Oracle® Automated CEMLI Execution User's Guide





Oracle Automated CEMLI Execution User's Guide, Release 20.4

F38401-02

Copyright © 2014, 2021, Oracle and/or its affiliates.

Primary Author: Oracle Corporation

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs (including any operating system, integrated software, any programs embedded, installed or activated on delivered hardware, and modifications of such programs) and Oracle computer documentation or other Oracle data delivered to or accessed by U.S. Government end users are "commercial computer software" or "commercial computer software documentation" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, reproduction, duplication, release, display, disclosure, modification, preparation of derivative works, and/or adaptation of i) Oracle programs (including any operating system, integrated software, any programs embedded, installed or activated on delivered hardware, and modifications of such programs), ii) Oracle computer documentation and/or iii) other Oracle data, is subject to the rights and limitations specified in the license contained in the applicable contract. The terms governing the U.S. Government's use of Oracle cloud services are defined by the applicable contract for such services. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Inside are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Epyc, and the AMD logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

Contents

Preface

Audience	V
Documentation Accessibility	V
Conventions	V
Introduction	
About Oracle Automated CEMLI Execution	1-1
Requirements	1-2
Signing In to Oracle Automated CEMLI Execution	1-3
Working with Instances	
Selecting an Instance	2-1
Viewing Instance Details	2-1
Using Packager	
About Packager	3-1
Requirements	3-1
How to Use Packager	3-2
Setting Up Packager	3-2
Setting Packager Customer Preferences	3-3
Registering Custom Applications in Packager	3-3
Working with CEMLI Files	3-5
Uploading CEMLI Files	3-5
Before Uploading CEMLI Files	3-6
Uploading Multiple CEMLI Files Manually	3-7
Uploading CEMLI Files as a .zip File with Manifest	3-9
Sorting CEMLI Files	3-11
Archiving CEMLI Files	3-12
Restoring CEMLI Files	3-12
Downloading CEMLI Files	3-13



Deleting CEMLI Files	3-13
Searching CEMLI Files	3-14
Building Custom Patches	3-15
Scheduling Custom Patches for Deployment	3-18
Scheduling a Custom Patch Deployment Using Packager	3-19
Monitoring RFCs	3-22
Scheduling a Custom Patch Deployment Using MOS	3-23
Using Reports	
Working with Reports	4-1
Exporting Data	4-1
Sorting Data	4-1
Managing Columns	4-2
Generating Reports for Uploaded Files	4-2
Viewing Uploaded Files	4-2
Searching Uploaded Files	4-3
Generating Reports for Patches	4-2
Viewing Patches	4-2
Searching Patches	4-2
Generating Reports for Change Requests	4-5
Viewing Change Requests	4-5
Searching Change Requests	4-6
Using Config Automation	
Working with Config Automation	5-1
Using Bounce	
Working with Bounce	6-1
CEMLI File Object Types	
Object Types	A-1
Patch Phases	A-5
Object Types That Do Not Require a Header	A-6
Object Types That Require a Header	A-7
Object Types That Support NLS Languages	A-9
Object Types That Use Parameters	A-10





Preface

Oracle Automated CEMLI Execution provides a range of tools and services designed to manage CEMLIs - that is, configurations, extensions, modifications, localizations, and integrations made to your Oracle E-Business Suite environment.

Audience

This document is intended for everyone using Oracle Automated CEMLI Execution.

Documentation Accessibility

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

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Conventions

The following text conventions are used in this document:

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



1

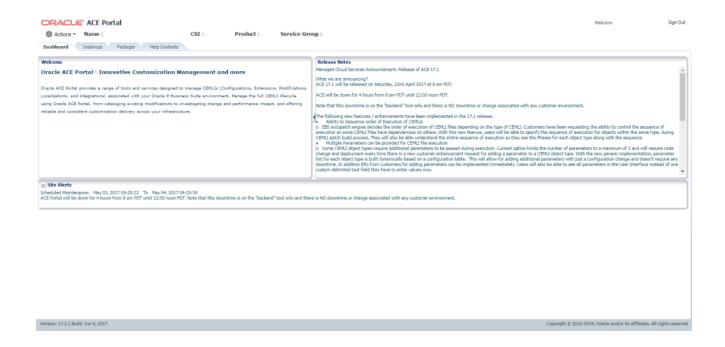
Introduction

The following topics are covered in this chapter:

- About Oracle Automated CEMLI Execution
- Requirements
- Signing In to Oracle Automated CEMLI Execution

About Oracle Automated CEMLI Execution

Oracle Automated CEMLI Execution is designed to manage customizations in your Oracle E-Business Suite environments. These customizations are known collectively as CEMLIs - that is, configurations, extensions, modifications, localizations, and integrations. When CEMLIs are not managed, they can contribute to increased maintenance costs, performance issues, and unplanned outages.



Dashboard

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

Instances

The Instances tab allows you to select the instance you want to associate your CEMLIs with, as well as to add new instances and edit existing instances.

Packager

Oracle Automated CEMLI Execution's core tool, Packager, provides you with the ability to bundle your CEMLIs 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.

Reports

The Reports tab allows you to search CEMLI data and export such data to Excel.

Help Contents

The Help Contents tab includes links to the Oracle Automated CEMLI Execution documentation, as well as video tutorials to help you get started with your CEMLIs.

Requirements

The minimum requirements to use Oracle Automated CEMLI Execution are:

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



SIs are termed customer support identifiers (CSIs) in Oracle Automated CEMLI Execution.

 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 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>

Signing In to Oracle Automated CEMLI Execution

Oracle Automated CEMLI Execution can be accessed directly through the ACE portal:

- Go to the Oracle Automated CEMLI Execution home page: https://aceportal.oracleoutsourcing.com/CEMLI/faces/CemliHome
- Enter your Single Sign-On (SSO) credentials.The Oracle Automated CEMLI Execution home page opens.



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.



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
- Requirements
- How to Use Packager
- Setting Up Packager
- Working with CEMLI Files
- Building Custom Patches
- Scheduling Custom Patches for Deployment

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:

- 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 Working with CEMLI Files.
- 4. Build patches using uploaded files, as described in Building Custom Patches.
- Schedule your custom patch(es) for deployment using Oracle's automated patching and change management systems, as described in Scheduling Custom Patches for Deployment.

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.



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):

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

Working with CEMLI Files

This section describes the actions that you can take on CEMLI files using Oracle Automated CEMLI Execution:

- Uploading CEMLI Files
- Sorting CEMLI Files
- Archiving CEMLI Files
- Restoring CEMLI Files
- Downloading CEMLI Files
- Deleting CEMLI Files
- Searching CEMLI Files

Uploading CEMLI Files

This section describes how to add your CEMLI files to Packager using the supported file formats and object types for your customized files, and upload them to the Oracle Automated CEMLI Execution repository. It also describes how to upload multiple CEMLI files using the standard method or in a .zip file.

You can add CEMLI files to Packager using either of the following approaches:

- Add multiple CEMLI files to Packager from the local drive, configuring the object types and other properties manually. Then select and upload the files to the Oracle Automated CEMLI Execution repository. For more information, see Uploading Multiple CEMLI Files Manually.
- Add multiple CEMLI files to Packager in a single .zip file with manifest. See Uploading CEMLI Files as a .zip File with Manifest.



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 Multiple CEMLI Files Manually

This section describes how to add multiple CEMLI files to Packager from the local drive, and configure the object types and other properties manually.

To upload CEMLI files manually:

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

The Choose Files dialog box opens.

7. Select one or more files that you want to upload, then click **Open**.



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

8. Click Ok.

The Upload Customized Files page is refreshed, listing all the selected files in the Upload Customized Files area.

Each record in the Upload Customized Files area shows the following information:

- Name: Specifies the name of the file to be uploaded.
- Description: Provides a free-text description of the file to be uploaded.
- Size (bytes): Specifies the size of the uploaded file, in bytes.
- 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.
- 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.



- Parameter: 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 CEMLI File Object Types.
- **9.** From the Object Type list, select the object type associated with your file.
- 10. In the Parameter field, click Parameters.

The Enter File Parameters window opens, showing the following information for each available parameter:

- Name: Specifies the name of the variable, as defined in the patch driver.
- Value: Specifies the value of the variable.
- Required: Specifies whether the parameter is mandatory or not.
- 11. In the Value field, enter values for the parameters specific to the selected object type.



Mandatory parameters are marked with Y in the Required field.

12. Click Save to go back to the Upload Customized Files area.

To add more files, follow steps 6 to 11.

To remove unnecessary files, go to step 13.

To upload the files currently in the Upload Customized Files area, go to step 14.

- 13. Remove any unnecessary files by selecting the file and clicking **Clear**, or remove all files by clicking **Clear All**.
- 14. Click Upload.

The Uploading Customized Files dialog box opens, showing the following information:

- Name: Specifies the name of the file to be uploaded.
- Status: Specifies the result of the file upload process.
- 15. Click Start Upload.

The files are uploaded in parallel, with progress tracked for each. Check that the status for each file upload is complete.



If the header information is incorrect or missing, the file upload will fail.

16. Click Close.

The Upload Customized Files page opens. Following a successful upload, all uploaded files are listed in the Currently Uploaded Files area, with the version information collected from the respective file headers.

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 uploaded file.
- Description: Optionally, add a description for each file. You can also use this field to identify different versions of the same file, such as different language versions.
- Product: Specifies the short name of the custom application the file is associated with.
- Object Type: In the Object Type column, verify that the default object type listed is correct. If necessary, select the correct object type for each file. For more information, see Before Uploading CEMLI Files.
- Parameters: Specifies the values for the parameters specific to the selected object type.
- Version: Version information is detected automatically in the file header. Header
 information is mandatory for most objects. For more information, see Before
 Uploading CEMLI Files. For files with object types that do not require a header, you
 will be prompted to enter a value in the Version field.
- Language: If NLS language support has been implemented, select the relevant language from the list. See Before Uploading CEMLI Files to understand which object types support language-specific files.
- 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 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



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 Uploading Multiple CEMLI Files Manually.

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.

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.
- 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 Uploading CEMLI Files as a .zip File with Manifest. 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.



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.

Sorting CEMLI Files

This section describes how to sort the files that have been uploaded in the Oracle Automated CEMLI Execution repository.

To sort files:

- 1. On the CEMLI home page, verify that your customer details are displayed.
- 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 the files you want to sort are associated with.
- Click Close.

The Product Name, Description and Created By fields are populated with the corresponding information.

- 6. *(Optional)* If the files that you need to sort are archived, select the Display Archived Files check box in the upper part of the Currently Uploaded Files table to see all archived files.
- 7. In the Currently Uploaded Files table, click any column name to sort the displayed files, as explained below:
 - In a the data is sorted in ascending order



- the data is sorted in descending order

Archiving CEMLI Files

This section describes how to archive files that have been uploaded in Oracle Automated CEMLI Execution. Archiving hides the files from view but the files still exist in the repository.



To include files that have been archived in the Currently Uploaded Files table, select the Display Archived Files check box.

To archive files:

- 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 the files you want to archive are associated with.
- 5. Click Close.

The Product Name, Description and Created By fields are populated with the corresponding information.

- 6. In the Currently Uploaded Files table, select one or more uploaded files.
- 7. From the Actions list, select Archive selected files.

The Currently Uploaded Files table refreshes, and the archived file is no longer displayed in the list. To see the archived file, select the Display Archived Files check box.

Restoring CEMLI Files

This section describes how to restore archived files to the view, so that they are displayed again in the Currently Uploaded Files table. Restored files are displayed even if the Display Archived Files check box is not selected.

To restore files:

- 1. On the CEMLI home page, verify that your customer details are displayed.
- 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 the files you want to restore are associated with.



5. Click Close.

The Product Name, Description and Created By fields are populated with the corresponding information.

- 6. In the upper part of the Currently Uploaded Files table, select the Display Archived Files check box to see all archived files.
- 7. Select the archived file(s) that you want to restore.
- 8. From the Actions list, select Restore selected files.

The Currently Uploaded Files table is refreshed, with the value in the Archived column set to N.

Downloading CEMLI Files

This section describes how to download files that have been uploaded in the Oracle Automated CEMLI Execution repository.

To download files:

- 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 the files you want to archive are associated with.
- 5. Click Close.

The Product Name, Description and Created By fields are populated with the corresponding information.

- 6. (Optional) If the files that you need to download are archived, select the Display Archived Files check box in the upper part of the Currently Uploaded Files table to see all archived files.
- 7. In the Currently Uploaded Files table, select the file(s) that you want to download.
- 8. From the Actions list, select **Download selected files**.

The Save As dialog box opens.

9. Navigate to the location where you want to save the file, then click **Save**.

A zip file that consists of all the selected files is downloaded to the selected location.

Deleting CEMLI Files

This section describes how to delete files that have been uploaded in Oracle Automated CEMLI Execution. Deletion removes the files from the repository, rendering them unavailable for future use. You can use this option when you have accidentally uploaded a file with a wrong object type, or you need to change the object type after the upload.



Note:

Newer versions of files must have the same object type as the previous version. If you need to upload a newer version of a file with a different object type, delete the older version and reupload the file with the new object type.

To delete files:

- 1. On the CEMLI home page, verify that your customer details are displayed.
- 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 the files you want to archive are associated with.
- 5. Click Close.

The Product Name, Description and Created By fields are populated with the corresponding information.

- 6. (Optional) If the files that you need to delete are archived, select the Display Archived Files check box in the upper part of the Currently Uploaded Files table to see all archived files.
- 7. In the Currently Uploaded Files table, select the file(s) that you want to delete.
- 8. From the Actions list, select **Delete selected files**.

The Currently Uploaded Files table refreshes, and the archived file is no longer displayed in the list. To see the archived file, select the Display Archived Files check box.

Searching CEMLI Files

This section describes how to search files that have been uploaded in Oracle Automated CEMLI Execution.

To search files:

- 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 the files you want to archive are associated with.
- 5. Click Close.

The Product Name, Description and Created By fields are populated with the corresponding information.



- 6. *(Optional)* If the files that you are looking for are archived, select the Display Archived Files check box in the upper part of the Currently Uploaded Files table to see all archived files.
- 7. Select one of the search criteria from the list in the upper right corner of the Currently Uploaded Files table:
 - Name
 - Description
 - Product
 - Object Type
 - Parameters
 - Version
 - Language
 - Uploaded By
 - Uploaded On
- 8. Enter the search string in the search field.
- 9. Click Search.

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

Building Custom 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.

To build a custom patch:

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

The Upload Customized Files tab is displayed by default.

- Click Build/Download Patches.
- 4. Enter the following patch information:
 - Patch Name: Enter a name for the patch, without spaces or special characters. This name must be different from the automatically generated name above.
 - Patch Description: Optionally provide a free-text description for the custom patch. You can use this field to identify the business functions and include other information that will help users understand the scope of the patch.
- 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.

To search for a particular file to include in the patch, continue to step $6\,6$. Otherwise, continue to step $8\,8$.

- 6. To search for a particular file in the list of available files, select one of the search criteria from the list, and enter the search string in the field. Available search criteria include:
 - Name
 - Description



- Product
- Object Type
- Parameters
- Version
- Language
- Uploaded By
- Uploaded On

7. Click Search.

8. Select the files you want to include in the patch, then use the green arrows to move these files from the Available Files area to the Selected Files area. You can also use the dragand-drop functionality to this effect.

Each record in the Selected 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 version of the file to be included in the patch.
- Language: Specifies the language associated with the file to be included in the patch.
- Phase: Specifies the phase in the AdPatch/adop patch where the file will be processed. This field is automatically populated when the user selects an object type.
 For more information on the phase ... Oracle Automated CEMLI Execution, see CEMLI File Object Types .
- Sequence: Specifies the sequence of execution of the file within the AdPatch/adop patch. You can enter a positive numeric value between 10 and 99, while keeping in mind that lower numbers are executed first. This field defaults to null. For more information on the default sequence for the various supported object types, see CEMLI File Object Types.
- 9. Once you have verified that all the required files are listed in the Selected Files area, click **Build** to start building the custom patch.
 - The Building Patch page opens, displaying the standard *readme* file that will be included with the custom patch.
- To generate JAR file using adognjar utility, after creating the class file (12.2), select the Generate JAR check box.
- **11.** Change the *readme* file to include any other information that is relevant for users.



12. Click **Build Patch**. The Build Patch page is refreshed, showing that the patch is being built. The build process analyzes each file, and includes it in the correct order in the patch. This process may take some time, depending on the number of files included.

When the patch build process is complete, a message is displayed on the Building Patch page. The custom patch is copied automatically to the middle tiers hosting Oracle E-Business Suite environments.

13. Click Close.

The Packager home page opens, with the custom patch listed in the Existing Patches List area.

Each record in the Existing Patches List area shows the following information:

- Name: Specifies the name of the patch.
- Description: Provides a free-text description for the custom patch.
- Patch File: Specifies the name of the file included in the patch.
- Created By: Specifies the email address of the user building the patch.
- Created On: Specifies the date when the patch was built.

You can deploy custom patches by creating and scheduling an RFC through Oracle Automated CEMLI Execution, as explained in Scheduling Custom Patches for Deployment. You can then select the patch(es) to be deployed from the list displayed when creating the RFC.

Scheduling Custom Patches for Deployment

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 schedule a custom patch deployment using Packager:

- 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 Create/Monitor RFCs.
- 4. 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).

To deploy the patch using an existing RFC, continue to step 5. To create a new RFC, continue to step 21.

5. (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.

- **6.** From the Target list, select the target the patch needs to be deployed to.
- Click Search.

All non-production RFCs are listed in descending order of the run completion date.

8. Click the RFC number, then click **Select**.

The Create/Monitor RFCs page refreshes.

9. Click Select Patch(es).

The Existing Cemli Patches page opens, showing all patches created in Oracle Automated CEMLI Execution, in descending order of the date created.



10. Press the Ctrl key, and select all patches that you want to include in the RFC, *in the order in which they should be applied*, then click **Select**. You can select up to 10 patches.

The Patch Number 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.

- 11. To deselect the selected patches, click **Unselect All**.
- **12.** To include patches one-by-one (with out pressing Ctrl key), select or search the patch, and then click **Add to PatchList**. Repeat the step for multiple patches.
- **13.** Select any of values in the Estimated Time to Apply Change field, ranging from 1 hour to 10 hours.



CEMLI patches are applied in hotpatch mode by default, which means that Oracle E-Business Suite services are not stopped and restarted.

14. 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.

Select the **Auto Skip** checkbox to complete the RFC despite any custom code failure during patch application by automatically skipping the failed adworker.

Select the **Auto Stop** checkbox to stop RFC execution in case of any custom code failures during patch application, and terminate the execution.

Note:

It is important to select one of the above options, while creating an ACE RFC. Rest of the RFC creation and scheduling process remains the same. By default, the **Auto Skip** checkbox is auto-selected. If RFC is auto-skipped or auto-stopped, then **MOS RFC Status** would be **Awaiting Customer**.

To select the services that need to be restarted after the patch is applied, continue to step 15. Otherwise, continue to step 21.

15. (Optional) If any service needs to be restarted after the patch is applied, click **Select Options**.

The **Select Bounce Options** dialog box opens, displaying the list of available hosts and services.

- **16.** Select the check box corresponding to the services that need to be restarted.
- 17. (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).
- 18. Click Select.



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.

- **19.** Click **Customer Note** to add an action plan or any other relevant information you want included in the RFC.
- 20. 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.

21. Click Create RFC.



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.

22. If you have MOS Schedule RFC privileges, the Auto RFC dialog box opens.

To schedule the RFC for execution in 30 minutes, continue to step 23.

To select another execution date and time, continue to step 25.

23. Click Yes to schedule the RFC for execution in 15 minutes.



If another RFC is already scheduled for execution at the same time, for the same instance, the Schedule RFC dialog box opens, allowing you to choose another time slot for your RFC. Please continue to step 25.

- 24. Click OK.
- **25.** Click **No** in the Auto RFC dialog box to select a future execution date and time. The Schedule RFC dialog box opens.
- **26.** Click the calendar icon (iii) to select a date.
- **27.** Select the appropriate time from the menu, then click **Check**.
- 28. If the time slot availability is confirmed, click **Approve**.



The RFC is displayed in the RFC List table, with the *Open - Ready for Execution* status. For more information on the details and actions available in the RFC List table, see Monitoring RFCs.

Monitoring RFCs

The RFC List table allows you to:

- see RFC details in My Oracle Support
- view the current status of an RFC in Oracle Automated CEMLI Execution
- cancel, schedule, and reschedule an RFC
- see the log files associated with an RFC

The following information is available for each record in the RFC List table:

- 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
- Cancel: Click the **Cancel** button in this field to cancel an RFC with the *Open Ready for Execution* and *Open Approved and Scheduled* statuses.



- Scheduling: Click the **Schedule** button in this field to schedule an RFC with the *Open Ready for Scheduling/Approval* status or to reschedule an RFC with the *Open Ready for Execution* and *Open Approved and Scheduled* statuses.
- Logs: Click the Logs button in this field to see and download the log file contents for completed RFCs. The RFC Logs window opens, allowing you to view the content of a specific log file and download an archive with the available log files.

Scheduling a Custom Patch Deployment Using MOS

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



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.



4

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:

- Search your data of interest, as explained in Searching Uploaded Files, Searching Patches and Searching Change Requests, respectively.
- 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:

- 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:
 - \(\blacktriangle \) the data is sorted in ascending order
 - T 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.
- Select the Ascending and Descending check boxes, as appropriate.
- 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 at 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.
- 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.

- (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.



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.



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.

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.



5

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:

 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.
- 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.



6

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.

The following topic is covered in this chapter:

Working with Bounce

Working with Bounce

To work with Bounce:

- 1. Click the Bounce tab, and then under Create/Monitor RFCs, select the RFC Details.
- From the Target list, select the environment which needs to be bounced. This list is populated with all the environments associated with the support identifier (SI).
- 3. For Operation, select any of the following:
 - Bounce
 - Stop
 - Start (This option is visible only when previous RFC operation is stopped)
- 4. 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.

- For the Operation Stop, you must additionally select Blackout Duration. You must start the services before the Blackout duration by creating Start Services RFC.
- Click Customer Note to add an action plan or any other relevant information you want included in the RFC.
- 7. Click Create RFC.



To schedule RFCs for Bounce, you must have the MOS Authorized Approver privilege for the Oracle E-Business Suite environment selected. Otherwise, request that a MOS authorized approver for your organization schedules the RFC through Oracle Automated CEMLI Execution (ACE).

8. If you have MOS Schedule RFC privileges, the **Auto RFC** dialog box opens.

9. Click Yes to schedule the RFC for execution in 15 minutes.

If another RFC is already scheduled for execution at the same time, for the same instance, the Schedule RFC dialog box opens, allowing you to choose another time slot for your RFC. Continue to step 12.

- 10. Click OK.
- 11. Click **No** in the **Auto RFC** dialog box to select a future execution date and time.
- 12. Click the calendar icon (iii) to select a date.
- **13.** Select the appropriate time from the menu, then click **Check**.
- **14.** If the time slot availability is confirmed, click **Approve**.

The RFC is displayed in the RFC List table, with the *Open - Ready for Execution* status. For more information on the details and actions available in the RFC List table, see Monitoring RFCs.



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
- Object Types That Do Not Require a Header
- Object Types That Require a Header
- Object Types That Support NLS Languages
- Object Types That Use Parameters

Object Types

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



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
DDF 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
DF Templates	pdft	PDF template file	Not applicable	Not applicable	Not applicable
erl Module	pm	Perl module file	Not applicable	Not applicable	Not applicable
erl Script	pl	Perl script file	Not applicable	Not applicable	Not applicable
ortable Document ormat File	pdf	Adobe Acrobat document	Not applicable	Not applicable	Not applicable
ortable Network Fraphic File	png	Portable network graphics file	Not applicable	Not applicable	Not applicable
RT File	prt	Oracle Reports driver file	Not applicable	Not applicable	Not applicable
apid Install esponse	rsp	Rapid Install Response file	Not applicable	Not applicable	Not applicable
eports Library ource and Runtime	rpll	Custom library attached to reports	Not applicable	Not applicable	Not applicable
eports Source and untime	rdf	Custom report	Not applicable	Not applicable	Not applicable
TF File	rtf	Rich Text Format file	Not applicable	Not applicable	Not applicable
hell Script Copy nd Execute at End	shell_exec_last	Copy and execute Shell script at end of patching	last	98	Not applicable
hell Script Copy nd Execute at Start	shell_exec_first	Copy and execute Shell script at start of patching	first	3	Not applicable
hell Script Copy Inly	shell	Shell script copy to CUSTOM_TOP	Not applicable	Not applicable	Not applicable
QL 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 <i>plb</i> .
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 <i>pls</i> .
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.

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



^{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 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	Υ
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	Υ



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.