Oracle® Retail

Functional Artifact Generator Guide Release 19.0 F22944-01

January 2020



Oracle Retail Functional Artifact Generator Guide, Release 19.0

F22944-01

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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 Cloud Service Release Notes
- Oracle Retail Integration Cloud Service Action List
- Oracle Retail Integration Cloud Services Administration Guide
- Oracle Retail Integration Bus Implementation Guide
- Oracle Retail Integration Bus Installation Guide
- Oracle Retail Integration Bus Operations Guide
- Oracle Retail Integration Bus Hospital Administration Guide
- Oracle Retail Integration Bus Support Tools Guide
- Oracle Retail Functional Artifacts Guide

- Oracle Retail Service-Oriented Architecture Enabler Tool Guide
- Oracle Retail Integration Bus Java Messaging Service Console Guide
- Oracle Retail Service Backbone Developers Guide
- Oracle Retail Service Backbone Implementation Guide
- Oracle Retail Integration Console (RIC) User Guide
- Oracle Retail Service Backbone Security Guide
- Oracle Retail Bulk Data Integration Implementation Guide
- Oracle Retail Bulk Data Integration Installation Guide
- Oracle Retail Financial Integration for Oracle Retail Merchandise Operations Management and Oracle Financials Implementation Guide
- Oracle Retail Financial Integration for Oracle Retail Merchandise Operations Management and Oracle Financials Installation Guide
- Oracle Retail Job Orchestration and Scheduler Implementation Guide

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- 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, 19.0.000 or 19.0.0) or a later patch release (for example, 19.1.000 or 19.1.0). 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
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Data Model documents are not available through Oracle Technology Network. You can obtain them through My Oracle Support.)

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 & 7 for x86-64 (Actual hardware or Oracle virtual machine)
	 Red Hat Enterprise Linux 6 & 7 for x86-64 (Actual hardware or Oracle virtual machine)
	 AIX 7.1 (Actual hardware or LPARs)
	 Solaris 11.2 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 12c (12.2.1.3.0). Options are:	
	 Oracle Linux 6 & 7 for x86-64 (Actual hardware or Oracle virtual machine) 	
	 Red Hat Enterprise Linux 6 & 7 for x86-64 (Actual hardware or Oracle virtual machine) 	
	• AIX 7.1 (Actual hardware or LPARs)	
	 Solaris 11.2 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 12c(12.2.1.3.0)	
	Components:	
	• Oracle WebLogic Server 12c(12.2.1.3.0)	
	JDK 8+ 64 bit with latest security updates	

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 1.8 JDK with latest security updates. 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/RIB19.0.0/ArtifactGenerator19.0.0ForAll19.x.xApps_eng_ga.tar.
 - > tar -xvf ArtifactGenerator19.0.0ForAll19.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/RIB19.0.0/RibFuncArtifact19.0.0ForAll19.0.0Apps_eng_ga.tar.
```

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

6. Execute the setup script.

```
> cd $AG_HOME
>./setupWorkArea.sh
```

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/Rib19000ForAll19xxApps/rib-home

 Verify the JAVA_HOME environment variable. The JAVA_HOME must be set to a Java 1.8 JDK with latest security updates. 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
```

 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/RIB19.0.0/ArtifactGenerator19.0.0ForAll19.x.xApps_eng_ga.tar
```

```
> tar -xvf ArtifactGenerator19.0.0ForAll19.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/RIB19.0.0/RibFuncArtifact19.0.0ForAll19.0.0Apps_eng_ga.tar

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

4. Execute the setup script.

```
> cd $AG_HOME
>./setupWorkArea.sh
```

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 ArtifactGenerator19.0.0ForAll19.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 12c (12.2.1.3.0) 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 Administration 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.
- 12. Click Activate Changes to finish install. Go to Deployments page, select the retail-func-artifact-gen-gui<version> application and click on Start > Servicing all requests button. This should change the status of retail-func-artifact-gen-gui application to Active status.

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-<version>**on the Summary of Deployments page.
- **3.** Click the name, **retail-func-artifact-gen-gui-<version>**, 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 RibFuncArtifact19.0.0ForAll19.0.0Apps_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-<version> 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-<version> 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
|----- 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/bo/brasnindesc/v1
|----- BrASNInDesc.java...
ObjectFactory.java
package-info.java
|----- dist
|----- localization-retail-public-payload-java-beans-<version>.jar
./output-xml-samples
|------ src - All sample xmls
```

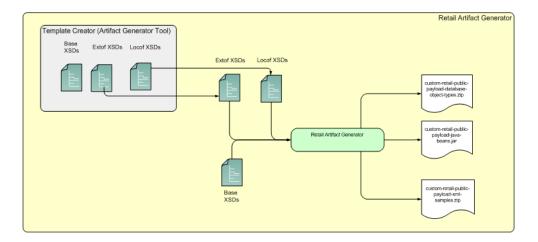
|----- dist - localization-retail-public-payload-xml-samples-<version>.jar

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 CustOrderDesc	ExtOfCustOrderDesc.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 CustOrderDesc -l Br	 LocOfCustOrderDesc.xsd. BrCustOrderDesc.xsd. EOfBrCustOrderDesc.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.

n/artifact/generator/Tomplat Generating artifacts with th	eCreator.groovy -c cre	<pre>@/bin/java -sCasquath //integration-lib/*/ groovy.ul.ScroovyMain com/oracle/retuil/integratio indCustonTemplate -n ItemDesc</pre>
base = . tocalIntLib = inputXxdDir = conTDir =	e rollowing :	/integration-lim /input.smd/ /conf
stageDir = coOutputSrc = LibOir+lib CorrVer-sull Validating input:: []temDesc		v/ortpvt-database-object-types/vrc/ Wintepratise-lik
Base Bosiness Object: ItemD Base Bosiness Object exists File to be created/modified: DutputFile::	esc.xsd in input-wad directory	integration/conton/bo/Ext0fItenDesc/v1/Ext0fItenDesc
_and doesnot exist Output-Dirt: File Rame of modifying Aid:: Desc and		/integration/cuntum/bu/ExtOflimoDesc/vl/ created /integration/haso/bu/Treated/vl/ltes
Erip] Building rip:		reaton-template.zzp
** Input KiD Dir ** IntegrationLib Dir ** conf Dir		/import-und /integration-like /cont
** Semerated Output to ** XSD Dir ** zip-fale		timput-and /oustim-template.zip
** Files modified; ** :: ExtOfItes ** :: TimBosc.		
	-15	

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 CustomerOrdDesc

Output: The following files are created.

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

ExtOfCustOrderDesc/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/

<pre>carting.compared fourier/state procy - comparing of the following (</pre>	<pre>constituentiestiefingties - Diseber - 1 B wilfunt-gem</pre>	
File to be considered that in additional scientific		
<pre>wi/vi/Hollessies.com Localization for entries in lepst for directory File News 4 medifying Robin FundPrindent.com [ing] Building rise</pre>	y /totografian/how/ord/Deddest/vil 1-tenglate.cop	
 Yound Dopact Kild Bay Dopact Kild Bay Separation Link Bay Separation Link Bay Separation Bay Separation Bay Separation Bay 		
11 Allp-733# 00 /	/hocalization-template.zip	

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 CustOrderDesc -l Br

Output: The following files are created.

LocOfCustOrderDesc in

\$input-xsd/payload/xsd/retail/integration/base/bo/LocOfCustOrderDesc/v1/

BrCustOrderDesc.xsd in

\$input-xsd/payload/xsd/retail/integration/localization/bo/BrCustOrderDesc/v1/

EOfCustOrderDesc.xsd in

\$input-xsd/payload/xsd/retail/integration/custom/bo/EOfBrCustOrderDesc/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"
```

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/

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

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

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

```
<xs:schema elementFormDefault="qualified"
targetNamespace="http://www.oracle.com/retail/integration/localization/bo/
BrCurrRateDesc/v1"
version="1.0"
xmlns="http://www.oracle.com/retail/integration/localization/bo/BrCurrRate
Desc/v1"
xmlns:EOfBrCurrRateDesc="http://www.oracle.com/retail/integration/custom/
bo/EOfBrCurrRateDesc/v1"
xmlns:retailDoc="http://www.w3.org/2001/XMLSchema"
xmlns:xs="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/EOfBr
CurrRateDesc/v1" schemaLocation="../../../custom/bo/EOfBrCurrRateDesc/v1/
```

```
EOfBrCurrRate Desc.xsd">
        <retailDoc:annotation>
            <retailDoc:documentation>It's a referenced element. For detailed
description, please refer referenced element doc.</retailDoc:documentation>
        </retailDoc:annotation>
   </xs:import>
    <xs:element name="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.

The Artifact Gen	erator tool creates fun	ctional artifacts for retail applications.		
For additional de	tails please see the F	Retail Functional Artifact Generator User C	Suide.	
To set up a work	area for generating a	tifacts, select the Setup Work Areas Tab		
To create templa	te for customization/l	ocalization, select the Create Custom/Loc	alization Template Tab.	
To create functio	nal artifacts, select th	e Generate ArtifactsTab.		

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

Home Setup Work Areas Create Custom/Localization Template Generate Artifacts				
This is a list of all the available work areas that have been created. 🛿				
Click the X button next to a work area to delete it. A new work area is created by selecting a base archive below. An existing work area can be recreated by selecting a different source archive for the version below.				
No work areas are available.				
To create a new work area, select your base artifacts archive file : 🗃				
(E : RibFuncArtifactt6.0.027ForAll16.0.027Apps_eng_ga.tar)				
Branse. No file selected				
Create Work Area				
Log file contents are shown below:				
MVR2CIII IIV IRE SERVICU.				
Create Work Area				
Log file contents are shown below:				

- **3.** On the Setup Work Areas page, use the browse button to locate the RibFuncArtifact19.0.0ForAll19.0.0Apps_eng_ga.tar or the RetailFuncArtifact19.0.0ForAll19.0.0Apps_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 b	be used.
--	----------

Home	Setup Work Areas	Create Custom/Localization Template	Generate Artifacts	
	ct generator version from	n : 🕜		
Rib-16	5.0.027			
Choose artifac	ct generation option:			
Custo	m			
© Locali	zation			
Choose gener	ated artifacts:🕜			
All				
Oracle	e Objects			
© JAXB	Beans			
· ·	ustom schema archive			
(IE : a .jar, .ta	r, or .zip file containing	custom schemas in the correct payload/	xsd/retail/integration/c	:ustom/bo/ package structure)
Browse	No file selected.			
Select your lo	calization schema arch	ive file: 👔		
(IE : a .jar, .ta	r, or .zip file containing	localization schemas in the correct paylo	ad/xsd/retail/integratio	on/localization/bo/ package structure)
Browse	No file selected.			
Genera	te Artifacts			
Log file conter	nts are shown below:			

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

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

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

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

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

Template Creator - Graphical User Interface

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

Using the Graphical User Interface

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

Note: See the Creating a Work Area - Graphical User Interface section in this chapter for how to create work areas. Setup Work Areas Home Create Custom/Localization Template Generate Artifacts Choose Rib version for Customization and Localization : Rib-16.0.027 Choose Template Creation option: Custom Cocalization with locale Select a Locale Ŧ Choose Business Object : 🕼 Extend an existing base business object : Select from Base Business Object Create a brand new custom business object : (E.g. FooDesc or XYZDesc/XYZDtl) Save Changes on the Server 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.

Choose Rib version for Customization and Localization : 2 Rib-16.0.027 Choose Template Creation option: 2	
Rib-16.0.027 Choose Template Creation option:	
Choose Template Creation option:	
Custom	
Cocalization with locale Select a Locale	
Choose Business Object : 😰	
Extend an existing base business object : Select from Base Business Object -	
Create a brand new custom business object : (E.g. FooDesc or XYZDesc/XYZDtl)	
Save Changes on the Server	
Log file contents are shown below:	

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.

Home	Setup Work Areas	Create Custom/Localization Temple	ate Generate Artifacts
Choose Rib v Rib-1	ersion for Customization	and Localization : 🕜	
V RID-1	16.0.027		
Choose Temr	plate Creation option:		
Cust			
Loca	lization with locale Antig	ua and Barbuda - Ag	•
Choose Busin	ness Object : 👔		
	lize an existing base but		•
Creat	te a brand new localize b	ousiness object :	(E.g. FooDesc or XYZDesc/XYZDtl)
	ofAgASNInDesc		
** :: AS	NInDesc.xsd		
******	************	*****************	*******
******	************	**********************	********
Creaton	complete		
Downlo	ading file /home/o	dev03/WLS_12213/user_proj	ects/domains/bulk_domain/tmp/rKdhrb9a_b7jRfudJLYooL_7
1434734	4757!1522057177	648/Rib-16.0.027/retail-func	-artifact-gen/localization-template.zip
	type is : Content-	type: application/zip	
Content			
	file to client as 'le	ocalization-template.zip'	

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.

Home	Setup Work Areas	Create Custom/Localization Template	Generate Artifacts
	version for Customization 16.0.027	and Localization : 🖾	
· Fab	16.0.027		
Choose Tem	plate Creation option:		
O Cus			
Eoc	alization with locale Antig	gua and Barbuda - Ag 👻 👻	
	iness Object : 😰		
	alize an existing base bu		•
Crea	ate a brand new localize	business object : (E.	g. FooDesc or XYZDesc/XYZDtl)
** :: EC ** :: AS	ents are shown below: DfAgASNInDesc SNInDesc.xsd		
	*****		*******************
*****	*******	***********	******************
Creator	complete		
	ading file /home/	dev03/WLS_12213/user_projects	s/domains/bulk_domain/tmp/rKdhrb9a_b7jRfudJLYooL_^
		648/Rib-16.0.027/retail-func-art	ifact-gen/localization-template.zip
143473	4757!1522057177	648/Rib-16.0.027/retail-func-art type: application/zip	ifact-gen/localization-template.zip
143473 Conten	4757!1522057177 t type is : Content-		ifact-gen/localization-template.zip

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 Custom/Localization Template Generate Artifacts				
Choose Rib version for Customization and Localization : 🖬	Activity Log			
Rb-16.0.027				
	File LocOfASNInDesc, CnASNInDesc, EOfCnASNInDesc, ASNInDesc.xsd updated			
Choose Template Creation option:	Mon Mar 26 15:32:26 IST 2018			
Uousion Mon.Mar 26 15:32:26 IS1 2018 Mon.Mar 26 15:32:26 IS1 2018				
Choose Business Object : 2				
Extend an existing base business object : Select from Base Business Object				
© Create a transmission of the state of the				
Save Changes on the Server				
Create Template				
Log file contents are shown below;				
ang me annuno ana anann anaan.				
** Files modified:				
** :: ExtOfBrTestRBO				

Creaton complete				
Downloading file /home/dev03/WLS_12213/user_projects/domains/bulk_domain/tmp/rKdhrb9a_b7jRfudJLYooL_7o5Qt 1434734757!1522057177648/Rib-16.0.027/retail-fune-artifact-gen/custom-template.zip	nssXbXA_FncYXU9G0K1W/XctR!-			
Content type is : Content-type: application/zip				
Sending file to client as 'custom-template.zip'				
Finished sending file custom-template.zip. 2044 bytes				
a money sensing the endom templote. Ly, 2017 0 just				

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.

Home Setup Work Areas Create Custom/Localization Template	Generate Artifacts			
Choose Rib version for Customization and Localization :		Activity Log		
Rib-16.0.027		Activity Log		
		File LocOfASNInDesc, CnASNInDesc,		
Choose Template Creation option		EOfCnASNInDesc, ASNInDesc.xsd updated on		
© Custom		Mon Mar 26 15:32:26 IST 2018		
Localization with locale China - Cn				
Choose Business Object : 2		-		
Localize an existing base business object : ASNnDesc	•			
Create a brand new localize business object: (E.g. FooDesc or XYZDesc/XYZDtl)				
Save Changes on the Server Create Template Log file contents are shown below:		-		
** :: EOfCnASNInDesc				
** :: ASNInDesc.xsd				
***************************************	*****			
*****	*****************			
Creaton complete				
Downloading file /home/dev03/WLS_12213/user_projects 1434734757!1522057177648/Rib-16.0.027/retail-func-art	s/domains/bulk_domain/tmp/rKdhrb9a_b7jRfudJLYooL_7o5Q ifact-gen/localization-template.zip	mssXbXA_FncYXU9G0K1W7XcfR!-		
Content type is : Content-type: application/zip				
Sending file to client as 'localization-template.zip'				
Finished sending file localization-template.zip. 9462 bytes				
r misned sending the rocalization-template.zip. 9402 bytes	,			

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 19.0.0). 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 ActLckRef), as shown in the following screen. You have the option of saving the changes to the server.

Home Setup Work Areas Create Custom/Localization Template Generate Artifacts	1	
hoose Rib version for Customization and Localization : 🗃		File ExrOfASNI
hoose Template Creation option III Creation option III Coustem C Localezation with locate Secura Locate		Apr 16 21:54:45
hoose Business Object : 🖬	Opening custom-template.sip	×
Extend an existing base business object : ADMICENCE Create a brand new custom business object : (E.g. FooDesc or XYZD	Contour occubercych	
Save Changes on the Server S Creats Temptor	which is: Compressed (sipped) Folder from: http:// What should Firefox do with this file?	
og file contents are shown below:	O gpen with Windows Explorer (default)	
	(#) Save File	
** Files modified: ** :: ExrOfASNInDesc	Do this gutomatically for files like this from no	ow on.

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 ActLckRef.xsd and ExtOfActLckRef.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 19.0.0). Select custom option in Panel 2. Select the option to create a brand new custom business object, and input the complex type (such as CustOrdDesc), as shown in the following screen. You have the option of saving the changes to the server.

🐌 Oracle Retail Artifact Generator Version 16.0.027 - Mozilla Firefox	- 0 - X
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** :: ASNOutDesc.xsd	Save File
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Creaton complete	OK Cancel
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Content type is : Content-type: application/zip	
Sending file to client as 'custom-template.zip'	
Finished sending file custom-template.zip	r

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

ExtOfCustOrdDesc.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 19.0.0). 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.

Hama Satup Work Areas Create Custom/Localization Template Senerate Artifacts	
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Rb-16.0.027	File LocOfASNInDesc, CnASNInDesc,
Choose Template Creation option 2	EOfCnASNInDesc, ASNInDesc.xsd updated on Mon Mar 26 15:32:26 IST 2018
Localization with locale Australia - Au	Mon Mar 26 15:32:26 151 2018
Choose Business Object : 🖬	
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C create a unano new localize business dujeut	You have chosen to open:
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Creaton complete	OK Cancel
Downloading file /home/dev03/WLS_12213/user_projects/domains/bulk_domain/tmp/rKdhrb9a_b7jRfudJLYooL_7o50 1434734757!1522057177648/Rib-16.0.027/retail-func-artifact-gen/localization-template.zip	
Content type is : Content-type: application/zip	
Sending file to client as 'localization-template.zip'	
Finished sending file localization-template.zip. 9477 bytes	
	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 19.0.0). 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 eCustOrderDesc). You have the option of saving the changes to the server.

Home Setup Work Areas Create Custom/Localization Template	Generate Attifacts	
Choose Rib version for Customization and Localization : Rib-16.0.027		Activity Log
Dhoose Template Creation option III O Cutotom Location with locate / Australis - Au Choose Business Object :		File LocOfASNInDesc, CnASNInDesc, EOfCnASNInDesc, ASNInDesc.xsd updated on Mon Mar 26 15:32:26 IST 2018
Localize an existing base business object : ASNOutDesc	FooDesc or XYZDesc/XYZDtl)	Opening localization-template.zip
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	s/domains/bulk_domain/tmp/rKdhrb9a_b7jRfudJLYooL_7o5Q	OK Cancel
1434734757!1522057177648/Rib-16.0.027/retail-func-art	ifact-gen/localization-template.zip	
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Sending file to client as 'localization-template.zip'		-
Finished sending file localization-template.zip. 9477 bytes	5	

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 LocOfCustOrderDesc.xsd, BrCustOrderDesc.xsd, and EOfBrCustOrderDesc.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 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.

Home Setup Work Areas Create Custom/Localization Template Generate Artifacts
2hoose artifact generator version from : 2 ® Rib 16.0.027
Choose atiliact generation option: 2
Custom
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E: a jar, tar, or .zip file containing custom schemas in the correct payload/xsd/retail/integration/custom/bo/ package structure)
Browse
Select your localization schema archive file: 😰
E: a jar, tar, or .zip file containing localization schemas in the correct payload/xsd/retail/integration/localization/bo/ package structure)
Browse
Generate Artifacta
og file contents are shown below.

Click on Generate Artifacts button to generate functional artifacts.

	-	
veran Artifact Generator		Opening retail-public-payload-java-beans-16.0.027.jar
		You have chosen to open:
Home Setup Work Areas Create Custom/Localization Template General	te Artifacts	retail-public-payload-java-beans-16.0.027.jar
		which is: WinRAR archive
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Rib-16.0.027		Would you like to save this file?
Choose artifact generation option @		Save File Cancel
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	Opening custom-retail-public-payload-java-beans-16.0.027.jar	Opening custom-retail-public-payload-xml-samples-16.0.027.jar
- C00000000		Opening custom-recampuolic-payloau-xm-samples-100027.jai
Choose generated artifacts:	You have chosen to open:	You have chosen to open:
© All	custom-retail-public-payload-java-beans-16.0.027.jar	custom-retail-public-payload-xml-samples-16.0.027.jar
Oracle Objects JAXB Beans	which is: WinRAR archive	which is: WinRAR archive
U JAXB Beans	from: http://blrdev03.in.oracle.com:19006	from: http://blrdev03.in.oracle.com:19006
Select your custom schema archive file:	Would you like to save this file?	Would you like to save this file?
IE : a .jar, .tar, or .zip file containing custom schemas in the correct payload/xsd/retail	Save File Cancel	
Browse	Save File Cancel	Save File Cancel
and photos		Consists system sets? sublic an load database object hour 16002
Select your localization schema archive file:		Opening custom-retail-public-payload-database-object-types-16.0.02
IE : a .jar, .tar, or .zip file containing localization schemas in the correct payload/xsd/ret	ail/integration/localization/bo/ package structure)	You have chosen to open:
Browse	custom-retail-public-payload-database-object-types-16.0.027.jar	
		which is: WinRAR archive
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og file contents are shown below:		Would you like to save this file?
1757157151.15220511110701X10 10.0.02711Cturi ture urtituet	geneoutput ann sampresisteroutunitymiterrito.annj.	Save File Cancel
[java] Writing to file(/home/dev03/WLS_12213/user_projects/		Save rice Cancer

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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Click the Lock & Editioution to modify, add or delate items in this domain.		sary of Deployments									
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Jonain Structure	You	u can update (redeploy) or delete instal	led applications and modules from the o	Iomain by selecting the checkbox next to th	e applica	tion name	and then using th	e controls on this page.			
t_donain 8: Comain Partitions	Toi	install a new application or module for	deployment to targets in this domain, d	ck Install.							
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		Name 🕫			State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
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- 2. Click Lock & Edit.
- 3. Click Install.

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Security Realms 8-Interoperability	1n	stal U	date	Delete										Showing 1 to	6 of 6 Previous Next
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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.

- 4. Select Upload your File(s).
- **5.** On the **Upload a Deployment to the administration 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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	de log4j-1.2-api-2.6.2.jar	3/31/2017 11:08 PM	Executable Jar File	Im which you are currently browsing. When you have located the file, click the Next button to upload this deployment to the
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6. Select retail-func-artifact-gen-gui-<version>.war.

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7. Click Next and move to Choose targeting style.

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

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

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11. Select Next and move to Review your choices and click Finish.

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int_domain 8: Domain Partitions 8: Environment		by, this application may require additional configuration. Do you want to review this application's configuration after completing this as apployment's configuration screem.	istart?
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	Name	retail-func-artifact-gan-gui-16-0-21	
	Staging Hoder	Use the defaults defined by the chosen targets	
Now do LB	Plan Staging Hode:	Use the same accessibility as the application	
Start and stop a deployed enterprise application	Security Hodel:	DDDnly: Use only roles and policies that are defined in the deployment descriptors.	
Configure an enterprise application	Scoper	Global	
Create a deployment plan	Target Summary		
 Target an enterprise application to a server instance 	Components 🕫		Targets
Test the modules in an enterprise application	retail-func-artifact-gen-gu	- 16.4.21	int-app-server
System Status 8	Back Nett Finah	Cancel	
Health of Running Servers as of 2:05 AM			
Paled (2) Critical (8) Overloaded (0) Warning (0) Ox (1)			
Weldings Server Veniors 12.2.1.2.0 Concrede (c) 1996-2016, Cracks and/or its affiliates.	All takes managed		

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

ORACLE WebLogic Server A	Administration Console 12s		
Change Center	A Home Log Out Preferences	Record Help	Welcome, weblogic Connected to int_do
View changes and restarts	Home > Summary of Deployments > re	dat-func extifact gen gui 16.0.21 >Summary of Deptyments >websit-func extifact gen gui 16.0.21	
Pending changes exist. They must be activated to take effect.	Settings for retail-func-artifa	kt gen gui 16.0.21	
Activate Changes	Overview Deployment Plan	Configuration Security Targets Control Testing Monitoring Notes	
Undo All Changes	Seve		
Domain Structure	Use this page to view the instal	led configuration of a Web application.	
Comain Partitions	Name	retalifuto attfatt gen gui 36.0.21	The name of this application deployment. Hore Info
Deployments Services Services	Scoper	Oldari	Specifies if this Web application is accessible within the domain, a partition, or a resource group template. More Defa
 Intersperability Diagnostics 	Context Roots	neal-funciant/actigen-gui 16.8.21	The specific path at which this Web application is found by a service. More Drfs
	Pathe		The path to the source of the deployable unit on the Administration Server. More Info
	Deployment Plan	(no plan specified)	The path to the deployment plan document on the Administration Server. More Info
iew do L	Staging Hodes	(not specified)	Specifies whether an application's files are copied from a source on the Administration Server to the Managed Server's staging area during application preparation. More Infis
Deploy Web applications Configure Web applications	Plan Staging Hoder	(not specified)	Specifies whether a deployment plan's files are copied from a source on the Administration Server to the Managed Server's staging area during application preparation. Mare Infla-
 Overte a deployment plan. Test the deployment. 	Security Hodels	DODnly	The security model specifies how this deployment should be secured. More 240
Monitor Web applications and serviets	Contract Contern	100	An integer value that indicates when this unit is deployed, relative to other deployable units on a server, during startup. Have brids
Health of Running Servers as of 2:06 AM Faled (0) Critical (0)	Deployment Principal Name:		A strong value that indicates the principal that should be used when deploying the file or archive during stratup and divutions. This principal will be used to use the current subject when calling out into application code for interfaces such as Application/Likes/dollates. If no principal name is specified, then the anonymous principal will be used. Hote 3Pbc.
Overloaded (II)	Save		
Warning (8) CrK (1)	Modules and Components		
			Showing 1 to 1 of 1 Previous Net
	Name in		Тури
	El retal funciant fact gen gui 16	1821	Yieb Applicatio
	II REST Services		
	None to display		
	8 Web Services		
	None to dealer		

- 14. Click Activate Changes.
- **15.** Click **Deployment.** Click **Control**.
- **16.** On the right pane, check retail-func-artifact-gen-gui-<version>.
- 17. Start the application by choosing 'Servicing all requests' from Start dropdown.

ORACLE WebLogic Server A	dministration Console 12c						õ
Change Center	👔 Home Log Out Preferences 🔛 Record Help				Welcome	, weblogic	c Connected to: int_domain
View changes and restarts	Home >Summary of Deployments >retail-func-artifact-gen-gui-16.0.21 >Summary of Deployments >retail-func-artifact-gen	n-gui-16.0.21 >Summa	rry of Dep	loyments			
Click the Lock & Edit button to modify, add or delete items in this domain.	Summary of Deployments Configuration Control Monitoring						
Lock & Edit Release Configuration	Configuration Centrel Monitoring This page displays the lat of Java EE applications and standalone application modules installed to this domain.						
Domain Structure	You can start and stop applications and modules from the domain by selecting the checkbox next to the application	on name and then usi	ng the cont	trols on this page.			
Int_domain ®-Domain Partitions ®-Environment Opployments ®-Services Security Realms	© Contensize this table Deployments Startv Startv Startv				s	howing 1 b	to 7 of 7 Previous Next
Interoperability Interoperability Orignostics	Servicing all requests	State	Health	Туре	Targets	Scope	Domain Partitions
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	B DMS Application (12.2.1.1.0)	Active	🗸 ок	Web Application	AdminServer, int-app-server	Global	
	□ ≥ en	Active	🗸 ок	Enterprise Application	AdminServer	Global	
How do L.	B oper-rest	Active	🗸 ОК	Web Application	AdminServer	Global	
Configure an enterprise application	R retail-func-artifact-gen-gui-36.0.21	New		Web Application	int-app-server	Global	
Start applications and modules	state-management-provider-memory-rar	Active	🕈 ОК	Resource Adapter	AdminServer, intrapprserver	Global	
Stop applications and modules	🛛 🗷 wam-pm	Active	🕈 ок	Enterprise Application	AdminServer	Global	
View the modules of an enterprise application Monitor the modules of an enterprise application	Start v Stop v				s	howing 1 to	to 7 of 7 Previous Next
System Status							
Health of Running Servers as of 2:07 AM							
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WebLogic Server Version: 12.2.1.2.0 Copyright (c) 1996.2006. Oracle and/or its affiliates Oracle is a service and testematic of Oracle Conservice	All rights reserved.						

		Q
Change Center	😧 Home Log Out Preferences 🔛 Record Help	Welcome, weblogic Connected to: int_domain
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System Status 🛛		
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WebLogic Server Version: 12.2.1.2.0 Copyright (c) 1996.2016. Oracle and/or its affiliates. A Oracle is a negistered trademark of Oracle Corporatio	l right searchal. Tar and/or its affilians. Other names may be trademarks of their respective conners.	

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Click the Lock & Editbutton to modify, add or delete items in this domain.	Messa S	ges tart requests have been sent to the selected de	sployments.						
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-Log Files -Diagnostic Modules		art v Stop v					Sho	wing 1 to	7 of 7 Previous Next
-Buft-in Diagnostic Modules Diagnostic Images Request Performance		Name 🏟		State	Health	Туре	Targets	Scope	Domain Partitions
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tow do I Configure an enterprise application		DMS Application (12.2.1.1.0)		Active	¢ок	Web Application	AdminServer, int-app- server	Global	
Start applications and modules Stop applications and modules		🖲 em		Active	∢ок	Enterprise Application	AdminServer	Global	
• View the modules of an enterprise application		🗉 opss-rest		Active	¢ок	Web Application	AdminServer	Global	
Monitor the modules of an enterprise application		E retail-func-artifact-gen-gui-16.0.21		Active	✓ ок	Web Application	int-app-server	Global	
vstem Status 💿		state-management-provider-memory-rar		Active	∢ок	Resource Adapter	AdminServer, int-app- server	Global	
ealth of Running Servers as of 2:26 AM		🗷 wsm-pm		Active	ок	Enterprise Application	AdminServer	Global	
Failed (0) Critical (0) Overloaded (0) Warning (0)	Sta	art v Stop v					Sh	wing 1 to	7 of 7 Previous Next
OK (2)									

18. The application status is **Active**.

Verifying the Artifact Generator Web Application

1. Navigate to the Deployments page.

hange Center	Home	E Log Out Preferen	ces 🛃 Record	Help	Q							Welcome, weblogic	Connected to: int_doma	
fiew changes and restarts		Summary of Log File Summary of Deple		ployments >Summary of	f Servers > AdminServer > Su	mmary of Environm	nent >S4	ummary of	Deployments	>int_domain >S	ummary of	Deployments > retail-fund	rartifact-gen-gui-	
lick the Lock & Edit button to modify, add or elete items in this domain.		y of Deployment												
Lock & Edit	_	ration Control												
Release Configuration				ations and standalone a	application modules installe	d to this domain.								
main Structure	You car	n update (redeploy)	or delete installe	d applications and mod	ules from the domain by se	ecting the checkb	lox next	to the acc	acation name	e and then usin	a the cont	rols on this page.		
_domain ^ Comain Partitions	P Custo	al a new application mize this table yments	or module for d	ployment to targets in	this domain, click Install.									
Diagnostics Log Files	Insta	Instal Update Delete Showing 1to 7of 7 Previous Next												
- Diagnostic Modules - Built-in Diagnostic Modules		lame 🏟					State	Health	Туре	Targets	Scope	Domain Partitions	Deployment Order	
Dagnostic Images Request Performance write		coherence-transa	tion-rar				Active	¢ок	Resource Adapter	AdminServer, int-app- server	Global		100	
w do I 🖂		E CMS Applicatio	n (12.2.1.1.0)				Active	ок	Web Application	AdminServer, int-app- server	Global		5	
Configure an enterprise application Update (redeploy) an enterprise application		ii 🖓 en					Active	√ ок	Enterprise Application	AdminServer	Global		400	
Monitor the modules of an enterprise application Deploy EJB modules		🗄 🐻 opss-rest					Active	• ок	Web Application	AdminServer	Global		150	
install a Web application		E 🐻 retal-func-arti	lact-gen-gui-16.	0.21			Active	¢ок	Web Application	int-app- server	Global		100	
item Status		state-managemer	t-provider-memo	ry-rar			Active	∢ок	Resource Adapter	AdminServer, int-app- server	Global		100	
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Critical (0) Overloaded (0)	Insta	I Update D	slete									Showing 1 to	7 of 7 Previous Next	

2. Locate the **retail-func-artifact-gen-gui-<version>** on the Summary of Deployments page.

RACLE WebLogic Server Adr	ministration Cons	sole 12c										ç
ange Center	A Home Log C	Out Preference	s 🛃 Record Help	Q							Welcome, weblogic	Connected to: int_doma
ew changes and restarts		ry of Log Files >1 ary of Deploym		its >Summary of Servers >Ad	minServer >Summary of Environ	nment >S	ummary of	Deployments :	int_domain >Sk	ummary of	Deployments > retail-func	artifact-gen-gui-
ck the Look & Editbutton to modify, add or lete items in this domain.	Summary of De											
Lock & Edit	Configuration	Control M	Monitoring									
Release Configuration	This page disp	kays the list of J	lava EE applications a	nd standalone application m	odules installed to this domain.							
main Structure	You can updat	te (redeploy) or	delete installed appli	cations and modules from the	domain by selecting the check	dox next	to the ap	elication name	and then using	a the cont	rols on this page.	
domain Omain Partitions Environment Deployments Services Security Realms Intercographity	To install a ner	his table	module for deployme	nt to targets in this domain,	dix Install.							
Diagnostics Log Files	Instal Update Delete Showing I to											
Diagnostic Modules Built-in Diagnostic Modules	Name 4	ŵ				State	Health	Туре	Targets	Scope	Domain Partitions	Deployment Order
Diagnostic Images Request Performance Arrhives		rence-transactio	on-rar			Active	• ок	Resource Adapter	AdminServer, int-app- server	Global		100
w do L 🖂		MS Application ((12.2.1.1.0)			Active	• ок	Web Application	AdminServer, int-app- server	Global		5
Configure an enterprise application Update (redeploy) an enterprise application	□ ® 7 **	•				Active	¢ок	Enterprise Application	AdminServer	Global		400
Monitor the modules of an enterprise application Deploy E38 modules	E :	pss-rest				Active	ぐок	Web Application	AdminServer	Global		150
Install a Web application	□ ® @re	tal-func-artifac	t-gen-gui-16.0.21			Active	∢ок	Web Application	int-app- server	Global		100
stem Status	🗆 🤕 state	-management-p	rovider-memory-rar			Active	• ок	Resource Adapter	AdminServer, int-app- server	Global		100
alth of Running Servers as of 2:27 AM Failed (0)		sm-pm				Active	€ок	Enterprise Application	AdminServer	Global		5
Critical (0) Overloaded (0)	Instal	Ipdate Dele	te			-					Showing 1 to	7 of 7 Previous Next

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

Change Center	Home Log Out Preferences		Welcome, weblogic Connected to: int_dom
View changes and restarts	Home HSummary of Deployments HSur	nnay of Seves >AlminSeve >Sunnay of Environment >Sunnay of Opplyments >>Kulturaln >	Sennery of Diployments install funcient/fact-gengui 16.023 in Summery of Diployments install-funcient/Bectigen gui 36-0-23
Click the Look & Edit button to modify, add or delete items in this domain.	Settings for retail func-artifac	tt-gen-gui-16.0.21 Configuration Security Targets Control Testing Monitoring Notes	
Lock & Edit	Overview Depoyment Han	Computerion Security Targets Control Teleong monitoring includes	
Release Configuration	Click the Lock & Edit button in	the Change Center to modify the settings on this page.	
Domain Structure	Save		
Comain Partitions	Use this page to view the installe	ed configuration of a Web application.	
Deployments 8 Services	Names	retail-func-antifect-gen-gui-16-0.21	The name of this application deployment. More Info
Security Realms Interoperability Discretics	Scoper	Global	Specifies if this Web application is accessible within the domain, a partition, or a resource group template. More Info
Log Files Diagnostic Modules	Context Roots	/vetal-func-antifact-gan-gui-16.0.21	The specific path at which this Web application is found by a servier. More Info
-Bult-in Diagnostic Modules Diagnostic Images Request Performance	Pathe		The path to the source of the deployable unit on the Administration Server. More Info
Here do L	Deployment Plan:	(no plan specified)	The path to the deployment plan document on the Administration Server. More Info
Deploy Web applications Configure Web applications	Staging Hode:	(not specified)	Specifies whether an application's files are copied from a source on the Administration Server to the Managed Server's staging area during application preparation. More bifu
Oreate a deployment plan Test the deployment	Plan Staging Mode:	(not specified)	Specifies whether a deployment plan's files are copied from a source on the Administration Server to the Managed Server's staging area during application preparation. More Info
Monitor Web applications and serviets	Security Hodek	DDOHy	The security model specifies how this deployment should be secured. More Info
System Status II Health of Running Servers as of 2:29 AM	🐠 Deployment Orders	100	An integer value that indicates when this unit is deployed, relative to other deployable units on a server, during startup. More 2nfb
Falled (0) Ontical (0) Overloaded (0) Warving (0)	Deployment Principal Name:		A wrise value the indicates the princed the should be used when deploying the file are advised using practing and wholehows. They provide will be used to write a curver subject where calling out one application and for invariants such as Adjaceton/MergdoLimeer. 3I no principal name is specified, then the anonymous principal will be used. More shows
OK (2)	Modules and Components		
	1		Showing I to I of 1 Previous Next
	Name 🙃		Туре
	R retail-func-artifact-gen-gui-16.	0.21	Web Application
	II REST Services		
	None to display		
	III Web Services		

4. Select the **Testing** tab.

ORACLE WebLogic Server	idministration Console 12c		Q
Change Center	🏠 Home Log Out Preferences 🔛 Record H	web Q	Welcome, weblogic Connected to: int_domain
View changes and restarts	Home >int_domain >Summary of Log Files >Sum gen-gui-16.0.21	nary of Deployments >Summary of Servers >AdminServer >Summary of Environment >Sum	nary of Deployments >int_domain >Summary of Deployments >retail-func-artifact-
Click the Lock & Editbutton to modify, add or delete items in this domain.	Settings for retail-func-artifact-gen-gui-1	6.0.21	
Lock & Edit	Overview Deployment Plan Configuration	Security Targets Control Testing Monitoring Notes	
Release Configuration	Use this page to test that the deployment of t	the Web application component (WAR file) was successful.	
Domain Structure nt_domain © Comain Partitions © Great Automatic	If you select the Classicader Analysis Tool link Deployment Tests	, you must enter your Console login credentials.	
Deployments			Showing 1 to 1 of 1 Previous Next
Services Security Realms Printeroperability	Name 🌣	Test Point	Comments
E Diagnostics	B retail-func-artifact-gen-gui-16.0.21		
Log Files Diagnostic Modules	default	http:// .248:7003/retail-func-artifact-gen-gui-16.0.21	Default un on server intrapp-server
Built-in Diagnostic Modules	index.jsp	http:// .248:2003/hetal-func-artifact-gen-gui-16.0.21/index.jsp	Welcome file index.jsp on server int-app-server
Chagnostic Images Request Performance			Showing I to I of 1 Previous Next
How do L			
Test the deployment Deploy Web applications Stop deployed Web applications Delete Web applications Monitor Web applications Monitor Web applications and services Update number descriptors			
System Status			
Health of Running Servers as of 2:27 AM			
Paled (0) Oriscal (0) Overlaaded (0) Warning (0)			

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-<version> application has already been deployed, follow these steps:

- 1. Click Deployments. Click Control.
- 2. If the retail-func-artifact-gen-gui-<version> 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**.

hange Center	A Home Log Out Preferences 🐼 Record Help				Welcome,	weblogic	Connected to: int_dom
iew changes and restarts	Home >Summary of Servers >AdminServer >Summary of Environment >Summary of Deployment per-gui-16.6.21 >Summary of Deployments	ts >int_domain >Summary of D	eployments	sretal-func-artifact-p	en-gui-16-0-21 >Summary of I	Deployment	>retal-func-artifact-
ick the Lock & Editbutton to modify, add or	Summary of Deployments						
dete items in this domain. Lock & Edit	Configuration Control Monitoring						
	Comparison Comparison						
Release Configuration	This page displays the list of Java EE applications and standalone application modules instal	led to this domain.					
main Structure	You can start and stop applications and modules from the domain by selecting the checkbox	next to the application name	and then	using the controls on	this page.		
domain A							
Environment	© Customize this table						
Ceployments	Deployments						
Security Realms							
Interoperability Oragnostics	Start v Stop v When work completes		-		9	owing 1 to	7 of 7 Previous Next
-Log Files Diagnostic Modules	Name Force stop now	State	Health	Туре	Targets	Scope	Domain Partitions
Built in Diagnostic Modules Diagnostic Images	cuhere Stop, but continue servicing administration requests	Active	✓ox	Resource Adapter	AdminServer, int-app- server	Global	
Request Performance	(# DMS Application (12.2.1.1.0)	Active	≠ox	Web Application	AdminGerver, int-app- server	Global	
w do L 🛛		Active	≠ox	Enterprise Application	AdminServer	Global	
Configure an enterprise application Start applications and modules	B open rest	Active	≠ox	Web Application	AdminGerver	Global	0
Stop applications and modules	☑ ® retal-func-artifact-gen-gui-16.0.21	Active	₹ox	Web Application	int-app-server	Global	
View the modules of an enterprise application Monitor the modules of an enterprise	state-management-provider-memory-car	Active	≠ox	Resource Adapter	AdminServer, int-app- server	Global	
application	C Susangen	Active	≠ok	Enterprise Application	AdminGerver	Global	
Instem Status III III III III III III III III III I	Start v Stop v				9	owing 1 to	7 of 7 Previous Next
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3. Click Lock & Edit. Click Configuration. Select Delete.

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o pending changes exist. Click the Release		ary of Dep												
Configuration button to allow others to edit the lomain.														
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ew do L_		8 @DMS	Applicatio	on (12.2.1.1.0)				Active	√ ox	Web Application	AdminServer, int-app- server	Gobal		5
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4. Click Activate Changes.

		tion Console 12c						_				
ange Center	🚖 He	me Log Out Prefere	ences 🔝 Record Help	Q						Welcome, weblogic	Connected to: int_d	
w changes and restarts		Summary of Servers (u)-16.0.21 >Summary		y of Environment >Summary of Deployments >int,	_domain >Summary	of Deployme	nts > retail-fun	c-artifact-gen-gu	i-16.0.21 >	Summary of Deployments	>retail-func-artifact-	
k the Look & Edit button to modify, add or ete items in this domain.	Hessa											
Lock & Edit	✓ Al changes have been activated. No restarts are necessary.											
Release Configuration	Summary of Deployments											
	Configuration Control Monitoring											
main Structure												
Iomain A	This	page displays the list	of Java EE applications a	and standalone application modules installed to t	this domain.							
nvironment	You	can update (redeploy	/) or delete installed applic	cations and modules from the domain by selecti	ing the checkbox ne	xt to the ap	plication nam	e and then usin	g the cont	trols on this page.		
Deployments Services	Toir	stall a new application	n or module for deployme	ent to targets in this domain, click Install.								
Security Realms												
nteroperability Xiagnostics	Cur	tomize this table										
-Log Files												
Diagnostic Modules Built-in Diagnostic Modules	Deployments											
-Diagnostic Images	In	stall Update D	Delete							Showing 1 to	6 of 6 Previous N	
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nstall an enterprise application		Coherence-transa	Jansaction-Far	Active	✓ OK	Adapter	int-app- server	Global		100		
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odate (redeploy) an enterprise application onitor the modules of an enterprise oplication			on (12.2.1.1.0)			€ок	Application Enterprise	server			-	
odate (redeploy) an enterprise application onitor the modules of an enterprise plication sploy E38 modules		B Ben			Active	¢ок	Application Enterprise Application Web Application	server AdminServer	Global		400	
odate (redeploy) an enterprise application onfor the modules of an enterprise plototion ploy EX8 modules stall a Web application		B Ben	ent-provider-memory-rar		Active	 ✓ ок ✓ ок 	Application Enterprise Application Web	server AdminServer AdminServer	Global		400	
Indate (redeploy) an enterprise application unfor the modules of an enterprise plototon gloy EB modules stall a Web application em Status		B Ben			Active	 ✓ ОК ✓ ОК ✓ ОК 	Application Enterprise Application Web Application Resource	server AdminServer AdminServer AdminServer, int-app-	Global		400	

5. 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.

🔒 ASI	NhĐ	lescod
1	Г	<pre>crs:schema elementFormDefault+'qualified' ^ </pre>
2		targetNamespace*'http://www.oracle.com/retail/integration/base/bo/ASNInDesc/v1'
3		version="1.1"
4		xmlns="http://www.oracle.com/retail/integration/base/bo/ASMInDesc/v1"
5	Ę	xmlns:retailDoc='http://www.w3.org/2001/DMLSchema' xmlns:xs='http://www.w3.org/2001/DMLSchema'>
6	Ę	<pre><retaillocrannotation></retaillocrannotation></pre>
7		<retailloc:documentation>This is root element of this document which contains name space definitions for the document elements.</retailloc:documentation>
8		
9	Ę	<pre><xstelement name*'asminiten'=""></xstelement></pre>
10	Ę	<pre><retaildoc:annotation></retaildoc:annotation></pre>
11		<retaildoc:documentation>Description is not available.</retaildoc:documentation>
12		
13	Ę	(xs:complexType)
14	Ę	(xs:sequence)
15	Ę	<pre><xs:element name*'final_location'="" type*'varchar210'=""></xs:element></pre>
16	Ę	<pre><retaildocramotation></retaildocramotation></pre>
17		<retaildoc:documentation>Reguired if the order's pre_mark_ind is 'Y'. Validated against the ALLOC_DETAIL table. There needs to be at least one</retaildoc:documentation>
18		
19		<pre></pre>
20	Ę	<pre>xxstelement minOcours*'0' name*'item_id' type*'varchar225'></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.



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

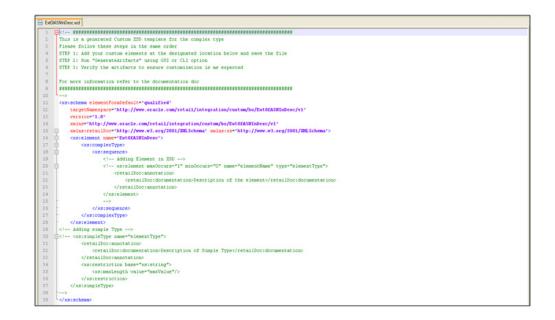
	_	
370	0 8	<retaildoctannotation></retaildoctannotation>
37;	1	<retaillocrdocumentation>Description is not available.</retaillocrdocumentation>
372	2	
373	3	
374	4 6	<pre><xs:element maxoccurs="1" minoccurs="0" ref="ExtOfASMInDeso:ExtOfASMInDeso"></xs:element></pre>
375		<retaildocrannotation></retaildocrannotation>
370	6	<retailloc:documentation>Provide an extension hook to customize ASMInDesc.</retailloc:documentation>
37	7	
378	8	
379	9	
380	0	
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.



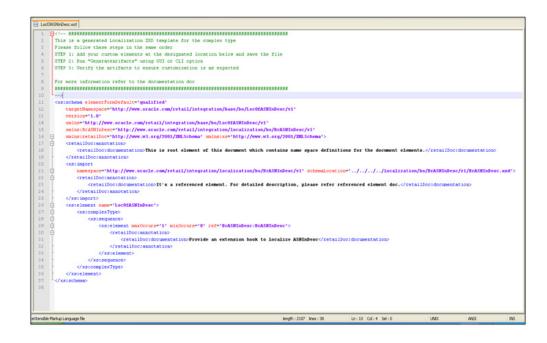


The custom template, ExtOfASNInDesc.xsd, is created from the tool, as shown in the following screen.



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

🔒 BuA	SNIn	Dencard
1	B	###################################</th
2	T	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 "GenerateArifacts" using GUI or CLI option
6 7		STEP 3: Verify the artifacts to ensure customization is as expected
8		For more information refer to the documentation doc
9		***************************************
10	1	
11		<pre>cxs:schema elementFormDefault*'qualified'</pre>
12		targetNamespace*'http://www.oracle.com/retail/integration/localization/bo/BrASMInDesc/v1'
13		version="1.0"
14		xmlms='http://www.oracle.com/retail/integration/localization/ho/BrKSWInDesc/v1*
15		xmlns:E0fBrk3NInDesc*'http://www.oracle.com/retail/integration/custom/bo/E0fBrASNInDesc/v1'
16	Ę	xmlns:retailDoc*'http://www.w3.org/2001/DE.Schema' xmlns:xs*'http://www.w3.org/2001/DE.Schema'>
17		casimport
18	₿	numespace**http://www.oracle.com/retail/integration/custom/bo/E0fBrASMInDesc/v1* schemalocation**././/custom/bo/E0fBrASMInDesc/v1/E0fBrASMInDesc.xsd*>
19	¢	<retaildocrannotation></retaildocrannotation>
20		<retaillocidocumentation>It's a referenced element. For detailed description, please refer referenced element doc.</retaillocidocumentation>
21	L.	
22	L.	
23	¢	
24	B	
25	B	
2.6	11	Adding Element in XSD
27	Ę	the contract of the contract o
28		<retailloc:annotation></retailloc:annotation>
29		<retaildoc:documentation>Description of the element</retaildoc:documentation>
30		
31		
32		>
33	B	
34	Ð	
35		<retaildoc:documentation>Provide an extension hook to Customization of Localization ASMInDesc</retaildoc:documentation>
36	1	
37		
38		
39	E.	

EOfBrASNInDesc.xsd

EOIB	WSNirDerc.xd
1	₽ ***********************************</th
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 "GenerateArifacts" 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	***************************************
1	<pre><xs:schema <="" elementformlefault="gualified" pre=""></xs:schema></pre>
2	<pre>targetNamespace*'http://www.oracle.com/retail/integration/custom/bo/E0fBrASBInDesc/v1'</pre>
3	version="1.0"
4	xmlns"http://www.oracle.com/retail/integration/custom/bo/E0fBrASWInDesc/v1"
	mlns:retailDoc*'http://www.w3.org/2001/DMLSchema' xmlns:xs*'http://www.w3.org/2001/DMLSchema'>
	Contract Con
	C (xatsequence)
9	Adding Element in XSD>
	<pre><!-- xs:element maxOccurs*T1" minOccurs*T0" name*TelementName* type*TelementType*--></pre>
1	<retaildoc:annotation></retaildoc:annotation>
2	<retaildoc:documentation>Description of the element</retaildoc:documentation>
3	
4	
5	
6	-
7	
8	
9	Adding simple Type
	<pre>cxs:sinpleType name**elementType*></pre>
1	<retaildocrannotation></retaildocrannotation>
2	<retaildocidocumentation>Description of Simple Type</retaildocidocumentation>
3	
4	<pre><xs:restriction base*'xs:string"=""></xs:restriction></pre>
5	<pre>cusimaxlength value*"maxValue"/></pre>
6	
7	
8	
9	^L xsischma

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/