

**New Oracle adcgjar utility provided starting with Release 12.2.X**  
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With Oracle's stated direction of moving towards web based forms that utilize java (instead of Oracle Forms), it is becoming increasingly necessary for Oracle developers to add OAF/ADF Framework to their skill sets. Starting Release 12.2.X, Oracle has provided a new utility called adcgjar, which allows developers to extend Oracle classes for OAF based forms. This article is geared towards developers with a working knowledge of OAF in previous releases, and explains how the utility is to be used in the new release.

**adcgjar utility**

Oracle has introduced a new utility called "adcgjar" from R12.2 onwards. This is required for deploying custom Oracle Application Framework (OAF) Controllers/View Object /Entity Object Extensions.

This utility is used when custom java files are placed in the standard location for custom applications namely \$JAVA\_TOP/<Company identifier>/\*.

This utility generates and signs a file named customall.jar file containing the custom Java and BC4J code and extensions. This customall.jar file is included in the ebsProductManifest.xml so that the customall.jar will be in the CLASSPATH through the ebs-product shared library and available for the WebLogic server to pick up.

The adcgjar utility is run on the command line without any parameters. When run, it will prompt for user name and password of the APPS user.

The utility performs the following steps:

1. Creates a temporary custom.zip file that contains all the directories under \$JAVA\_TOP
2. Generates and signs the customall.jar file with the contents of the custom.zip

When custom java files are placed in any other non-standard locations, for example,

- \$JAVA\_TOP/oracle/<company identifier >
- \$JAVA\_TOP/oracle/java/<company identifier>
- and so on

adcgjar utility cannot be used. Instead, the custom jar file must be created manually and it must be made available for WebLogic to pick up.

Detailed steps for creating custom jar file manually are given below.

1. Create a temporary custom.zip file which contains all the custom application's directories/files at the non-standard location. The commands are:
  1. `cd $JAVA_TOP`
  2. `zip -r customprod.zip <directory list>` where the <directory list> is the list of all the directory paths, relative to \$JAVA\_TOP, for custom application's java files at the non-standard location.
2. Generate and sign the customprod.jar file.

```
Command: adjava oracle.apps.ad.jri.adjmx -areas
$JAVA_TOP/customprod.zip -outputFile $JAVA_TOP/customprod.jar -jar
$CONTEXT_NAME 1 CUST jarsigner -storePass <KeyStore Password> -keyPass
<Key Password>
```

3. Delete the temporary customprod.zip. Command: `rm $JAVA_TOP/customprod.zip`
4. Include the entry for customprod.jar in the [ebsProductManifest.xml](#) and bounce the web tier.

Below is a summary of steps to deploy custom OAF extensions:

1. Run the adop prepare phase.
2. Source the patch edition environment.
3. For OA Extension Controller Java class file changes and BC4J XML file changes, copy the .class and .xml files to `$JAVA_TOP/<Company identifier>/*`.
4. Run the adcgjar utility
5. For BC4J substitutions and JRAD XML file changes, copy the JPX and XML files to the `$<CUSTOM>_TOP/mds` directory, where `$<CUSTOM>_TOP` refers to your custom product top.
6. Invoke the JPXImporter and XMLImporter utilities in the Patch file system to load the contents of the JPX and XML files to the MDS repository
7. Run the adop cutover phase.

## **Custom synchronization driver file**

To ensure that the custom java extension files are synchronized between the Run and Patch file systems the next time you run the adop prepare phase, You should add entries for all your custom files to the custom synchronization driver file located at `$APPL_TOP_NE/ad/custom/adop_sync.drv`. The adop utility uses this driver file to synchronize files between the run file system and the patch file system.

Add your entries in the section marked by the '#Begin Customization' and '#End Customization' comments.

When adding your entries, follow the syntax of the examples provided in the `%s_adtop%/admin/template/adop_sync_drv.tmp` template file. For example, if you have custom java class files under the `$JAVA_TOP/<Company identifier>/*` directory, and if all the files under this directory need to be synchronized between the patch file system and the run file system, then add the following entry in the custom synchronization driver file:

```
rsync -zr %s_current_base%/EBSapps/comn/java/classes/<Company identifier>
%s_other_base%/EBSapps/comn/java/classes
```

Any paths you include in your entries should be specified relative to `s_current_base` and `s_other_base`.

Following the steps above will ensure that all OAF customizations are made correctly as per Oracle guidelines.

### **About O2Works**

O2 Works LLC was founded in 2001 as has its principal office in Dallas, Texas located on 1701 N Market Street, Suite 313 along with offices in Chicago, Denver and Virginia. We focus strictly on providing expert, hands-on consulting resources for the Oracle e-Business suite of applications. Our skilled consultants have more than 18 years of Oracle applications experience as well as strong business backgrounds.

We are a Certified Oracle Partner firm and are very active in the Oracle Application User Group, where we are a Level 3 partner. We invest a significant amount of time and effort in our Oracle Application User Group (OAUG) activities. In addition to being presenters at numerous events, we hold positions for

various national and regional groups. This affords us the ability to build relationships with new leaders at Oracle and work with Oracle development on new features and programs.

We are 100% focused on the Oracle e-Business suite and have some of the most experienced and highly regarded hands-on consultants in the industry. “Putting Oracle to Work” means that we help our customers get the most out of their Oracle investment by providing our in-depth application knowledge and effectively communicating shared best practices. Our ability to add value to an organization is further enhanced by our years of practical business experience and excellent communication skills.

We understand the importance of combining business knowledge with functional Oracle application know-how. It is that blend that enables the innovative problem solving that O2Works is known for. Unfortunately, many organizations today may lack resources with the depth and breadth of knowledge to get the most out of their Oracle ERP investment. With our up-to-date knowledge of the latest release of the Oracle applications and Best Practice approaches as well as tricks-of-the-trade, we can help companies to bridge the gap.

O2Works, while focused strictly on the Oracle e-Business suite of applications offers a variety of value-added services including:

- ☑ **Upgrades and/or Re-implementations** – We provide the full range of capabilities from Upgrade planning to functional testing and training as well as DBA and Project Management support
- ☑ **Implementations** – We offer the full range of technical and functional EBS implementation services for the full suite or individual modules depending upon the customer’s needs
- ☑ **Remote Support** - DBA / Sys. Admin and functional apps support – Our Experts on Call offerings (DBA/Sys Admin., Functional, and Developer/Analyst) supply organizations with personalized, high quality, rapid response support at a fraction of the cost of an FTE
- ☑ **Application Optimization & Performance Tuning** – We provide assessments as well as remediation services (including training) for all types of functional and technical issues in order to assist organizations to maximize their Oracle investment
- ☑ **Project Management** - full time or supplemental – Our experienced resources who have both application and business skills are capable of providing Project Management services on either a part-time or full time basis depending on the project needs
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- ☑ **Quality Assurance** – Heavily experienced resources and proven, successful methodology enable us to deliver Quality Assurance to all types of Oracle EBS projects and issues
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- ☑ **Testing: planning and support** – Whether is an implementation (full or partial), an upgrade, or just required patching, we provide test plan assessment and development services as well as testing support
- ☑ **Applications Restructuring Planning** – Many organizations have outgrown their original Oracle applications implementations because of changes to their business structure. With our intricate knowledge of the Oracle applications and our insight as to future Oracle direction, we frequently assist organizations in reviewing their Oracle application footprint and support them by providing knowledge about new features or functionality that can be incorporated
- ☑ **Divestitures and Acquisitions** - rapid re-implementations. These types of transactions generally cause major changes to the ERP landscape at a time when things must be done quickly. Our proven rapid re-implementation approach allows companies to focus on those set-up issues that need to change and streamlines the planning process and implementation timeline

Our experienced, hands-on resources enable us to bring a strong breadth of services focused on the e-Business suite. There is no substitute for experience. We have a strong mix of functional consultants with business backgrounds and effective communications skills who know how to use the Oracle applications to solve business problems. All of our consultants are based in the United States.

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