Oracle® Retail

Functional Artifact Generator Guide Release 14.1 **E57324-01**

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Oracle Retail Functional Artifact Generator Guide, Release 14.1

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Oracle Retail Functional Artifact Generator Guide, Release 14.1

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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 Implementation Guide
- Oracle Retail Integration Bus Installation Guide
- Oracle Retail Integration Bus Operations Guide
- Oracle Retail Integration Bus Release Notes
- Oracle Retail Integration Bus Hospital Administration Guide
- Oracle Retail Integration Bus Security Guide
- Oracle Retail Integration Bus Support Tools Guide
- Oracle Retail Enterprise Integration Guide
- Oracle Retail Integration Bus Integration Gateway Services Guide

- Oracle Retail Functional Artifact Guide
- Oracle Retail Service-Oriented Architecture Enabler Tool Guide
- Oracle Retail Integration Bus Java Messaging Service (JMS) Console Guide
- Oracle Retail Integration Bus Data Model
- Oracle Retail Payload Mapper Guide

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- 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

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When you install the application for the first time, you install either a base release (for example, 14.1) or a later patch release (for example, 14.1.1). 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 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.

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 (11.1.1.7). 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 (11.1.1.7)	
	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/RIB14.1/ArtifactGenerator14.1.0ForAll14.x.xApps_eng_ga.tar.
 - > tar -xvf ArtifactGenerator14.1.0ForAll14.x.xApps_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/RIB14.1/RibFuncArtifact14.1.0ForAll14.1.0Apps_eng_ga.tar.
```

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

6. Execute the setup script.

```
> cd $AG_HOME
>$JAVA_HOME/bin/java -classpath ./integration-lib/*: groovy.ui.GroovyMain
com/oracle/retail/integration/artifact/generator/SetupWorkArea.groovy
```

7. 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/Rib141ForAll14xxApps/rib-home

 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/RIB14.1/ArtifactGenerator14.1.0ForAll14.x.xApps_eng_ga.tar.
- > tar -xvf ArtifactGenerator14.1.0ForAll14.x.xApps_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/RIB14.1/RibFuncArtifact14.1.0ForAll14.1.0Apps_eng_ga.tar.

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

4. Execute the setup script.

```
> cd $AG_HOME
>$JAVA_HOME/bin/java -classpath ./integration-lib/*: groovy.ui.GroovyMain
com/oracle/retail/integration/artifact/generator/SetupWorkArea.groovy
```

5. 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<version>.war file is located within the directory structure of the ArtifactGenerator14.1.0ForAll14.x.xApps_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<version>.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<version>.war file in the "Deployment Archive."
- 5. Select the retail-func-artifact-gen-gui<version>.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 RibFuncArtifact14.1.0ForAll14.1.0Apps_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-<version>.jar
./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-<version>.jar
./output-xml-samples
|------ src - All sample file
|------ dist - custom-retail-public-payload-xml-samples-<version>.jar
```

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-<version>.jar
./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-<version>.jar
./output-xml-samples
|------ src - All sample xmls
```

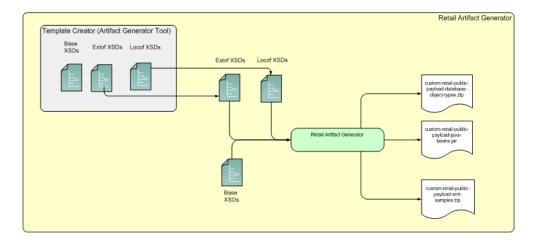
|----- dist - localization-retail-public-payload-xml-samples-<version>.jar

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	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
\$JAVA_HOME/bin/java -classpath ./integration-lib/*: groovy.ui.GroovyMain com/oracle/retail/integration/artifact/generator/Te mplateCreator.groovy -c createCustomTemplate -n ItemDesc	Extension hooks added to ItemDesc.xsdExtOfItemDesc.xsd is created.
\$JAVA_HOME/bin/java -classpath ./integration-lib/*: groovy.ui.GroovyMain com/oracle/retail/integration/artifact/generator/ TemplateCreator.groovy -c createCustomTemplate -n ASNInDesc/ASNInItem	 Extension hooks added to ASNInDesc\ASNInItem. ExtOfASNInDesc.xsd is created.
\$JAVA_HOME/bin/java -classpath ./integration-lib/*: groovy.ui.GroovyMain 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.
\$JAVA_HOME/bin/java -classpath ./integration-lib/*: groovy.ui.GroovyMain 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.
\$JAVA_HOME/bin/java -classpath ./integration-lib/*: groovy.ui.GroovyMain com/oracle/retail/integration/artifact/generator/ TemplateCreator.groovy -c createCustomTemplate -n CustomerOrder	ExtOfCustomerOrder.xsd is created.

Command	Output
\$JAVA_HOME/bin/java -classpath ./integration-lib/*: groovy.ui.GroovyMain 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:

\$JAVA_HOME/bin/java -classpath ./integration-lib/*: groovy.ui.GroovyMain

com/oracle/retail/integration/artifact/generator/TemplateCreator.groovy -c createCustomTemplate -n ItemDesc

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.

		DME/bin/java -classpath ./integration-lih/ mateCustomTemplate -n ItemDesc	*/ groovy.ul.EreovyMain com/eracle/retail/integratio
Generating artifacts with t			
	tifactGen/retail-func-a	artifact-on	
		1-fuec-artifact-gen/integration-lib	
		1-func-artifact-gen/input-xsd/	
confDir = /home/devd2	/Artifaction/retail-fun	hc-artifact-gen/cenf	
		unc-artifact-gen/base-func-artifacts	
poputputSrc = /home/d	w82/ArtifactGen/retal?	1-func-artifact-gen/output-database-object	-Types/arc/
		func-artifact-gen/integration-lib	19492011(1).
LibDir-lib			
CurrVer-oull			
Validating input:: IftemDes	1		
Base Business Object: Item	Desc.xxd		
Base Business DD)ect exists	in Dust-and directory	Ý.	
File to be created/modified			
DutputFile:: /homm/dev02/Ar	tifactGen/vetail-func-a	art1fact-gen/Input-xsd/payload/xsd/retail/	integration/custom/bo/ExtOfItemDesc/v1/ExtOfItemDesc
.xod doesnot exist			
File Name of modifying Xid:			integration/custom/bo/Ex10fIteeDesc/v1/ created (oad/wsd/retail/integration/base/bo/IteeDesc/v1/Itee
Desc.xsd			
[rip] Building rip: /	home/dev62/ArtifactGen/	/retail-func-artifact-gem/custom-template.	23.0
************************		***********************************	
** Upod			
		factGen/retail-func-artifact-gen/input-xsd	
** IntegrationLib Dir roof Dir		factGen/retail-func-artifact-gen/integrati	arr-L18
ee conf Dir	2: /home/dev02/Artif	factGen/retail-func-artifact-gen/conf	
** Generated Output to	Sector Contractor Contractor		
		factGen/retail-func-artifact-gen/input-xsd	
es zip-file	33 /hane/dev02/A/T11	factGen/retail-func-artifact-gen/custom-te	mplate.rip
** Files modified;			
TT. EXISTATE			
** II TtenDosc			
Ldev028blrdv02 retail-func-	artistact-genils		

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

Command:

\$AG_HOME>\$JAVA_HOME/bin/java -classpath ./integration-lib/*:
groovy.ui.GroovyMain
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>\$JAVA_HOME/bin/java -classpath ./integration-lib/*:
groovy.ui.GroovyMain
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> \$JAVA_HOME/bin/java -classpath ./integration-lib/*: groovy.ui.GroovyMain 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.

 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:element name="ExtOfCurrRateDesc">
```

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

```
> $JAVA_HOME/bin/java -classpath ./integration-lib/*: groovy.ui.GroovyMain
com/oracle/retail/integration/artifact/generator/GenArtifacts.groovy -g
generateCustom
```

- 3. All necessary artifacts are generated as follows:
 - custom-retail-public-payload-java-beans-<version>.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-<version>.jar 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/

<xs:schema elementFormDefault="gualified"

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.

```
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/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.

```
> $JAVA_HOME/bin/java -classpath ./integration-lib/*: groovy.ui.GroovyMain
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-<version>.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-<version>.jar 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.

```
> $JAVA_HOME/bin/java -classpath ./integration-lib/*: groovy.ui.GroovyMain
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-<version>.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-<version>.jar 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.

Retail Artifact Generator						
Hom	e Setup Work	<u>: Areas Crea</u>	te Custom/Loca	lization Templat	e <u>Generat</u>	e Artifacts
For additio To set up a To create t	Cenerator tool cr nal details please work area for gen emplate for custon unctional artifacts,	see the Retail Fu erating artifacts, hization/localizat	unctional Artifac select the <u>Setu</u> ion, select the <u>s</u>	t Generator Use p Work Areas T Create Custom/I	ab.	emplate Tab.
Hom	e Setup Work	<u>Areas</u> <u>Crea</u>	te Custom/Loca	lization Templat	<u>e Generat</u>	e Artifacts
	Generator Version:14 2014, Oracle and/or		rights reserved.			

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

etail Artifact Generator			
Setup Work Areas	Create Custom/Localization Template	Generate Artifacts	
X button next to a wor ork area is created by s	k area to delete it. electing a base archive below.	hive for the version below.	
No file selected.			
	Generator Setup Work Areas III the available work area 'X button next to a wor ork area is created by s ng work area can be re are available. work area, select your tifact14.1.0ForAll14.1 No file selected.	Generator Setup Work Areas Create Custom/Localization Template III the available work areas that have been created. If a X' button next to a work area to delete it. If a base archive below. ng work area can be recreated by selecting a base archive below. If are available. work area, select your base artifacts archive file : If act14.1.0ForAll14.1.0Apps_eng_ga.tar) No file selected. KArea	

- **3.** On the Setup Work Areas page, use the browse button to locate the RibFuncArtifact14.1.0ForAll14.1.0Apps_eng_ga.tar or the RetailFuncArtifact14.1.0ForAll14.1.0Apps_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.

Home	Setup Work Areas Cre	ate Custom/Localization Template	Generate Artifacts	
Choose artifa Rib-1	ct generator version from : 22 4.1.0			
Choose artifa	ct generation option:			
Cust	om			
C Loca	ization			
Choose genr	rated artifacts:			
IA 🖲				
Orac	e Objects			
© JAXE	Beans			
(IE : a .jar, .t	ustom schema archive file: E ar, or .zip file containing custo	m schemas in the correct payload/	xsd/retail/integration	custom/bol package structure)
Select your l	ocalization schema archive fil	e: 🛙		
(IE : a .jar, .t	ar, or .zip file containing locali	zation schemas in the correct paylo	ad/xsd/retail/integrat	ion/localization/bo/ package structure)
Browse	No file selected.			
Genera	te Artifacts			

- **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.

Wetcome, agadmin Heip Home Setup Work Areas Create Custom/Localization Template Generate Addlacts Choose Rb version for Customization and Localization : II Activity Log No Activity Recorded Image: Rb version for Customization and Localization : II No Activity Recorded No Activity Recorded Choose Replate Creation option II Image: Rb version for Customization and Localization : II No Activity Recorded Choose Replate Creation option II Image: Rb version for Customization and Localization : II Image: Rb version for Customization and Localization : II Choose Replate Creation option II Image: Rb version for Customization and Localization : II Image: Rb version for Customization and Localization : II Image: Rb version for Customization and Localization : II Choose Replate Creation option III Image: Rb version for Customization and Localization : II Image: Rb version for Customization and Localization : II Image: Rb version for Customization and Localization : II Image: Rb version for Custom version for Custom Records and new custom business object : Image: Records and new custom business object : Image: Records and records and new custom business object : Image: Records and r	ORACLE		
Choose Rib version for Customization and Localization : Rib-14.1.0 Activity Log No Activity Recorded No Activity Recorded No Activity Recorded Second a existing base business object :: Second and new custom business object :: Secon	letail Artifact Generator	Welcome, agadmin Help Log	
Rb-14.1.0 No Activity Recorded Coutom	Home Setup Work Areas Create Custom/Localization Template Generate Addacts		
No Activity Recorded Process Template Creation option II Outpoint Outpoint <t< th=""><th></th><th>Activity Log</th></t<>		Activity Log	
Custom Localization with locale Seed a Locale Posse Business Object : Select tran Base Business Object Create a brand new custom business object Create a brand new custom business object Create Template Create Template	Rb-14.1.0	No Activity Recorded	
Localization with locale Seence a Locale Posses Business Object : Extend an existing base business object : Select from Base Business Object • (E.g. FooDesc or XYZDesc/XYZDe) Save Changes on the Sener Create Tangete	toose Template Creation option 🖬		
Extend an existing base business object : Select two tease business Object Create a brand new custom business object (E.g. FooDesc or XY2Desc/XY2Det) Save Changes on the Sener Create Template			
Create a brand new custom business object: (E.g. FooDesc or XY2Desc/XY2D8) Save Changes on the Senser Counte Tanglais	hoose Business Object : 🔯		
Save Changes on the Sener	Extend an existing base business object : Select from Base Business Object .		
Cruate Template	Create a brand new custom business object (E.g. FooDesc or XY2Desc/XY2Dt)		
un Ria contanto sea shruan hulinar			
ry me contents are proven only.	og 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				
	Welcome, agadmin Help Logod			
Home Setup Work Areas Create Custom/Localization Template Generate Attfacts				
Choose Rib version for Customization and Localization : 🔛	Activity Log			
Rb-14.10	File ExtOfCustomerOrderDesc updated on Tue Sep 09 10:43:06 IST 2014			
Choose Template Creation option 🖬	on the sep of 10.45.00 LST 2014			
* 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 XY2Desc/XY2Dtl)				
Save Changes on the Server 🖬 Create Template Log file contents are shown below:				
**	*			
** Generated Output to				
**XSD Dir :: /home/dex02/WIsOsb11.1.17/Middlewareluser_projects/domains/rsb_gradie_domain /tmp?9wSWJTLWNih0rRxdVcx8Q1V3tyPp7p2S88wDy68BJLY2qh2.xtLnt1114690961211410238550267/Rib-14.1.0/reta	il-func-artifact-gen/input-xsd			
** zip-file :: /home/de/k2/WsOsb11.1.7/Middleware/user_projects/domains/rsb_gradie_domain /hmp9wSWJTLVN#k0RxdVcx8Q1V3tyPp7p2S88wOyb8BJLY2qk2xLxH11469096121410238550267/Rib-14.1.0/eta	il-func-artifact-gen/custom-template.zip			
5 au				

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		
Home Setup Work Are	Create Custom/Localization Template	Generate Artifacts
Choose Rib version for Customiz Rib-14.1.0		
Choose Template Creation option	1: 2	
Custom		
Localization with locale	Select a Locale	
	Select a Locale	
Choose Business Object : 🔽	Andorra - Ad United Arab Emirates - Ae	
Localize an existing bas	Afghanistan - Af	t -
Create a brand new loca	Antigua and Barbuda - Ag	g. FooDesc or XYZDesc/XYZDtl)
	Anguila - Ai	
	Albania - Al	
Save Changes on the Se	Armenia - Am Natharlanda Antilan - An	
Create Template	Angola - Ao	
	Antarctica - Aq	
Log file contents are shown belo	Argentina - Ar	
	American Samoa - As Austria - At	
genninput-xsu	Australia - Al	
** zip-file :: /home/dev02/WIsO		gradle_domain/tmp/9wSWJTLWN
gen/custom-template.zip	Aland Islands - Ax	gradie_domaintinprovidenterer
gen/custom-template.zip	Azerbaijan - Az	
	Bosnia and Herzegovina - Ba Barbados - bb	
** Files modified:	Darbados - Do	
** :: ExtOfCustomerOrderDesc		

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		
Home Setup Work Areas Create Custon	m/Localization Template	Generate Artifacts
Choose Rib version for Customization and Localization Rib-14.1.0	1:2	
Choose Template Creation option:	v	
Choose Business Object : Extend an existing base business object :	OSDDealsDesc	
Create a brand new custom business object :	CustomerDesc/CustomerGrpIdLst CustomerRef DSDDealsDesc	c or XYZDesc/XYZDti)
Save Changes on the Server 2 Create Template	DSDReceiptDesc DSDReceiptDesc DSDReceiptDesc/DSDDH DSDReceiptDesc/DSDDHUin	3
Log file contents are shown below.	IDSDReceiptDesc0SDNonMerch DSDReceiptDesc0SDReceipt DSRcptDesc DeliverySt8tDesc DeliverySt8tDesc DiffOrp0tDesc DiffOrp0tDesc DiffOrp1drDesc DiffOrp1drDesc DiffOrp1drDesc DiffOrp1drDesc DiffOrp1drDesc DiffOrp8et DiffOrp8et DiffOrp8et DiffOrp8et	

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.

Home Setup Work Areas Create Cust	om/Localization Template	Generate Artifacts
Choose Rib version for Customization and Localization	in ; 🖬	
Rib-14.1.0		
Choose Template Creation option:		
Custom		
Cocalization with locale Select a Locale	Ψ	
Choose Business Object : 🖬		
Extend an existing base business object :	Select from Base Business Object	t +
Create a brand new custom business object	CustomerOrderDesc (E.	g. FooDesc or XYZDesc/XYZDtl
Save Changes on the Server 2		

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	
	Welcome, agadmin Help Log
Home Setup Work Aceas Create Custom/Localization Template Generate Attfacts	
Choose Rib version for Customization and Localization :	Activity Log
Rb-14.1.0	No Activity Recorded
Procee Template Creation option	
Custom	
C Localization with locale Select a Locale	
hoose Business Object : 🛄	
Extend an existing base business object : Select from Base Business Object -	
Create a brand new custom business object : CustomerOrderCesc (E.g. FooDesc or XYZDesc/XYZDtl)	
Save Changes on the Server	
og 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 14.1). 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.

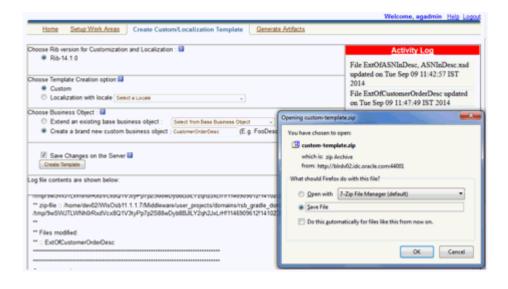
	Welcome, agadmin Help Logo
Home Setup Work Assas Create Custom/Localization Template General	ite Artifacta
Choose Rib version for Customization and Localization :	Activity Log
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Choose Template Creation option 📾 Custom	updated on Tue Sep 09 11:42:57 IST 2014
Localization with locale Select a Locale	Opening custom-template.zip
Choose Business Object : Extend an existing base business object : ASMORES: Create a brand new custom business object : ASMORES: Create a brand new custom business object : ASMORES: Create Temperature Create Temperature	which is: sip Archive from: http://bit/s02.idc.onacle.com/44001 What should Firefox do with this file? © <u>Open with</u> [7-Zip File Manager (default) @ Save File
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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 14.1). 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.



Note: The above Save File window appears only in Mozilla Firefox.

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 14.1). 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.

	Welcome, agadmin Help Logost
Hame Setup Work Areas Create Custom/Localization Template Generate	Addects
Choose Rib version for Customization and Localization : Rib-14.1.0 Choose Template Creation option Choose Business Object : Choose Business Object :	Activity Log File ExtO(ASNInDesc, ASNInDesc xad updated on Tue Sep 09 11:42:57 IST 2014 File ExtO/CustomerOrderDesc updated on Tue Sep 09 11:47:49 IST 2014 File LocO(ASNInDesc, BRASNInDesc, EO(BrASNInDesc, ASNInDesc, Set SSNInDesc, EO(BrASNInDesc, ASNInDesc, SSNINDesc, EO(BrASNInDesc, SSNINDesc, SSNINDesc, EO(Brassinder, SSNINDesc, SSNINDesc, EO(Brassinder, SSNINDesc, SSNINDesc, EO(Brassinder, SSNINDesc, SSNINDesc, EO(Brassinder, SSNINDesc, SSNINDesc, EO(Brassinder, SSNINDesc, EO(Bras
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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 14.1). 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.

Home Setup Wark Aceas Create Custom/Localization Template Generate.	Atifacta
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Rb-14.1.0 Choose Template Creation option Ocustom Custom Localization with locale Brazit-Br	File ExtOfASNInDesc, ASNInDesc, xsd updated on Tue Sep 09 11:42:57 IST 2014 File ExtOfCustomerOrderDesc updated on Tue Sep 09 11:47:49 IST 2014 File LocOfASNinDesc, BrASNinDesc,
Choose Business Object : 🛄	EOfBrASNInDesc, ASNInDesc.xad
Localize an existing base business object : Select from Base Business Object	updated on Tue Sep 09 11:50:25 IST 2014
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Content type is : Content-type: application/zip	
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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.

Retail Artifact Generator
Welcome, agadmin
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(E : a jar, tar, or zip file containing localization schemas in the correct payload/xsd/retail/integration/localization/bo/ package structure) Browne No file selected.
Generate A-thfada
Log file contents are shown below:

Click on Generate Artifacts button to generate functional artifacts.

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Brown To the selected	Opening custom retail-public-payload-database-object-types-141.0.R_
Generate Artificts	You have chosen to open:
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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-<version>.jar,

custom-retail-payload-java-beans-<version>.jar,

custom-retail-public-payload-xml-samples-<version>.jar, and the

custom-retail-public-payload-database-object-types-<version>.jar 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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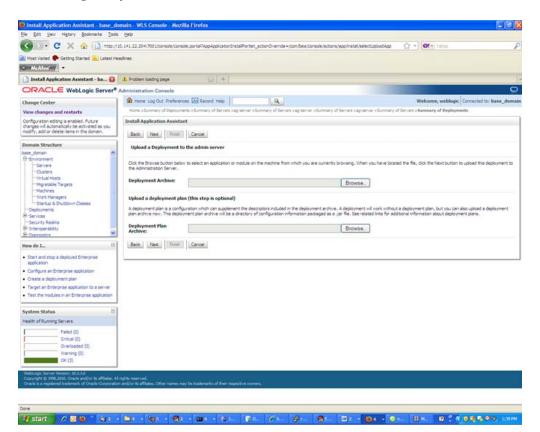
2. Click Install.

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

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

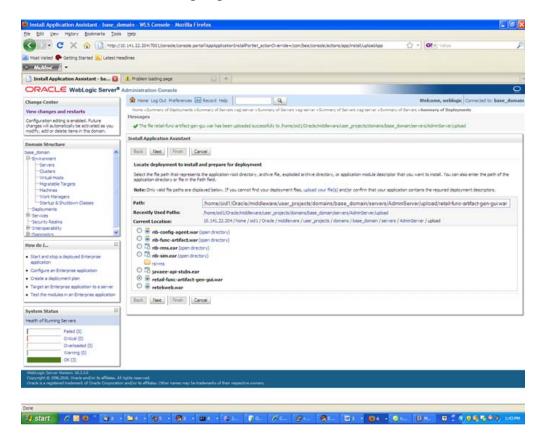
3. Select Upload your File(s).



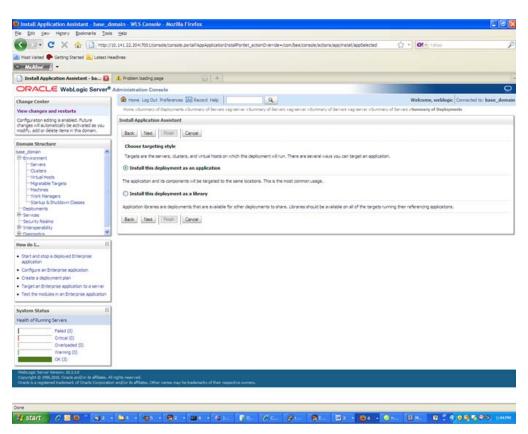
4. On the **Upload a Deployment to the admin server** page, use the Browse button to locate the retail-func-artifact-gen-gui-<version>.war file in the Deployment Archive.

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5. Select retail-func-artifact-gen-gui-<version>.war.



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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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

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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	IhDe	nc.xd
1		<pre>cxstachema elementFormUefault+'gualified'</pre>
2		targetNamespace*http://www.oracle.com/retail/integration/base/bo/ASBInDesc/v1*
3		version="1.1"
4		wnlns='http://www.oracle.com/retail/integration/base/bo/ASBInDesc/v1*
5	Θ	<pre>xmlns:retailDoc='http://www.w3.org/2001/DB.Schema' xmlns:xs='http://www.w3.org/2001/DB.Schema'></pre>
6	ġ	<retaillocrannotation></retaillocrannotation>
2	T	<pre><retailloc:documentation>This is root element of this document which contains name space definitions for the document elements.</retailloc:documentation></pre>
8	k	
9	8	<pre><ustelement name*'asminiten'=""></ustelement></pre>
10	₿	<pre>(retailDec:annotation)</pre>
11		<retailloc:documentation>Description is not available.</retailloc:documentation>
12	ł	
13	₿	<pre><ss:complextype></ss:complextype></pre>
14	₿	<pre><maisequence></maisequence></pre>
15	₿	<pre><rs:element nume*'final_location'="" type*'varchar210'=""></rs:element></pre>
16	ġ	<retaillocrannotation></retaillocrannotation>
17		<pre>cretaillocidocumentationRequired if the order's pre_mark ind is 'Y'. Validated against the ALLOC DETAIL table. There needs to be at least on</pre>
18	F	
19	Ŀ	
20	B	<pre><vstelement minoccurs="0" name="item id" type="varchar225"></vstelement></pre>

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.

1 <	costocheme elementFormFefault='qualified'
2	targetNamespace**http://www.oracle.com/retail/integration/base/bo/ASMInDesc/v1*
3	version*1.1*
é i	smins="http://www.oracle.com/retail/integration/base/bo/ASMInDesc/v1"
5	mins:ExtOfASNInlesc+'http://www.oracle.com/retail/integration/custom/bo/ExtOfASNInDesc/v1'
68	smins:retailloc*'http://www.w3.org/2001/DBLSchema' smins:ss*'http://www.w3.org/2001/DBLSchema'>
i 🗄	<retailloc:anotation></retailloc:anotation>
1 P.	<pre>space definitions for the document ation>This is root element of this document which contains name space definitions for the document elements.</pre>
i	<pre><wstimport< pre=""></wstimport<></pre>
: 8	namespace"http://www.oracle.com/retail/integration/custum/bo/Ext0fASWInDesc/v1' schemalocation="///custom/bo/Ext0fASWInDesc/v1/Ext0fASWInDesc.vsd"
8	<retaildocrannotation></retaildocrannotation>
1	<retailloc:documentation>It's a referenced element. For detailed description, please refer referenced element doc.</retailloc:documentation>
6	
5 F	<pre></pre>
6 8	<pre>cxs:element name**ASWInItem*>;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;</pre>
÷ 🗄	<retail@ccrannotation></retail@ccrannotation>
i	<retaildoc:documentation>Description is not available.</retaildoc:documentation>
9 -	
a m	restores Las Tunas

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

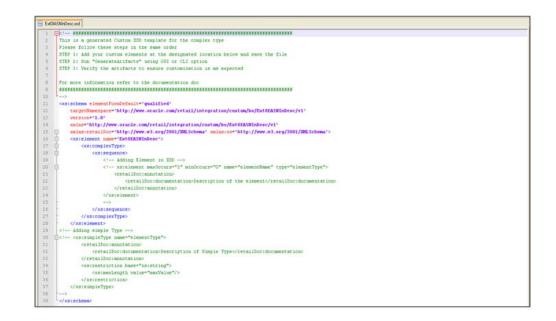
_	_	
37	0 8	<pre>3 <retailloc:annotation></retailloc:annotation></pre>
37	1	<retaildoc:documentation>Description is not available.</retaildoc:documentation>
37	2	<pre></pre>
37	3	<pre></pre>
37	4 8	<pre><xs:element maxoccurs*11'="" minoccurs*0'="" ref*'extofasmindesc:extofasmindesc'=""></xs:element></pre>
37		<pre><retaildocramotation></retaildocramotation></pre>
37	6	<retaildoc:documentation>Provide an extension hook to customize ASMInDesc.</retaildoc:documentation>
37	7	
37	8	
37	9	
38	0	<pre>- </pre>
38	1	

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



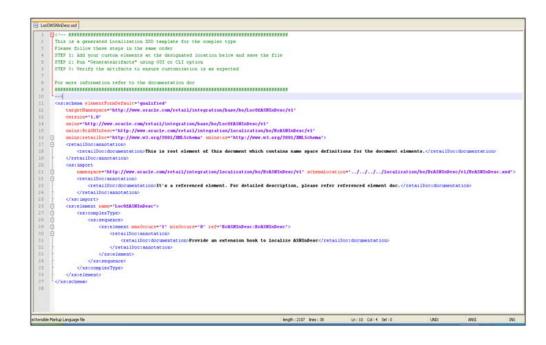


The custom template, ExtOfASNInDesc.xsd, is created from the tool, as shown in the following screen.



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

B BA	SNInDe	nt.xod
1	EK!	####################################
1	Th	is is a generated localized XSD template for the complex type
1	P1	ease follow these steps in the same order
4	37	TP 1: Add your custom elements at the designated location below and save the file
5	ST	EP 2: Run "GenerateArifacts" using GUI or CLI option
6	57	TP 3: Verify the artifacts to ensure customization is as expected
7		
8	Fo	r more information refer to the documentation doc
3	##	***************************************
30	1	
11	-02	stschema elementFormTefault="qualified"
-12		targetNamespace="http://www.oracle.com/retail/integration/localization/bo/BrASMInDesc/v1"
13		version*1.0*
- 14		<pre>xmlns*'http://www.oracle.com/retail/integration/localization/bo/BrASWInDesc/v1'</pre>
15		xmins:D0fBriSNInDesc**http://www.oracle.com/retail/integration/custom/bo/D0fBriSNInDesc/v1*
26	Ę	xmlns:retailDoc+'http://www.w3.org/2001/DBLSchema' xmlns:xx+'http://www.w3.org/2001/DBLSchema'>
17		Cost import
18	¢	<pre>nmespace*http://www.sracle.com/retail/integration/custom/bo/E0fBrASMInDesc/v1* schemalocation*'///custom/bo/E0fBrASMInDesc/v1/E0fBrASMInDesc.xsd'></pre>
19	E.	<retaildoc:annotation></retaildoc:annotation>
10		<retaillocidocumentation>It/s a referenced element. For detailed description, please refer referenced element doc.</retaillocidocumentation>
21,	1	
22		
23	ē.	<pre><ks:element name*'braswindesc'=""></ks:element></pre>
24	日	<pre><sstccmplextype></sstccmplextype></pre>
25	E.	<pre><ksisequence></ksisequence></pre>
26		Adding Element in ISD
27	E.	xs:element maxOccurs*"1" minOccurs*"0" name*"elementName" type*"elementType"
28		<retaildec:annotation></retaildec:annotation>
29		<retailboc:documentation>Description of the element</retailboc:documentation>
30		
31		
32		3
22	F	<pre><xstelement maxoccurs*'1'="" minoccurs*'0'="" ref*'e0efaswindesc:e0efaswindesc'=""></xstelement></pre>
34	P	<retaildociannotation></retaildociannotation>
35		<pre>cretailDoc:documentation>Provide an extension hook to Customization of Localization ASMInDesc</pre> /retailDoc:documentation>
36	1	
37	1	xs:element
38	1	
39		

EOfBrASNInDesc.xsd



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/