Oracle® Retail

Functional Artifact Generator Guide Release 14.0.1 **E53683-01**

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Oracle Retail Functional Artifact Generator Guide, Release 14.0.1

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Oracle Retail Functional Artifact Generator Guide, Release 14.0.1

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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.

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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.

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http://www.oracle.com/technetwork/documentation/oracle-retail-100266.ht
ml

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http://www.oracle.com/technetwork/documentation/oracle-retail-100266.ht
ml

(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 associa 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.	

-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	

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.

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
|----- 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
```

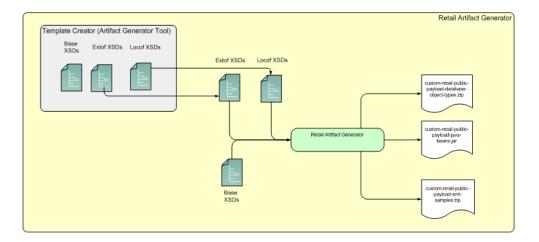
```
|----- dist - localization-retail-public-payload-xml-samples.zip
```

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.



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	Туре	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	Туре	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
-1	-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/xer cesImpl.jar com/oracle/retail/integration/artifact/generator/Te mplateCreator.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/xer cesImpl.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/xer cesImpl.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/xer cesImpl.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/xer cesImpl.jar com/oracle/retail/integration/artifact/generator/ TemplateCreator.groovy -c createCustomTemplate -n	ExtOfCustomerOrder.xsd is created.
CustomerOrder	
groovy -cp	LocOfCustomerOrder.xsd.
integration-lib/third-party/apache/xerces2/xalan-2.7 .1.jar:integration-lib/third-party/apache/xerces2/xer	 BrCustomerOrder.xsd.
cesImpl.jar com/oracle/retail/integration/artifact/generator/	 EOfBrCustomerOrder.xsd is created.
TemplateCreator.groovy -c createLocalizationTemplate -n CustomerOrder -l Br	

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.



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.

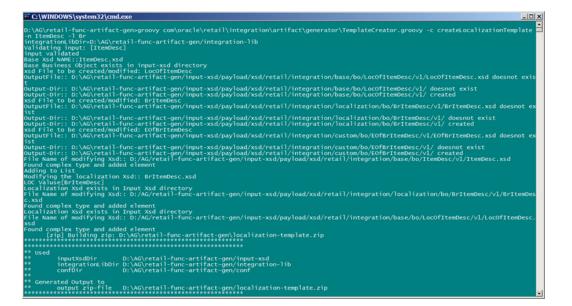
LocOfItemDesc.xsd in \$input-xsd/payload/xsd/retail/integration/base/bo/LocOfItemDesc/v1/

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/



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"</pre>
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.

 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"</pre>
```

```
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:E0fBrCurrRateDesc="http://www.oracle.com/retail/integration/custom/bo/E0f
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
/171 "
schemaLocation="../../../custom/bo/E0fBrCurrRateDesc/v1/E0fBrCurrRateDesc.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"</pre>
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

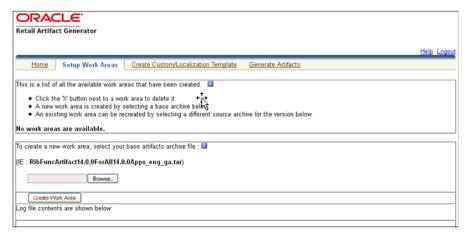
To create a work area, take the following steps:

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 wilfact 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 <u>Create Custom/Localization Template</u> Tab.	
To create functional artifacts, select the <u>Generate Artifacts</u> Tab.	
Home Setup Work Areas Create Custom/Localization Template Generate Artifacts	
Retail Artifact Generator Version:14.0.0.	
Copyright © 2019, Oracle. All rights reserved.	

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



- **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.

ORACLE					
Retail Artifact Genera	tor				
					Help Logou
Home Setup W	ork Areas	Create Custom/Localization Template	Generate Artifacts		
Choose artifact generator	version from	: 🖬			
Please create a new v	ersion work	area before generating artifacts.			
Choose artifact generatio	n option:	+t <u>z</u>			
 Custom 		13			
Cocalization					
Choose generated artifac	ts:12				
IIA 💿					
Oracle Objects					
O JAXB Beans					
Select your custom sche					
(IE : a .jar, .tar, or .zip file	containing (custom schemas in the correct retail/inte	egration/custom/bo/ pa	ckage structure)	
	Browse				
Select your localization s	chema archi	ve file: 🚳			
		ocalization schemas in the correct retail	/integration/localizatio	n/bo/ package structure)	
	Browse				
Generate Artifacts					
Log file contents are sho	wn 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.

ORACLE	
Retail Artifact Generator	
	Help Logout
Home Setup Work Areas Create Custom/Localization Template Generate Artifacts	
Choose Rib version for Customization and Localization : 2	
Rib-14.0.0	Activity Log
C RIP14.0.0	No Activity Recorded
Choose Template Creation option:	
© Custom	
Contraction 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 (E.g. FooDesc or Object : XYZDesc/XYZDth	
Save Changes on the Server	
Create Template	
Log file contents are shown below:	

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.

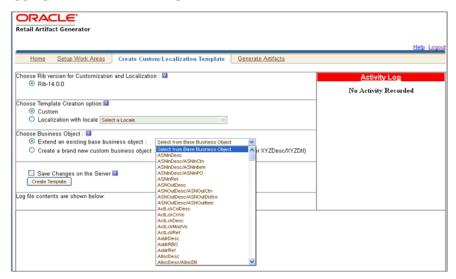
Retail Artifact Generator	
Home Setup Work Areas Create Custom/Localization Template Generate Artifacts	Help Logout
Choose Rib version for Customization and Localization : 2	Activity Log
Choose Template Creation option	File ExtOfCustomerOrderDesc updated on Fri May 24 02:48:53 EDT 2013
Custom Localization with locale Select a Locale	
Choose Business Object : O Extend an existing base business object : Select from Base Business Object O Create a brand new custom business object CustomerCrderDesc (E.g. FooDesc or XYZDesc/XYZDtl)	
Save Changes on the Server	
Log file contents are shown below:	
/hmp/25VnRHCWgQ3FMF2Xx5qc4Mpq20GvCTsLxnj22xe7/J7sbsGtTXX243041945i1369375382900/Rib-14.0.0/retail-f ** zip-file :: /r00/webadmin/product/10.3.X_RIB/WLS/user_projects/domains/RIBDomain /hmp/25VnRHCWgQ3FMF2Xx5qc4Mpq20GvCTsLxnj22xe7/J7sbsGtTXX243041945i1369375382900/Rib-14.0.0/retail-f **	
** :: ExtOfCustomerOrderDesc	
Creaton complete Downloading 16 /00/webadmin/product/10 3.X_RIB/WLS/user_projects/domains/RIBDomain /mp/25VnRfCWgQ3FMP2x6qc4Mpq2j0GvCTsLxnj22xd9.J7sbsGrTD024304194511369375382900/Rib-14.0.0/retail-f	unc-artifact-ger/custom-template.zip
Content type is : Content-type: application/zip Sending file to client as 'custom-template.zip' Finished sending file custom-template.zip. 2009 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.

etail Artifact Generator	25 Create Custom/Localizatio	n Template Generate Artifacts	Help Lo
hoose Rib version for Customiz Rib-14.0.0	ation and Localization : 🛛		Activity Log No Activity Recorded
hoose Template Creation option © Custom © Localization with locale hoose Business Object : Localize an existing bas © create a brand new loca object : Save Changes on the Si <u>Create Template</u> og file contents are shown belo	Select a Locale Select a Locale Andorn - Ad Uted Anab Eminates - Ae Afghanistian - Af Angula - Al Adamas - Al Adamas - Al Adamas - An Angula - Ao Artarctica - Ag Anzartina - Ar	ooDesc or	

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.



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	
Home Setup From Aleas Create Custom/Localization Temptate	
Choose Rib version for Customization and Localization :	Activity Log
	Activity Edg
	No Activity Recorded
Choose Template Creation option:	
© Custom	
C Localization with locale Select a Locale	
Choose Business Object : 🕼	
Extend an existing base business object : Select from Base Business Object	
Oreate 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:	

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.

Retail Artifact Generator	
	Help Logout
Home Setup Work Areas Create Custom/Localization Template Generate Artifacts	
Choose Rib version for Customization and Localization :	Activity Log
	No Activity Recorded
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:	

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.

ORACLE'		
Retail Artifact Generator		
		Help Lopo
		tere Logo
Home Setup Work Areas Create Custo	m/Localization Template Generate Artifacts	
Choose Rib version for Customization and Localizatio	n : 🕅	Activity Log
Rib-14.0.0		Activity Log
		File ExtOfCustomerOrderDesc updated on
Choose Template Creation option:		Fri May 24 02:48:53 EDT 2013
 Custom 		
Cocalization with locale Select a Locale	~	
Choose Business Object :		
 Extend an existing base business object : 	Select from Base Dusiness Object	
 Create a brand new custom business object 	Select from Base Dusiness Object	
	ASNnDesc ASNnCh	
	ASNnDesc/ASNntem	
Save Changes on the Server	ASNnDesc/ASNnPO ASNnRet	
Create Template	ASNOutDesc + K+	
Log file contents are shown below:	ASNOutDesc/ASNOutCtn ASNOutDesc/ASNOutDistro	-
-	ASN0utDesc/ASN0utten	
	ActLokCoDesc ActLokCrWo	
	ActLckDesc ActLckModVb	
	ActLckRef	
	Add/Desc Add/8890	
	AddrRef	
	AlocDesc AlocDesc/AlocDt	
	Careful Carefu	

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.

Retail Artifact Generator	
Home Setup Work Areas Create Custom Localization Template Senerate Attifacts	Help Lo
Choose Rib version for Customization and Localization : 😰	Activity Log
	File ExtOfCustomerOrderDesc updated or
Choose Template Creation option:	- Fri May 24 02:48:53 EDT 2013
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 🛿	
Creste Template	
Log file contents are shown below:	-

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.

ORACLE	
Retail Artifact Generator	
	Help Logo
Home Setup Work Areas Create Custom/Localization Template Generate Artifacts	
Choose Rib version for Customization and Localization : 2	
Rib-14.0.0	Activity Log
0 Rdb-14.0.0	File ExtOfCustomerOrderDesc updated on
Choose Template Creation option:	Fri May 24 02:48:53 EDT 2013
O Custom	
Localization with locale Brazil - Br	
Choose Business Object : 🕼	-
O Localize an existing base business object : ASMnDesc	
Create a brand new localize business object : (E.g. FooDesc or XYZDesc/XYZDtl)	
	1
Save Changes on the Server 🕼	
Create Template	
Log file contents are shown below.	1

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	
Home Setup Work Areas Create Custom/Localization Template Generate Artifacts	Help Logout
Home Setup Work Areas Create Custom/Localization Template Generate Artifacts	
Choose Rib version for Customization and Localization : 📓	Activity Log
Rib-14.0.0	File ExtOfCustomerOrderDesc updated on Fri May 24 02:48:53 EDT 2013
Choose Template Creation option:	Fn May 24 02.46.35 ED1 2015
Custom C	
Choose Business Object : 🖬	1
Localize an existing base business object: Select from Base Business Object Screate a brand new localize business object: CustomerOrderOesc (E.g. FooDesc or XYZDesc/XYZDt)	
Save Changes on the Server	
Log file contents are shown below:	

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.

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						Help Logou
Home	Setup Work Areas	Create Custom/Loca	ization Template	Generate Artifacts		
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	om schema archive r .zip file containing	file: 🙆 custom schemas in th	e correct retail/inte	ration/custom/bo/ pa	ackage structure)	
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	lization schema arc					
(IE : a .jar, .tar, c	r.zip file containing	localization schemas i	h the correct retail/i	ntegration/localizatio	on/bo/ package structure)
	Browse	l -				
Generate Ar	lifacts					
Log file contents	are shown below:					

Click on Generate Artifacts button to generate functional artifacts.

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Choose artifact generation option:		
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All	which is a: Executable Jar File	
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Select your localization schema archive file: 📓	You have chosen to open	
Select your localization schema archive file: 🖬 (IE : a .jar, .tar, or .zip file containing localization schemas in the correct retail/integration/I	C custom-retail-public-payload-database-object-types.zip	
	which is a: zip Archive from: http://10.141.12.178:19207	
Browse	What should Firefox do with this file?	
Generate Artifacts	Ogpen with 7-Zip File Manager (default)	
Log file contents are shown below:	 Save File 	
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Generation complete		
Downloading file /u00/webadmin/product/10.3.X. RIB/WLS/user_projects/domains/RIBDoma	OK Cancel	
/tmp/GQYYRfcNDIMk8cGjFWKfBGnTpJPg2p93wgqD22Lm4jJyrqC2vnMGI243041945I1369		
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		_

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.

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.

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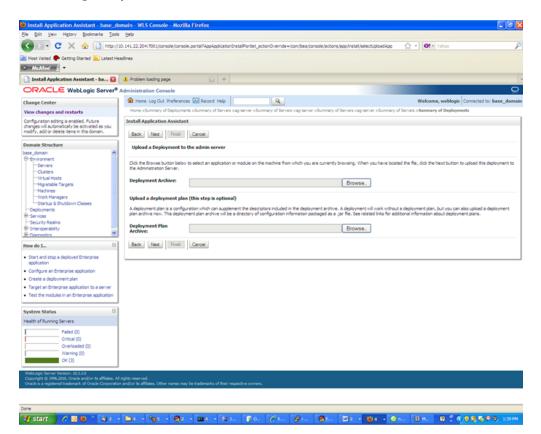
2. Click Install.

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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).



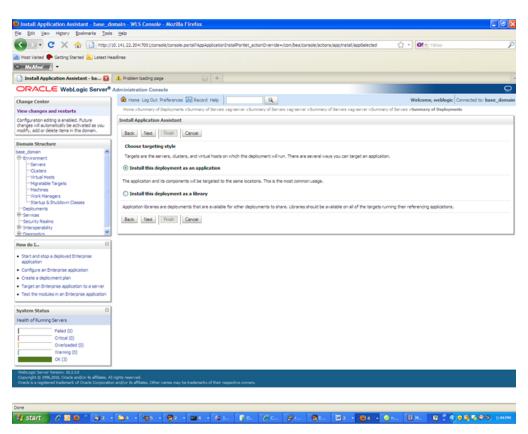
4. On the **Upload a Deployment to the admin server** page, use the Browse button to locate the retail-func-artifact-gen-gui.war file in the Deployment Archive.

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

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6. Click Next and move to Choose targeting style.



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

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

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-)	O Custom Roles: Use roles that are defined in the Administration Console; use policies that are defined in the deployment descriptor.
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10. Select **Next** and move to **Review your choices and click Finish**.

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

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Verifying the Artifact Generator Web Application

1. Navigate to the Deployments page.

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

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

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4. Select the **Testing** tab.

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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**.

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

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

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.

🔒 ASN	k0ec.od
1	cssschma elementFormDefault*'qualified'
2	targetNamespace"http://www.oracle.com/retail/integration/base/bo/ASNInDesc/v1'
3	version*1.1*
4	<pre>xmlns='http://www.oracle.com/retail/integration/base/bo/ASBInDesc/v1'</pre>
5	mins:retailloc="http://www.w3.org/2001/DE.Schema" xmlns:xs="http://www.w3.org/2001/DE.Schema">
6	cretaillocramotation>
7	<retailloordoorumentation>This is root element of this document which contains name space definitions for the document elements.</retailloordoorumentation>
8	<pre>/retailloc:annotation></pre>
9	e «sselement name"ASWIniten'>
10	cretaillocramotation>
11	<retailloc:documentation>Description is not arailable.</retailloc:documentation>
12	<pre>- </pre>
13	e <s:complextype></s:complextype>
14	e costesedentes
15	<pre>cxstelement nume*'final_location' type*'varchar210'></pre>
16	Contract of the second
17	<retaildoc:documentation>Reguired if the order's pre_mark_ind is 'I'. Validated against the ALLOC_DETAIL table. There needs to be at least one</retaildoc:documentation>
18	<pre>- </pre>
19	-
20	Kxstelement minOcours='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.

ASNInDesc	bac
1 😋	s:schema elementFormDefault='qualified'
2	targetNamespace" http://www.oracle.com/retail/integration/base/bo/ASMInDesc/v1"
3	version*1.1*
4	xmlns='http://www.oracle.com/retail/integration/base/bo/ASWInDesc/v1'
S	xmlns:ExtOfLSNInDesc="http://www.oracle.com/retail/integration/custom/bo/ExtOfASNInDesc/v1"
6 🕀	xmlns:retailDoc*'http://www.w3.org/2001/XMLSchema' xmlns:xs*'http://www.w3.org/2001/XMLSchema'>
7 🗄	<retaildoc:annotation></retaildoc:annotation>
8	<retailboc:documentation>This is root element of this document which contains name space definitions for the document elements.</retailboc:documentation>
9 -	
10	<pre>cks:import</pre>
11 🛱	namespace"http://www.oracle.com/retail/integration/custom/ho/ExtOfASWInDesc/v1" schemalocation="///custom/ho/ExtOfASWInDesc/v1/ExtOfASWInDesc.wsd">
12 🖨	<retailboc:annotation></retailboc:annotation>
13	<retaildoc:documentation>It's a referenced element. For detailed description, please refer referenced element doc.</retaildoc:documentation>
14	
15 -	
16 🛱	<pre><xs:element name="ASNInIten"></xs:element></pre>
17 🛱	<retailboc:annotation></retailboc:annotation>
18	<retailcoc:documentation>Description is not available.</retailcoc:documentation>
19 -	
20 00	(version las Tina)

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

_	_	
370	Ę.	<retaildoctannotation></retaildoctannotation>
371		<retaildoc:documentation>Description is not available.</retaildoc:documentation>
372	-	
373		
374	₿	<pre><xs:element maxocours="1" minocours="0" ref="ExtOfASMInDesc:ExtOfASMInDesc"></xs:element></pre>
375	¢	<retaildocrannotation></retaildocrannotation>
376		<retaildoc:documentation>Provide an extension hook to customize ASMInDeso.</retaildoc:documentation>
377		
378		
379		
380	-	
381	-	/xstelement>

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



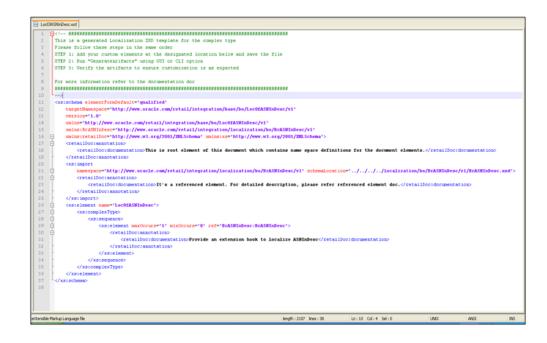


The custom template, ExtOfASNInDesc.xsd, is created from the tool, as shown in the following screen.



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

LocOfASNInDesc.xsd



BrASNInDesc.xsd

🖯 BuA	SNInD	ec.od	
1	B<	***********************************	^
2	Т	his is a generated Localized XSD template for the complex type	
3	P	lease follow these steps in the same order	
4	5	TEP 1: Add your custom elements at the designated location below and save the file	
5	5	TEP 2: Run "GenerateArifacts" using GUI or CLI option	
6	5	TEP 3: Verify the artifacts to ensure customization is as expected	
7			
8		or more information refer to the documentation doc	
9		***************************************	
10		->	
11	<	xs:schema elementFormDefault='qualified'	
12		targetNamespace*'http://www.oracle.com/retail/integration/localization/bo/BrASWInDesc/v1'	
13		version*'1.0'	
14		xmlns*'http://www.oracle.com/retail/integration/localization/bo/BrkSWInBesc/v1'	
15	-	xmlns:E0fbrASNInDesc="http://www.oracle.com/retail/integration/custom/bo/EDfBrASNInDesc/v1"	
16	P	xmlns:retailloc="http://www.w3.org/2001/DB.Schema" xmlns:xs="http://www.w3.org/2001/DB.Schema">	
17		<pre>Cusimport Immespace*http://www.oracle.com/retail/integration/custom/be/D0ExtANIndesc/v1* solumnLocation*///custom/be/D0ExtANIndesc/v1/D0ExtANIndesc.xed*></pre>	
18 19	B	<pre>bmsspice"intp://ww.oracle.com/retail/integration/custom/so/EUIEEASEIndesc/v1" schemeLocation"///.u/custom/so/EUIEEASEIndesc/v1/EUIEEASEIndesc.xu*> </pre>	
20	P	<pre>cretaillocidanmotation> cretaillocidacumentation>It's a referenced element. For detailed description, please refer referenced element doc.</pre> //retaillocidocumentation>	
21		<pre></pre> <pre></pre> <pre>//retailbocimous/ourit s a feletement coment. For wetailen westigtion, grease felet feletement coments for the station of the st</pre>	
22		VIEWALIOUTIANUUUUU	
23	ġ.	<pre>cxt:element_name*BrASMInDesc'></pre>	
24	H	<pre>cm:complexType></pre>	
25	H	(xs) Bequence>	
2.6	T	Adding Element in X3D	
27	÷.	xs:element maxOccurs="1" minOccurs="0" name="elementName" type="elementType"	
28	Π.	<retaildoc:annotation></retaildoc:annotation>	
29		<retailboc:documentation>Rescription of the element</retailboc:documentation>	
30			
31			
32		>	-
33	¢	<pre><xs:element maxoccurs*'1'="" minoccurs*'0'="" ref*'e0fbrasmindesc:e0fbrasmindesc'=""></xs:element></pre>	
34	¢	<retaildociannotation></retaildociannotation>	
35		<retailloc:documentation>Provide an extension hook to Customization of Localization ASNInDesc</retailloc:documentation>	
3.6			
37			
38			
39	1		

EOfBrASNInDesc.xsd

r		
😑 EOIBi	E0B4SNhDecxod	
2	This is a generated Localized XSD template for the complex type	
3	Please follow these steps in the same order	
4	STEP 1: Add your custom elements at the designated location below and save the file	
5	STEP 2: Run "Generatekrifacts" using GUI or CLI option	
6	STEP 3: Verify the artifacts to ensure customization is as expected	
7		
8	For more information refer to the documentation doc	
9		
10	L _{ab}	
11	<pre><xs:schema <="" elementformdefault="gualified" pre=""></xs:schema></pre>	
12	targetNamespace="http://www.oracle.com/retail/integration/custom/bo/E0fBrASNInDesc/v1"	
13	version="1.0"	
14	xmlns*'http://www.oracle.com/retail/integration/custom/bo/E0fBrASWInDesc/v1'	
15	xulns:retail0cc='http://www.w3.org/2001/DELSchema' xulns:xs='http://www.w3.org/2001/DELSchema'>	
	<pre>cxs:clement name*'E0fBrASNInDesc'></pre>	
	😑 <xs:complextype></xs:complextype>	
18	A xx:sequence>	
19	Adding Element in XSD	
	< xs:element maxOccurs="1" minOccurs="0" name="elementName" type="elementType"	
21	<retaildoc:annotation></retaildoc:annotation>	
22	<retaildoc:documentation>Description of the element</retaildoc:documentation>	
23		
24		
2.5		
2.6	<pre>- </pre>	
27		
28	<pre></pre>	
29	Adding simple Type	
	+< <xs:simpletype name**elementtype*=""></xs:simpletype>	
31	<retaildoc:annotation></retaildoc:annotation>	
32	<retailboordoorumentation>Description of Simple Type</retailboordoorumentation>	
33		
3.4	<pre><xs:restriction base**xs:string*=""></xs:restriction></pre>	
35	<pre><xs:mailength value="mailwailue"></xs:mailength></pre>	
36		
37		
38	- may	
39	^L «/xsischema»	
40		

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/