

Oracle® Retail Active Retail Intelligence
Installation Guide
Release 13.1.1

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Preface

Oracle Retail Installation Guides contain the requirements and procedures that are necessary for the retailer to install Oracle Retail products.

Audience

This Installation Guide is written for the following audiences:

- Database administrators (DBA)
- System analysts and designers
- Integrators and implementation staff

Related Documents

You can find more information about this product in these resources:

- *Oracle Retail Active Retail Intelligence Release Notes*
- *Oracle Retail Active Retail Intelligence User Guide*
- *Oracle Retail Active Retail Intelligence Online Help*

Customer Support

To contact Oracle Customer Support, access My Oracle Support at the following URL:
<https://metalink.oracle.com>

When contacting Customer Support, please provide the following:

- Product version and program/module name
- Functional and technical description of the problem (include business impact)
- Detailed step-by-step instructions to re-create
- Exact error message received
- Screen shots of each step you take

Review Patch Documentation

If you are installing the application for the first time, you install either a base release (for example, 13.0) or a later patch release (for example, 13.0.2). If you are installing a software version other than the base release, be sure to read the documentation for each patch release (since the base release) before you begin installation. Patch documentation can contain critical information related to the base release and code changes that have been made since the base release.

Oracle Retail Documentation on the Oracle Technology Network

In addition to being packaged with each product release (on the base or patch level), all Oracle Retail documentation is available on the following Web site (with the exception of the Data Model which is only available with the release packaged code):

http://www.oracle.com/technology/documentation/oracle_retail.html

Documentation should be available on this Web site within a month after a product release. Note that documentation is always available with the packaged code on the release date.

Conventions

Navigate: This is a navigate statement. It tells you how to get to the start of the procedure and ends with a screen shot of the starting point and the statement “the Window Name window opens.”

Note: This is a note. It is used to call out information that is important, but not necessarily part of the procedure.

This is a code sample
It is used to display examples of code

A [hyperlink](#) appears like this.

Preinstallation Tasks

Check Database Server Requirements

General Requirements for a database server running ARI include:

Supported on:	Versions Supported:
Database Server OS	<p>OS certified with Oracle Database 11gR1 Enterprise Edition. Options are:</p> <ul style="list-style-type: none"> ▪ Oracle Enterprise Linux 5 Update 2 (OEL 5.2) for Linux x86-64 ▪ AIX 6.1 TL1 ▪ Solaris 10 ▪ HP-UX 11.31 (Integrity)
Database Server	<p>Oracle Database 11g Release 1 Enterprise Edition (minimum 11.1.0.7 patchset required) with the following patches and components:</p> <p>Patches:</p> <ul style="list-style-type: none"> ▪ 7036284 (LOADJAVA RUN IN A DV ENVIRONMENT CANNOT LOAD CLASSES WITH A NAME LONGER THAN 128) ▪ 7378322 (ORA-00600: internal error code, arguments: [6704], [1], [532241], [532237]) ▪ 6800649 – (AIX only) when non-Oracle user uses client utilities sqlldr/sqlplus/impdp/expdp, core dump is generated. Need to “relink all” after applying the patch ▪ 7697360 ORA-00600: internal error code, arguments: [k2vcbk_6], Database crashed during transaction recovery. <p>Components:</p> <ul style="list-style-type: none"> ▪ Oracle Database 11g ▪ Oracle Partitioning ▪ Oracle Net Services ▪ Oracle Call Interface (OCI) ▪ Oracle Programmer ▪ Oracle XML Development Kit ▪ Examples CD (Formerly the companion CD) <p>ANSI compliant C compiler (certified with OS and database version)</p> <p>Perl compiler 5.0 or later</p> <p>x-Windows interface</p>

Verify Single Sign-On

If a Single Sign-On is to be used, verify the Oracle Infrastructure Server 10g version 10.1.2.2 server has been installed. Verify the Mid-Tier server hosting Oracle Forms is registered with the Infrastructure Oracle Internet Directory.

Check Application Server Requirements

General requirements for an application server capable of running ARI include:

Supported on:	Versions Supported:
Application Server OS	OS certified with Oracle Application Server 10g version 10.1.2.3. Options are: <ul style="list-style-type: none">Oracle Enterprise Linux 5 Update 2 (OEL 5.2) for Linux x86-64AIX 6.1 TL1Solaris 10HP-UX 11.31 (Integrity)
Application Server	Oracle Application Server Forms and Reports 10g version 10.1.2.3 Patches: <ul style="list-style-type: none">7379122 MLR ON TOP OF 10.1.2.3 FOR CPUOCT2008

Check Web Browser and Client Requirements

General requirements for client running ARI include:

Requirement	Version
Operating system	Windows 2000 or XP
Display resolution	1024x768
Processor	Pentium processor (minimum 450 MHz)
Memory	minimum of 256 MB RAM
Sun JRE Plug-in	1.4.1+
Microsoft Internet Explorer	version 5.5, 6.0 and higher

Supported Oracle Retail Products

Requirement	Version
Oracle Retail Merchandising System (RMS)/Oracle Retail Trade Management (RTM)/Oracle Retail Sales Audit (ReSA)	13.1.1

RAC and Clustering

Oracle Retail Active Retail Intelligence has been validated to run in two configurations on Linux:

- Standalone OAS and Database installations
- Real Application Cluster Database and Oracle Application Server Clustering

The Oracle Retail products have been validated against a 11.1.0.7 RAC database. When using a RAC database, all JDBC connections should be configured to use OCI connections rather than THIN connections. It is suggested that when using OCI connections, the Oracle Retail products database be configured in the tnsnames.ora file used by the Oracle Application Server installations.

Clustering for Oracle Application Server 10.1.3 is managed as an Active-Active cluster accessed through a hardware Load Balancer. It is suggested that a VirtualHost be added to the OAS 10.1.3 reflecting the Virtual Server Name configured in the load balancer. It is also suggested that the OC4J select method be configured to prefer the use of local OC4J instances. The Oracle Retail products are currently not validated to be distributable at the application level in an OAS 10.1.3 cluster.

Clustering for Oracle Application Server 10.1.2 is managed as an Active-Active cluster accessed through a hardware Load Balancer. It is suggested that the Web Cache installation included with OAS 10.1.2 be configured to reflect all application server Mid-Tier installations. Validation has been completed utilizing a RAC 11.1.0.7 Oracle Internet Directory database with the OAS 10.1.2 cluster.

References for Configuration:

- Oracle® Application Server High Availability Guide 10g Release 3 (10.1.3) Part Number B15977-02
- Oracle® Application Server High Availability Guide 10g Release 2 (10.1.2) Part Number B14003-05
- Oracle Real Application Clusters Administration and Deployment Guide 11g Release 1 (11.1) Part Number B28254-07

Database Installation Tasks

Before you apply the ARI 13.1.1 patch:

- Make a backup of all your objects and database schema.
- Check that RMS 13.1.1 and ARI 13.1.0 are installed.
- Review the enclosed ARI 13.1.1 Release Notes.

Before copying over any files:

- Note whether customizations have been made to the module. If so, then the customizations must be reapplied over the new version of the module (or the fix may need to be applied to the custom version of the code).
- Copy the original files to a different directory before copying over them in case they need to be referred to at a later date.

Note: These instructions refer to ARI13MASTER as the Oracle owning schema.

Copy from CD Directory

1. Copy the ari1311dbpatch.zip file from the CD /dbserverunix directory to a newly created staging directory on your UNIX server.
2. Unzip the file by entering:

```
unzip ari1311dbpatch.zip
```

Alter ARI Database Objects

1. Change directories to INSTALL_DIR/db_objects.
2. Log into SQL*Plus as <master schema owner> and execute ari1311dbo.sql. Review ari1311dbo.log for errors and correct as needed.
3. Log into SQL*Plus <master schema owner> as and execute INSTALL_DIR/utility/inv_obj_comp.sql to validate any objects that may have become invalid.

Insert Primary Language Data

Perform the following procedure if English is your primary language:

1. Change directories to INSTALL_DIR/data
2. Set the SQL*Plus session so that the encoding component of the NLS_LANG is UTF8.
Example: AMERICAN_AMERICA.UTF8
3. Log into SQL*Plus as ARI 13 MASTER and run the following command:

```
SQL>@c7636420_1209_ari_encoded_string.sql
```

Perform the following procedure if English is NOT your primary language:

These scripts are only for customers who have a primary language of one of the following: German, Italian, Spanish, French, Korean, Brazilian Portuguese, Russian, Japanese, Simplified Chinese or Traditional Chinese. The language codes are as follows:

- de – German
- es – Spanish
- fr – French
- ja – Japanese
- ko – Korean
- it – Italian
- ru - Russian
- ptb – Brazilian Portuguese
- zhs – Simplified Chinese
- zht – Traditional Chinese

Note: Only one language can be set as the primary language for the system.

1. Change directories to `INSTALL_DIR/data`
2. Set the SQL*Plus session so that the encoding component of the `NLS_LANG` is UTF8.
Example: `RUSSIAN_RUSSIA.UTF8`
3. Log into SQL*Plus as ARI 13 MASTER and run the following command:
`SQL>@c7636420_1209_ari_encoded_string_[lang].sql`

Application Installation Tasks

These instructions assume that Oracle Application Server 10g 10.1.2.3 Forms and Reports Services has been already been installed

Compile ARI Oracle Forms

There is only one form, aviewer.fmb, in this patch.

Setup Environment Variables

1. As the oretail UNIX user, set the DISPLAY variable to the IP address plus ":0.0" (ie: 10.1.1.1:0.0) of the machine that is being used to perform the compilation from.
2. As the oretail user, set the following variables:

Note: INSTALL_DIR is the location where ARI 13 is installed.

Note: AS10GR2_ORACLE_HOME is the location where Oracle Application Server 10g 10.1.2.3 Forms and Reports Services is installed.

ORACLE_HOME=AS10GR2_ORACLE_HOME

PATH=\$ORACLE_HOME/bin:\$ORACLE_HOME/opmn/bin:\$ORACLE_HOME/dcm/bin:INSTALL_DIR/forms10gr2_scripts:\$PATH

All:

```
CLASSPATH=$ORACLE_HOME/jlib/importer:
$ORACLE_HOME/jlib/debugger.jar:$ORACLE_HOME/jlib/utj.jar:$ORACLE_HO
ME/jlib/ewt3.jar:$ORACLE_HOME/jlib/share.jar:$ORACLE_HOME/jlib/dfc.jar:$
ORACLE_HOME/jlib/help4.jar:$ORACLE_HOME/jlib/oracle_ice.jar:$ORACLE_H
OME/jlib/jewt4.jar
```

```
FORMS_BUILDER_CLASSPATH=$CLASSPATH
```

```
FORMS_PATH=INSTALL_DIR/forms/bin:$ORACLE_HOME/forms
```

```
UP=<ARI master schema owner>/<ARI master schema password>@<ARI database>
```

Solaris:

```
LD_LIBRARY_PATH=$ORACLE_HOME/lib:$ORACLE_HOME/jdk/jre/lib/sparc:
$ORACLE_HOME/jdk/jre/lib/sparc/native_threads
```

HP-UX:

```
SHLIB_PATH=$ORACLE_HOME/lib32:$ORACLE_HOME/lib:$ORACLE_HOME/j
dk/jre/lib/PA_RISC:$ORACLE_HOME/jdk/jre/lib/PA_RISC/server
```

AIX:

```
LD_LIBRARY_PATH=$ORACLE_HOME/lib:$ORACLE_HOME/lib32:$ORACLE_H
OME/jdk/jre/lib
```

```
LIBPATH=$LD_LIBRARY_PATH
```

Note: Verify that TNS is set up correctly by using the UP variable to successfully log into the ARI 13 schema.

Example: /u00/oracle> sqlplus \$UP

ARI Forms Installation

1. Copy all forms (*.fmb files) in the <staging area>/forms/src directory to the INSTALL_DIR/forms/bin directory.
2. Run fmb2fmx10gr2 (in INSTALL_DIR/forms/bin) to generate ARI runtime forms – .fmx's.
3. Check to make sure that each non-reference form (.fmb file) has a corresponding .fmx (to ensure that all non-reference .fmb's compiled successfully). If a form fails to compile (there is no .fmx file), it has to be manually compiled with Oracle Developer Suite 10g (10.1.2.3).
4. Remove all non-reference form forms from INSTALL_DIR/forms/bin; the following syntax will leave all reference forms (fm_*.fmb) in the bin directory, while removing all other forms:

```
> for PROG in `ls *.fmb | grep -v fm_`
> do PROGNAME=`echo $PROG`
> rm $PROGNAME
> done
```

ARI Help Installation

1. Change directories to INSTALL_DIR/web_html and unzip the webhelp.zip file.
2. Copy the ARI helpfiles to RMS_INSTALL_DIR/web_html/helpfiles/english/ARI.

Example:

```
> cd INSTALL_DIR/web_html
> cp -R *
RMS_INSTALL_DIR/web_html/helpfiles/english/ARI/
```

If the application crashes when using help, verify that basejpi.htm is being used in the following file: \$ORACLE_HOME/forms/server/formswb.cfg

```
# System parameter: default base HTML file
baseHTML=basejpi.htm
# System parameter: base HTML file for use with JInitiator client
baseHTMLjinitiator=basejpi.htm
# System parameter: base HTML file for use with Sun's Java Plug-In
baseHTMLjpi=basejpi.htm
```

Appendix: Installation Order

This section provides a guideline as to the order in which the Oracle Retail applications should be installed. If a retailer has chosen to use some, but not all, of the applications the order is still valid less the applications not being installed.

Note: The installation order is not meant to imply integration between products.

Enterprise Installation Order

1. Oracle Retail Merchandising System (RMS), Oracle Retail Trade Management (RTM), Oracle Retail Sales Audit (ReSA)
2. Oracle Retail Service Layer (RSL)
3. Oracle Retail Extract, Transform, Load (RETL)
4. Oracle Retail Active Retail Intelligence (ARI)
5. Oracle Retail Warehouse Management System (RWMS)
6. Oracle Retail Allocation
7. Oracle Retail Invoice Matching (ReIM)
8. Oracle Retail Price Management (RPM)

Note: During installation of RPM, you are asked for the RIBforRPM provider URL. Since RIB is installed after RPM, make a note of the URL you enter. If you need to change the RIBforRPM provider URL after you install RIB, you can do so by editing the `jndi_provider.xml` file.

9. Oracle Retail Central Office (ORCO)
10. Oracle Retail Returns Management (ORRM)
11. Oracle Retail Back Office (ORBO) or Back Office with Labels and Tags (ORLAT)
12. Oracle Retail Store Inventory Management (SIM)

Note: During installation of SIM, you are asked for the AIP provider URL. Since AIP is installed after SIM, make a note of the URL you enter. If you need to change the AIP provider URL after you install AIP, you can do so by editing the `jndi_providers_ribclient.xml` file.

13. Oracle Retail Predictive Application Server (RPAS)
14. Oracle Retail Demand Forecasting (RDF)
15. Oracle Retail Category Management (CM)
16. Oracle Retail Replenishment Optimization (RO)
17. Oracle Retail Analytic Parameter Calculator Replenishment Optimization (APC RO)
18. Oracle Retail Regular Price Optimization (RPO)
19. Oracle Retail Merchandise Financial Planning (MFP)
20. Oracle Retail Size Profile Optimization (SPO)

21. Oracle Retail Assortment Planning (AP)
22. Oracle Retail Item Planning (IP)
23. Oracle Retail Item Planning configured for COE (IPCOE)
24. Oracle Retail Advanced Inventory Planning (AIP)
25. Oracle Retail Integration Bus (RIB)
26. Oracle Retail Point-of-Service (ORPOS)
27. Oracle Retail Mobile Point-of-Service (ORMPOS)
28. Oracle Retail Analytics Applications
29. Oracle Retail Data Warehouse (RDW)
30. Oracle Retail Workspace (ORW)