Not applicable	Not applicable	Not applicable
Portable Document Format File	pdf	Adobe Acrobat document	Not applicable	Not applicable	Not applicable
Portable Network Graphic File	png	Portable network graphics file	Not applicable	Not applicable	Not applicable
PRT File	prt	Oracle Reports driver file	Not applicable	Not applicable	Not applicable
Rapid Install Response	rsp	Rapid Install Response file	Not applicable	Not applicable	Not applicable
Reports Library Source and Runtime	rpll	Custom library attached to reports	Not applicable	Not applicable	Not applicable
Reports Source and Runtime	rdf	Custom report	Not applicable	Not applicable	Not applicable
RTF File	rtf	Rich Text Format file	Not applicable	Not applicable	Not applicable
Shell Script Copy and Execute at End	shell_exec_last	Copy and execute Shell script at end of patching	last	98	Not applicable
Shell Script Copy and Execute at Start	shell_exec_first	Copy and execute Shell script at start of patching	first	3	Not applicable
Shell Script Copy Only	shell	Shell script copy to CUSTOM_TOP	Not applicable	Not applicable	Not applicable
SQL File Copy and Execute as APPS	sql_exec	Any valid SQL script including DDL. Can be used to produce spool output.	last	3	Not applicable

Object Type	File Extension	Description	Execution Phase[1]	Default Sequence	Alternative Method
SQL File Copy Only	sql	SQL file copied to CUSTOM_TOP	Not applicable	Not applicable	Not applicable
SQL Loader Control File	ctl	SQL Loader Control file	Not applicable	Not applicable	Not applicable
SQL Loader Data File	dat	SQL Loader Data file	Not applicable	Not applicable	Not applicable
Standard XML File	amx	Standard XML file	Not applicable	Not applicable	Not applicable
Style Sheets (css)	css	Style sheet	upg	3	Not applicable
Symbols File	sym	Always accompanies a dll	Not applicable	Not applicable	Not applicable
TAG File	tag	Query tag name file	Not applicable	Not applicable	Not applicable
Tagged Image Format File	tif	TIFF image file	Not applicable	Not applicable	Not applicable
Unix Shared Library	so	Shared library file	Not applicable	Not applicable	Not applicable
WF Business Event/ Subscription	wfx	Workflow Business Event XML Loader file	daa	3	Not applicable
WF Msg Resource File	res	Resource file to store WF messages and used by WF Resource Generator	Not applicable	Not applicable	Not applicable
Workflow Data File	wft	Workflow text file	daa	38	Not applicable
XML File	xml	File in standard extensible markup language (.xml) format	Not applicable	Not applicable	Not applicable
XML Publisher Bursting File	xmlp_bf	XML Publisher Bursting file	dat	3	Not applicable
XML Publisher Data Template	xmlp_dt	XML Publisher data template	dat	3	Not applicable
XML Publisher RTF/XLS file	xmlp_rtf	XML Publisher RTF file	dat	3	Not applicable
XML Publisher XLF file	xmlp_xlf	XML Publisher XLF file	last	3	Not applicable
XML Publisher XSL file	xmlp_xsl	XML Publisher XSL file	dat	3	Not applicable

1 For information on the order in which phases are executed during patching, please see Patch Phases.

Patch Phases

The following table contains a list of phases and the order in which phases are executed during patching.

Execution Sequence	Phase	Description
1	first	This is the very first phase, which runs before all other phases.
2	seq	In this phase sequences are created.
3	tab	In this phase tables are created.
4	pls	In this phase package specifications are created. This phase should be used for all package specifications. The corresponding package body, if delivered, should be phased in *plb*.
5	vw	In this phase views are created.
6	plb	In this phase package bodies are created. This phase should be used for all package bodies. The corresponding package specification should be phased in *pls*.
7	daa	In this phase AOL data is added or modified. This phase is used for files loading or modifying AOL data (in FND tables).
8	dat	In this phase seed data is added or modified.
9	upg	In this phase transaction data is added or modified.
10	dfr	In this phase indexes (Deferred) and any other Deffered objects are created.
11	en	In this phase triggers and constraints are created.
12	last	This is the very last phase, which runs after all other phases.

Object Types That Do Not Require a Header

This section describes object types that do not require file headers:

Object Type	Description
bmp	Bitmap image
c_patch	Custom patch
dmp	Dump file
fdi	FDI file
fdo	FDO file
gen_cp	Generic File Copy to Deployment Path
gif	Graphic Interchange Format file
hlp	Help file
img	Image file
jar	Java archive file
jpg	JPEG image
mac	Mac File
oa_java_class	Copy Java class
oaf_zip	OAF zip file
obd	Office Binder Document file
pdf	Portable Document Format file
pdfh	PDF documents
pdft	PDF templates

Object Type	Description
png	Portable Network Graphic file
prt	PRT file
so	UNIX shared library
sym	Symbols file
tif	Tagged Image Format file
xls	Excel file
zip	Compressed file

Object Types That Require a Header

This section describes object types that require file headers:

Object Type	Description	Binary File[1]	Header Format[2] [3]
APPS Package Body	pkb	No	REM $HEADER$
APPS Package Spec	pks	No	REM $HEADER$
APPS Synonym	syn	No	REM $HEADER$
APPS View	vw	No	REM $HEADER$
BC4J Substitution	bc4j_jpx	No	@2<!-- $HEADER$ -->
Configuration File	cfg	No	$HEADER$
Copy and deploy Java classes and BC4J XML objects	oa_java_type	No	/* $HEADER$ */
Copy and load an OAF Page into DB	oaf_page	No	@2<!-- $HEADER$ -->
Copy and load an OAF Translations into DB	oaf_translation	No	@2<!-- $HEADER$ -->
Copy and load XML Gateway DTD into DB	ecx_dtd	No	<!-- $HEADER$ -->
Copy and load XML Gateway mapping into DB	ecx_mapping	No	<!-- $HEADER$ -->
Custom Index	c_idx	No	REM $HEADER$
Custom Package Body	c_pkb	No	REM $HEADER$
Custom Package Spec	c_pks	No	REM $HEADER$
Custom Sequence	c_seq	No	REM $HEADER$
Custom SQL File Copy and Execute	c_sql_exec	No	REM $HEADER$
Custom Table	c_tbl	No	REM $HEADER$
Custom Trigger	c_trg	No	REM $HEADER$
Custom View	c_vw	No	REM $HEADER$
Discoverer Export	dis	No	$HEADER$
Discoverer File	eex	No	$HEADER$

Object Type	Description	Binary File[1]	Header Format[2] [3]
Driver File	drv	No	# $HEADER $
FND Message Loader Text	msg	Yes	$HEADER$
FNDLOAD Control File	lct	No	-- $HEADER$
FNDLOAD Data File	ldt	No	# $HEADER$
Forms Compiled	fmx	Yes	$HEADER$
Forms Library Source and Runtime	pll	Yes	$HEADER$
Forms Menu File	mmb	Yes	$HEADER$
Forms Source and Text	fmb	Yes	$HEADER$
Hypertext File	htm	No	<!-- $HEADER$ -->
Hypertext Markup	html	No	<!-- $HEADER$ -->
Java File	java	No	/* $HEADER$ */
Java Loader Text	jlt	No	-- $HEADER$
Java Server Page	jsp	No	<% -- "$HEADER$" -- %>
Javascript File	js	No	/* $HEADER$ */
Message File	msb	Yes	$HEADER$
ODF File	odf	No	# $HEADER$
Oracle Graphs File	ogd	Yes	$HEADER$
OWB Text File	mdl	No	$HEADER$
Perl Module	pm	No	# $HEADER$
Perl Script	pl	No	# $HEADER$
Rapid Install Response	rsp	No	$HEADER$
Reports Library Source and Runtime	rpll	Yes	$HEADER$
Reports Source and Runtime	rdf	Yes	$HEADER$
RTF File	rtf	Yes	$HEADER$
Shell Script Copy and Execute at End	shell_exec_last	No	# $HEADER$
Shell Script Copy and Execute at Start	shell_exec_first	No	# $HEADER$
Shell Script Copy Only	shell	No	@2# $HEADER$
SQL File Copy and Execute as APPS	sql_exec	No	REM $HEADER$
SQL File Copy Only	sql	No	REM $HEADER$
SQL Loader Control File	ctl	No	-- $HEADER$
Standard XML File	amx	No	@2<!-- $HEADER$ -->
Style Sheets (css)	css	No	/* $HEADER$ */
TAG File	tag	No	$HEADER$

Object Type	Description	Binary File[1]	Header Format[2] [3]
WF Business Event/ Subscription	wfx	No	$HEADER$
WF Msg Resource File	res	Yes	$HEADER$
Workflow Data File	wft	No	# $HEADER$
XML File	xml	No	@2<!-- $HEADER$ -->
XML Publisher Bursting File	xmlp_bf	No	@2<!-- $HEADER$ -->
XML Publisher Data Template	xmlp_dt	No	@2<!-- $HEADER$ -->
XML Publisher RTF/XLS file	xmlp_rtf	Yes	$HEADER$
XML Publisher XLF file	xmlp_xlf	No	@2<!-- $HEADER$ -->
XML Publisher XSL file	xmlp_xsl	No	@2<!-- $HEADER$ -->

1 Files that are of binary type require files to be uploaded with header even if the Auto Header preference in Packager is turned on.
2 $HEADER$ should follow the *$Header <file name> <version> <date> [<time>] <coder name> $* format, as indicated in CEMLI File Header Format .
3 *@2* at the beginning of the line indicates that the header line should be added as the second line in the file. This is important for XML type files.

Object Types That Support NLS Languages

This section describes object types that support NLS languages:

Object Type	Description
c_patch	Custom patch
dis	Discoverer export
eex	Discoverer file
fmb	Forms source and text
fmx	Forms compiled
htm	Hypertext file
jlt	Java loader text
ldt	FNDLOAD data file
mdl	OWB text file
mmb	Forms menu file
msg	FND message loader text
oaf_translation	Copy and load an OAF translation into the Oracle database
rdf	Reports source and runtime
wft	Workflow data file
wfx	WF business event/subscription
xls	Excel file
xml	XML file
xmlp_bf	XML Publisher Bursting file

Object Type	Description
xmlp_dt	XML Publisher Data template
xmlp_rtf	XML Publisher RTF/XLS file
xmlp_xlf	XML Publisher XLF file
XML Publisher XSL file	XML Publisher XSL file

Object Types That Use Parameters

This section describes how to use the Parameters field associated with object types in Packager:

Object Type	Parameter	Parameter Code	Default Value
Copy and deploy Java classes and BC4J XML objects	Deployment Path	DEPLOYMENT_PATH	No default value
Copy and load XML Gateway DTD into DB	Deployment Path	DEPLOYMENT_PATH	No default value
Copy and load an OAF Page into DB	Deployment Path	DEPLOYMENT_PATH	No default value
Copy Java class	Deployment Path	DEPLOYMENT_PATH	No default value
Generic File Copy to Deployment Path	Deployment Path	DEPLOYMENT_PATH	No default value
XML Publisher Bursting File	Product Short Name	APPS_SHORT_NAME	$mod
	LOB Type	LOB_TYPE	BURSTING_FILE
	LOB Code	LOB_CODE	No default value
	Language	LANGUAGE	en
	Territory	TERRITORY	US
	File Type	XDO_FILE_TYPE	XML-BURSTING-FILE
XML Publisher Data Template	Product Short Name	APPS_SHORT_NAME	$mod
	LOB Code	LOB_CODE	No default value
	Language	LANGUAGE	00
	Territory	TERRITORY	00
	File Type	XDO_FILE_TYPE	XML-DATA-TEMPLATE
XML Publisher RTF/XLS file	LOB Type	LOB_TYPE	TEMPLATE_SOURCE
	Product Short Name	APPS_SHORT_NAME	$mod
	LOB Code	LOB_CODE	No default value
	Language	LANGUAGE	en
	Territory	TERRITORY	00
	File Type	XDO_FILE_TYPE	RTF
	Translate	TRANSLATE	Y
XML Publisher XLF file	Product Short Name	APPS_SHORT_NAME	$mod
	Template Code	TEMPLATE_CODE	null
XML Publisher XSL file	LOB Type	LOB_TYPE	TEMPLATE_SOURCE
	Product Short Name	APPS_SHORT_NAME	$mod
	LOB Code	LOB_CODE	No default value

Object Type	Parameter	Parameter Code	Default Value
	Language	LANGUAGE	en
	Territory	TERRITORY	00
	File Type	XDO_FILE_TYPE	XSL-XML
	Translate	TRANSLATE	Y

B
CEMLI File Header Format

This appendix describes the correct format for CEMLI file headers.

When inserting a header into a CEMLI file, ensure that the header uses the following format:

```
$Header: <file name> <version> <date> [<time>] <coder name> $
```

where:

- <file name> is the CEMLI file name.
- <version> is the CEMLI file version number.
- <date> is the date when the CEMLI file was last changed, in one of the following formats - MM/DD/YYYY or YYYY/MM/DD, where MM is the month, DD is the day, and YYYY is the year.
- <time> (optional) is the time at which the CEMLI file was last changed, in the format HH:MM, where HH is the hour and MM is the minute.
- <developer name> is the name of the CEMLI file developer, with no spaces or blank characters.

For example:

```
$Header: XXAKDAPREG.fmb 115.3 2006/05/08 15:46 matery $
```

When including the header in SQL scripts, shell scripts, and other text files, use REM, # or similar comment syntax, for example:

```
REM %Header XXGERTTLS.sql 115.23.2 07/14/2008 joe Exp $
# $Header: XXREP.ldt 115.30 2009/08/24 13:32:38 mondev $
```

If your CEMLI file is a form, which has the extension .fmb, include the header using the FDRCSID function call in the When-New-Form-Instance Trigger.

If the file is a library, with extension .pll, include the header when using the FDRCSID function call in a program unit. For example:

```
FDRCSID('$Header: XXPPSND.fmb 120.6.120.3 2008/08/01 09:42 joe ship$')
```

For reports, with extension .rdf, include the header in the comment field property of the report module.

Glossary

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