Oracle® Retail

Functional Artifact Generator Guide

Release 14.0.1

E53683-01

May 2014

ORACLE®

Oracle Retail Functional Artifact Generator Guide, Release 14.0.1

E53683-01

Primary Author: Gloreen Soans

Contents

Send Us Your Comments

Oracle Retail Functional Artifact Generator Guide, Release 14.0.1

Oracle welcomes customers' comments and suggestions on the quality and usefulness of this document.

Your feedback is important, and helps us to best meet your needs as a user of our products. For example:

- Are the implementation steps correct and complete?
- Did you understand the context of the procedures?
- Did you find any errors in the information?
- Does the structure of the information help you with your tasks?
- Do you need different information or graphics? If so, where, and in what format?
- Are the examples correct? Do you need more examples?

If you find any errors or have any other suggestions for improvement, then please tell us your name, the name of the company who has licensed our products, the title and part number of the documentation and the chapter, section, and page number (if available).

Note: Before sending us your comments, you might like to check that you have the latest version of the document and if any concerns are already addressed. To do this, access the new Applications Release Online Documentation CD available on My Oracle Support and www.oracle.com. It contains the most current Documentation Library plus all documents revised or released recently.

Send your comments to us using the electronic mail address: retail-doc_us@oracle.com

Please give your name, address, electronic mail address, and telephone number (optional).

If you need assistance with Oracle software, then please contact your support representative or Oracle Support Services.

If you require training or instruction in using Oracle software, then please contact your Oracle local office and inquire about our Oracle University offerings. A list of Oracle offices is available on our Web site at www.oracle.com.

Preface

The *Oracle Retail Functional Artifact Generator Guide* provides information about the tool as well as installation instructions.

Audience

The *Oracle Retail Functional Artifact Generator Guide* is intended for the Oracle Retail Integration application integrators and implementation staff, as well as the retailer's Information Technology personnel.

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 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.

Related Documents

For more information, see the following documents in the Oracle Retail Integration Bus documentation set:

- *Oracle Retail Integration Bus Installation Guide*
- *Oracle Retail Integration Bus Operations Guide*
- *Oracle Retail Integration Bus Release Notes*

Customer Support

To contact Oracle Customer Support, access My Oracle Support at the following URL:

`https://support.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

When you install the application for the first time, you install either a base release (for example, 14.0) or a later patch release (for example, 14.0.1). If you are installing the base release, additional patch, and bundled hot fix releases, read the documentation for all releases that have occurred since the base release before you begin installation. Documentation for patch and bundled hot fix releases can contain critical information related to the base release, as well as information about code changes since the base release.

Improved Process for Oracle Retail Documentation Corrections

To more quickly address critical corrections to Oracle Retail documentation content, Oracle Retail documentation may be republished whenever a critical correction is needed. For critical corrections, the republication of an Oracle Retail document may at times not be attached to a numbered software release; instead, the Oracle Retail document will simply be replaced on the Oracle Technology Network Web site, or, in the case of Data Models, to the applicable My Oracle Support Documentation container where they reside.

This process will prevent delays in making critical corrections available to customers. For the customer, it means that before you begin installation, you must verify that you have the most recent version of the Oracle Retail documentation set. Oracle Retail documentation is available on the Oracle Technology Network at the following URL:

`http://www.oracle.com/technetwork/documentation/oracle-retail-100266.html`

An updated version of the applicable Oracle Retail document is indicated by Oracle part number, as well as print date (month and year). An updated version uses the same part number, with a higher-numbered suffix. For example, part number E123456-02 is an updated version of a document with part number E123456-01.

If a more recent version of a document is available, that version supersedes all previous versions.

Oracle Retail Documentation on the Oracle Technology Network

Documentation is packaged with each Oracle Retail product release. Oracle Retail product documentation is also available on the following Web site:

`http://www.oracle.com/technetwork/documentation/oracle-retail-100266.html`

(Data Model documents are not available through Oracle Technology Network. These documents are packaged with released code, or you can obtain them through My Oracle Support.)

Documentation should be available on this Web site within a month after a product release.

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 Artifact Generator is a collection of tools designed to create the various artifacts used within the Oracle Retail messaging infrastructure from an XML Schema (XSD). These XSDs are called Business Objects. They represent the functional definition and technical structure of a Retail Business Entity.

Messages (business objects) that flow between the retail applications are XML messages. Oracle Retail XML message definitions are defined statically through XML schemas (XSDs). The integration infrastructure works with multiple technologies (Java EE, PL/SQL) and so has different ways of representing the same functional XML message structure in different technologies. To make it easier to maintain the various functional artifacts, the Artifact Generator was developed.

The Artifact Generator tool is being made available to give customers the ability to add/modify data which flows from one application to the other.

This guide provides details on the installation and configuration of the tool.

Note: For more complete scenarios and best practices on usage of the tool, see Chapter 11, "Customization and Extension," in the *Oracle Retail Integration Bus Implementation Guide*. Also see the *Oracle Retail Service-Oriented Architecture Enabler Tool Guide*.

Concepts

The functional artifacts are different representations of the same message structure/definition in different technologies (Java EE, PL/SQL). Depending on the retail application's technology, appropriate artifacts are used, converting one from the other as needed.

The core concept is that the single source of truth is the XSD. The XSDs are strict and used by the Artifact Generator to produce the design time physical objects used by the application's API technology (PL/SQL or Java), as well as the runtime validations used by the various integration components.

The most common customization requirements in messaging are the addition of new elements to existing payloads, or the creation of new payloads to support custom business logic added to the base integrated applications.

Each retail message family and type combination maps to one and only one functional message definition. One functional message definition can map to one or more than one family/type combination within the same family. The RTG Integration Guide details these objects and the relationships.

Note: See the *Oracle Retail Integration Bus Integration Guide*.

The Oracle AIA approach and Enterprise Business Object (EBO) model, as well as other industry standards have defined an approach using well known tags and locations to separate the custom extension from the base. This allows the extensions to be preserved as updates to base are applied. The Oracle Retail Business Objects have been designed and constructed to accommodate customer extensions following the Oracle AIA EBO standards and guidelines.

For details and in depth examples, see:

- *Oracle Retail Functional Artifacts Guide*
- Oracle Application Integration Architecture - Enterprise Object Library: Enterprise Business Objects and Messages XML Naming and Design Rules

These standards and conventions define Business Object extension and customization as customer side activities. The RGBU governance process produces a Business Object that is enterprise wide. Changes or additions handled by versioning are packaged as part of a release and defined as Base Objects.

The Artifact Generator is the core tool used for customization and extension of the Business Objects used by the RIB and Web Services generated by the Oracle Retail Service-Oriented Architecture Enabler Tool (RSE).

For details and examples, see:

- *Oracle Retail Service-Oriented Architecture Enabler Tool Guide.*
- Chapter 11, "Customization and Extension," of the *Oracle Retail Integration Bus Implementation Guide*.

Functional Artifact Types

The functional artifacts are different representations of the same message structure/definition in different technologies (Java EE, PL/SQL). Depending on the Oracle Retail application's technology, RTG uses the appropriate artifacts, converting one from the other as needed. The following are the RTG functional object definitions.

RTG XML Schemas (XSD)

The functional XML message structure is a contract between the integrating retail applications and is defined by the XML schemas. All the other artifacts are generated from the XML schemas. XML schemas are the inputs required by the artifact generator.

RTG JAXB Java Beans

JAXB is a standard Java XML binding technology. It provides the mechanism to convert XML instances to Java objects (and vice versa) in a standard way. The Java EE Web service infrastructure internally uses JAXB to marshall and unmarshall the SOAP messages. For every payload XSD, the artifact generator generates the corresponding JAXB beans.

RTG Objects (Oracle Objects)

PL/SQL retail applications communicate with the integration infrastructure using Oracle Objects. These objects are user-defined database objects that define the XML message structure inside the database.

Sample XML File

The tool generates XML files for base artifacts that represent instances of XML message schemas. Each element is present and has appropriate data to the full declared length.

Technical Specifications

The Oracle Retail Artifact Generator has dependencies on Oracle Retail Application installations, as well as on the Oracle Application Servers. This section covers these requirements.

Supported Operating Systems

For the Artifact Generator tool, there are separate requirements for the Command Line and the GUI.

Command Line

Supported On	Version Supported
Operating System	OS certified: ■ Oracle Linux 6 for x86-64 (Actual hardware or Oracle virtual machine) ■ Red Hat Enterprise Linux 6 for x86-64 (Actual hardware or Oracle virtual machine) ■ AIX 7.1 (Actual hardware or LPARs) ■ Solaris 11 SPARC (Actual hardware or logical domains) ■ HP-UX 11.31 Integrity (Actual hardware, HPVM, or vPars)

Graphical User Interface (GUI)

Supported On	Version Supported
Application Server OS	OS certified with Oracle Fusion Middleware 11g Release1 (11.1.1.6). Options are: ■ Oracle Linux 6 for x86-64 (Actual hardware or Oracle virtual machine) ■ Red Hat Enterprise Linux 6 for x86-64 (Actual hardware or Oracle virtual machine) ■ AIX 7.1 (Actual hardware or LPARs) ■ Solaris 11 SPARC (Actual hardware or logical domains) ■ HP-UX 11.31 Integrity (Actual hardware, HPVM, or vPars)

Supported On	Version Supported
Application Server	Oracle Fusion Middleware 11g Release 1 (11.1.1.6) **Components**: ■ Oracle WebLogic Server 11g Release 1 (10.3.6) ■ JDK 1.7.0+ 64 bit

2 Installation and Basic Setup

This chapter provides instructions for installing and deploying the Oracle Retail Artifact Generator.

Determining the Type of Installation

The Oracle Retail Artifact Generator can be installed and used in any of the following configurations:

- Standalone application
- Application inside rib-home
- Web-application in Oracle WebLogic

Installing As a Standalone Application

To install the Oracle Retail Artifact Generator, complete the following steps.

1. Determine the user and the location to install the Artifact Generator.
2. Verify the JAVA_HOME environment variable is set for the user. The JAVA_HOME must be set to a Java 1.7 JDK. If the user is located on the same server as the Application Server, then setting the JAVA_HOME to $ORACLE_HOME/jdk is recommended.

   ```
   > echo $JAVA_HOME
   >/home/aia1/oracle/middleware/jdk
   ```

3. Create a directory for the Artifact Generator.

   ```
   > mkdir ArtifactGeneratorStandalone
   ```

4. Download and extract the Artifact Generator to the Artifact Generator home directory.

   ```
   > cd ArtifactGeneratorStandalone
   > cp /u00/stage/RIB14.0.1/ ArtifactGenerator14.0.1ForAll14.0.1_eng_ga.tar.
   > tar -xvf  ArtifactGenerator14.0.1ForAll14.0.1_eng_ga.tar
   ```

   This step creates the Artifact Generator root directory structure. For example: /user/aia1/ArtifactGenerator/retail-func-artifact-gen.

   This structure becomes AG_HOME.

Note: AG_HOME is assumed to be the artifact-generator-home directory in the following steps.

```
> export AG_HOME=/user/home/aia1/ArtifactGenerator/retail-func-artifact-gen
```

Note: For a base artifact, use the RibFunctionalArtifacts for RIB. For Retail Services Backbone, use the RetailFunctionalArtifacts instead.

5. Download the RIB Functional Artifact tar or the Retail Functional Artifact tar to the AG_HOME/base-func-artifacts directory.

   ```
   > cd $AG_HOME/base-func-artifacts
   > cp /u00/stage/RIB14.0.1/RibFuncArtifact14.0.1ForAll14.0.1Apps_eng_ga.tar.
   ```

   Do not untar it. This will be handled by the setup scripts.

6. Make groovy executable.

   ```
   > cd $AG_HOME
   > chmod 711 ./integration-lib/third-party/groovy/2.0.1/bin/groovy
   ```

7. Set the groovy environment variable. The GROOVY_HOME must be set. The Artifact Generator ships with the groovy jar files.

   ```
   > cd $AG_HOME
   > export GROOVY_HOME=`pwd`/integration-lib/third-party/groovy/2.0.1
   ```

8. Execute the setup script.

   ```
   >$GROOVY_HOME/bin/groovy
   com/oracle/retail/integration/artifact/generator/SetupWorkArea.groovy
   ```

9. Installation is complete. See Chapter 3, "General Usage."

Installing As an Application Inside rib-home

For the following steps, $RIB_HOME is assumed to be the rib-home directory in the rib-app-builder directory tree structure.

For example: /u00/rib/Rib1401ForAll14xxApps/rib-home

1. Verify the JAVA_HOME environment variable. The JAVA_HOME must be set to a Java 1.7 JDK. If the <RIB_HOME> workspace is located on the same server as the Application Server, then setting the JAVA_HOME to $ORACLE_HOME/jdk is recommended.

   ```
   > echo $JAVA_HOME
   > /home/aia1/oracle/middleware/jdk
   ```

2. Download and extract the Artifact Generator to the Artifact Generator into the rib-home/tools-home directory. There already will be a placeholder directory /retail-func-artifact-gen.

   ```
   > cd $RIB_HOME/tools-home
   > cp /u00/stage/RIB14.0.1/ ArtifactGenerator14.0.1ForAll14.0.1_eng_ga.tar.
   > tar -xvf  ArtifactGenerator14.0.1ForAll14.0.1_eng_ga.tar
   ```

Note: For a base artifact, use the RibFunctionalArtifacts for RIB. For Retail Services Backbone, use the RetailFunctionalArtifacts instead.

3. Download the RIB Functional Artifact tar or the Retail Functional Artifact tar to the AG_HOME/base-func-artifacts directory.

   ```
   > cd $AG_HOME/base-func-artifacts
   > cp /u00/stage/RIB14.0.1/RibFuncArtifact14.0.1ForAll14.0.1Apps_eng_ga.tar.
   ```

   Do not untar it. This will be handled by the setup scripts.

4. Make Groovy executable.

   ```
   > cd $RIB_HOME/tool-home/ retail-func-artifact-gen
   > chmod 711 $RIB_HOME/integration-lib/third-party/groovy/2.0.1/bin/groovy
   ```

5. Set the groovy environment variable.

   ```
   > cd $RIB_HOME/tools-home/retail-func-artifact-gen
   > export GROOVY_HOME=$RIB_HOME/integration-lib/third-party/groovy/2.0.1
   ```

6. Execute the setup script.

   ```
   $GROOVY_HOME/bin/groovy
   com/oracle/retail/integration/artifact/generator/SetupWorkArea.groovy
   ```

7. Installation is complete. See Chapter 3, "General Usage."

Installing As a Web Application in Oracle WebLogic

The steps below describe how to deploy the Oracle Retail Artifact Generator to an Oracle WebLogic Application Server as a Web application.

Note: See the section "Supported Operating Systems," in Chapter 1.

Prerequisites

The following are prerequisites for installation.

- The retail-func-artifact-gen-gui.war file is located within the directory structure of the ArtifactGenerator14.0.1ForAll14.0.1_eng_ga.tar. It is recommended that the Artifact Generator be deployed from the rib-home location, although the.war file can be obtained from the stand-alone installation as well.

  Note: See the section, "Installing As an Application Inside rib-home," in this chapter.

- The installation and base configuration of the Oracle WebLogic Server is beyond the scope of this document. Work with the Application Server Administration team to determine the physical and logical placement of the retail-func-artifact-gen-gui component within the WebLogic Server deployment.

  Note: See Oracle WebLogic Server 11g Release 3 (10.3.6) Installation Guide.

Deploying the Artifact Generator Application

Using the WebLogic Server Administration Console, complete the following steps:

Note: For instructions with illustrations (screen captures), see "Appendix: Install the Artifact Generator."

1. Navigate to the Deployments page.
2. Click **Install**.

   Note: If the application has already been installed, see the section, "Redeploying the Application," in this chapter.

   The "Locate deployment to install and prepare for deployment" page is displayed. Follow the instructions to locate the retail-func-artifact-gen-gui.war file.
3. Select **Upload Files**.
4. On the **Upload a Deployment to the admin server** page, use the Browse button to locate the retail-func-artifact-gen-gui.war file in the "Deployment Archive."
5. Select the retail-func-artifact-gen-gui.war
6. Click **Next** and move to **Choose targeting style**.
7. Select **Install this deployment as an application**. Click **Next** and move to **Select Target Deployments**. Select the target server for the Artifact Generator Web application.
8. Click **Next** and move to **Optional Settings**.
9. Click **Next** and move to **Review your choices and click Finish**.
10. Select **No, I will review the configuration later**.
11. Click **Finish** to deploy the application.

Creating the agAdminGroup

To create the agAdminGroup, do the following:

1. In WebLogic, click on **Security Realms**.
2. Click on **myrealm** and then **Users and Groups**.
3. Click on groups and then **New**.
4. Enter **agAdminGroup** in the name field, leaving the other fields at default.
5. Click **OK**.
6. Add at least one user to the agAdminGroup group.

Verifying the Artifact Generator Web Application

To verify the artifact generator Web application, do the following.

1. Navigate to the Deployments page.
2. Locate the **retail-func-artifact-gen-gui** on the Summary of Deployments page.

3. Click the name, **retail-func-artifact-gen-gui**, to move to the "Settings for the rib-func-artifact-gen-gui."
4. Select the Testing tab.
5. Click the link for the index.jsp URL in the Test Point. The URL should open to the Retail Artifact Generator Login page.
6. The installation is complete. For more information, see Chapter 3, "General Usage."
7. Click on the **Setup Work Areas** tab.
8. Click **Choose File**, navigate to, and select the `RibFuncArtifact14.0.1ForAll14.0.1Apps_eng_ga.tar` file.
9. Click **Create Work Area**.

Redeploying the Application

If the retail-func-artifact-gen-gui application has already been deployed, follow these steps.

1. If the retail-func-artifact-gen-gui application is running, select **Stop** and **When Work Completes** or **Force Stop Now,** depending on the environment. The recommended option always is **When Work Completes.**
2. Click **Delete.**
3. The retail-func-artifact-gen-gui should now not show on the Summary of Deployment page.
4. Return to the appropriate step in Deploy the Application.

3 General Usage

The Artifact Generator tool can be used through the command line or through the GUI, depending on the installation type selected.

The Artifact Generator implements rules for customization/extension of the Business Objects that are used to create the Functional Artifacts for use in the RTG Integration systems. The tools, regardless of the installation type, will process only XSDs that have been added or modified per these rules.

The fundamental rule is that for customization of a base XSD, the ExtOf XSDs must be modified and not the original (base) XSD. The tool scans for customization/extension implemented there, and only there. Any changes to the base XSD will be ignored.

For example, if you want to add an optional element to the Currency Rate flow, use the Template Generator to provide the hooks and placeholder XSDs and then add the optional element to ExtOfCurrRateDesc.xsd and not the CurrRateDesc.xsd.

There are simple examples included in the usage sections, but for more complete scenarios and best practices on usage of the tool, see Chapter 11, "Customization and Extension," in the *Oracle Retail Integration Bus Implementation Guide*. See also the *Oracle Retail Service Oriented Architecture Enabler Tool Guide*.

Customizing Payloads - Prerequisites

The following are the prerequisites you need to consider before customizing payloads:

- Familiarity with the Artifact Generator tool and Template Creator tool.
- Understanding the importance of payloads and how they fit into the overall retail family of products.
- Understanding the impact of customizing a payload on other applications.

Rules for Customization/Extension

The following are rules for customization and extension.

- Always make a backup of the particular files being modified during customization.
- Customizations/Extensions of payloads must also be made accordingly to the application side.
- It is strongly recommended that only optional elements are added. The addition of mandatory elements increases complexity.

- The names of the elements in ExtOfs must not be the same as the names in the parent XSD. For example, if CurrRateDesc.xsd has an element name = **attr1**, ExtOfCurrRateDesc cannot have an element named **attr1**.
- Java, PL/SQL, and XML schema keywords cannot be used in the names of elements in XSDs.

Directory Structure

This section provides examples of the directory structure for customizing and localizing payloads.

Customization

The tool creates a directory structure that contains all the libraries (integration-lib) and generally available (GA) input artifacts required to generate all supported output types.

There are output directories for each type of artifact produced. For example:

```
./output-database-object-types
|----------- dist
|---- custom-retail-public-payload-database-object-types.zip
./output-jaxb-java-beans
|----------- src
|----
com/oracle/retail/integration/custom/bo/extofasnindesc/v1
|----- ExtOfASNInDesc.java…
ObjectFactory.java
package-info.java
|----------- dist
|---- custom-retail-public-payload-java-beans.jar
./output-xml-samples
|----------- src - All sample file
|----------- dist - custom-retail-public-payload-xml-samples.zip
```

Localization

The tool creates a directory structure that contains all the libraries (integration-lib) and generally available (GA) input artifacts required to generate all supported output types.

There are output directories for each type of artifact produced. For example:

```
./output-database-object-types
|----------- dist
|----
localization-retail-public-payload-database-object-types.zip

./output-jaxb-java-beans
|----------- src
|----
com/oracle/retail/integration/localization/bobrasnindesc/v1
|----- BrASNInDesc.java…
ObjectFactory.java
package-info.java
|----------- dist
|---- localization-retail-public-payload-java-beans.jar
./output-xml-samples
|----------- src - All sample xmls
```

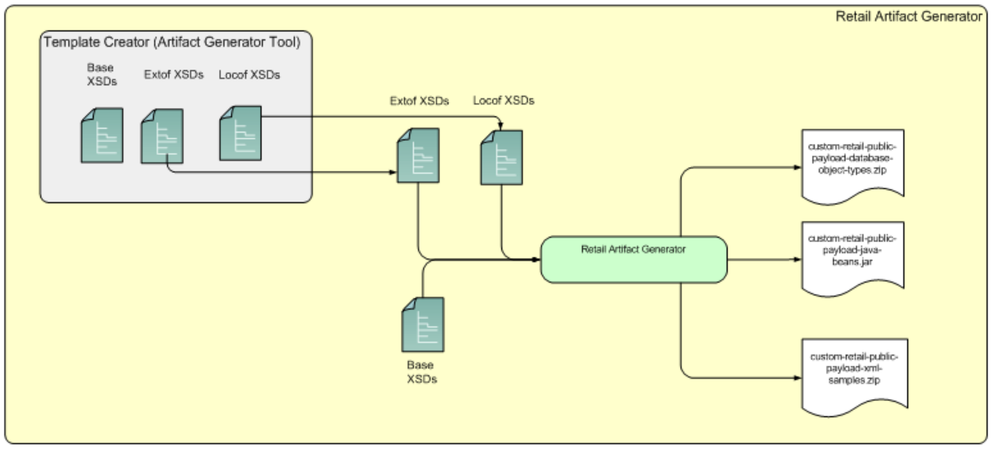
```
|---------- dist - localization-retail-public-payload-xml-samples.zip
```

Customizing and Localizing the Template Creator

A prerequisite to customization or localization is using the Artifact Generator tool called the Template Creator. This tool constructs the appropriate placeholders in the packaging structure in the correct locations.

The Functional Artifact Generator tool has been enhanced to generate custom and localized payloads business objects (BO) on demand, based on Oracle Retail Functional Artifact rules.

Unlike past releases, the packaging of the retail business object does not contain placeholders for the customization or localization XSDs, and the base XSDs do not contain the imports to include them. The goal is to reduce the number of functional payload objects to only those in base and those needed to satisfy the site requirements.


Retail Artifact Generator
Template Creator (Artifact Generator Tool)
Base XSDs
Extof XSDs
Locof XSDs
Extof XSDs
Locof XSDs
Retail Artifact Generator
Base XSDs
custom-retail-public-payload-database-object-types.zip
custom-retail-public-payload-java-beans.jar
custom-retail-public-payload-xml-samples.zip

Template Creator Overview

The Customization and Localization Template Creator tool is part of the Functional Artifact Generator.

The Artifact Generator tools, including the Template Creator, can be used either as a command line or GUI tool set.

Arguments

The following table summarizes arguments for the Template Creator tool:

Option	Argument	Type	Usage
-c	createCustomTemplate createLocalizationTemplate	Required, other than with -h option	To take input for creating custom or localization templates. For example: -c createCustomTemplate -c createLocalizationTemplate

Option	Argument	Type	Usage
-n	complex-type name	Required with -c option	To input the name of complex-type for which template has to be generated. For example: -n ItemDesc -n DSDDealsDesc/DSDDeals
-l	locale name	Required with -c createLocalizationTemplate option	To input locale name for localization template. For example: Localization for Brazil -c createLocalizationTemplate -l Br
-x	path of alternate input-xsd folder relative to $AG_ HOME	Optional	To use input-xsd folder other than the default input-xsd folder in AG_ HOME. For example: -x ./alternate-input-xsd
-h	Help	Optional	To read command line help.

Commands

The following table summarizes valid commands for the Template Creator tool, as well as corresponding output.

Command	Output
groovy -cp integration-lib/third-party/apache/xerces2/xalan-2.7.1.jar:integration-lib/third-party/apache/xerces2/xercesImpl.jar com/oracle/retail/integration/artifact/generator/TemplateCreator.groovy	■ Extension hooks added to ItemDesc.xsd ■ ExtOfItemDesc.xsd is created.
groovy -cp integration-lib/third-party/apache/xerces2/xalan-2.7.1.jar:integration-lib/third-party/apache/xerces2/xercesImpl.jar com/oracle/retail/integration/artifact/generator/ TemplateCreator.groovy -c createCustomTemplate -n ASNInDesc/ASNInItem	■ Extension hooks added to ASNInDesc\ASNInItem. ■ ExtOfASNInDesc.xsd is created.
groovy -cp integration-lib/third-party/apache/xerces2/xalan-2.7.1.jar:integration-lib/third-party/apache/xerces2/xercesImpl.jar com/oracle/retail/integration/artifact/generator/ TemplateCreator.groovy -c createLocalizationTemplate -n ItemDesc -l Br	■ Extension hooks added to ItemDesc.xsd ■ LocOfItemDesc.xsd. ■ BrItemDesc.xsd. ■ EOfBrItemDesc.xsd is created.
groovy -cp integration-lib/third-party/apache/xerces2/xalan-2.7.1.jar:integration-lib/third-party/apache/xerces2/xercesImpl.jar com/oracle/retail/integration/artifact/generator/ TemplateCreator.groovy -c createLocalizationTemplate -n ASNInDesc/ASNInItem -l In	■ Extension hooks added to ASNInDesc\ASNInItem. ■ LocOfASNInDesc.xsd. ■ InASNInDesc.xsd. ■ EOfInASNInDesc.xsd is created.

Command	Output
groovy -cp integration-lib/third-party/apache/xerces2/xalan-2.7.1.jar:integration-lib/third-party/apache/xerces2/xercesImpl.jar com/oracle/retail/integration/artifact/generator/ TemplateCreator.groovy -c createCustomTemplate -n CustomerOrder	ExtOfCustomerOrder.xsd is created.
groovy -cp integration-lib/third-party/apache/xerces2/xalan-2.7.1.jar:integration-lib/third-party/apache/xerces2/xercesImpl.jar com/oracle/retail/integration/artifact/generator/ TemplateCreator.groovy -c createLocalizationTemplate -n CustomerOrder -l Br	■ LocOfCustomerOrder.xsd. ■ BrCustomerOrder.xsd. ■ EOfBrCustomerOrder.xsd is created.

Template Creator - Command Line Interface

The following sections describe how you can work with the Template Creator tool using its Command Line Interface.

Using the Command Line Interface

The Template Creator groovy script can be used to create custom/localization template for a base or new (having no existing base) retail business object.

Create a custom template for base retail business object

Command:

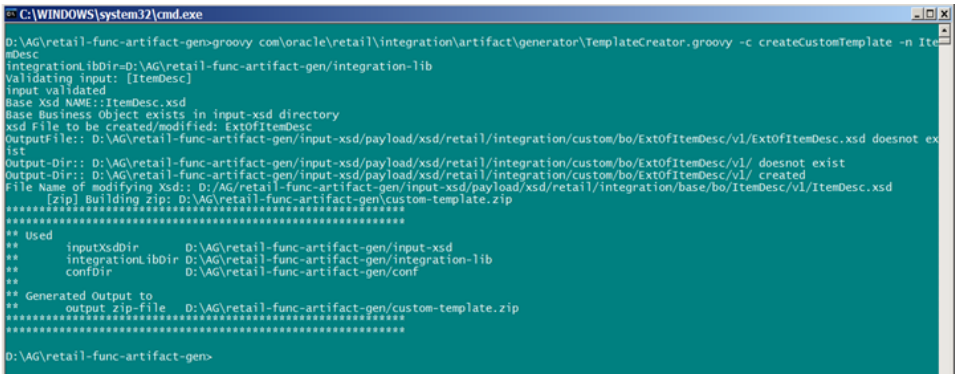
groovy -cp ./integration-lib/third-party/apache/xerces2/xalan-2.7.1.jar

Output: The following files are created.

ExtOfItemDesc.xsd in $input-xsd/payload/xsd/retail/integration/custom/bo/ExtOfItemDesc/v1/ folder.

Base XSD is modified:

ItemDesc.xsd in base/bo/ItemDesc/v1/ folder.



```
D:\AG\retail-func-artifact-gen>groovy com\oracle\retail\integration\artifact\generator\TemplateCreator.groovy -c createCustomTemplate -n ItemDesc
integrationLibDir=D:\AG\retail-func-artifact-gen/integration-lib
Validating input: [ItemDesc]
input validated
Base Xsd NAME::ItemDesc.xsd
Base Business Object exists in input-xsd directory
xsd File to be created/modified: ExtOfItemDesc
OutputFile:: D:\AG\retail-func-artifact-gen/input-xsd/payload/xsd/retail/integration/custom/bo/ExtOfItemDesc/v1/ExtOfItemDesc.xsd doesnot exist
Output-Dir:: D:\AG\retail-func-artifact-gen/input-xsd/payload/xsd/retail/integration/custom/bo/ExtOfItemDesc/v1/ doesnot exist
Output-Dir:: D:\AG\retail-func-artifact-gen/input-xsd/payload/xsd/retail/integration/custom/bo/ExtOfItemDesc/v1/ created
File Name of modifying Xsd:: D:/AG/retail-func-artifact-gen/input-xsd/payload/xsd/retail/integration/base/bo/ItemDesc/v1/ItemDesc.xsd
      [zip] Building zip: D:\AG\retail-func-artifact-gen\custom-template.zip
*************************************************************
*************************************************************
** Used
**       inputXsdDir       D:\AG\retail-func-artifact-gen/input-xsd
**       integrationLibDir D:\AG\retail-func-artifact-gen/integration-lib
**       confDir           D:\AG\retail-func-artifact-gen/conf
**
** Generated Output to
**       output zip-file   D:\AG\retail-func-artifact-gen/custom-template.zip
*************************************************************
*************************************************************

D:\AG\retail-func-artifact-gen>
```

Create a custom template for new business object (no existing base retail business object)

Command:

$AG_HOME> groovy
com/oracle/retail/integration/artifact/generator/TemplateCreator.groovy -c
createCustomTemplate -n CustomerOrder

Output: The following files are created.

ExtOfCustomerOrder.xsd in $input-xsd/payload/xsd/retail/integration/custom/bo/

ExtOfCustomerOrder/v1/ folder.

Create a localization template for base retail business object

Command:

$AG_HOME> groovy
com/oracle/retail/integration/artifact/generator/TemplateCreator.groovy

-c createLocalizationTemplate -n ItemDesc -l Br

Output: The following files are created.

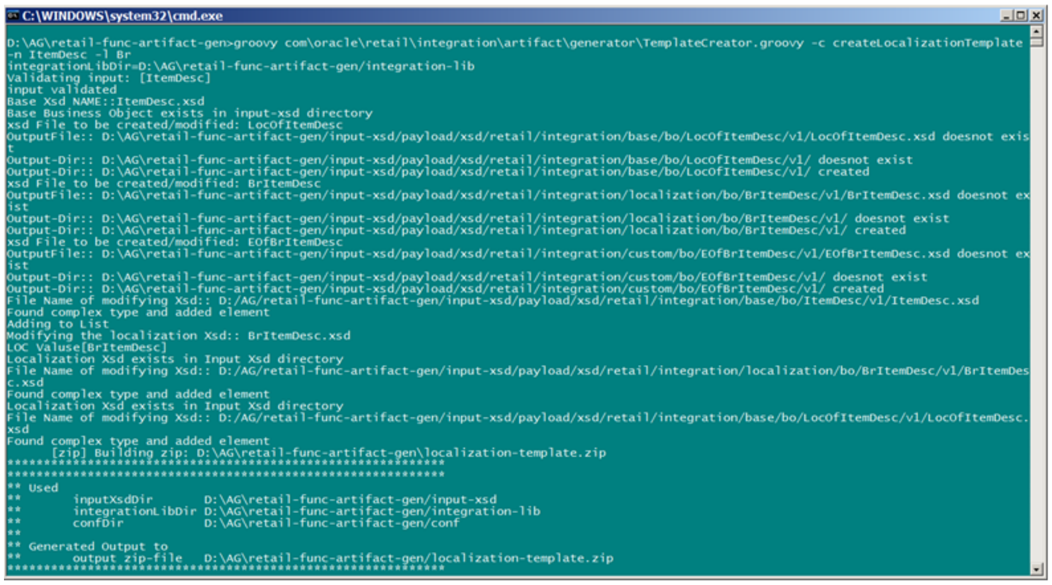
LocOfItemDesc.xsd in
$input-xsd/payload/xsd/retail/integration/base/bo/LocOfItemDesc/v1/

BrItemDesc.xsd in
$input-xsd/payload/xsd/retail/integration/localization/bo/BrItemDesc/v1/

EOfBrItemDesc.xsd in
$input-xsd/payload/xsd/retail/integration/custom/bo/EOfBrItemDesc/v1/

Base XSD is modified:

ItemDesc.xsd in $input-xsd/payload/xsd/retail/integration/base/bo/ItemDesc/v1/



```
D:\AG\retail-func-artifact-gen>groovy com\oracle\retail\integration\artifact\generator\TemplateCreator.groovy -c createLocalizationTemplate
-n ItemDesc -l Br
integrationLibDir=D:\AG\retail-func-artifact-gen/integration-lib
Validating input: [ItemDesc]
input validated
Base Xsd NAME::ItemDesc.xsd
Base Business Object exists in input-xsd directory
xsd File to be created/modified: LocOfItemDesc
OutputFile:: D:\AG\retail-func-artifact-gen/input-xsd/payload/xsd/retail/integration/base/bo/LocOfItemDesc/v1/LocOfItemDesc.xsd doesnot exis
t
Output-Dir:: D:\AG\retail-func-artifact-gen/input-xsd/payload/xsd/retail/integration/base/bo/LocOfItemDesc/v1/ doesnot exist
Output-Dir:: D:\AG\retail-func-artifact-gen/input-xsd/payload/xsd/retail/integration/base/bo/LocOfItemDesc/v1/ created
xsd File to be created/modified: BrItemDesc
OutputFile:: D:\AG\retail-func-artifact-gen/input-xsd/payload/xsd/retail/integration/localization/bo/BrItemDesc/v1/BrItemDesc.xsd doesnot ex
ist
Output-Dir:: D:\AG\retail-func-artifact-gen/input-xsd/payload/xsd/retail/integration/localization/bo/BrItemDesc/v1/ doesnot exist
Output-Dir:: D:\AG\retail-func-artifact-gen/input-xsd/payload/xsd/retail/integration/localization/bo/BrItemDesc/v1/ created
xsd File to be created/modified: EOfBrItemDesc
OutputFile:: D:\AG\retail-func-artifact-gen/input-xsd/payload/xsd/retail/integration/custom/bo/EOfBrItemDesc/v1/EOfBrItemDesc.xsd doesnot ex
ist
Output-Dir:: D:\AG\retail-func-artifact-gen/input-xsd/payload/xsd/retail/integration/custom/bo/EOfBrItemDesc/v1/ doesnot exist
Output-Dir:: D:\AG\retail-func-artifact-gen/input-xsd/payload/xsd/retail/integration/custom/bo/EOfBrItemDesc/v1/ created
File Name of modifying Xsd:: D:/AG/retail-func-artifact-gen/input-xsd/payload/xsd/retail/integration/base/bo/ItemDesc/v1/ItemDesc.xsd
Found complex type and added element
Adding to List
Modifying the localization Xsd:: BrItemDesc.xsd
LOC Valuse[BrItemDesc]
Localization Xsd exists in Input Xsd directory
File Name of modifying Xsd:: D:/AG/retail-func-artifact-gen/input-xsd/payload/xsd/retail/integration/localization/bo/BrItemDesc/v1/BrItemDes
c.xsd
Found complex type and added element
Localization Xsd exists in Input Xsd directory
File Name of modifying Xsd:: D:/AG/retail-func-artifact-gen/input-xsd/payload/xsd/retail/integration/base/bo/LocOfItemDesc/v1/LocOfItemDesc.
xsd
Found complex type and added element
      [zip] Building zip: D:\AG\retail-func-artifact-gen\localization-template.zip
************************************************************
************************************************************
** Used
**       inputXsdDir       D:\AG\retail-func-artifact-gen/input-xsd
**       integrationLibDir D:\AG\retail-func-artifact-gen/integration-lib
**       confDir           D:\AG\retail-func-artifact-gen/conf
**
** Generated Output to
**       output zip-file   D:\AG\retail-func-artifact-gen/localization-template.zip
************************************************************
```

Create a localization template for new business object (no existing base retail business object)

Command:

$AG_HOME> groovy
com/oracle/retail/integration/artifact/generator/TemplateCreator.groovy -c
createLocalizationTemplate -n CustomerOrder -l Br

Output: The following files are created.

$input-xsd/payload/xsd/retail/integration/base/bo/LocOfCustomerOrder/v1/

BrCustomerOrder.xsd in

$input-xsd/payload/xsd/retail/integration/localization/bo/BrCustomerOrder/v1/

EOfCustomerOrder.xsd in

$input-xsd/payload/xsd/retail/integration/custom/bo/EOfBrCustomerOrder/v1/

Customizing Or Localizing the Elements

After the Template Creator has been run to create the appropriate placeholders, the actual custom or localization elements can be added.

It is important to understand that the customization/extension of existing Business Objects should be performed in the ExtOfxxx XSDS of a base XSD, not the base XSD. The tool is designed to enforce this best practice. It supports the preservation of customization/extension when there are new versions of the base objects released.

The basics of XSDs are not covered in this document.

Note: See "Appendix: References."

Adding Customized Optional Elements

This section explains how to add an optional element (simple type or complex type) to existing message payloads.

1. Edit the desired payload XSDs in ./input-xsd/payload/xsd/retail/integration/custom/bo directory of Rib Artifact Generator tool installation. Add the optional simple or complex element to the particular message family xsd. If needed, define the type it belongs to if it does not exist.

```
> cd input-xsd/payload/xsd/retail/integration/custom/bo/ExtOfCurrRateDesc/v1
> vi ExtOfCurrRateDesc.xsd (make changes)
```

The following example shows the modifications to ExtOfCurrRateDesc.xsd required to add the optional element, **country**.

```
<xs:schema elementFormDefault="qualified"
targetNamespace="http://www.oracle.com/retail/integration/custom/bo/ExtOfCurrRa
teDesc/v1"
    version="1.0"

xmlns="http://www.oracle.com/retail/integration/custom/bo/ExtOfCurrRateDesc/v1"
    xmlns:retailDoc="http://www.w3.org/2001/XMLSchema"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:element name="ExtOfCurrRateDesc">
        <xs:complexType>
            <xs:sequence>
                       <xs:element minOccurs="0" name="country"
type="varchar23">
                       </xs:element>
             </xs:sequence>
        </xs:complexType>
    </xs:element>
        <xs:simpleType name="varchar23">
                <xs:restriction base="xs:string">
                        <xs:maxLength value="3"/>
                </xs:restriction>
        </xs:simpleType>
</xs:schema>
```

2. Run the Artifact Generator to generate various functional artifacts.

```
> $GROOVY_HOME/bin/groovy
com/oracle/retail/integration/artifact/generator/GenArtifacts.groovy -g
generateCustom
```

3. All necessary artifacts are generated as follows:

   - custom-retail-public-payload-java-beans.jar is generated in retail-func-artifact-gen/output-jaxb-java-beans/dist folder.
   - The java source files are generated in retail-func-artifact-gen/output-jaxb-java-beans/src folder
   - custom-retail-public-payload-database-object-types.zip is generated in retail-func-artifact-gen/output-database-object-types/dist folder.

Adding Localized Optional Elements

This section explains how to add an optional element (simple type or complex type) to existing message payloads.

1. Edit the desired payload XSDs in ./input-xsd/payload/xsd/retail/integration/localization/bo directory of Rib Artifact Generator tool installation. Add the optional simple or complex element to the particular message family xsd. If needed, define the type it belongs to if it doesn't exist.

```
> cd input-xsd/payload/xsd/retail/integration/localization/bo/BrCurrRateDesc/v1
> vi BrCurrRateDesc.xsd (make changes)
```

The following example shows the modifications to BrCurrRateDesc.xsd required to add the optional element, country.

```
 <xs:schema elementFormDefault="qualified"

targetNamespace="http://www.oracle.com/retail/integration/localization/bo/BrCur
rRateDesc/v1"
    version="1.0"

xmlns="http://www.oracle.com/retail/integration/localization/bo/BrCurrRateDesc/
v1"

xmlns:EOfBrCurrRateDesc="http://www.oracle.com/retail/integration/custom/bo/EOf
BrCurrRateDesc/v1"
    xmlns:retailDoc="http://www.w3.org/2001/XMLSchema"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import

namespace="http://www.oracle.com/retail/integration/custom/bo/EOfBrCurrRateDesc
/v1"
schemaLocation="../../../../custom/bo/EOfBrCurrRateDesc/v1/EOfBrCurrRateDesc.xs
d">
        <retailDoc:annotation>
            <retailDoc:documentation>It's a referenced element. For detailed
description, please refer referenced element doc.</retailDoc:documentation>
        </retailDoc:annotation>
    </xs:import>
```

```
<xs:element name="BrCurrRateDesc">
<xs:complexType>
            <xs:sequence>
<xs:element minOccurs="0" name="country" type="varchar23">

            <xs:element maxOccurs="1" minOccurs="0"
ref="EOfBrCurrRateDesc:EOfBrCurrRateDesc">
               <retailDoc:annotation>
                 <retailDoc:documentation>Provide an extension hook to
customize CurrRateDesc
                 </retailDoc:documentation>
               </retailDoc:annotation>
             </xs:element>
            </xs:sequence>
        </xs:complexType>
</xs:element>
        <xs:simpleType name="varchar23">
                <xs:restriction base="xs:string">
                        <xs:maxLength value="3"/>
                </xs:restriction>
        </xs:simpleType>

</xs:schema>
```

2. Run the Artifact Generator to generate various functional artifacts.

```
> $GROOVY_HOME/bin/groovy
com/oracle/retail/integration/artifact/generator/GenArtifacts.groovy  -g
generateLocalization
```

3. All the necessary artifacts are generated as follows:

   localization-retail-public-payload-java-beans.jar is generated in retail-func-artifact-gen/output-jaxb-java-beans/dist folder.

   The java source files are generated in retail-func-artifact-gen/output-jaxb-java-beans/src folder

   localization-retail-public-payload-database-object-types.zip is generated in retail-func-artifact-gen/output-database-object-types/dist folder.

Adding Elements To A New ExtOfxxx.xsd

The following steps must be completed to add a new custom XSD to a current set of payloads:

1. Add a new element to the ExtOfxxx.xsd.
2. Run the Artifact Generator to generate various functional artifacts.

```
> $GROOVY_HOME/bin/groovy
com/oracle/retail/integration/artifact/generator/GenArtifacts.groovy
```

   Upon completion of this step, all necessary artifacts are generated as follows:

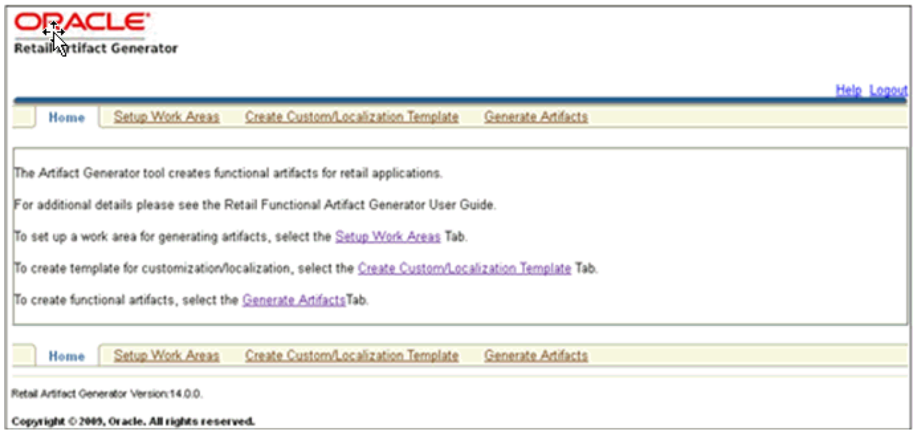
   - custom-retail-public-payload-java-beans.jar is generated in retail-func-artifact-gen/output-jaxb-java-beans/dist folder
   - The java source files are generated in retail-func-artifact-gen/output-jaxb-java-beans/src folder
   - custom-retail-public-payload-database-object-types.zip is generated in retail-func-artifact-gen/output-database-object-types/dist folder.

Creating a Work Area - Graphical User Interface

To create a work area, take the following steps:

Note: For a base artifact, use the RibFunctionalArtifacts for RIB. For Retail Services Backbone, use the RetailFunctionalArtifacts instead.

1. Navigate to Retail Artifact Generator Home.


ORACLE
Retail Artifact Generator
Help Logout
Home
Setup Work Areas
Create Custom/Localization Template
Generate Artifacts

The Artifact Generator tool creates functional artifacts for retail applications.

For additional details please see the Retail Functional Artifact Generator User Guide.

To set up a work area for generating artifacts, select the Setup Work Areas Tab.

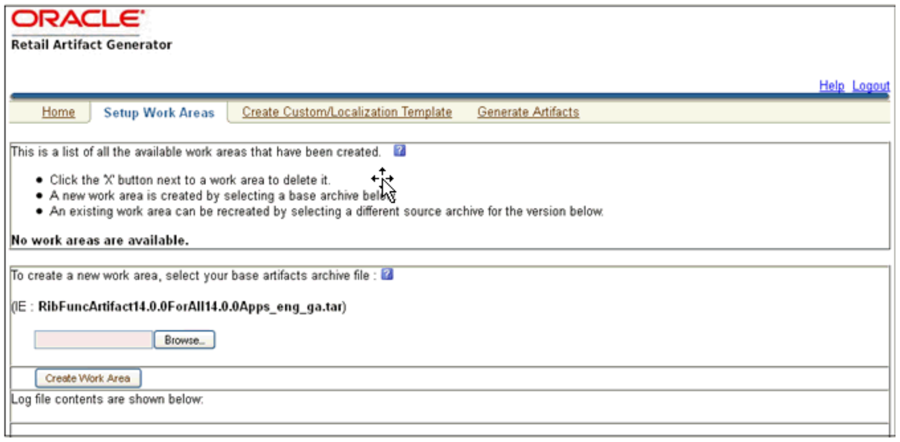
To create template for customization/localization, select the Create Custom/Localization Template Tab.

To create functional artifacts, select the Generate ArtifactsTab.

Retail Artifact Generator Version:14.0.0.

Copyright © 2009, Oracle. All rights reserved.

2. To create a new version workspace, select the **SetupWork Areas** tab.



This is a list of all the available work areas that have been created.

- Click the 'X' button next to a work area to delete it.
- A new work area is created by selecting a base archive below.
- An existing work area can be recreated by selecting a different source archive for the version below.

No work areas are available.

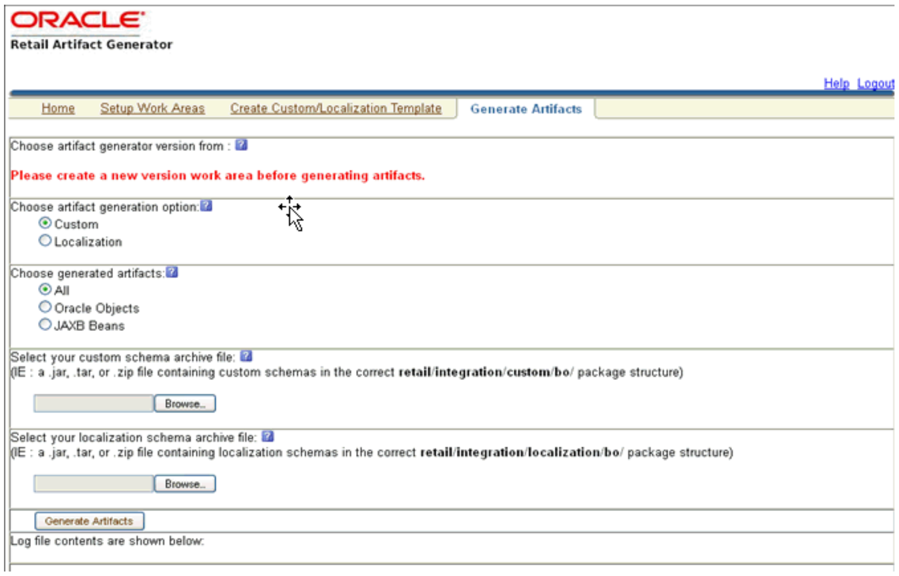
To create a new work area, select your base artifacts archive file :

(IE : RibFuncArtifact14.0.0ForAll14.0.0Apps_eng_ga.tar)

Log file contents are shown below:

3. On the SetupWork Areas page, use the browse button to locate the RibFuncArtifact14.0.1ForAll14.0.1Apps_eng_ga.tar or the RetailFuncArtifact14.0.1ForAll14.0.1Apps_eng_ga.tar. These .tar files must be in a location that is accessible by the browser.
4. Click **Create Work Area**.
5. To generate artifacts, select the **Generate Artifacts** tab.

Note: At this point, the Template Creator can be used.



Choose artifact generator version from :

Please create a new version work area before generating artifacts.

Choose artifact generation option:
[✓ Custom]
Localization

Choose generated artifacts:
[✓ All]
Oracle Objects
JAXB Beans

Select your custom schema archive file:
(IE : a .jar, .tar, or .zip file containing custom schemas in the correct **retail/integration/custom/bo/** package structure)

Select your localization schema archive file:
(IE : a .jar, .tar, or .zip file containing localization schemas in the correct **retail/integration/localization/bo/** package structure)

Log file contents are shown below:

6. Choose the artifact generator version.
7. Choose an artifact generation option (Custom/Localization).

   If Custom/Localization is chosen, on the Generate Artifacts page, use the browse button to locate the archive file (for example, .tar, .jar, or .zip) that contains the custom/localized schemas. This file must have the custom/localization schemas in the correct package structure, such as retail/integration/custom/bo* or retail/integration/localization/bo*.

   > **Note:** For information on the packaging structure and guidelines, see the *Oracle Retail Functional Artifacts Guide*.

8. Click **Generate Artifacts** to start the generation process.

   As the process runs, the status of its progress is displayed in the log window. When the process is complete, **save file** dialog windows are displayed with options to save the resulting archive files or open them for review.

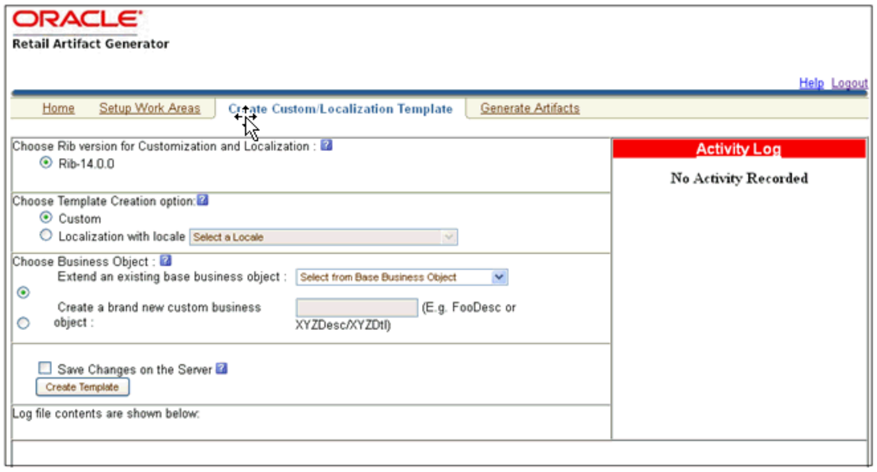
Template Creator - Graphical User Interface

The following sections describe how you can work with the Template Creator tool using its Graphical User Interface (GUI).

Using the Graphical User Interface

Take the following steps to use the Template Creator through the GUI:

> **Note:** See the Creating a Work Area - Graphical User Interface section in this chapter for how to create work areas.



Retail Artifact Generator

Choose Rib version for Customization and Localization : [✓ Rib-14.0.0]

Choose Template Creation option: [✓ Custom] Localization with locale: Select a Locale

Choose Business Object : [✓ Extend an existing base business object : Select from Base Business Object] Create a brand new custom business object : (E.g. FooDesc or XYZDesc/XYZDtl)

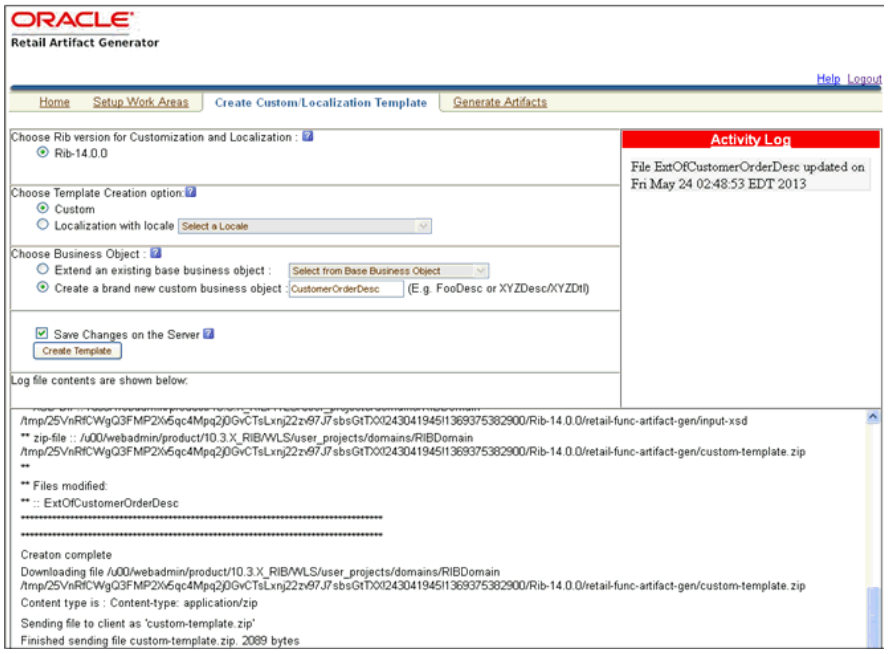
Save Changes on the Server

Log file contents are shown below:

Activity Log

No Activity Recorded

Select a RIB version for customization and localization from the list of RIB versions. The list includes all versions for which the Work Area has been set up. Based on the version selected, the Activity Log panel on the right indicates recent activity, such as a list of changes saved to the server for a specific version.



Retail Artifact Generator

Choose Rib version for Customization and Localization : [✓ Rib-14.0.0]

Choose Template Creation option: [✓ Custom] Localization with locale: Select a Locale

Choose Business Object : Extend an existing base business object : Select from Base Business Object [✓ Create a brand new custom business object : CustomerOrderDesc] (E.g. FooDesc or XYZDesc/XYZDtl)

[✓ Save Changes on the Server]

Log file contents are shown below:

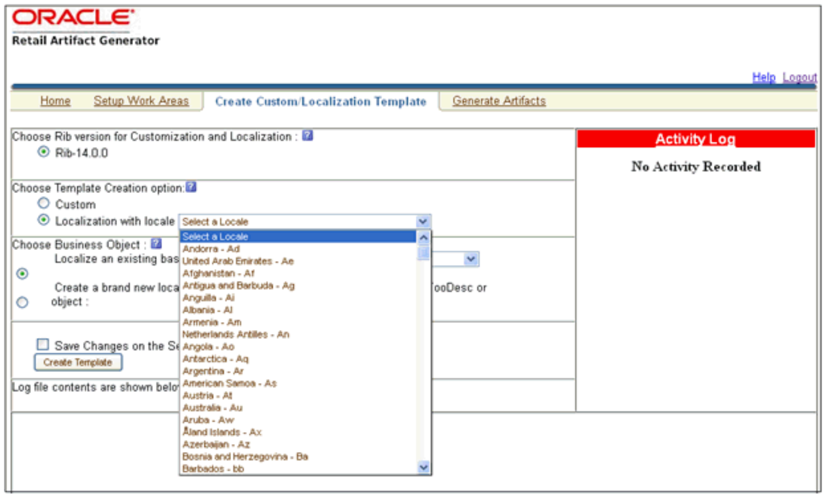
Activity Log

File ExtOfCustomerOrderDesc updated on Fri May 24 02:48:53 EDT 2013

```
/tmp/25VnRfCWgQ3FMP2Xv5qc4Mpq2j0GvCTsLxnj22zv97J7sbsGtTXX243041945!1369375382900/Rib-14.0.0/retail-func-artifact-gen/input-xsd
** zip-file :: /u00/webadmin/product/10.3.X_RIB/WLS/user_projects/domains/RIBDomain
/tmp/25VnRfCWgQ3FMP2Xv5qc4Mpq2j0GvCTsLxnj22zv97J7sbsGtTXX243041945!1369375382900/Rib-14.0.0/retail-func-artifact-gen/custom-template.zip
**
** Files modified:
** :: ExtOfCustomerOrderDesc
********************************************************************************
********************************************************************************
Creaton complete
Downloading file /u00/webadmin/product/10.3.X_RIB/WLS/user_projects/domains/RIBDomain
/tmp/25VnRfCWgQ3FMP2Xv5qc4Mpq2j0GvCTsLxnj22zv97J7sbsGtTXX243041945!1369375382900/Rib-14.0.0/retail-func-artifact-gen/custom-template.zip
Content type is : Content-type: application/zip
Sending file to client as 'custom-template.zip'
Finished sending file custom-template.zip. 2089 bytes
```

When a version of RIB is selected, the contents of the Activity Log panel includes a list of files, time stamped to indicate when they were updated on the server.

Select the option to create a Custom or Localization template. If the Localization option is selected, you must select a locale from the drop down list. The following screen shows the list of locales available when the Localization option is selected.


Retail Artifact Generator

Help Logout

Home | Setup Work Areas | Create Custom/Localization Template | Generate Artifacts

Choose Rib version for Customization and Localization :
[✓ Rib-14.0.0]

Choose Template Creation option:
Custom
[✓ Localization with locale] Select a Locale

Choose Business Object :
[✓ Localize an existing bas]
Create a brand new loca... object :

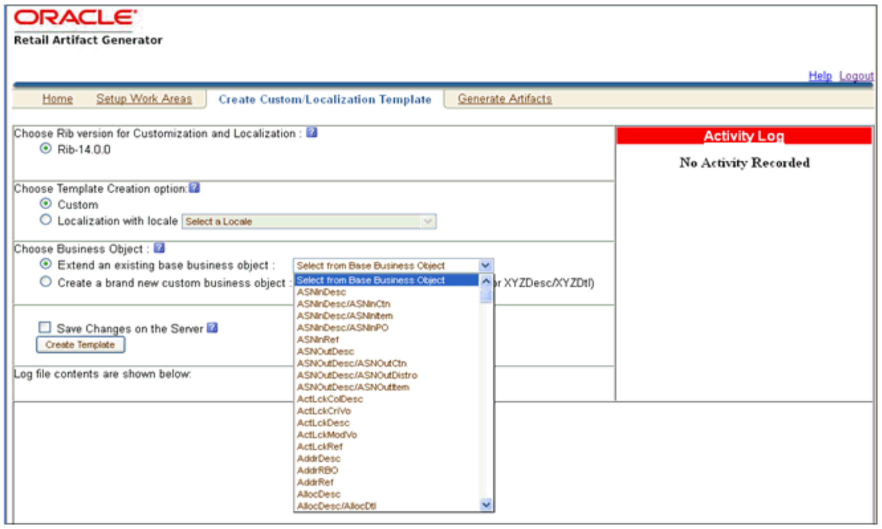
Save Changes on the Se
Create Template

Log file contents are shown belo

Select a Locale
Andorra - Ad
United Arab Emirates - Ae
Afghanistan - Af
Antigua and Barbuda - Ag
Anguilla - Ai
Albania - Al
Armenia - Am
Netherlands Antilles - An
Angola - Ao
Antarctica - Aq
Argentina - Ar
American Samoa - As
Austria - At
Australia - Au
Aruba - Aw
Åland Islands - Ax
Azerbaijan - Az
Bosnia and Herzegovina - Ba
Barbados - bb

Activity Log
No Activity Recorded

Based on the version selected, a list of all complex types in the form of XPath expression (such as DSDDealsDesc/DSDDeals) is available for template creation. The following screen includes the list of base business objects available for the selected version of RIB. You can also select a complex type from the list to extend/localize an existing base business object, or create a new baseless business object by providing the appropriate details as text input.


Retail Artifact Generator

Help Logout

Home | Setup Work Areas | Create Custom/Localization Template | Generate Artifacts

Choose Rib version for Customization and Localization :
[✓ Rib-14.0.0]

Choose Template Creation option:
[✓ Custom]
Localization with locale Select a Locale

Choose Business Object :
[✓ Extend an existing base business object :] Select from Base Business Object
Create a brand new custom business object : ...r XYZDesc/XYZDtl)

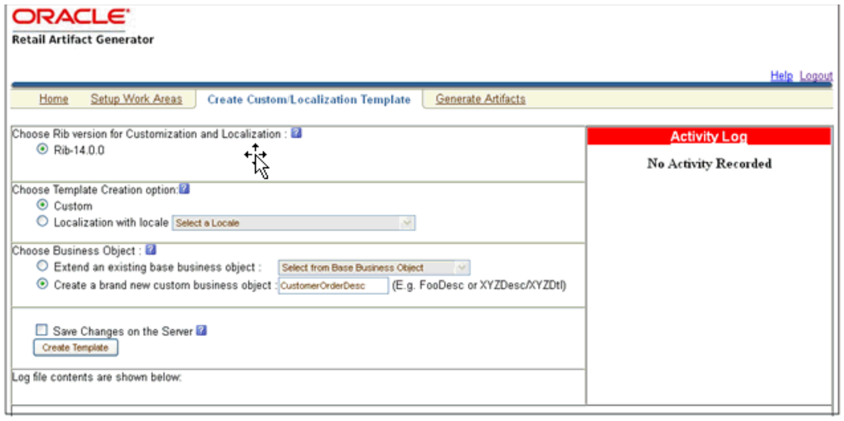
Save Changes on the Server
Create Template

Log file contents are shown below:

Select from Base Business Object
ASNInDesc
ASNInDesc/ASNInCtn
ASNInDesc/ASNInItem
ASNInDesc/ASNInPO
ASNInRef
ASNOutDesc
ASNOutDesc/ASNOutCtn
ASNOutDesc/ASNOutDistro
ASNOutDesc/ASNOutItem
ActLckColDesc
ActLckCrIVo
ActLckDesc
ActLckModVo
ActLckRef
AddrDesc
AddrRBO
AddrRef
AllocDesc
AllocDesc/AllocDtl

Activity Log
No Activity Recorded

To create a new custom/localization business object, select the option to create a brand new business object and provides the complex type details in text box as shown in the following screen.



ORACLE Retail Artifact Generator

Help Logout

Home | Setup Work Areas | Create Custom/Localization Template | Generate Artifacts

Choose Rib version for Customization and Localization :
[✓ Rib-14.0.0]

Choose Template Creation option:
[✓ Custom]
Localization with locale: Select a Locale

Choose Business Object :
Extend an existing base business object : Select from Base Business Object
[✓ Create a brand new custom business object : CustomerOrderDesc] (E.g. FooDesc or XYZDesc/XYZDtl)

☐ Save Changes on the Server

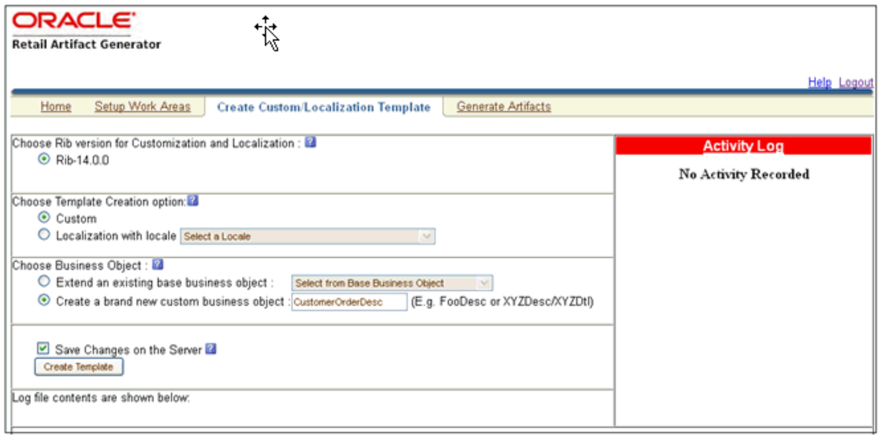
Create Template

Log file contents are shown below:

Activity Log

No Activity Recorded

To save the created templates on the server and make them available for future use, you can select Save Changes to the Server. All successful changes are saved to the server, and the activity is logged in the Recent Activity panel.



ORACLE Retail Artifact Generator

Help Logout

Home | Setup Work Areas | Create Custom/Localization Template | Generate Artifacts

Choose Rib version for Customization and Localization :
[✓ Rib-14.0.0]

Choose Template Creation option:
[✓ Custom]
Localization with locale: Select a Locale

Choose Business Object :
Extend an existing base business object : Select from Base Business Object
[✓ Create a brand new custom business object : CustomerOrderDesc] (E.g. FooDesc or XYZDesc/XYZDtl)

☑ Save Changes on the Server

Create Template

Log file contents are shown below:

Activity Log

No Activity Recorded

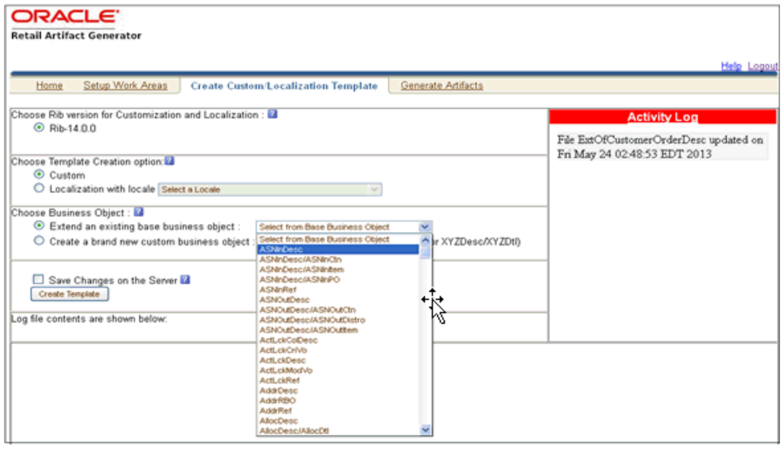
When you click **Create Template**, a request is sent to the server for template creation processing.

Graphical User Interface - Examples

This section provides GUI examples for the Template Creator.

Create a custom template for a base retail business object

In Panel 1, select a version (such as RIB 14.0.1). Select the custom option in Panel 2. Select the option to extend an existing base business. Select a base business object from the list (such as ASNInDesc), as shown in the following screen. You have the option of saving the changes to the server.



Choose Rib version for Customization and Localization : [✓ Rib-14.0.0]

Choose Template Creation option: [✓ Custom] Localization with locale Select a Locale

Choose Business Object : [✓ Extend an existing base business object : Select from Base Business Object] Create a brand new custom business object : …r XYZDesc/XYZDtl)

Select from Base Business Object
ASNInDesc
ASNInDesc/ASNInCtn
ASNInDesc/ASNInItem
ASNInDesc/ASNInPO
ASNInRef
ASNOutDesc
ASNOutDesc/ASNOutCtn
ASNOutDesc/ASNOutDistro
ASNOutDesc/ASNOutItem
ActLckColDesc
ActLckCriVo
ActLckDesc
ActLckModVo
ActLckRef
AddrDesc
AddrRBO
AddrRef
AllocDesc
AllocDesc/AllocDtl

Save Changes on the Server

Log file contents are shown below:

Activity Log

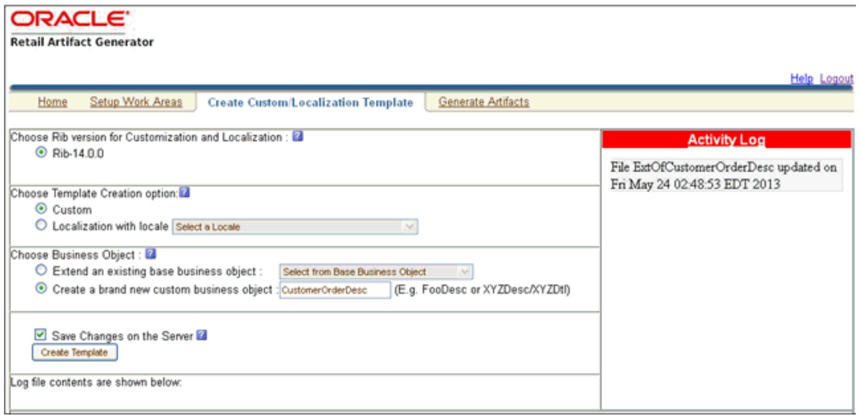
File ExtOfCustomerOrderDesc updated on Fri May 24 02:48:53 EDT 2013

When Create Template is clicked, the custom-template.zip file is created. It can be downloaded, and a local copy can be saved. The zip file includes ASNInDesc.xsd and ExtOfASNInDesc.xsd.

If Save Changes on the Server is selected, the changes are copied back to the server, and the Activity Log is updated.

Create a custom template for new business object (no existing base retail business object)

In Panel 1, select a version (such as RIB 14.0.1). Select custom option in Panel 2. Select the option to create a brand new custom business object, and input the complex type (such as CustomerOrderDesc), as shown in the following screen. You have the option of saving the changes to the server.



Choose Rib version for Customization and Localization : [✓ Rib-14.0.0]

Choose Template Creation option: [✓ Custom] Localization with locale Select a Locale

Choose Business Object : Extend an existing base business object : Select from Base Business Object [✓ Create a brand new custom business object : CustomerOrderDesc] (E.g. FooDesc or XYZDesc/XYZDtl)

[✓ Save Changes on the Server]

Log file contents are shown below:

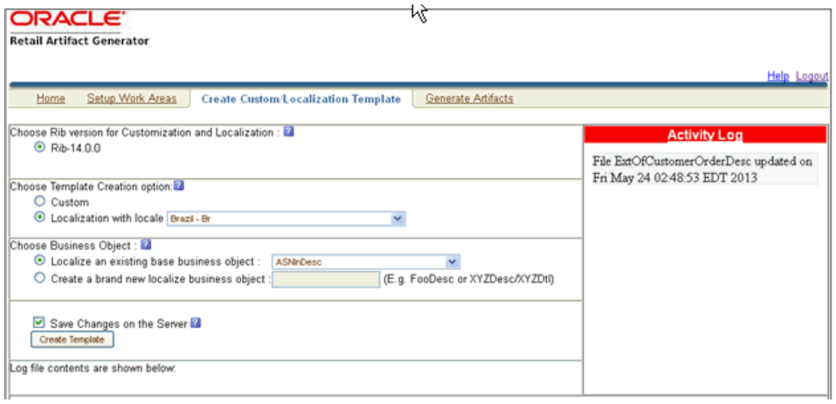
Activity Log

File ExtOfCustomerOrderDesc updated on Fri May 24 02:48:53 EDT 2013

When Create Template is clicked, the custom-template.zip file is created. It is available to download, and local copy can be saved. The zip file includes ExtOfCustomerOrderDesc.xsd. If you select Save Changes on the Server option, the changes are copied back to the server, and an Activity Log is updated.

Create a localization template for base retail business object

In Panel 1, select the version (such as RIB 14.0.1). In Panel 2, select the localization option from the drop down list (such as Brazil-Br). Select the option to localize an existing base business object. Input the complex type (such as ASNInDesc). You have the option of saving the changes to the server.



Retail Artifact Generator

Help Logout

Home | Setup Work Areas | Create Custom/Localization Template | Generate Artifacts

Choose Rib version for Customization and Localization :
[✓ Rib-14.0.0]

Choose Template Creation option:
Custom
[✓ Localization with locale] Brazil - Br

Choose Business Object :
[✓ Localize an existing base business object :] ASNInDesc
Create a brand new localize business object : (E.g. FooDesc or XYZDesc/XYZDtl)

[✓ Save Changes on the Server]
Create Template

Log file contents are shown below:

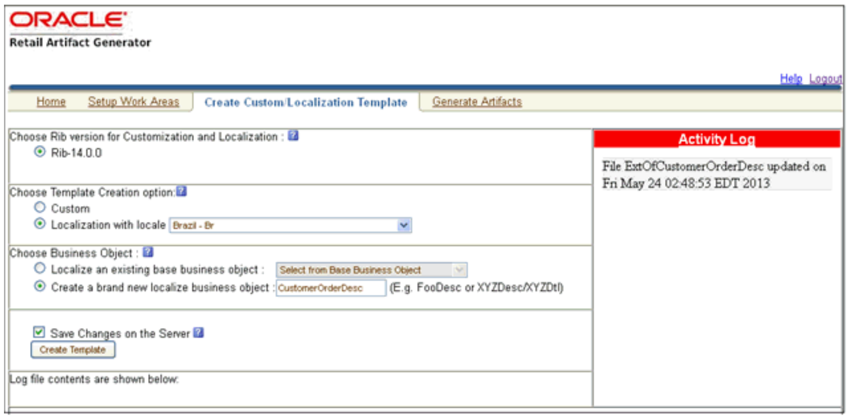
Activity Log

File ExtOfCustomerOrderDesc updated on Fri May 24 02:48:53 EDT 2013

When you click **Create Template**, the localization-template.zip is created. It is available for download, and it can be saved on your system. The zip folder includes ASNInDesc.xsd, LocOfASNInDesc.xsd, BrASNInDesc.xsd, and EOfBrASNInDesc.xsd. If you select Save Changes on the Server option, the changes are copied to the server, and the Activity Log is updated.

Create a localization template for new business object (no existing base retail business object)

In Panel 1, select the version (such as RIB 14.0.1). In Panel 2, select a locale from the drop down list (such as Brazil-Br). Select the option to create a brand new localized business object. Input the complex type (such as CustomerOrderDesc). You have the option of saving the changes to the server.



Retail Artifact Generator

Help Logout

Home | Setup Work Areas | Create Custom/Localization Template | Generate Artifacts

Choose Rib version for Customization and Localization :
[✓ Rib-14.0.0]

Choose Template Creation option:
Custom
[✓ Localization with locale] Brazil - Br

Choose Business Object :
Localize an existing base business object : Select from Base Business Object
[✓ Create a brand new localize business object :] CustomerOrderDesc (E.g. FooDesc or XYZDesc/XYZDtl)

[✓ Save Changes on the Server]
Create Template

Log file contents are shown below:

Activity Log

File ExtOfCustomerOrderDesc updated on Fri May 24 02:48:53 EDT 2013

When you click **Create Template**, the localization-template.zip is created. It is available for download, and it can be saved on your system. The zip file includes LocOfCustomerOrderDesc.xsd, BrCustomerOrderDesc.xsd, and EOfBrCustomerOrderDesc.xsd. If you select Save Changes on the Server option, the changes are copied back to the server, and Activity Log is updated.

Adding Optional Elements

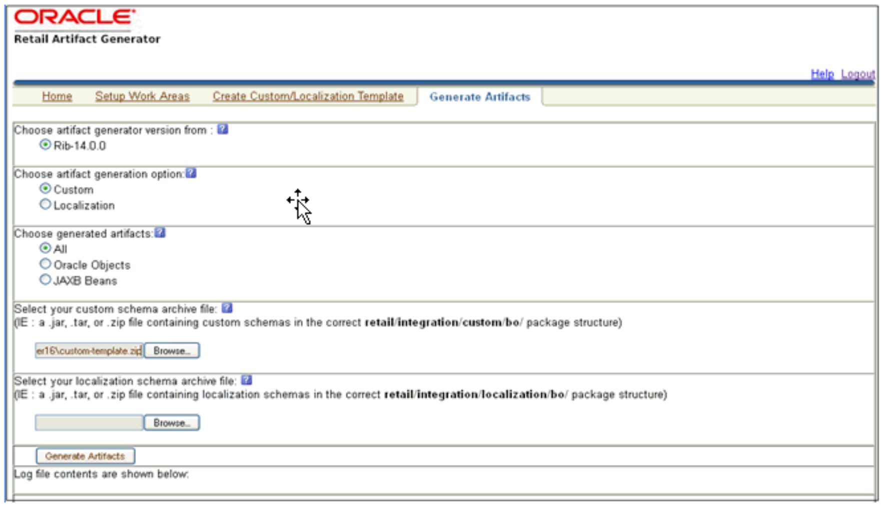
After you create the template, save the generated zip file to the your system.

This section explains how to add an optional element (simple type or complex type) to generated message payloads. Edit the desired payload XSDs of zip file in the following directory “payload/xsd/retail/integration/custom/bo”. Add the optional simple or complex element to the particular message family xsd. If needed, define the type it belongs to if it does not exist.

After modifying the zip file follow the steps to generate functional artifacts using GUI Generate Artifacts tab.

Choose artifact generator version and artifact generation option (custom/localization).

Select the saved schema archive file (custom template or localization template) by clicking on the Browse button.



Choose artifact generator version from : [✓ Rib-14.0.0]

Choose artifact generation option: [✓ Custom] Localization

Choose generated artifacts: [✓ All] Oracle Objects JAXB Beans

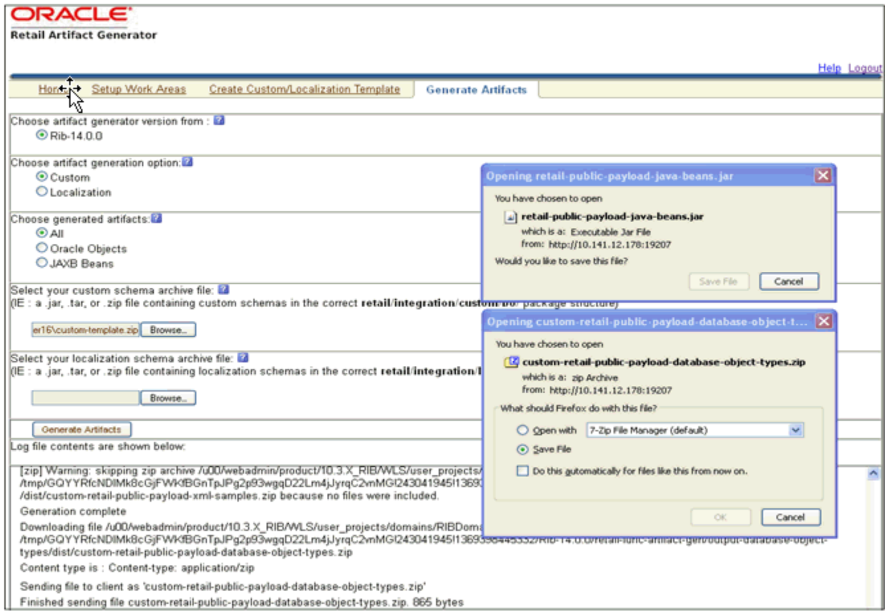
Select your custom schema archive file:
(IE : a .jar, .tar, or .zip file containing custom schemas in the correct **retail/integration/custom/bo/** package structure)

er16\custom-template.zip

Select your localization schema archive file:
(IE : a .jar, .tar, or .zip file containing localization schemas in the correct **retail/integration/localization/bo/** package structure)

Log file contents are shown below:

Click on Generate Artifacts button to generate functional artifacts.



Choose artifact generator version from : [✓ Rib-14.0.0]

Choose artifact generation option: [✓ Custom] Localization

Choose generated artifacts: [✓ All] Oracle Objects JAXB Beans

Select your custom schema archive file:
(IE : a .jar, .tar, or .zip file containing custom schemas in the correct **retail/integration/custom/bo/** package structure)

er16\custom-template.zip

Select your localization schema archive file:
(IE : a .jar, .tar, or .zip file containing localization schemas in the correct **retail/integration/l**

Log file contents are shown below:

```
[zip] Warning: skipping zip archive /u00/webadmin/product/10.3.X_RIB/WLS/user_projects/
/tmp/GQYYRfcNDIMk8cGjFWKfBGnTpJPg2p93wgqD22Lm4jJyrqC2vnMGI243041945I13693
/dist/custom-retail-public-payload-xml-samples.zip because no files were included.
Generation complete
Downloading file /u00/webadmin/product/10.3.X_RIB/WLS/user_projects/domains/RIBDoma
/tmp/GQYYRfcNDIMk8cGjFWKfBGnTpJPg2p93wgqD22Lm4jJyrqC2vnMGI243041945I13693
types/dist/custom-retail-public-payload-database-object-types.zip
Content type is : Content-type: application/zip
Sending file to client as 'custom-retail-public-payload-database-object-types.zip'
Finished sending file custom-retail-public-payload-database-object-types.zip. 865 bytes
```

Opening retail-public-payload-java-beans.jar

You have chosen to open
retail-public-payload-java-beans.jar
which is a: Executable Jar File
from: http://10.141.12.178:19207
Would you like to save this file?

Opening custom-retail-public-payload-database-object-t...

You have chosen to open
custom-retail-public-payload-database-object-types.zip
which is a: zip Archive
from: http://10.141.12.178:19207
What should Firefox do with this file?
Open with 7-Zip File Manager (default)
[✓ Save File]
Do this automatically for files like this from now on.

As the process runs, the status of its progress is displayed in the log window. When the process completes, the save file dialog windows will display for retail-public-payload-java-beans.jar, custom-retail-payload-java-beans.jar, and the custom-retail-public-payload-database-object-types.zip with options to save the archive files or open them for review.

A

Appendix: Install the Artifact Generator

This appendix provides step-by-step instruction (with illustrations) for installing the Artifact Generator as a Web application in Oracle WebLogic.

Creating the Role/User in the Artifact Generator

To create a role/user in the Artifact Generator, do the following:

1. Log in to the WLS. In the **Domain Structure** menu, click **Security Realms**.
2. Click **myrealm** and then on **Users and Groups**.
3. Click **Groups**. Create a new group called **agAdminGroup**.
4. Click **Users**. Add a new user.
5. Under settings for the new user, click the **Groups** tab. Add the agAdminGroup to the new user.

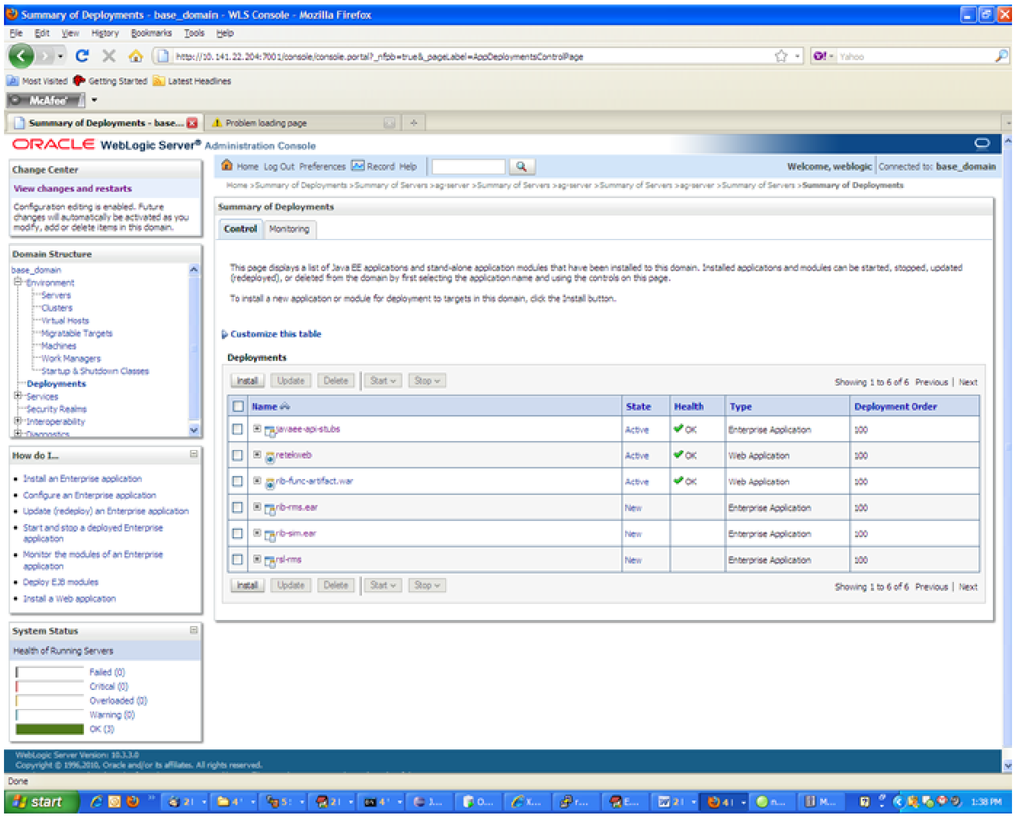
Installing as a Web Application in Oracle WebLogic

This section describes the steps you need to complete to install the Artifact Generator as a Web application in Oracle WebLogic.

Deploying the Artifact Generator Application

Using the WebLogic Server Administration Console, complete the following steps:

1. Navigate to the Deployments page.



Summary of Deployments

Control | Monitoring

This page displays a list of Java EE applications and stand-alone application modules that have been installed to this domain. Installed applications and modules can be started, stopped, updated (redeployed), or deleted from the domain by first selecting the application name and using the controls on this page.

To install a new application or module for deployment to targets in this domain, click the Install button.

Customize this table

Deployments

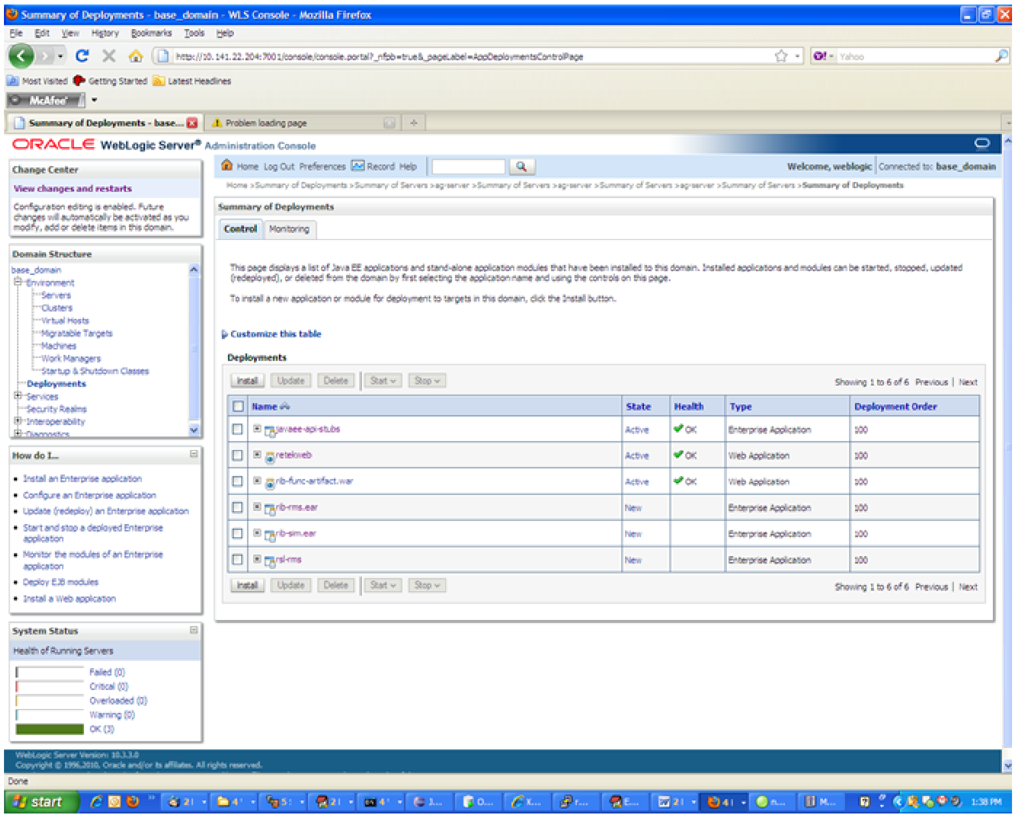
Install | Update | Delete | Start | Stop — Showing 1 to 6 of 6 Previous | Next

Name	State	Health	Type	Deployment Order
javaee-api-stubs	Active	✓ OK	Enterprise Application	100
retekweb	Active	✓ OK	Web Application	100
rib-func-artifact.war	Active	✓ OK	Web Application	100
rib-rms.ear	New		Enterprise Application	100
rib-sim.ear	New		Enterprise Application	100
rsl-rms	New		Enterprise Application	100

Install | Update | Delete | Start | Stop — Showing 1 to 6 of 6 Previous | Next

Summary of Deployments - base_domain - WLS Console - Mozilla Firefox
File Edit View History Bookmarks Tools Help
http://10.141.22.204:7001/console/console.portal?_nfpb=true&_pageLabel=AppDeploymentsControlPage
Most Visited Getting Started Latest Headlines
ORACLE WebLogic Server® Administration Console
Home Log Out Preferences Record Help
Welcome, weblogic Connected to: base_domain
Home >Summary of Deployments >Summary of Servers >ag-server >Summary of Servers >ag-server >Summary of Servers >ag-server >Summary of Servers >Summary of Deployments
Change Center
View changes and restarts
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.
Domain Structure
base_domain
Environment
Servers
Clusters
Virtual Hosts
Migratable Targets
Machines
Work Managers
Startup & Shutdown Classes
Deployments
Services
Security Realms
Interoperability
Diagnostics
How do I...
Install an Enterprise application
Configure an Enterprise application
Update (redeploy) an Enterprise application
Start and stop a deployed Enterprise application
Monitor the modules of an Enterprise application
Deploy EJB modules
Install a Web application
System Status
Health of Running Servers
Failed (0)
Critical (0)
Overloaded (0)
Warning (0)
OK (3)
WebLogic Server Version: 10.3.3.0
Copyright © 1996,2010, Oracle and/or its affiliates. All rights reserved.
Done
start
1:38 PM

2. Click **Install**.



Summary of Deployments

Control | Monitoring

This page displays a list of Java EE applications and stand-alone application modules that have been installed to this domain. Installed applications and modules can be started, stopped, updated (redeployed), or deleted from the domain by first selecting the application name and using the controls on this page.

To install a new application or module for deployment to targets in this domain, click the Install button.

Customize this table

Deployments

Install | Update | Delete | Start | Stop — Showing 1 to 6 of 6 Previous | Next

Name	State	Health	Type	Deployment Order
javaee-api-stubs	Active	✓ OK	Enterprise Application	100
retekweb	Active	✓ OK	Web Application	100
rib-func-artifact.war	Active	✓ OK	Web Application	100
rib-rms.ear	New		Enterprise Application	100
rib-sim.ear	New		Enterprise Application	100
rsl-rms	New		Enterprise Application	100

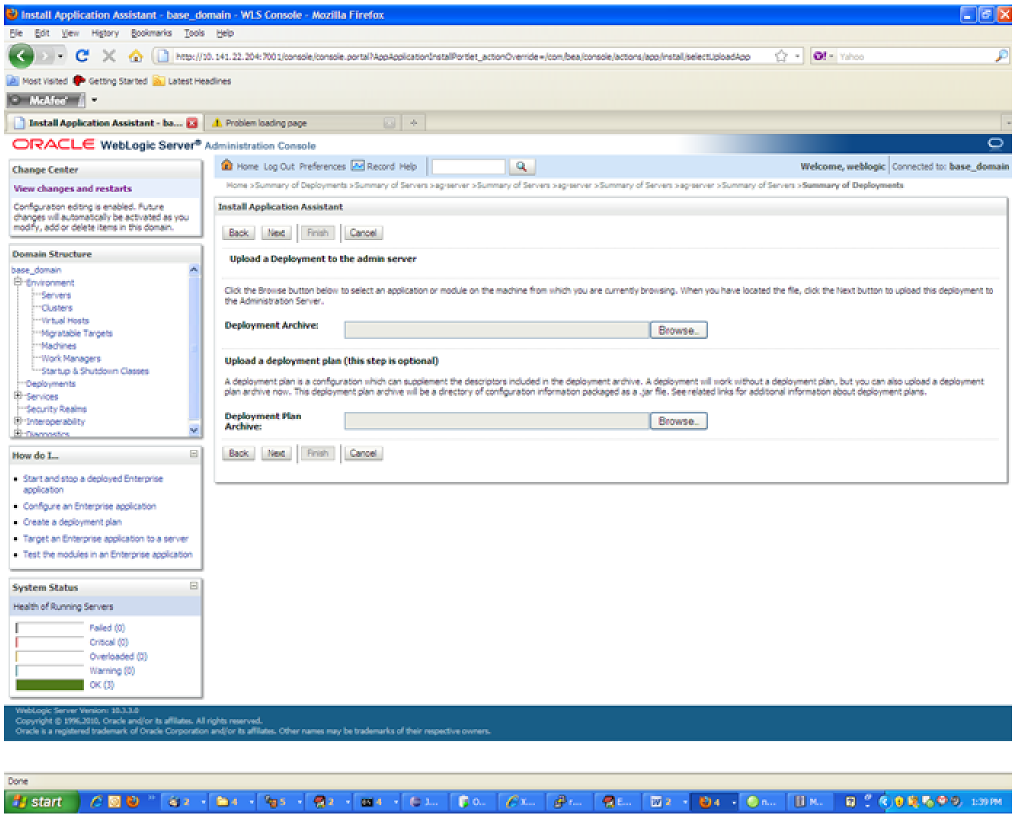
Install | Update | Delete | Start | Stop — Showing 1 to 6 of 6 Previous | Next

---

Note: If the application has already been installed, see the section, "Redeploying the Application."

The **Locate deployment to install and prepare for deployment** page is displayed. Follow the instructions to locate the retail-func-artifact-gen-gui.war file.

3. Select **Upload your File(s)**.


Install Application Assistant - base_domain - WLS Console - Mozilla Firefox
File Edit View History Bookmarks Tools Help
http://10.141.22.204:7001/console/console.portal?AppApplicationInstallPortlet_actionOverride=/com/bea/console/actions/app/install/selectUploadApp
Most Visited
Getting Started
Latest Headlines
McAfee
Install Application Assistant - ba...
Problem loading page
ORACLE WebLogic Server® Administration Console
Home Log Out Preferences Record Help
Welcome, weblogic Connected to: base_domain
Home >Summary of Deployments >Summary of Servers >ag-server >Summary of Servers >ag-server >Summary of Servers >ag-server >Summary of Servers >Summary of Deployments
Change Center
View changes and restarts
Domain Structure
base_domain
Environment
Servers
Clusters
Virtual Hosts
Migratable Targets
Machines
Work Managers
Startup & Shutdown Classes
Deployments
Services
Security Realms
Interoperability
Diagnostics
How do I...
Start and stop a deployed Enterprise application
Configure an Enterprise application
Create a deployment plan
Target an Enterprise application to a server
Test the modules in an Enterprise application
System Status
Health of Running Servers
Failed (0)
Critical (0)
Overloaded (0)
Warning (0)
OK (3)
Back
Next
Finish
Cancel
Browse...
Done
start
1:39 PM

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

Install Application Assistant

Upload a Deployment to the admin server

Click the Browse button below to select an application or module on the machine from which you are currently browsing. When you have located the file, click the Next button to upload this deployment to the Administration Server.

Deployment Archive:

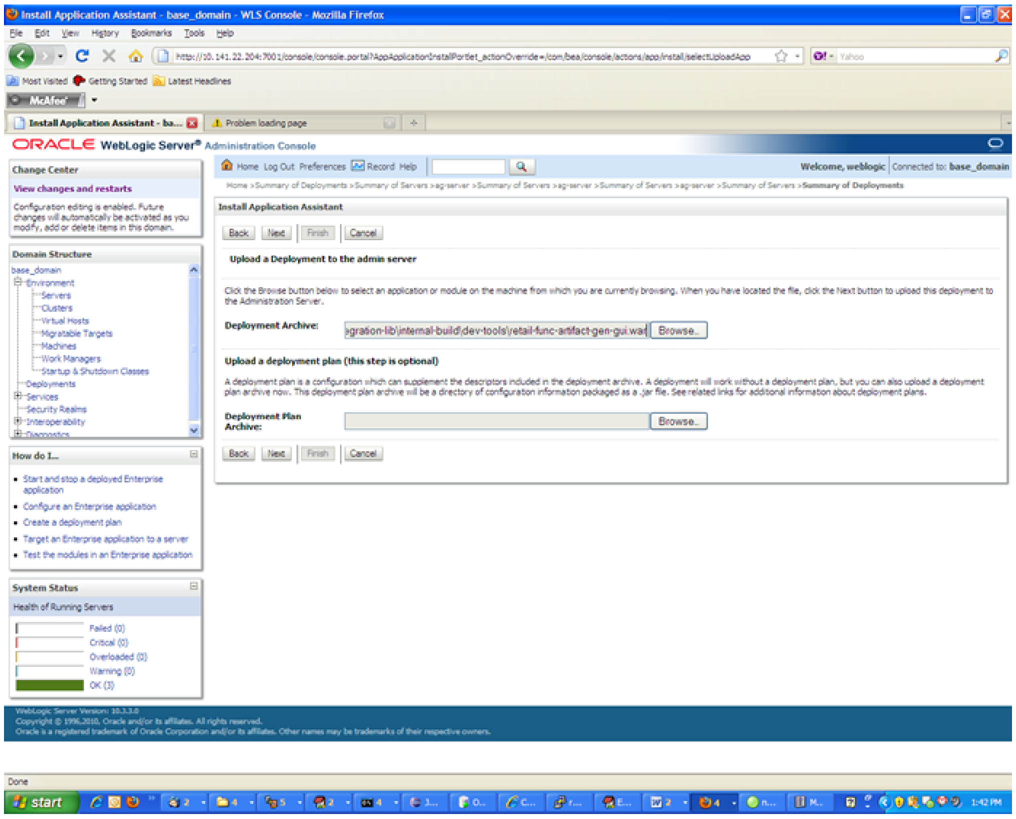
Upload a deployment plan (this step is optional)

A deployment plan is a configuration which can supplement the descriptors included in the deployment archive. A deployment will work without a deployment plan, but you can also upload a deployment plan archive now. This deployment plan archive will be a directory of configuration information packaged as a .jar file. See related links for additional information about deployment plans.

Deployment Plan Archive:

WebLogic Server Version: 10.3.3.0
Copyright © 1996,2010, Oracle and/or its affiliates. All rights reserved.
Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

4. On the **Upload a Deployment to the admin server** page, use the Browse button to locate the retail-func-artifact-gen-gui.war file in the Deployment Archive.


Install Application Assistant - base_domain - WLS Console - Mozilla Firefox
Problem loading page
ORACLE WebLogic Server® Administration Console
Home Log Out Preferences Record Help
Welcome, weblogic Connected to: base_domain
Change Center
View changes and restarts
Domain Structure
How do I...
System Status
Back Next Finish Cancel
Browse...

Home >Summary of Deployments >Summary of Servers >ag-server >Summary of Servers >ag-server >Summary of Servers >ag-server >Summary of Servers >**Summary of Deployments**

Install Application Assistant

Upload a Deployment to the admin server

Click the Browse button below to select an application or module on the machine from which you are currently browsing. When you have located the file, click the Next button to upload this deployment to the Administration Server.

Deployment Archive: egration-lib\internal-build\dev-tools\retail-func-artifact-gen-gui.war

Upload a deployment plan (this step is optional)

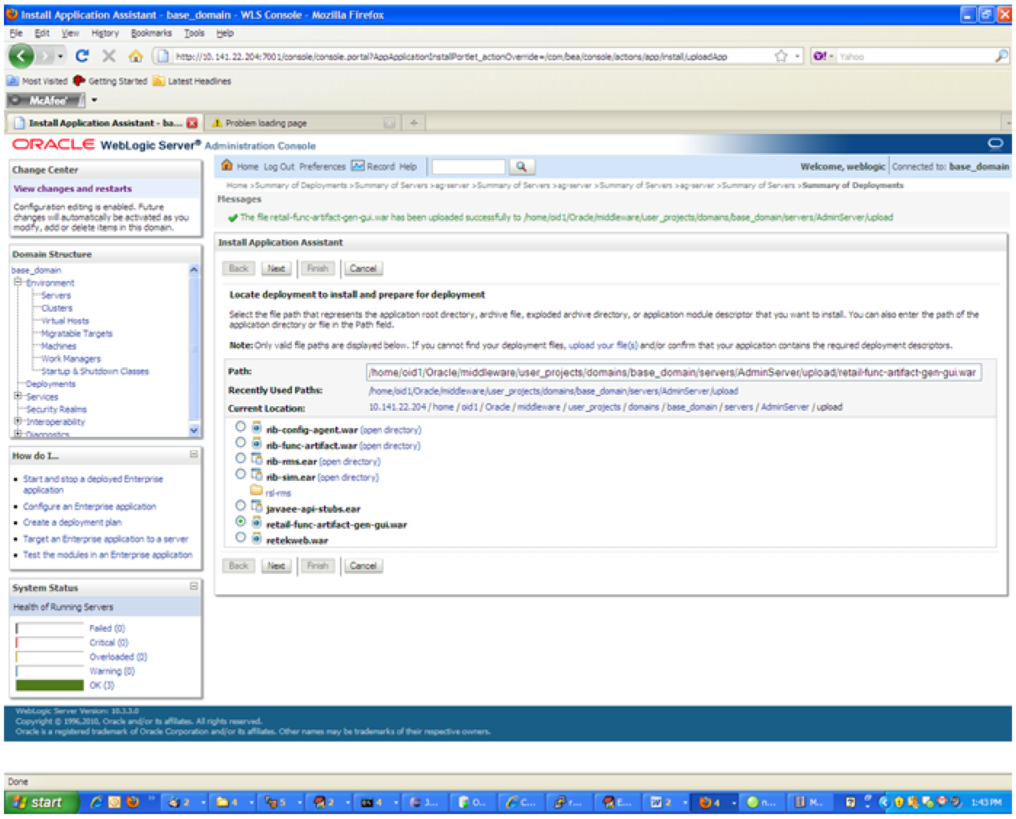
A deployment plan is a configuration which can supplement the descriptors included in the deployment archive. A deployment will work without a deployment plan, but you can also upload a deployment plan archive now. This deployment plan archive will be a directory of configuration information packaged as a .jar file. See related links for additional information about deployment plans.

Deployment Plan Archive:

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

WebLogic Server Version: 10.3.3.0
Copyright © 1996,2010, Oracle and/or its affiliates. All rights reserved.
Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

5. Select **retail-func-artifact-gen-gui.war**.


Install Application Assistant - base_domain - WLS Console - Mozilla Firefox
Problem loading page
ORACLE WebLogic Server® Administration Console
Home Log Out Preferences Record Help
Welcome, weblogic Connected to: base_domain
Change Center
View changes and restarts
Domain Structure
How do I...
System Status
Back Next Finish Cancel

Messages

✓ The file retail-func-artifact-gen-gui.war has been uploaded successfully to /home/oid1/Oracle/middleware/user_projects/domains/base_domain/servers/AdminServer/upload

Install Application Assistant

Locate deployment to install and prepare for deployment

Select the file path that represents the application root directory, archive file, exploded archive directory, or application module descriptor that you want to install. You can also enter the path of the application directory or file in the Path field.

Note: Only valid file paths are displayed below. If you cannot find your deployment files, upload your file(s) and/or confirm that your application contains the required deployment descriptors.

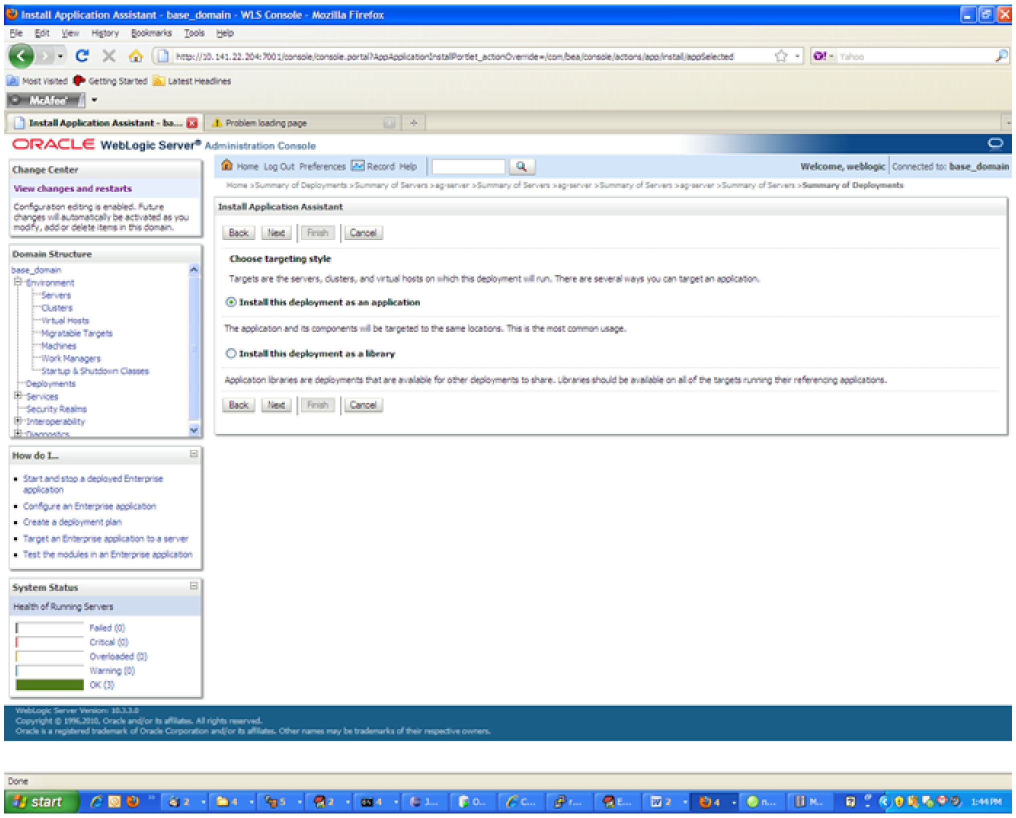
Path: /home/oid1/Oracle/middleware/user_projects/domains/base_domain/servers/AdminServer/upload/retail-func-artifact-gen-gui.war

Recently Used Paths: /home/oid1/Oracle/middleware/user_projects/domains/base_domain/servers/AdminServer/upload

Current Location: 10.141.22.204 / home / oid1 / Oracle / middleware / user_projects / domains / base_domain / servers / AdminServer / upload

- ○ **rib-config-agent.war** (open directory)
- ○ **rib-func-artifact.war** (open directory)
- ○ **rib-rms.ear** (open directory)
- ○ **rib-sim.ear** (open directory)
- rsl-rms
- ○ **javaee-api-stubs.ear**
- [✓ **retail-func-artifact-gen-gui.war**]
- ○ **retekweb.war**

6. Click **Next** and move to **Choose targeting style**.


Install Application Assistant - base_domain - WLS Console - Mozilla Firefox

http://10.141.22.204:7001/console/console.portal?AppApplicationInstallPortlet_actionOverride=/com/bea/console/actions/app/install/appSelected

Welcome, weblogic | Connected to: base_domain

Home >Summary of Deployments >Summary of Servers >ag-server >Summary of Servers >ag-server >Summary of Servers >ag-server >Summary of Servers >**Summary of Deployments**

Change Center

View changes and restarts

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

Install Application Assistant

Choose targeting style

Targets are the servers, clusters, and virtual hosts on which this deployment will run. There are several ways you can target an application.

[✓ **Install this deployment as an application**]

The application and its components will be targeted to the same locations. This is the most common usage.

Install this deployment as a library

Application libraries are deployments that are available for other deployments to share. Libraries should be available on all of the targets running their referencing applications.

How do I...

- Start and stop a deployed Enterprise application
- Configure an Enterprise application
- Create a deployment plan
- Target an Enterprise application to a server
- Test the modules in an Enterprise application

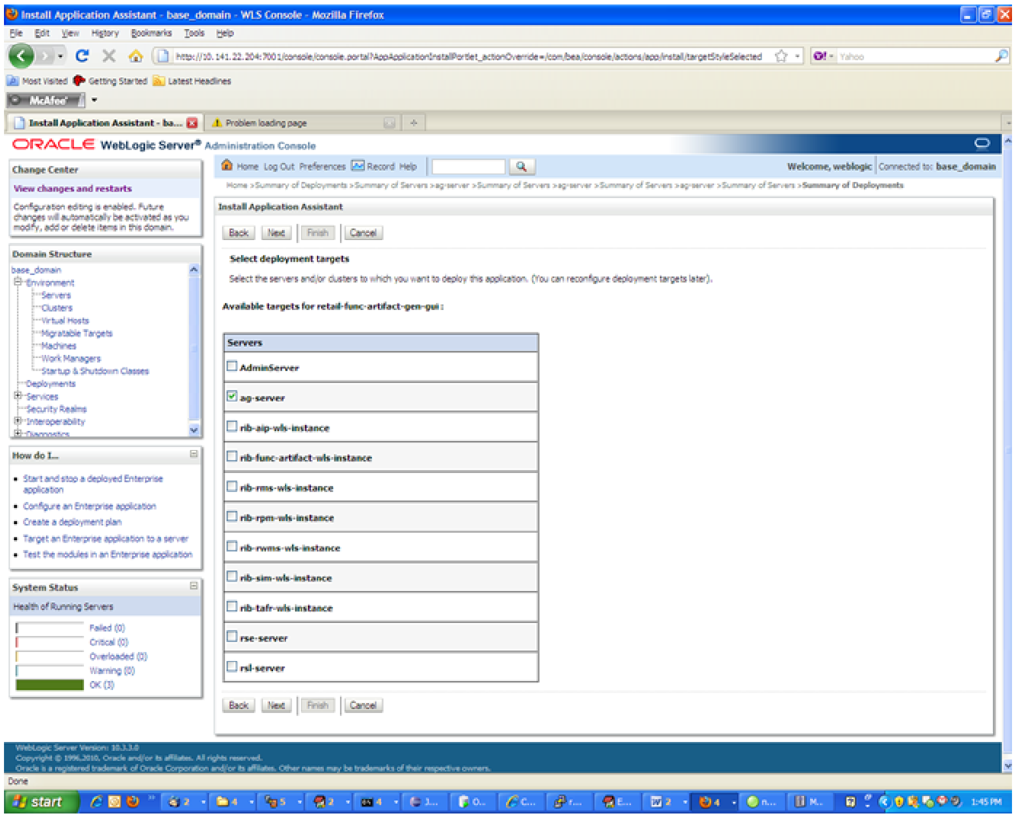
System Status

Health of Running Servers

Failed (0)
Critical (0)
Overloaded (0)
Warning (0)
OK (3)

WebLogic Server Version: 10.3.3.0
Copyright © 1996,2010, Oracle and/or its affiliates. All rights reserved.
Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

7. Select **Install this deployment as an application**.
8. Click **Next** and move to **Select deployment targets**.



Install Application Assistant

Select deployment targets

Select the servers and/or clusters to which you want to deploy this application. (You can reconfigure deployment targets later).

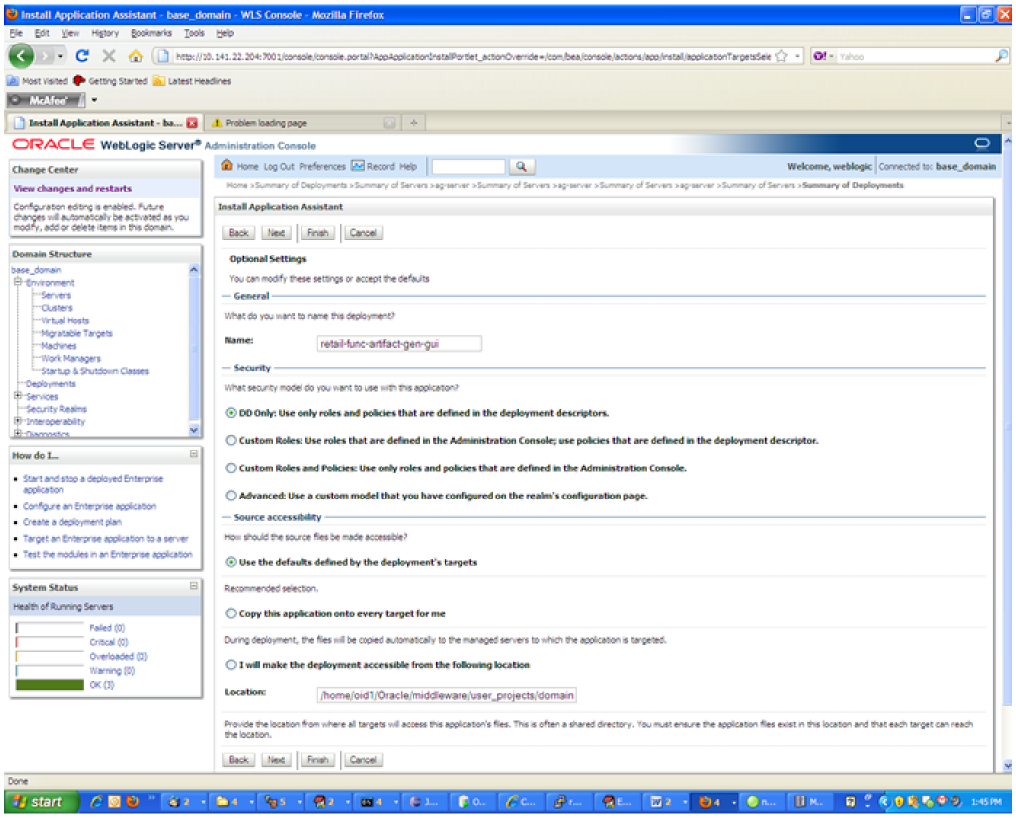
Available targets for retail-func-artifact-gen-gui :

Servers
☐ AdminServer
☑ ag-server
☐ rib-aip-wls-instance
☐ rib-func-artifact-wls-instance
☐ rib-rms-wls-instance
☐ rib-rpm-wls-instance
☐ rib-rwms-wls-instance
☐ rib-sim-wls-instance
☐ rib-tafr-wls-instance
☐ rse-server
☐ rsl-server

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

WebLogic Server Version: 10.3.3.0
Copyright © 1996,2010, Oracle and/or its affiliates. All rights reserved.
Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

9. Click the managed server to which the application will be deployed. Click **Next** and move to **Optional Settings**.



Install Application Assistant

Optional Settings

You can modify these settings or accept the defaults

General

What do you want to name this deployment?

Name: retail-func-artifact-gen-gui

Security

What security model do you want to use with this application?

[✓ DD Only: Use only roles and policies that are defined in the deployment descriptors.]

Custom Roles: Use roles that are defined in the Administration Console; use policies that are defined in the deployment descriptor.

Custom Roles and Policies: Use only roles and policies that are defined in the Administration Console.

Advanced: Use a custom model that you have configured on the realm's configuration page.

Source accessibility

How should the source files be made accessible?

[✓ Use the defaults defined by the deployment's targets]

Recommended selection.

Copy this application onto every target for me

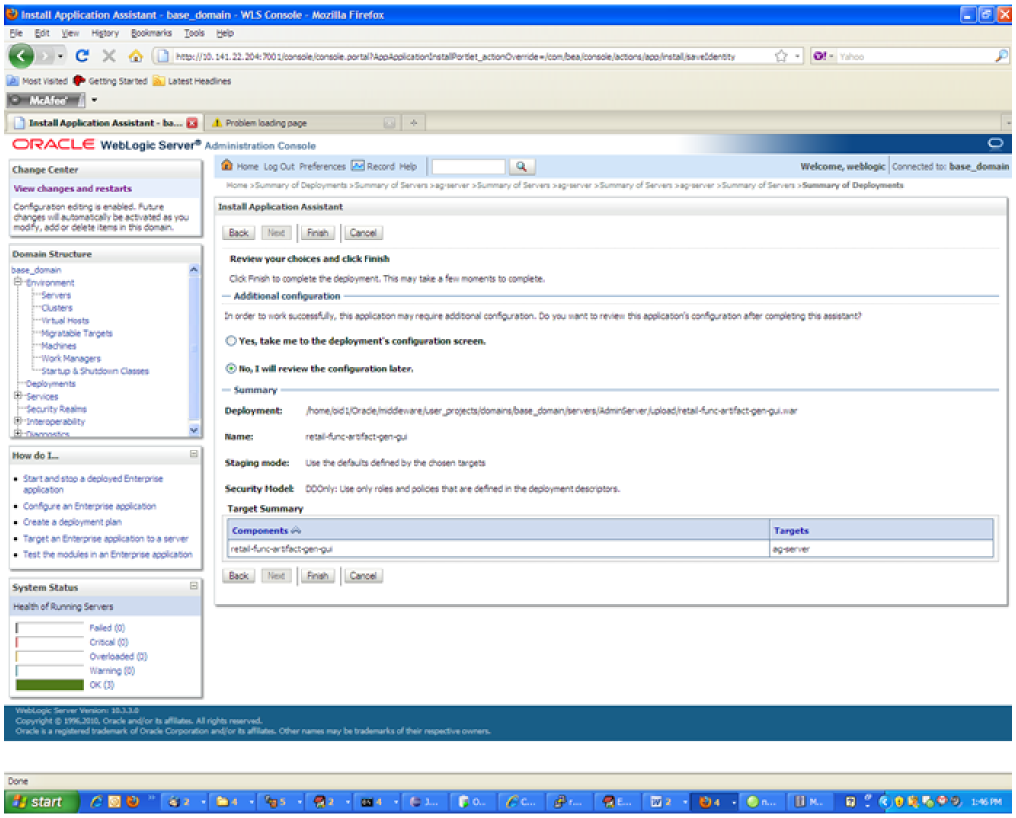
During deployment, the files will be copied automatically to the managed servers to which the application is targeted.

I will make the deployment accessible from the following location

Location: /home/oid1/Oracle/middleware/user_projects/domain

Provide the location from where all targets will access this application's files. This is often a shared directory. You must ensure the application files exist in this location and that each target can reach the location.

10. Select **Next** and move to **Review your choices and click Finish**.



Install Application Assistant

Review your choices and click Finish

Click Finish to complete the deployment. This may take a few moments to complete.

Additional configuration

In order to work successfully, this application may require additional configuration. Do you want to review this application's configuration after completing this assistant?

Yes, take me to the deployment's configuration screen.

[✓ No, I will review the configuration later.]

Summary

Deployment: /home/oid1/Oracle/middleware/user_projects/domains/base_domain/servers/AdminServer/upload/retail-func-artifact-gen-gui.war

Name: retail-func-artifact-gen-gui

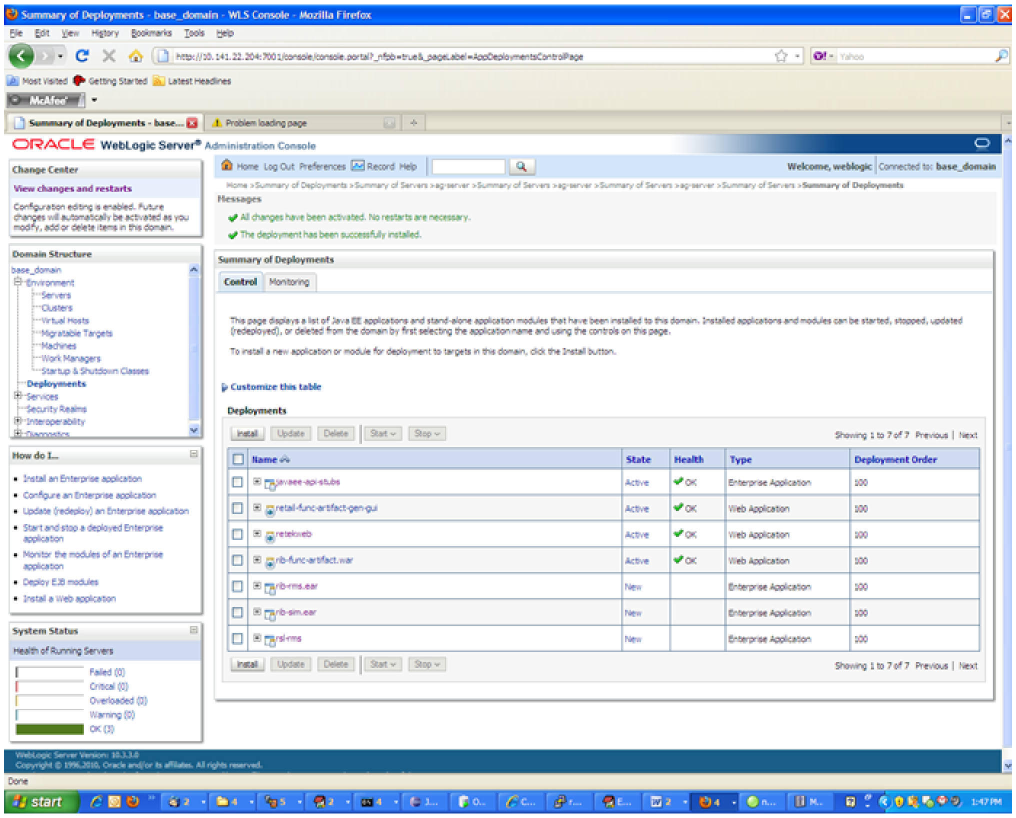
Staging mode: Use the defaults defined by the chosen targets

Security Model: DDOnly: Use only roles and policies that are defined in the deployment descriptors.

Target Summary

Components	Targets
retail-func-artifact-gen-gui	ag-server

11. Select **No, I will review the configuration later**.
12. Click **Finish** to deploy the application.



Summary of Deployments - base_domain - WLS Console - Mozilla Firefox

http://10.141.22.204:7001/console/console.portal?_nfpb=true&_pageLabel=AppDeploymentsControlPage

ORACLE WebLogic Server® Administration Console

Welcome, weblogic | Connected to: base_domain

Home >Summary of Deployments >Summary of Servers >ag-server >Summary of Servers >ag-server >Summary of Servers >ag-server >Summary of Servers >**Summary of Deployments**

Messages

✓ All changes have been activated. No restarts are necessary.

✓ The deployment has been successfully installed.

Change Center

View changes and restarts

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

Summary of Deployments

This page displays a list of Java EE applications and stand-alone application modules that have been installed to this domain. Installed applications and modules can be started, stopped, updated (redeployed), or deleted from the domain by first selecting the application name and using the controls on this page.

To install a new application or module for deployment to targets in this domain, click the Install button.

Deployments

Showing 1 to 7 of 7 Previous | Next

	Name	State	Health	Type	Deployment Order
☐	javaee-api-stubs	Active	✓ OK	Enterprise Application	100
☐	retail-func-artifact-gen-gui	Active	✓ OK	Web Application	100
☐	retekweb	Active	✓ OK	Web Application	100
☐	rib-func-artifact.war	Active	✓ OK	Web Application	100
☐	rib-rms.ear	New		Enterprise Application	100
☐	rib-sim.ear	New		Enterprise Application	100
☐	rsl-rms	New		Enterprise Application	100

Showing 1 to 7 of 7 Previous | Next

System Status

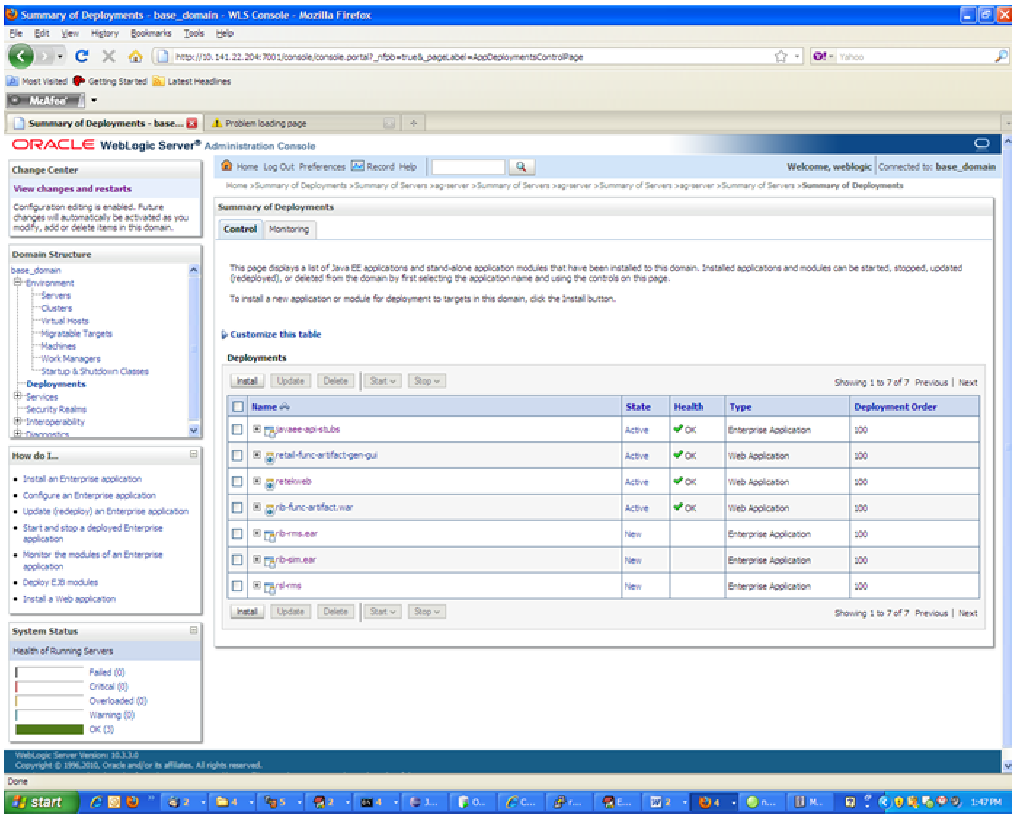
Health of Running Servers

Failed (0)
Critical (0)
Overloaded (0)
Warning (0)
OK (3)

WebLogic Server Version: 10.3.3.0
Copyright © 1996,2010, Oracle and/or its affiliates. All rights reserved.

Verifying the Artifact Generator Web Application

1. Navigate to the Deployments page.



Summary of Deployments - base_domain - WLS Console - Mozilla Firefox

ORACLE WebLogic Server® Administration Console

Welcome, weblogic | Connected to: base_domain

Home >Summary of Deployments >Summary of Servers >ag-server >Summary of Servers >ag-server >Summary of Servers >ag-server >Summary of Servers >Summary of Deployments

Change Center

View changes and restarts

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

Summary of Deployments

This page displays a list of Java EE applications and stand-alone application modules that have been installed to this domain. Installed applications and modules can be started, stopped, updated (redeployed), or deleted from the domain by first selecting the application name and using the controls on this page.

To install a new application or module for deployment to targets in this domain, click the Install button.

Deployments

Showing 1 to 7 of 7 Previous | Next

Name	State	Health	Type	Deployment Order
javaee-api-stubs	Active	✓ OK	Enterprise Application	100
retail-func-artifact-gen-gui	Active	✓ OK	Web Application	100
retekweb	Active	✓ OK	Web Application	100
rib-func-artifact.war	Active	✓ OK	Web Application	100
rib-rms.ear	New		Enterprise Application	100
rib-sim.ear	New		Enterprise Application	100
rsl-rms	New		Enterprise Application	100

Showing 1 to 7 of 7 Previous | Next

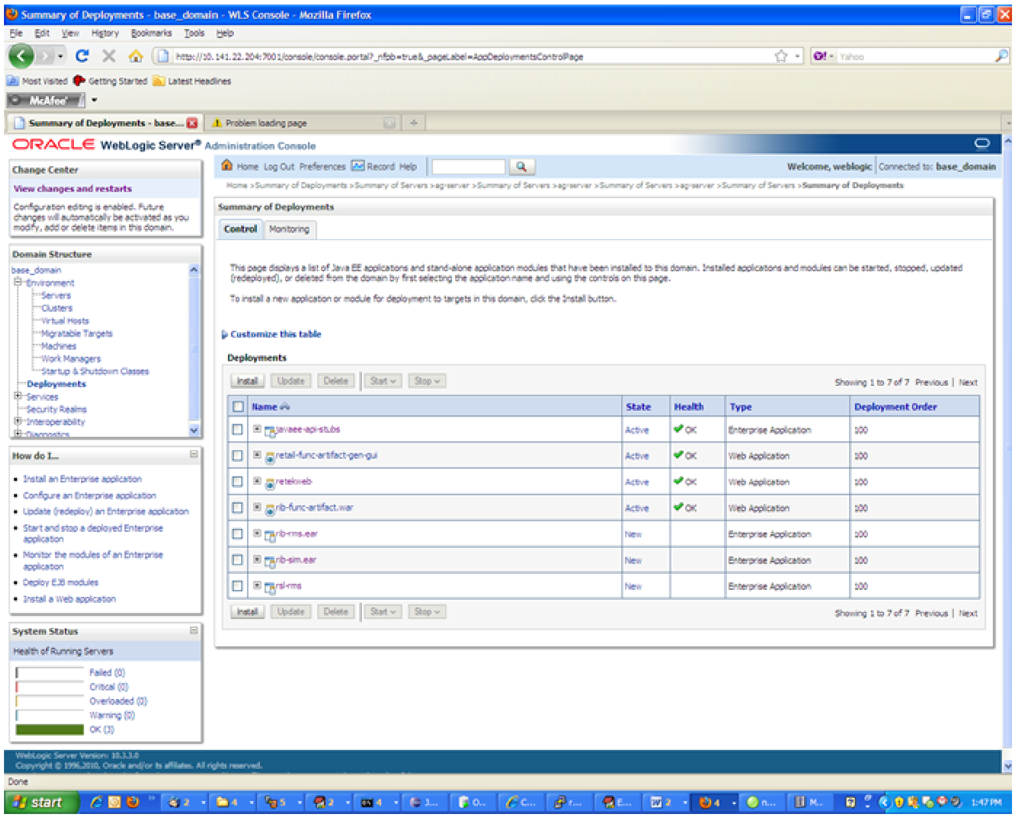
System Status

Health of Running Servers

Failed (0)
Critical (0)
Overloaded (0)
Warning (0)
OK (3)

WebLogic Server Version: 10.3.3.0
Copyright © 1996,2010, Oracle and/or its affiliates. All rights reserved.

2. Locate the **retail-func-artifact** on the Summary of Deployments page.



Summary of Deployments - base_domain - WLS Console - Mozilla Firefox

ORACLE WebLogic Server® Administration Console

Welcome, weblogic | Connected to: base_domain

Home >Summary of Deployments >Summary of Servers >ag-server >Summary of Servers >ag-server >Summary of Servers >ag-server >Summary of Servers >Summary of Deployments

Change Center

View changes and restarts

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

Summary of Deployments

This page displays a list of Java EE applications and stand-alone application modules that have been installed to this domain. Installed applications and modules can be started, stopped, updated (redeployed), or deleted from the domain by first selecting the application name and using the controls on this page.

To install a new application or module for deployment to targets in this domain, click the Install button.

Deployments

Showing 1 to 7 of 7 Previous | Next

javaee-api-stubs Active OK Enterprise Application 100
retail-func-artifact-gen-gui Active OK Web Application 100
retekweb Active OK Web Application 100
rib-func-artifact.war Active OK Web Application 100
rib-rms.ear New Enterprise Application 100
rib-sim.ear New Enterprise Application 100
rsl-rms New Enterprise Application 100

Showing 1 to 7 of 7 Previous | Next

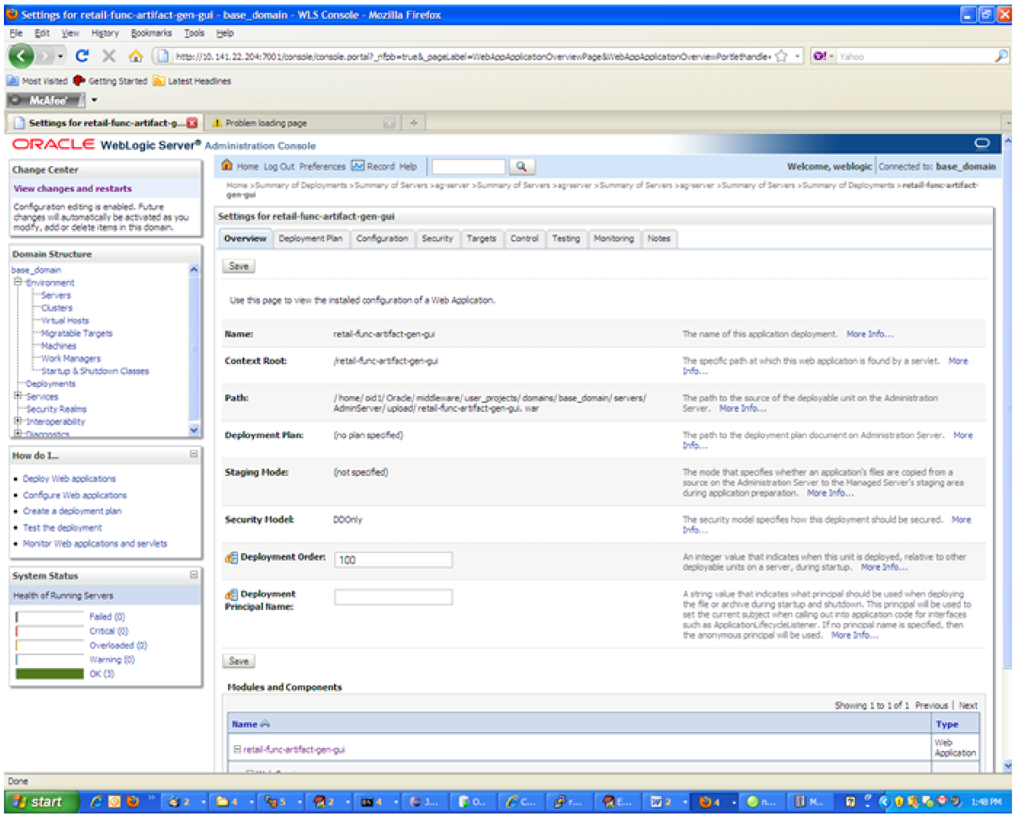
System Status

Health of Running Servers

Failed (0)
Critical (0)
Overloaded (0)
Warning (0)
OK (3)

WebLogic Server Version: 10.3.3.0
Copyright © 1996,2010, Oracle and/or its affiliates. All rights reserved.

3. Click the name, **retail-func-artifact-gen-gui**, to move to the **Settings for the rib-func-artifact-gen-gui**.


Settings for retail-func-artifact-gen-gui - base_domain - WLS Console - Mozilla Firefox
File Edit View History Bookmarks Tools Help
Most Visited Getting Started Latest Headlines
Problem loading page
ORACLE WebLogic Server® Administration Console
Change Center
View changes and restarts
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.
Domain Structure
base_domain
Environment
Servers
Clusters
Virtual Hosts
Migratable Targets
Machines
Work Managers
Startup & Shutdown Classes
Deployments
Services
Security Realms
Interoperability
Diagnostics
How do I...
Deploy Web applications
Configure Web applications
Create a deployment plan
Test the deployment
Monitor Web applications and servlets
System Status
Health of Running Servers
Failed (0)
Critical (0)
Overloaded (0)
Warning (0)
OK (3)
Home Log Out Preferences Record Help
Welcome, weblogic Connected to: base_domain
Home >Summary of Deployments >Summary of Servers >ag-server >Summary of Servers >ag-server >Summary of Servers >ag-server >Summary of Servers >Summary of Deployments >retail-func-artifact-gen-gui
Overview Deployment Plan Configuration Security Targets Control Testing Monitoring Notes
Save
Done
start

Settings for retail-func-artifact-gen-gui

Use this page to view the installed configuration of a Web Application.

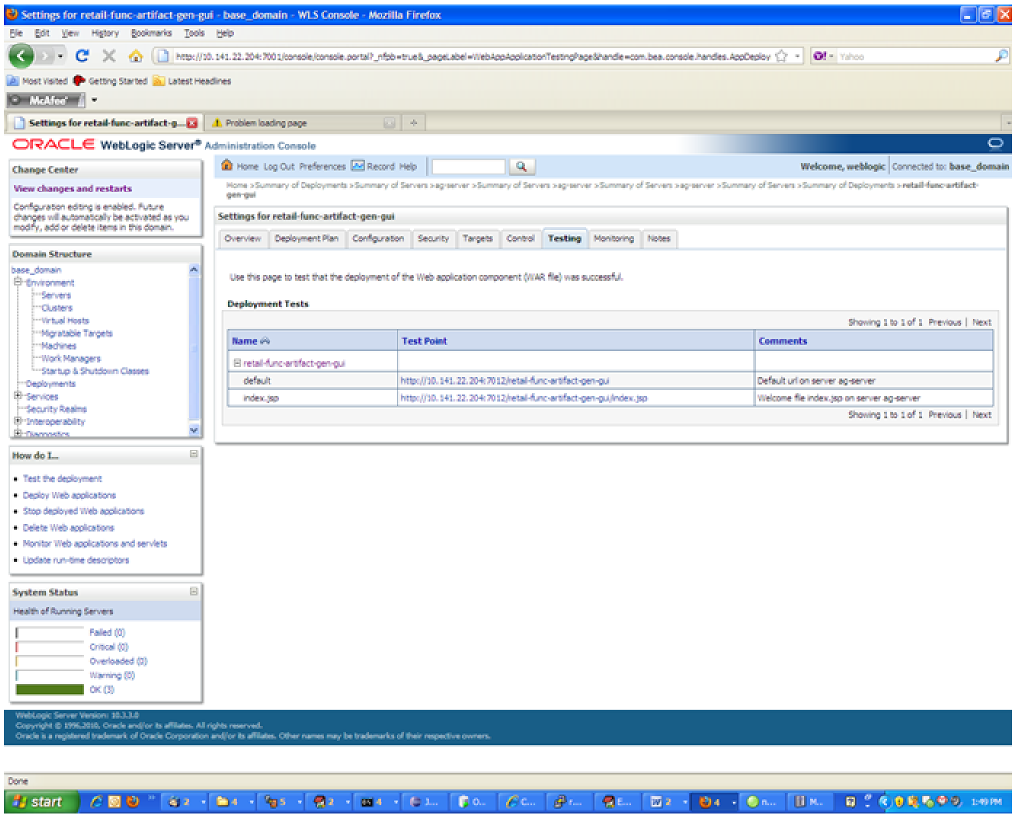
Name:	retail-func-artifact-gen-gui	The name of this application deployment. More Info...
Context Root:	/retail-func-artifact-gen-gui	The specific path at which this web application is found by a servlet. More Info...
Path:	/home/oid1/Oracle/middleware/user_projects/domains/base_domain/servers/AdminServer/upload/retail-func-artifact-gen-gui.war	The path to the source of the deployable unit on the Administration Server. More Info...
Deployment Plan:	(no plan specified)	The path to the deployment plan document on Administration Server. More Info...
Staging Mode:	(not specified)	The mode that specifies whether an application's files are copied from a source on the Administration Server to the Managed Server's staging area during application preparation. More Info...
Security Model:	DDOnly	The security model specifies how this deployment should be secured. More Info...
Deployment Order:	100	An integer value that indicates when this unit is deployed, relative to other deployable units on a server, during startup. More Info...
Deployment Principal Name:		A string value that indicates what principal should be used when deploying the file or archive during startup and shutdown. This principal will be used to set the current subject when calling out into application code for interfaces such as ApplicationLifecycleListener. If no principal name is specified, then the anonymous principal will be used. More Info...

Modules and Components

Showing 1 to 1 of 1 Previous | Next

Name	Type
retail-func-artifact-gen-gui	Web Application

4. Select the **Testing** tab.



Settings for retail-func-artifact-gen-gui - base_domain - WLS Console - Mozilla Firefox

http://10.141.22.204:7001/console/console.portal?_nfpb=true&_pageLabel=WebAppApplicationTestingPage&handle=com.bea.console.handles.AppDeploy

Change Center

View changes and restarts

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

Domain Structure

base_domain
- Environment
  - Servers
  - Clusters
  - Virtual Hosts
  - Migratable Targets
  - Machines
  - Work Managers
  - Startup & Shutdown Classes
- Deployments
- Services
- Security Realms
- Interoperability
- Diagnostics

How do I...

- Test the deployment
- Deploy Web applications
- Stop deployed Web applications
- Delete Web applications
- Monitor Web applications and servlets
- Update run-time descriptors

System Status

Health of Running Servers

Failed (0)
Critical (0)
Overloaded (0)
Warning (0)
OK (3)

Home Log Out Preferences Record Help

Welcome, weblogic | Connected to: base_domain

Home >Summary of Deployments >Summary of Servers >ag-server >Summary of Servers >ag-server >Summary of Servers >ag-server >Summary of Servers >Summary of Deployments >retail-func-artifact-gen-gui

Settings for retail-func-artifact-gen-gui

Overview | Deployment Plan | Configuration | Security | Targets | Control | Testing | Monitoring | Notes

Use this page to test that the deployment of the Web application component (WAR file) was successful.

Deployment Tests

Showing 1 to 1 of 1 Previous | Next

Name	Test Point	Comments
retail-func-artifact-gen-gui		
default	http://10.141.22.204:7012/retail-func-artifact-gen-gui	Default url on server ag-server
index.jsp	http://10.141.22.204:7012/retail-func-artifact-gen-gui/index.jsp	Welcome file index.jsp on server ag-server

Showing 1 to 1 of 1 Previous | Next

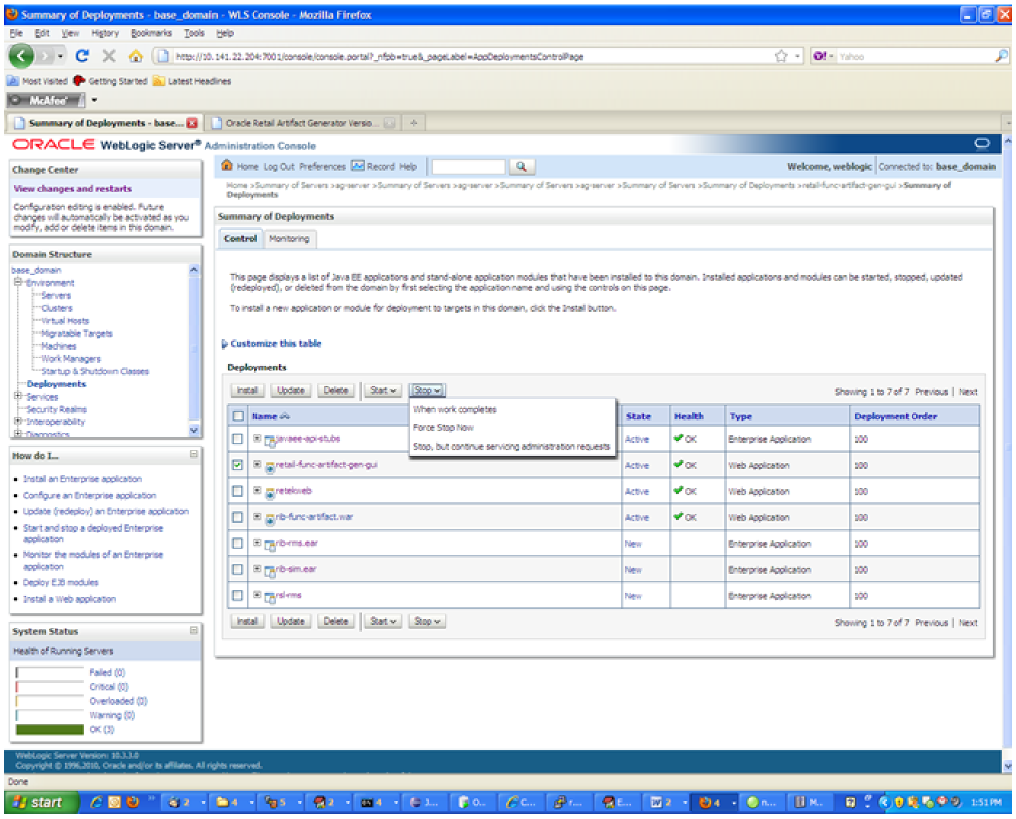
WebLogic Server Version: 10.3.3.0
Copyright © 1996,2010, Oracle and/or its affiliates. All rights reserved.
Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

5. Click **index.jsp URL** in the Test Point. The URL should open to the Retail Artifact Generator Login page. The installation is complete.

Redeploying the Application

If the retail-func-artifact-gen-gui application has already been deployed, follow these steps:

1. If the retail-func-artifact-gen-gui application is running, select **Stop** and **When Work Completes** or **Force Stop Now**, depending on the environment. The recommended option always is **When Work Completes.**


Summary of Deployments - base_domain - WLS Console - Mozilla Firefox

http://10.141.22.204:7001/console/console.portal?_nfpb=true&_pageLabel=AppDeploymentsControlPage

ORACLE WebLogic Server® Administration Console

Welcome, weblogic | Connected to: base_domain

Home >Summary of Servers >ag-server >Summary of Servers >ag-server >Summary of Servers >ag-server >Summary of Servers >Summary of Deployments >retail-func-artifact-gen-gui >Summary of Deployments

Change Center

View changes and restarts

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

Domain Structure

base_domain
- Environment
  - Servers
  - Clusters
  - Virtual Hosts
  - Migratable Targets
  - Machines
  - Work Managers
  - Startup & Shutdown Classes
- Deployments
- Services
- Security Realms
- Interoperability
- Diagnostics

How do I...

- Install an Enterprise application
- Configure an Enterprise application
- Update (redeploy) an Enterprise application
- Start and stop a deployed Enterprise application
- Monitor the modules of an Enterprise application
- Deploy EJB modules
- Install a Web application

System Status

Health of Running Servers

Failed (0)	
Critical (0)	
Overloaded (0)	
Warning (0)	
OK (3)	

Summary of Deployments

Control | Monitoring

This page displays a list of Java EE applications and stand-alone application modules that have been installed to this domain. Installed applications and modules can be started, stopped, updated (redeployed), or deleted from the domain by first selecting the application name and using the controls on this page.

To install a new application or module for deployment to targets in this domain, click the Install button.

Customize this table

Deployments

Install | Update | Delete | Start | Stop — When work completes / Force Stop Now / Stop, but continue servicing administration requests

Showing 1 to 7 of 7 Previous | Next

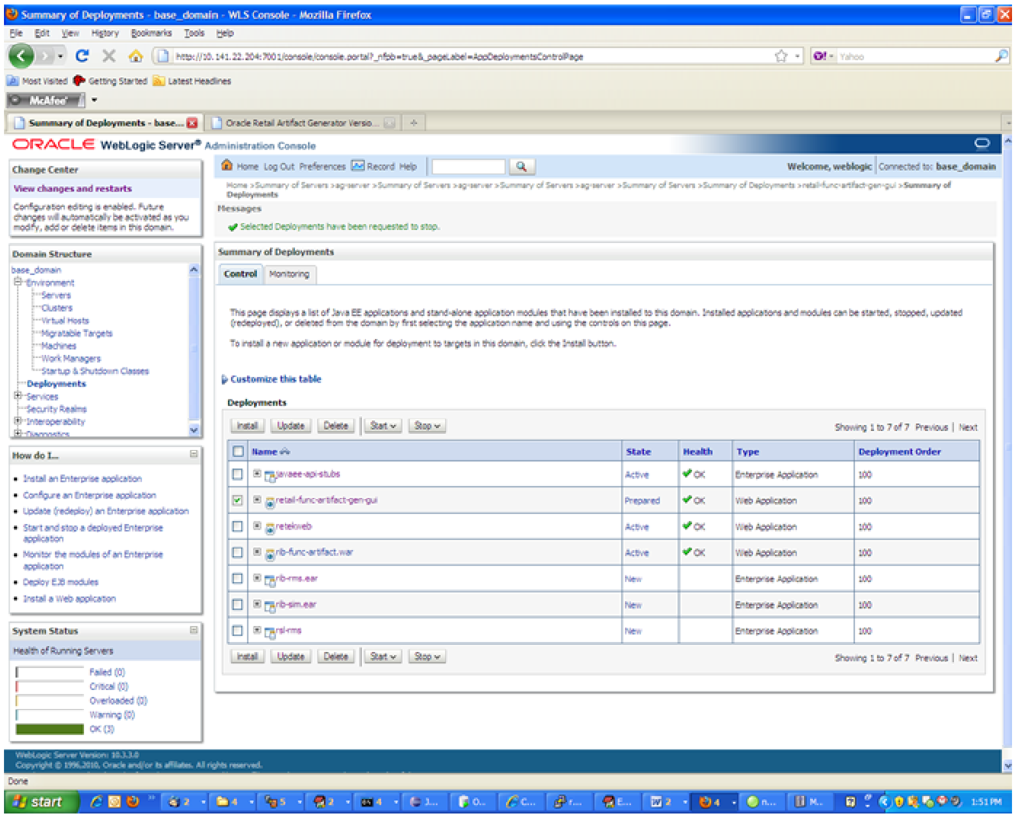
	Name	State	Health	Type	Deployment Order
☐	javaee-api-stubs	Active	✓ OK	Enterprise Application	100
☑	retail-func-artifact-gen-gui	Active	✓ OK	Web Application	100
☐	retekweb	Active	✓ OK	Web Application	100
☐	rib-func-artifact.war	Active	✓ OK	Web Application	100
☐	rib-rms.ear	New		Enterprise Application	100
☐	rib-sim.ear	New		Enterprise Application	100
☐	rsl-rms	New		Enterprise Application	100

Install | Update | Delete | Start | Stop

Showing 1 to 7 of 7 Previous | Next

WebLogic Server Version: 10.3.3.0
Copyright © 1996,2010, Oracle and/or its affiliates. All rights reserved.

2. Select **Delete**. Now, the retail-func-artifact-gen-gui should not show on the Summary of Deployment page.



Messages

✓ Selected Deployments have been requested to stop.

Summary of Deployments

This page displays a list of Java EE applications and stand-alone application modules that have been installed to this domain. Installed applications and modules can be started, stopped, updated (redeployed), or deleted from the domain by first selecting the application name and using the controls on this page.

To install a new application or module for deployment to targets in this domain, click the Install button.

Deployments

	Name	State	Health	Type	Deployment Order
☐	javaee-api-stubs	Active	✓ OK	Enterprise Application	100
☑	retail-func-artifact-gen-gui	Prepared	✓ OK	Web Application	100
☐	retekweb	Active	✓ OK	Web Application	100
☐	rib-func-artifact.war	Active	✓ OK	Web Application	100
☐	rib-rms.ear	New		Enterprise Application	100
☐	rib-sim.ear	New		Enterprise Application	100
☐	rsl-rms	New		Enterprise Application	100

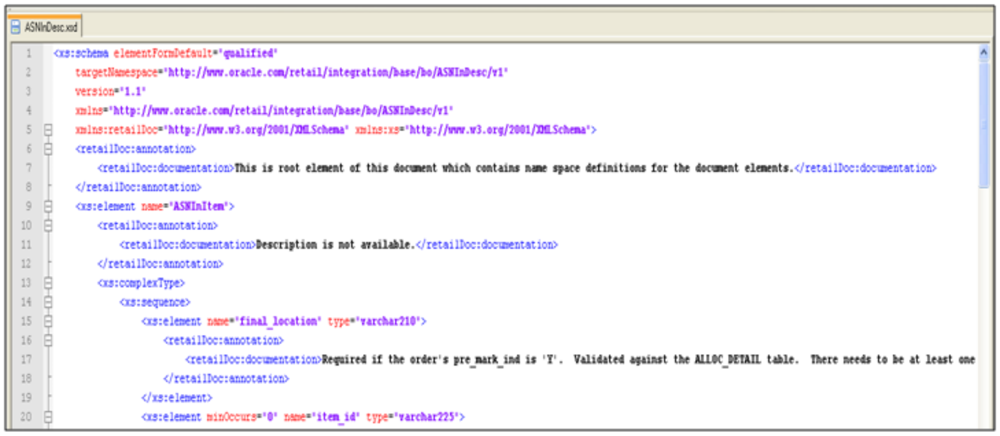
Showing 1 to 7 of 7 Previous | Next

3. Return to the appropriate step in the section, Deploying the Artifact Generator Application."

B

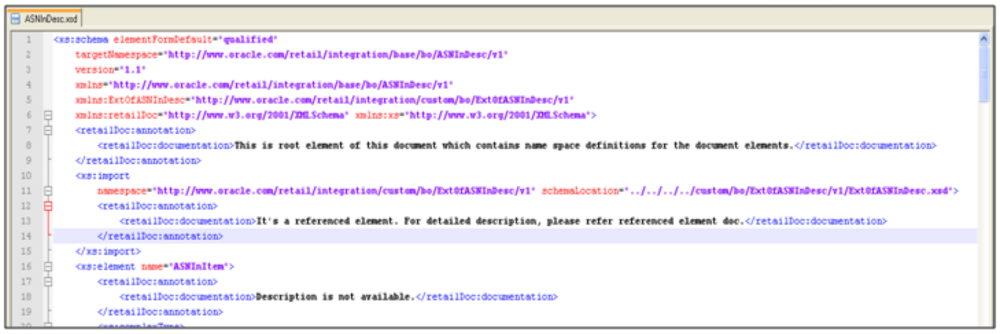
Appendix: Example of Customization and Localization for ASNInDesc

This appendix provides a sample customization and localization of ASNInDesc, which is used as input to create custom and localization templates in various examples in this document.



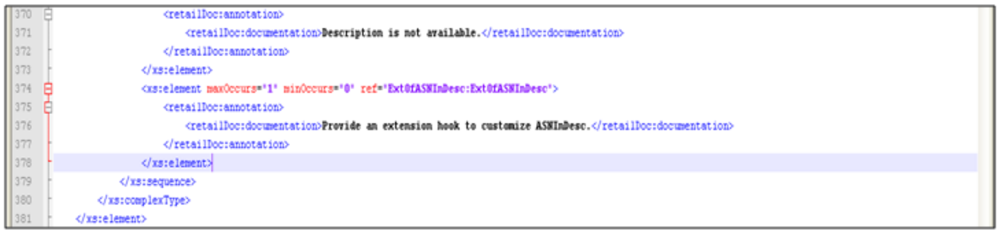
```
<xs:schema elementFormDefault="qualified"
    targetNamespace="http://www.oracle.com/retail/integration/base/bo/ASNInDesc/v1"
    version="1.1"
    xmlns="http://www.oracle.com/retail/integration/base/bo/ASNInDesc/v1"
    xmlns:retailDoc="http://www.w3.org/2001/XMLSchema" xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <retailDoc:annotation>
        <retailDoc:documentation>This is root element of this document which contains name space definitions for the document elements.</retailDoc:documentation>
    </retailDoc:annotation>
    <xs:element name="ASNInItem">
        <retailDoc:annotation>
            <retailDoc:documentation>Description is not available.</retailDoc:documentation>
        </retailDoc:annotation>
        <xs:complexType>
            <xs:sequence>
                <xs:element name="final_location" type="varchar210">
                    <retailDoc:annotation>
                        <retailDoc:documentation>Required if the order's pre_mark_ind is 'Y'.  Validated against the ALLOC_DETAIL table.  There needs to be at least one
                    </retailDoc:annotation>
                </xs:element>
                <xs:element minOccurs="0" name="item_id" type="varchar225">
```

Note that the XSD contains no extension hooks (such as import statements and reference elements). After the custom template is created, the extension hook for customization is added to ASNInDesc.xsd.



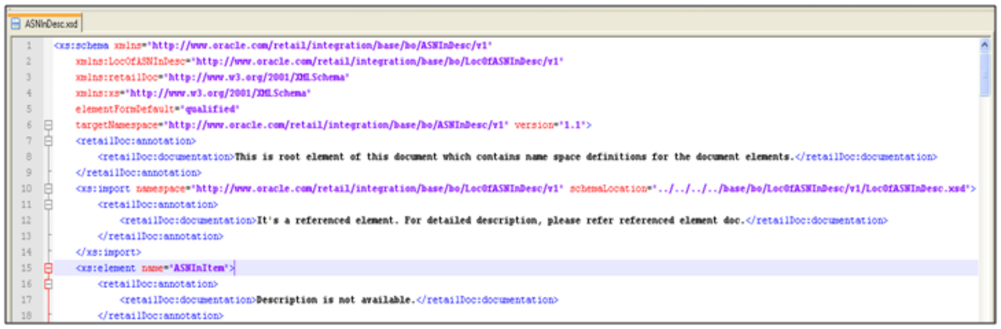
```
<xs:schema elementFormDefault="qualified"
    targetNamespace="http://www.oracle.com/retail/integration/base/bo/ASNInDesc/v1"
    version="1.1"
    xmlns="http://www.oracle.com/retail/integration/base/bo/ASNInDesc/v1"
    xmlns:ExtOfASNInDesc="http://www.oracle.com/retail/integration/custom/bo/ExtOfASNInDesc/v1"
    xmlns:retailDoc="http://www.w3.org/2001/XMLSchema" xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <retailDoc:annotation>
        <retailDoc:documentation>This is root element of this document which contains name space definitions for the document elements.</retailDoc:documentation>
    </retailDoc:annotation>
    <xs:import
        namespace="http://www.oracle.com/retail/integration/custom/bo/ExtOfASNInDesc/v1" schemaLocation="../../../../custom/bo/ExtOfASNInDesc/v1/ExtOfASNInDesc.xsd">
        <retailDoc:annotation>
            <retailDoc:documentation>It's a referenced element. For detailed description, please refer referenced element doc.</retailDoc:documentation>
        </retailDoc:annotation>
    </xs:import>
    <xs:element name="ASNInItem">
        <retailDoc:annotation>
            <retailDoc:documentation>Description is not available.</retailDoc:documentation>
        </retailDoc:annotation>
```

The reference element is added to ASNInDesc complex type, as shown in the following screen.



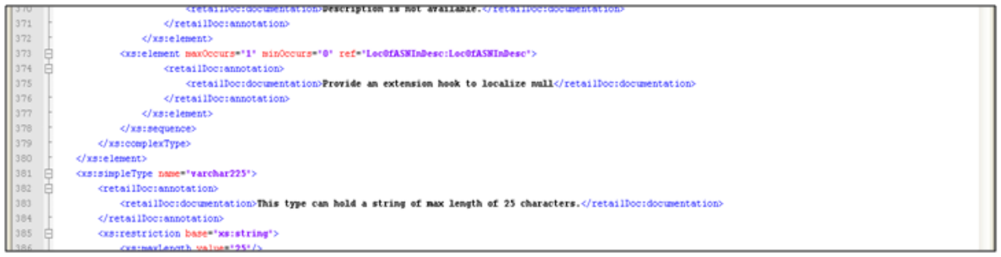
```
                <retailDoc:annotation>
                    <retailDoc:documentation>Description is not available.</retailDoc:documentation>
                </retailDoc:annotation>
            </xs:element>
            <xs:element maxOccurs="1" minOccurs="0" ref="ExtOfASNInDesc:ExtOfASNInDesc">
                <retailDoc:annotation>
                    <retailDoc:documentation>Provide an extension hook to customize ASNInDesc.</retailDoc:documentation>
                </retailDoc:annotation>
            </xs:element>
        </xs:sequence>
    </xs:complexType>
</xs:element>
```

Similarly, for localization (such as Brazil), the import statement and reference elements are added to ASNInDesc.xsd, as shown in the following screen.



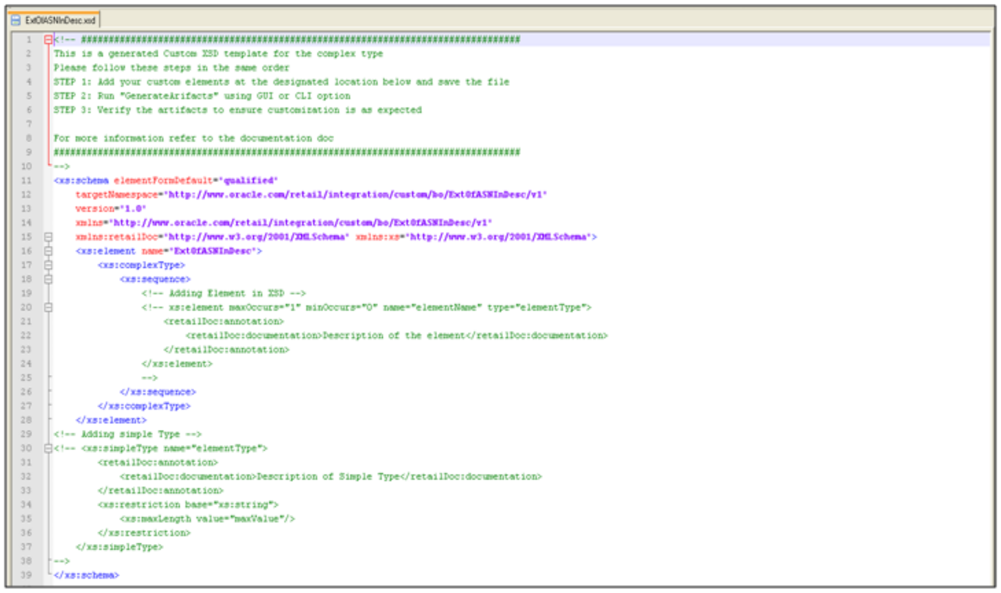
ASNInDesc.xsd

```
<xs:schema xmlns="http://www.oracle.com/retail/integration/base/bo/ASNInDesc/v1"
    xmlns:LocOfASNInDesc="http://www.oracle.com/retail/integration/base/bo/LocOfASNInDesc/v1"
    xmlns:retailDoc="http://www.w3.org/2001/XMLSchema"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    elementFormDefault="qualified"
    targetNamespace="http://www.oracle.com/retail/integration/base/bo/ASNInDesc/v1" version="1.1">
    <retailDoc:annotation>
        <retailDoc:documentation>This is root element of this document which contains name space definitions for the document elements.</retailDoc:documentation>
    </retailDoc:annotation>
    <xs:import namespace="http://www.oracle.com/retail/integration/base/bo/LocOfASNInDesc/v1" schemaLocation="../../../../base/bo/LocOfASNInDesc/v1/LocOfASNInDesc.xsd">
        <retailDoc:annotation>
            <retailDoc:documentation>It's a referenced element. For detailed description, please refer referenced element doc.</retailDoc:documentation>
        </retailDoc:annotation>
    </xs:import>
    <xs:element name="ASNInItem">
        <retailDoc:annotation>
            <retailDoc:documentation>Description is not available.</retailDoc:documentation>
        </retailDoc:annotation>
```



```
                    <retailDoc:documentation>Description is not available.</retailDoc:documentation>
                </retailDoc:annotation>
            </xs:element>
        <xs:element maxOccurs="1" minOccurs="0" ref="LocOfASNInDesc:LocOfASNInDesc">
                <retailDoc:annotation>
                    <retailDoc:documentation>Provide an extension hook to localize null</retailDoc:documentation>
                </retailDoc:annotation>
            </xs:element>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:simpleType name="varchar225">
    <retailDoc:annotation>
        <retailDoc:documentation>This type can hold a string of max length of 25 characters.</retailDoc:documentation>
    </retailDoc:annotation>
    <xs:restriction base="xs:string">
        <xs:maxLength value="25"/>
```

The custom template, ExtOfASNInDesc.xsd, is created from the tool, as shown in the following screen.

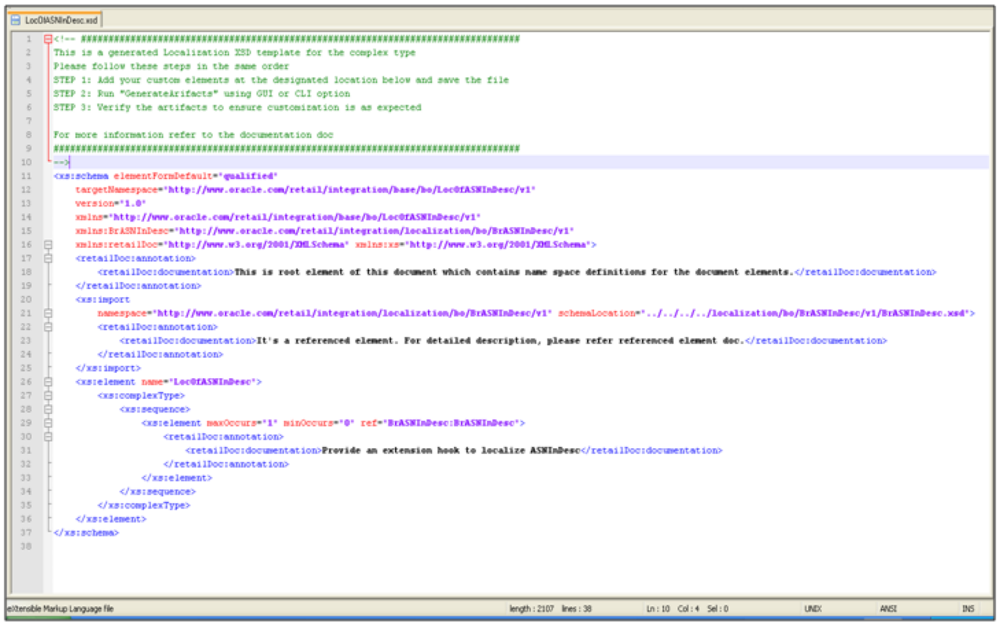


```
<!-- ################################################################################
This is a generated Custom XSD template for the complex type
Please follow these steps in the same order
STEP 1: Add your custom elements at the designated location below and save the file
STEP 2: Run "GenerateArifacts" using GUI or CLI option
STEP 3: Verify the artifacts to ensure customization is as expected

For more information refer to the documentation doc
################################################################################
-->
<xs:schema elementFormDefault="qualified"
    targetNamespace="http://www.oracle.com/retail/integration/custom/bo/ExtOfASNInDesc/v1"
    version="1.0"
    xmlns="http://www.oracle.com/retail/integration/custom/bo/ExtOfASNInDesc/v1"
    xmlns:retailDoc="http://www.w3.org/2001/XMLSchema" xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:element name="ExtOfASNInDesc">
        <xs:complexType>
            <xs:sequence>
                <!-- Adding Element in XSD -->
                <!-- xs:element maxOccurs="1" minOccurs="0" name="elementName" type="elementType">
                    <retailDoc:annotation>
                        <retailDoc:documentation>Description of the element</retailDoc:documentation>
                    </retailDoc:annotation>
                </xs:element>
                -->
            </xs:sequence>
        </xs:complexType>
    </xs:element>
<!-- Adding simple Type -->
<!-- <xs:simpleType name="elementType">
        <retailDoc:annotation>
            <retailDoc:documentation>Description of Simple Type</retailDoc:documentation>
        </retailDoc:annotation>
        <xs:restriction base="xs:string">
            <xs:maxLength value="maxValue"/>
        </xs:restriction>
    </xs:simpleType>
-->
</xs:schema>
```

The localization template created from the tool appears as follows in the illustrations of LOCOfASNInDesc.xsd, BrASNInDesc.xsd, and EOfBrASNInDesc.xsd.

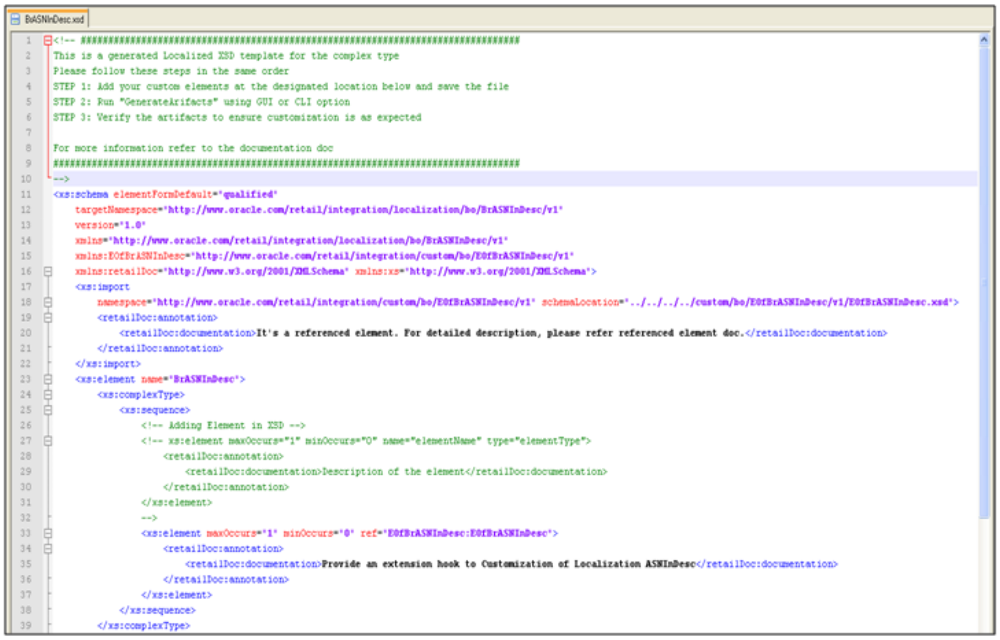
LocOfASNInDesc.xsd



```
<!-- ################################################################################
This is a generated Localization XSD template for the complex type
Please follow these steps in the same order
STEP 1: Add your custom elements at the designated location below and save the file
STEP 2: Run "GenerateArifacts" using GUI or CLI option
STEP 3: Verify the artifacts to ensure customization is as expected

For more information refer to the documentation doc
################################################################################
-->
<xs:schema elementFormDefault="qualified"
    targetNamespace="http://www.oracle.com/retail/integration/base/bo/LocOfASNInDesc/v1"
    version="1.0"
    xmlns="http://www.oracle.com/retail/integration/base/bo/LocOfASNInDesc/v1"
    xmlns:BrASNInDesc="http://www.oracle.com/retail/integration/localization/bo/BrASNInDesc/v1"
    xmlns:retailDoc="http://www.w3.org/2001/XMLSchema" xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <retailDoc:annotation>
        <retailDoc:documentation>This is root element of this document which contains name space definitions for the document elements.</retailDoc:documentation>
    </retailDoc:annotation>
    <xs:import
        namespace="http://www.oracle.com/retail/integration/localization/bo/BrASNInDesc/v1" schemaLocation="../../../../localization/bo/BrASNInDesc/v1/BrASNInDesc.xsd">
        <retailDoc:annotation>
            <retailDoc:documentation>It's a referenced element. For detailed description, please refer referenced element doc.</retailDoc:documentation>
        </retailDoc:annotation>
    </xs:import>
    <xs:element name="LocOfASNInDesc">
        <xs:complexType>
            <xs:sequence>
                <xs:element maxOccurs="1" minOccurs="0" ref="BrASNInDesc:BrASNInDesc">
                    <retailDoc:annotation>
                        <retailDoc:documentation>Provide an extension hook to localize ASNInDesc</retailDoc:documentation>
                    </retailDoc:annotation>
                </xs:element>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
</xs:schema>
```

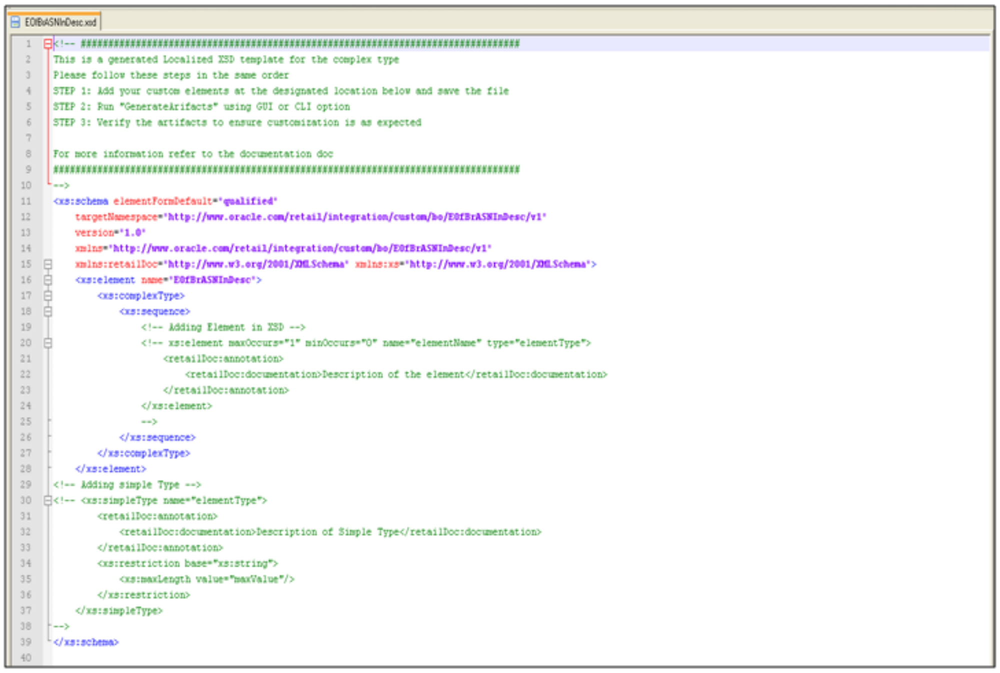
BrASNInDesc.xsd


BrASNInDesc.xsd

```
<!-- ################################################################################
This is a generated Localized XSD template for the complex type
Please follow these steps in the same order
STEP 1: Add your custom elements at the designated location below and save the file
STEP 2: Run "GenerateArifacts" using GUI or CLI option
STEP 3: Verify the artifacts to ensure customization is as expected

For more information refer to the documentation doc
################################################################################
-->
<xs:schema elementFormDefault="qualified"
    targetNamespace="http://www.oracle.com/retail/integration/localization/bo/BrASNInDesc/v1"
    version="1.0"
    xmlns="http://www.oracle.com/retail/integration/localization/bo/BrASNInDesc/v1"
    xmlns:EOfBrASNInDesc="http://www.oracle.com/retail/integration/custom/bo/EOfBrASNInDesc/v1"
    xmlns:retailDoc="http://www.w3.org/2001/XMLSchema" xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import
        namespace="http://www.oracle.com/retail/integration/custom/bo/EOfBrASNInDesc/v1" schemaLocation="../../../../custom/bo/EOfBrASNInDesc/v1/EOfBrASNInDesc.xsd">
        <retailDoc:annotation>
            <retailDoc:documentation>It's a referenced element. For detailed description, please refer referenced element doc.</retailDoc:documentation>
        </retailDoc:annotation>
    </xs:import>
    <xs:element name="BrASNInDesc">
        <xs:complexType>
            <xs:sequence>
                <!-- Adding Element in XSD -->
                <!-- xs:element maxOccurs="1" minOccurs="0" name="elementName" type="elementType">
                    <retailDoc:annotation>
                        <retailDoc:documentation>Description of the element</retailDoc:documentation>
                    </retailDoc:annotation>
                </xs:element>
                -->
                <xs:element maxOccurs="1" minOccurs="0" ref="EOfBrASNInDesc:EOfBrASNInDesc">
                    <retailDoc:annotation>
                        <retailDoc:documentation>Provide an extension hook to Customization of Localization ASNInDesc</retailDoc:documentation>
                    </retailDoc:annotation>
                </xs:element>
            </xs:sequence>
        </xs:complexType>
```

EOfBrASNInDesc.xsd


EOfBrASNInDesc.xsd

```
<!-- ################################################################################
This is a generated Localized XSD template for the complex type
Please follow these steps in the same order
STEP 1: Add your custom elements at the designated location below and save the file
STEP 2: Run "GenerateArifacts" using GUI or CLI option
STEP 3: Verify the artifacts to ensure customization is as expected

For more information refer to the documentation doc
################################################################################
-->
<xs:schema elementFormDefault="qualified"
    targetNamespace="http://www.oracle.com/retail/integration/custom/bo/EOfBrASNInDesc/v1"
    version="1.0"
    xmlns="http://www.oracle.com/retail/integration/custom/bo/EOfBrASNInDesc/v1"
    xmlns:retailDoc="http://www.w3.org/2001/XMLSchema" xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:element name="EOfBrASNInDesc">
        <xs:complexType>
            <xs:sequence>
                <!-- Adding Element in XSD -->
                <!-- xs:element maxOccurs="1" minOccurs="0" name="elementName" type="elementType">
                    <retailDoc:annotation>
                        <retailDoc:documentation>Description of the element</retailDoc:documentation>
                    </retailDoc:annotation>
                </xs:element>
                -->
            </xs:sequence>
        </xs:complexType>
    </xs:element>
<!-- Adding simple Type -->
<!-- <xs:simpleType name="elementType">
        <retailDoc:annotation>
            <retailDoc:documentation>Description of Simple Type</retailDoc:documentation>
        </retailDoc:annotation>
        <xs:restriction base="xs:string">
            <xs:maxLength value="maxValue"/>
        </xs:restriction>
    </xs:simpleType>
-->
</xs:schema>

```

C Appendix: References

The following is a list of reference materials providing more information on the topics covered in this guide.

- [XML] Extensible Markup Language (XML) 1.0 (Second Edition), `http://www.w3.org/TR/REC-xml`
- [XMLSchema1] W3C Recommendation, XML Schema Part 1: Structures, `http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/`
- [XMLSchema2] W3C Recommendation, XML Schema Part 2: Datatypes,

  `http://www.w3.org/TR/2001/REC-xmlschema-2-20010502/`