

ATG WEB COMMERCE

Version 10.2

Upgrade and Migration Guide

10.1.2 to 10.2

Oracle ATG One Main Street Cambridge, MA 02142 USA

Oracle ATG Web Commerce Upgrade and Migration Guide 10.1.2 to 10.2

Document Version

ATG10.2 MIGRATIONv2 4/26/13

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1 Introduction

This guide describes how to upgrade from Oracle ATG Web Commerce 10.1.2 to 10.2. It is written for programmers, DBAs, site administrators, and ATG partners.

Before you begin migration:

- 1. Review the New in ATG 10.2 chapter for information on new features.
- 2. Check the Supported Environments information on the My Oracle Support Web site. Make sure you are running on a supported version of your application server, JDK, database server, and JDBC driver.
- 3. Review the Migration Steps Overview chapter.

This guide uses the convention $\langle ATGdi r \rangle$ to represent the root directory for ATG products. By default, the Windows installation creates the root directory C: $\langle ATG \rangle ATG10$. 2, but its actual location can vary according to your installation.

For detailed information about ATG products, see the ATG documentation on the Oracle Technology Network Web site.

Important: You must upgrade your entire Oracle ATG Web Commerce installation; you cannot upgrade only part of it. Oracle does not support running different versions of Oracle ATG Web Commerce products together. For example, using the 10.2 platform with an older version of Commerce Service Center is not supported. The platform and all applications must have the same version number.

2 New in ATG 10.2

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This chapter describes new features available in the ATG platform and applications.

Oracle ATG Web Commerce Platform Oracle ATG Web Commerce Reference Store Commerce Reference Store iOS Universal Application Oracle ATG Web Commerce Business Intelligence Oracle ATG Web Commerce Service Center

Oracle ATG Web Commerce Platform

This section describes new platform features.

Site Administration

Profile realms provide multisite profile management support. For more information, see the ATG Multisite Administration Guide.

REST Web Services

A new extensible REST *architecture* (the REST MVC Web Services API) is available in addition to the legacy REST API. For more information, see the *ATG Web Services Guide*.

ATG Content Administration

The following features are new to ATG Content Administration. For more information, see the ATG Content Administration Programming Guide.

- An extensible asset purge function removes unneeded repository items.
- Emergency workflows are now available for situations where an emergency project must be updated within minutes, bypassing standard deployment.

Oracle ATG Web Commerce

Cross-channel inventory visibility adds in-store pickup functionality, and enhances the current ATG Inventory system to accommodate multiple locations for any given SKU. For more information, see the ATG Commerce Guide to Setting Up a Store and the ATG Commerce Programming Guide.

Oracle ATG Web Commerce Merchandising

The following features are new to Oracle ATG Web Commerce Merchandising for version 10.2. For more information about these features, see the ATG Business Control Center Administration and Development Guide and the ATG Merchandising Guide for Business Users.

- New roles and access rights help control the content that business users can access in the Business Control Center.
- Configurable filters can now restrict how promotions are applied to qualifiers and target items.
- In Oracle ATG Web Merchandising layout view, Promotions Visibility features analyze how promotions behave when preview users shop for items. You can also edit promotions directly from layout view.
- Promotions now support non-discountable items.
- The workbench pane that appears at the top of the Merchandising window bookmarks assets for organization and editing. (Previously, the workbench could be used only for Multi Edit operations.)
- New UI for working with internal, preview, and external users.
- New Store Location assets contain information about physical "brick and mortar" stores, such as addresses and hours.
- The existing rich text editor has been replaced with FCKeditor HTML editor. FCKeditor is installed automatically with the Oracle ATG Web Commerce applications that require it.
- In multisite environments, administrators can limit Merchandising users' access to catalog assets and promotions based on their site affiliation.
- All personalization items can be configured to use site groups.

Oracle ATG Web Commerce Reference Store

The following features are new to Oracle ATG Web Commerce Reference Store for version 10.2. For more information about these features, see the ATG Commerce Reference Store Overview.

- Updated code to improve checkout performance.
- Example of Oracle ATG Web Commerce returns functionality.
- Optional integration with Oracle RightNow Knowledge Cloud Service, which displays context-sensitive knowledgebase and support information.
- Integration with Oracle Endeca Commerce. All search facilities use Oracle Endeca Commerce and the Commerce Reference Store category pages and search results pages are Endeca-driven.
- A build environment allows you to quickly and easily rebuild the Commerce Reference Store modules using the Apache Ant build tool.

Note: There is no migration path from older versions of Commerce Reference Store to version 10.2. To use version 10.2, install and configure a new instance of Commerce Reference Store using the instructions in the *ATG Commerce Reference Store Installation and Configuration Guide*.

Commerce Reference Store iOS Universal Application

ATG Web Commerce 10.2 includes the first release of the Commerce Reference Store iOS Universal Application (CRS-IUA) that serves both iPhone and iPad. For more, see the *CRS-IUA Overview*.

Oracle ATG Web Commerce Business Intelligence

The following features are new to Oracle ATG Web Commerce Business Intelligence. For more information, see the *ATG Data Warehouse Guide* and the *ATG Reports Guide*.

- Data aggregation to improve reporting performance in the Business Intelligence data warehouse.
- Usability improvements in Business Intelligence reports.

Oracle ATG Web Commerce Service Center

The following features are new to Oracle ATG Web Commerce Service Center. For more information, see the ATG Commerce Service Center Installation and Programming Guide and the ATG Commerce Service Center User Guide.

- Optional integration with Oracle Endeca Commerce for catalog search.
- Commerce Service Center can be configured to use in-store pickup, which allows the customer to go to a store near them and pickup the merchandise. Returns with instore pickup are also supported.
- Support for profile realms, which provide multisite profile management support.
- Optional integration with Oracle Live Help On Demand Click to Call.

3 Migration Steps Overview

Migrating from ATG 10.1.2 to ATG 10.2 can be divided into the following stages:

Pre-Migration Tasks ATG installation Database Schema Migration Application-Specific Migration Tasks Post-Migration Tasks Migration Testing

Pre-Migration Tasks

Note: In addition to the tasks listed here, a number of applications have their own pre-migration requirements. Before starting the migration, check the instructions for each installed application, under Migration Notes.

Before starting migration, complete the following tasks:

- 1. Back up your ATG 10.1.2 database.
- 2. Back up all of your Publ i shi ng and Publ i shi ngAgent directories—-for example, these CIM-generated directories under <ATG10di r>/home/servers/:
 - atg_publ i shi ng_l ockserver/Publ i shi ng
 - atg_production_lockserver/PublishingAgent
- **3.** If your installation includes ATG Content Administration, complete all projects.

Note: Solution workflow projects can remain open during the migration process.

- **4.** Shut down any Oracle ATG Web Commerce Outreach campaigns and Campaign Optimizer tests that are running.
- 5. Process all reporting event logs. On the data warehouse load server, execute the loadAllAvailable method on all loaders in /atg/reporting/datawarehouse/loaders/.
- 6. Shut down all ATG servers.
- 7. Shut down any search engines your environment uses.
- **8.** Remove ATG artifacts, such as server instances, EAR files, and data sources, from the application server.

ATG Installation

- 1. Install ATG 10.2 as directed in the ATG Installation and Configuration Guide.
- 2. Download the migration kits necessary for your products. Create the following directories as necessary and unpack the migration kits to the new directories:
 - Oracle ATG Web Commerce platform:
 - <ATGdir>/migration/101to102sql
 - Oracle ATG Web Commerce Service Center: <ATGdi r>/
- **3.** Copy your existing configuration files and application modules to the ATG 10.2 installation. Update application code as necessary to conform to new ATG 10.2 functionality (see the Migration Notes chapter).
- **4.** Copy the directories listed from your ATG 10.1.2 installation into your ATG 10.2 installation:

/home/Publ i shi ng/versi onFi l eStore
/home/servers/atg_svcagent_l ockserver/publ i shi ng
/home/servers/atg_producti on_l ockserver/Publ i shi ngAgent
/home/servers/atg_svcagent_l ockserver /Publ i shi ngAgent
/home/servers/atg_stagi ng/Publ i shi ngAgent

 If you use a Publishing Web Agent server, copy /home/Publ i shi ngWebAgent from your ATG 10.1.2 installation to your ATG 10.2 installation.

Database Schema Migration

Several migration kits are available for upgrading the schemas of supported databases: Oracle, MSSQL, and DB2. Migration kits are available for download from My Oracle Support.

The following migration kits are available for ATG products:

- Oracle ATG Web Commerce platform
- Oracle ATG Web Commerce Service Center

Each migration kit contains three database-specific directories:

/db_components/oracle /db_components/db2 /db_components/mssql

Run the scripts in these directories as directed in the Database Migration chapter.

Batch Files versus SQL Scripts

The batch files/shell scripts run all required DDL scripts in the correct order. Instead of running batch files/shell scripts, you can execute individual SQL scripts. Be sure to run these in the same order as they appear in the batch file or shell script.

Before Running Migration Scripts

Review the migration scripts and modify where necessary. Make sure the scripts do not overwrite custom database changes. In order to run these scripts, your database login must be the same as the one used to create the original ATG 10.2 schemas.

Before you run the migration batch files or shell scripts, include a dot (.) in the PATH environment variable to enable execution of DDL script commands that may be internally called.

Running Batch Files

Use the syntax shown in the following sections to run batch files or shell scripts.

Oracle

filename. {bat | sh} user-acct password tns-alias

- *user-acct*: Name of the schema user account
- *password*: Password to the user account
- *tns-alias*: TNS name for the database

MSSQL

filename. bat user-acct password hostname db-schema

- *user-acct*: Name of the schema user account
- password: Password to the user account
- *host name*: Host name of the database server
- *db-schema*: Name of the database schema

DB2

filename. {bat | sh} user-acct password DB2-alias

- *user-acct*: Name of the schema user account
- password: Password to the user account
- DB2-al i as: Alias for the DB2 database

Running DDL Scripts

Use the syntax shown in the following sections to run DDL scripts.

Oracle

sqlplus -S user-acct/password@tns-alias < ddl-pathname > logfile

MSSQL

sqlcmd -U user-acct -P password -S hostname -d db-schema
-i ddl-pathname -o logfile

DB2

db2 -tvf ddl-pathname > logfile

Application-Specific Migration Tasks

After completing all tasks described in previous sections, complete migration for specific ATG applications as documented under Migration Notes.

Post-Migration Tasks

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After migration is complete, perform the following tasks:

- 1. If using ATG Content Administration, update view mappings to receive user interface updates.
- 2. If using ATG Content Administration, it is good practice to launch a full deployment to all workflow targets. This ensures that content is fully synchronized between the asset management server and workflow targets.

Note: Before launching a full deployment, remap the repositories for your site in the CA Console. This step is necessary because a number of repositories (such as ProductCatal og and Site) are secured by default in this release.

- 3. Clear browser caches.
- 4. Clear the application server cache.

For example, on JBoss, empty the contents of each server directory: /work/j boss. web/l ocal host

- 5. It is good practice to restart any existing scenarios.
- 6. Test the upgraded platform and applications (see Migration Testing).

Migration Testing

To verify the success of your migration on asset management and production servers, follow these steps:

- Assemble EAR files for the asset management and production servers.
 Important: If you installed and configured a preview server and imported preview data from DPS- UI /i nstal l /data/vi ewmappi ng_previ ew. xml,
 Si teAdmi n/Versi oned/i nstal l /data/vi ewmappi ng_previ ew. xml, and DCS-UI /i nstal l /data/vi ewmappi ng_previ ew. xml, you must assemble the versioned preview application and the Business Control Center with the -l ayer Previ ew switch. For more information about setting up preview, see the Business Control Center Administration and Development Guide.

 Deploy the EAR files to the application server and start the production and asset
- management servers.
- 3. From the ATG 10.2 Business Control Center, verify that you can view:
 - All internal users created in ATG 10.1.2
 - All assets created in ATG 10.1.2
- **4.** Confirm that the ATG 10.2 production server contains all assets that were accessible on the ATG 10.1.2 platform.

- 5. Create projects, where you add new assets and edit existing ones. Deploy these assets and verify that the deployment is successful.
- 6. Confirm that deployed file assets are in the correct location and behave as expected.

4 Database Migration

ATG 10.2 includes a number of enhancements to the database schemas used by ATG 10.1.2. The migration kits provide the batch files/shell scripts and DDL scripts needed to upgrade existing schemas in the following migration kit directory:

- Oracle:
 - ../db_components/*oracle*
- DB2:
 - ../db_components/db2
- MSSQL:
 - ../db_components/mssql

Note: Due to the merging of B2B and B2C features in Oracle ATG Web Commerce 10.1, separate B2B migration scripts are no longer required.

The scripts for Oracle and DB2 databases are the same, but located in different directories. Use the specified scripts to migrate your Oracle ATG Web Commerce platform database. Scripts can be found in the platform migration kit unless otherwise specified.

Production Core Schema Migration Scripts Switching Schema Migration Scripts Publishing Schema Migration Scripts Data Warehouse Schema Migration Scripts Agent Schema Migration Scripts

Also see the Data Migration chapter for additional scripts that may be required, depending on your installed products.

Note: Some Commerce Service Center scripts drop unnecessary tables and create new ones. If your environment does not already include ATG Knowledge Manager and Self Service, the drop logs will contain errors for tables or views that do not exist.

Production Core Schema Migration Scripts

If you do not use a switching database, run the scripts listed in both this section and the Switching Schema Migration Scripts section on your production core schema. It is strongly recommended to use a switching schema with ATG products.

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Product	Migration Script	Prerequisites
Oracle ATG Web Commerce Platform	run_das_core. {bat sh} run_dps_core. {bat sh}	None
Oracle ATG Web Commerce	run_dcs_core. {bat sh}	ATG Platform
Oracle ATG Web Commerce Service Center	run_service_production. {bat sh}	ATG Platform; ATG Search or Endeca MDEX; B2CCommerce or Commerce Reference Store

Switching Schema Migration Scripts

Product	Migration Script	Prerequisites
Oracle ATG Web Commerce	run_dcs_switching_all.{bat sh}	ATG Platform
Oracle ATG Web Commerce Service Center	run_servi ce_swi tchi ng. {bat sh}	ATG Platform

Publishing Schema Migration Scripts

Product	Migration Script	Prerequisites
Oracle ATG Web Commerce	run_publ i shi ng_dcs_al l . {bat sh}	ATG Platform
Oracle ATG Web Commerce Service Center	Run_service_management. {bat sh}	ATG Platform

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Data Warehouse Schema Migration Scripts

Product	Migration Script	Prerequisites
Base data warehouse	<pre>run_arf_dw_base. {bat sh}</pre>	None
Oracle ATG Web Commerce	run_dcs_dw. {bat sh}	Base data warehouse

Agent Schema Migration Scripts

Product	Migration Script	Prerequisites
Oracle ATG Commerce	Platform migration kit: run_publ i shi ng_al l . {bat sh}	None
Service Center	Service migration kit: run_servi ce_agent. {bat sh}	

5 Data Migration

After updating your database schemas, you may need to perform additional steps that affect the data in your database and repositories. The sections that follow explain how to perform these tasks.

This chapter includes the following sections:

Updating View Mappings Updating Internal Users ATG Commerce Service Center Framework Migration

Updating View Mappings

Many ATG user interfaces rely on view mappings. After you run the appropriate migration scripts for your environment, you must update your view mappings.

Before importing any view mappings, you must configure the data sources used by the import utility. Configure a home/l ocal config/atg/dynamo/service/jdbc/FakeXADataSource.properties file to refer to your publishing schema, and another with the name FakeXADataSource_production.properties for your production schema. An example FakeXADataSource file that refers to the publishing schema follows:

\$cl ass=atg. servi ce. j dbc. FakeXADataSource
dri ver=oracl e. j dbc. Oracl eDri ver
URL=j dbc: oracl e: thi n: @your_host_name: 1521: utf8112
user=username
password=password

If you are using switching data sources, configure the following files:

- FakeXADataSource_switchA. properties to refer to your SwitchingA schema.
- FakeXADataSource_switchB. properties to refer to your SwitchingB schema.
- SwitchingDataSourceA. properties to refer to your FakeXADataSource_switchA. properties file.
- SwitchingDataSourceB. properties to refer to your FakeXADataSource_switchB. properties file.

For example:

\$cl ass=atg. servi ce. j dbc. Moni toredDataSource
dataSource=/atg/dynamo/servi ce/j dbc/FakeXADataSource_swi tchA

Run the following scripts on the Asset Management servers for all products:

/bin/startSQLRepository -m BIZUI -repository /atg/web/viewmapping/ViewMappingRepository -import "<ATGdir>/home/../BIZUI/install/data/viewmapping.xml"

bin/startSQLRepository -m BCC - repository
/atg/web/viewmapping/ViewMappingRepository - import
"<ATGdir>/home/../BCC/install/data/viewmapping.xml"

bin/startSQLRepository -m DPS-UI -repository
/atg/web/viewmapping/ViewMappingRepository -import "<ATGdir>/home/../DPS-UI/AccessControl/install/data/viewmapping.xml"

bin/startSQLRepository -m DPS-UI -repository
/atg/web/viewmapping/ViewMappingRepository -import "<ATGdir>/home/../DPS-UI/install/data/viewmapping.xml"

bin/startSQLRepository -m AssetUI -repository
/atg/web/viewmapping/ViewMappingRepository -import
"<ATGdir>/home/../AssetUI/install/data/viewmapping.xml"

bin/startSQLRepository -m AssetUI -repository
/atg/web/viewmapping/ViewMappingRepository -import
"<ATGdir>/home/../AssetUI/install/data/assetManagerViews.xml"

bin/startSQLRepository -m SiteAdmin. Versioned -repository
/atg/web/viewmapping/ViewMappingRepository -import
"<ATGdir>/home/../SiteAdmin/Versioned/install/data/viewmapping.xml"

bin/startSQLRepository -m DPS-UI.Versioned -repository
/atg/web/viewmapping/ViewMappingRepository -import "<ATGdir>/home/../DPS-UI/Versioned/install/data/viewmapping.xml"

bin/startSQLRepository -m DPS-UI.Versioned -repository
/atg/web/viewmapping/ViewMappingRepository -import "<ATGdir>/home/../DPS-UI/Versioned/install/data/examples.xml"

bin/startSQLRepository -m DPS-UI -repository
/atg/web/viewmapping/ViewMappingRepository -import "<ATGdir>/home/../DCS-UI/install/data/viewmapping.xml"

bin/startSQLRepository -m DPS-UI.Versioned -repository
/atg/web/viewmapping/ViewMappingRepository -import "<ATGdir>/home/../DCS-UI/Versioned/install/data/viewmapping.xml"

bin/startSQLRepository -m DCS-UI.SiteAdmin.Versioned -repository
/atg/web/viewmapping/ViewMappingRepository -import "<ATGdir>/home/../DCS-UI/SiteAdmin/Versioned/install/data/viewmapping.xml"

Important: Before running the Import DCSUI SearchCustomCatal ogs script, comment out the following:

bin/startSQLRepository -m DCS.Search.CustomCatalogs.Versioned -m
DCS.Versioned -repository /atg/search/repository/RefinementRepository import "\${DYNAMO_HOME}/../DCS-UI/Search/install/data/refinement.xml" workspace RefinementRepositoryImport:main -comment GlobalFacetDefinition

After making the change, run the following scripts:

 $<\!\!ATGdir\!>\!\!/home/../DCS-UI/Search/install/importDCSUISearchCustomCatalogs.sh$

bin/startSQLRepository -m BIZUI -repository
/atg/web/viewmapping/ViewMappingRepository -import "\${DYNAMO_HOME}/../DCS
-UI/Search/install/data/viewmapping.xml"

bin/startSQLRepository -m BIZUI -repository
/atg/web/viewmapping/ViewMappingRepository -import "\${DYNAMO_HOME}/../DCS
-UI/Search/install/data/flex/viewmapping.xml"

bin/startSQLRepository -m BIZUI -repository
/atg/web/viewmapping/ViewMappingRepository -import
"\${DYNAMO_HOME}/../AssetUI/Search/install/data/viewmapping.xml"

Important: Run the following three scripts only if you installed and configured a preview server on your Asset Management server. These import scripts configure some viewmapping components specifically for preview and require the preview layer. (For more information, see Migration Testing.)

bin/startSQLRepository -m DPS-UI -repository
/atg/web/viewmapping/ViewMappingRepository -import "<ATGdir>/home/../DPS-UI/install/data/viewmapping_preview.xml"

bin/startSQLRepository -m SiteAdmin. Versioned -repository
/atg/web/viewmapping/ViewMappingRepository -import
"<ATGdir>/home/../SiteAdmin/Versioned/install/
data/viewmapping_preview.xml"

bin/startSQLRepository -m DCS-UI -repository
/atg/web/viewmapping/ViewMappingRepository -import "<ATGdir>/home/../DCS-UI/install/data/viewmapping_preview.xml"

Updating Internal Users

This section describes how to import new roles and access rights for all existing internal users. In this release, a number of repositories, such as ProductCatal og, SEORepository, and Site, are secured by default using these roles and access rights in their ACLs.

Before importing any internal user data, you must configure the data sources used by the import utility. Configure a home/l ocal config/atg/dynamo/service/j dbc/FakeXADataSource.properties file to refer to your publishing schema, and another named FakeXADataSource_production.properties for your production schema. An example FakeXADataSource file that refers to the publishing schema follows:

```
$cl ass=atg. servi ce. j dbc. FakeXADataSource
dri ver=oracl e. j dbc. Oracl eDri ver
URL=j dbc: oracl e: thi n: @your_host_name: 1521: utf8112
user=username
password=password
```

If you are using switching data sources, configure the following files:

- FakeXADataSource_switchA. properties to refer to your SwitchingA schema.
- FakeXADataSource_switchB. properties to refer to your SwitchingB schema.
- SwitchingDataSourceA. properties to refer to your FakeXADataSource_switchA. properties file.
- SwitchingDataSourceB. properties to refer to your FakeXADataSource_switchB. properties file.

For example:

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\$cl ass=atg. servi ce. j dbc. Moni toredDataSource
dataSource=/atg/dynamo/servi ce/j dbc/FakeXADataSource_swi tchA

Run the following scripts on the Asset Management servers for all products:

<ATGdi r>/home/../DPS/Internal Users/install/importDPSInternalUsers.bat|sh

/bin/startSQLRepository -m DPS. Internal Users - repository /atg/userprofiling/InternalProfileRepository -import "<ATGdir>/home/../DPS/InternalUsers/install/data/searchadmin-security.xml"

/bin/startSQLRepository -m DCS. Versioned -repository
/atg/userprofiling/InternalProfileRepository _import
"<ATGdir>/home/../ DCS/Versioned/install/data/internal-users-security.xml"

Important: Before running users. xml, comment out the following line:

<set-property name="password"><![CDATA[\${merchandisingPassword}]]></setproperty>

After making the change, run the following script:

/bin/startSQLRepository -m DPS-UI.Versioned -repository /atg/userprofiling/InternalProfileRepository -import "<ATGdir>/home/../DCS-UI/Versioned/install/data/users.xml"

/bin/startSQLRepository -m DSS.InternalUsers -repository /atg/userprofiling/InternalProfileRepository _import "<ATGdir>/home/../Publishing/base/install/epub-role-data.xml"

/bin/startSQLRepository -m SiteAdmin. Versioned -repository /atg/userprofiling/InternalProfileRepository -import "<ATGdir>/home/../SiteAdmin/Versioned/install/data/siteadmin-roledata.xml"

/bin/startSQLRepository -m BIZUI -repository /atg/userprofiling/InternalProfileRepository -import "<ATGdir>/home/../BIZUI/install/data/profile.xml"

Important: Before running profile. xml, comment out the following line:

<set-property name="password"><![CDATA[\${adminPublishingPassword}]]></setproperty>

After making the change, run the following script:

/bin/startSQLRepository -m BIZUI -repository
/atg/userprofiling/InternalProfileRepository -import
"<ATGdir>/home/../WebUI/install/data/profile.xml"

Important: Before running the dynAdmi nRepo. xml script, comment out the following:

set-property name="password"><! [CDATA[\${dynAdminPassword}]]></setproperty>

After making the change, run the following scripts:

/bin/startSQLRepository -m DAS -repository /atg/dynamo/security/AdminSqlRepository -import \$DYNAMO_HOME/../DAS/install/data/dynAdminRepo.xml

/bin/startSQLRepository -m WebUI -repository /atg/userprofiling/ProfileAdapterRepository -import \$DYNAMO_HOME/../WebUI/install/data/external_profile.xml

After you have imported all new roles, run the following script from Oracle ATG Web Commerce platform migration kit:

run_upgrade_dps_internal_user_roles. {bat|sh}

Note: To update Commerce Service Center roles, see Updating Commerce Service Center Roles.

ATG Commerce Service Center Framework Migration

This procedure is necessary only if you have custom framework data.

1. If you are using a non-switching datasource, configure the <ATG10di r>/home/servers/agent_i mport101to102/l ocal config/atg/svc/ui /framework/Servi ceFrameworkReposi tory_read. properti es file as shown:

 $dataSource=/atg/dynamo/servi\,ce/j\,dbc/JTDataSource_producti\,on$

If you are using a switching datasource, configure
<ATGdi r>/home/servers/agent_import100to101/local config/atg/svc/ui/f
ramework/Servi ceFrameworkReposi tory_read. properti es as shown:

dataSource=/atg/dynamo/service/jdbc/SwitchingDataSourceA

- 2. Create a <ATGdi r>/home/l ocal config/atg/svc/framework/directory.
- 3. Change to the <ATGdi r>/Servi ce10. 2/Servi ce/DBMi grati on/FrameworkDataMi grati on/scr i pts directory.
- 4. Change to the <ATGdi r>/../Servi ce10. 2/Servi ce/DBMi grati on/ FrameworkDataMi grati on/scripts directory and run the following script:

run_csc_framework_data_mi gration. {bat|sh} agent_i mport101to102
This script creates an <ATG10di r>/home/l ocal config/atg/svc/
framework/service_framework_csc. xml file that identifies differences between

- default databases and your customized databases.
- 5. Rename the output XML file that is generated by the script you run to servi ceFramework. xml and add it to your customization module.

- 6. Back up the <ATGdi r>/home/l ocal config/atg/svc/framework/ directory.
- 7. Reassemble and redeploy your production and agent servers.

6 Migration Notes

Each section in this chapter focuses on applications that have their own migration-related requirements, beyond the database schema changes described in the previous chapter.

Any applications not listed here can be assumed to have no additional migration steps.

This chapter contains the following sections:

Oracle ATG Web Commerce Notes ATG Commerce Returns Migration Notes Updating Commerce Service Center Roles Oracle ATG Web Commerce Reference Store Notes Oracle ATG REST Web Services Notes Oracle ATG REST Web Services Migration Examples

Oracle ATG Web Commerce Notes

A major feature of ATG 10.1 was the merge of Commerce B2B and B2C features. Due to this merge, you must make changes to your Oracle ATG Web Commerce B2B applications (B2C applications do not need to make any changes). However, you did not need to make these changes when you migrated to ATG 10.1.

If you decided to postpone your application changes when you upgraded to 10.1, you must make them now as part of the 10.2 upgrade because the B2BCommerce module has been removed from this release. The rest of this section describes these changes.

First, change any manifest. MF entries that refer to either the B2BCommerce or B2CCommerce modules. Both types of application should refer to the DCS module directly.

Second, if you have extended any of the pipeline chains in commercepi peline. xml, examine your XML files to make sure they get the desired results. The merge inserts some formerly-B2B pipeline links into the chains. It also moves three links (setStimul usMarkers, setSal esChannel, setSubmittedSite) to an earlier position in the processOrder chain than they had in previous Commerce versions. If you have altered those links, you may need to do so again to preserve transitions.

Third, any B2B code you have written that expects a return type in the atg. b2bcommerce package must change its declaring type to the corresponding superclass in the atg. commerce package. All B2B-specific methods were moved into DCS and their return type changed to the superclass. Failure to make this change will result in compilation errors.

For example, the following code will result in errors:

import atg. b2bcommerce. order. CostCenterManager import atg. b2bcommerce. order. CostCenter CostCenterManager costCenterManager; CostCenter newCostCenter;

costCenterManager =
Nucleus.getGlobalNucleus.resolveName("/atg/commerce/order/CostCenterManager");

newCostCenter = costCenterManager.createCostCenter("identifier");

The last line would result in a compile-time "incompatible types" error now that the createCostCenter method returns atg. commerce. order. CostCenter instead of atg. b2bcommerce. order. CostCenter.

You can fix this by changing the import to atg. commerce. order. CostCenter.

Updating Commerce Service Center Roles

These steps insure that the rights and roles for Commerce Service Center are migrated correctly:

- 1. Run the agent schema migration with the exception of the upgrade_svc_super_admin_role. sql file.
- 2. Configure the /atg/dynamo/servi ce/j dbc/FakeXADataSource. properti es file to point to your agent schema in your agent import server. For example: DYNAMO_HOME/servers/agent import server/local config/atg/dynamo/servi ce/j dbc/FakeXADataSource. properites).
- **3.** Remove or rename the JTDataSource and Di rectJTDataSource files if they exist on your import server. Revert these changes after you run the scripts.
- Run the Servi ce10. 2/mi grati on/101to102sql/scripts/run-agentimport. bat|sh script.
- 5. Run the Servi ce10. 2/mi grati on/101to102sql/db_components/ db_type/run_upgrade_svc_super_admi n_rol e. bat | sh user_name password db_speci fi c_al i as script.

After you have migrated your database schemas and data, perform the following post-migration procedure: Create Search Environment.

Create Search Environment

After completing the database migration tasks (see the pertinent section for your database), you must create an ATG Search live indexing search environment to perform profile and order searches. Oracle ATG Web Commerce Service Center uses an embedded search method for customer profile and order searches that are included in the DPS. Search. Index and DCS. Search. Order. Index modules on each customer-facing and asset management server. For additional information, refer to the ATG Commerce Service Center Installation and Programming Guide.

- 1. Open the Dynamo Server Admin on the agent server.
- 2. Open the Nucleus component /atg/search/routing/LiveIndexingService.

- **3.** Create the ATGProfile search environment by entering the details of your search engine.
- **4.** Create the ATGOrder search environment by providing the search engine information.
- 5. Open the component /atg/userprofiling/search/ProfileOutputConfig and execute the bulkLoad method.
- **6.** Open the component /atg/commerce/search/OrderOutputConfig and execute the bulkLoad method.

Framework Definition Changes

If you have any custom code that uses Servi ceFrameworkHomes, you must modify your customizations to now use Servi ceFrameworkXMLHomes, as the Servi ceFrameworkHomes class has been removed.

The Servi ceFrameworkXMLHomes component can now be accessed using the following two ways:

• Using a component reference such as:

protected ServiceFrameworkXMLHomes mServiceFrameworkXMLHomes;

• Using a static call such as:

atg. svc. framework.repository.beans.ServiceFrameworkXMLHomes.getServiceFrameworkXMLHomes()

This method provides an instance of Servi ceFrameworkXMLHomes.

ATG Commerce Returns Migration Notes

The current Commerce Service Center components and class names will be inherited in core Commerce to facilitate backward compatibility.

Java Packages

The following Java packages have been moved from the DCS-CSR module into the DCS module:

- atg. commerce. csr. returns
- atg. commerce. csr. pricing. calculators
- atg. reporting. datawarehouse. commerce. csr
- atg. commerce. order. edit

Nucleus Name Spaces

The following directories have been moved from the DCS-CSR module into the DCS module:

- /atg/commerce/custsvc
- /atg/commerce/custsvc/returns
- /atg/commerce/custsvc/returns/processor
- /atg/reporting/datawarehouse/process/
- /atg/reporting/datawarehouse/process/custsvc/handlers
- /atg/reporting/datawarehouse/process/custsvc/

• /atg/reporting/datawarehouse/loaders/custsvc/

File Locations

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The following files were moved from the DCS-CSR module into the CSR module. Unless otherwise noted, all files remain in the same directory structure.

- /atg/commerce/custsvc
 - CsrRepository. properties
 - CsrRepository. xml
- /atg/commerce/custsvc/returns
 - CloneReturnWorkingOrder. properties
 - CreditCardCopier. properties
 - Di sposi ti onLookup. properti es
 - GetRelatedReturnRequests. properties
 - GiftCertificateCopier. properties
 - InitializePEOProperties. properties
 - InitializeRA0Properties. properties
 - InitializeRCOProperties. properties
 - InitializeReturnWorkingOrderState.properties
 - LostPromotions. properties
 - NonReturnItemDetailsDroplet.properties
 - PaymentGroupCopyManager. properties
 - ReturnDroplet. properties
 - ReturnItemStateDescriptions.properties
 - ReturnItemStates. properties
 - ReturnManager. properti es
 - ReturnReasonLookupDroplet.properties
 - ReturnStateDescriptions. properties
 - ReturnStates. properties
 - ReturnTools. properties
 - StoreCreditCopier. properties
 - Note: The following files remain in the DCS-CSR module:
 - IsBal ancingPaymentGroup. properties
 - IsReturnExchange. properties
 - Modi fyRefundVal uesFormHandl er. properties
 - ProfileSearch. properties
 - ReturnFormHandler.properties
 - ReturnLookup. properties
 - ReturnsDataHol der. properties
 - StartReturnExchangeProcess. properties
- /atg/commerce/custsvc/pricing/calculators
 - ExchangeItemAdjustmentCalculator.properties

- ExchangeOrderAdjustmentCal cul ator. properti es
- ExchangeOrderDi scountCal cul ator. properti es
- ExchangePromotionEvaluationUpdateCalculator.properties

IsReturnExchange Droplet

In the DCS module, the IsReturnExchange droplet has been refactored into the IsReturnActive and GetReturnRequest droplets. The DCS-CSR module continues to use the IsReturnExchange droplet.

IsItemReturnable Droplet

The IsItemReturnable and OrderIsReturnable droplets have been pushed into an IsReturnable class and droplet in the DCS module.

CSC will continue to use I sI temReturnabl e and OrderI sReturnabl e. All implementations call into the ReturnTool s i sReturnabl e API. Customizations to the returnable business logic should be made by extending ReturnTool s.

The following API in the IsItemReturnable and OrderIsReturnable droplet will be deprecated and no longer called:

```
protected boolean isOrderReturnable(RepositoryItem pOrder)
{
   return getReturnManager().getReturnTools().isReturnable(pOrder);
}
protected boolean isItemReturnable(RepositoryItem pItem)
{
   return getReturnManager().getReturnTools().isItemReturnable(pItem);
}
```

The new API for this is:

```
protected String getOrderReturnableState(RepositoryItem pOrder)
{
  return getReturnManager().getReturnTools().getOrderReturnableState
    (pOrder);
}
protected String getItemReturnableState(RepositoryItem pItem)
{
  return getReturnManager().getReturnTools().getItemReturnableState
    (pItem);
}
```

These I sI temReturnabl e and i sOrderReturnabl e API changes require that customers who have extended this API change from an ISx to the GETx methods and use return states.

ReturnFormHandler

The following handlers have been deprecated and are no longer supported:

- handleStartReturn
- handl eStartExchange
- handleSelectReturnItems

CRSAgentTools

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The following changes have been made to the CRSAgentsTool API:

Method	Description
addBypassExpi redPromoti onsCheckParameter addBypassPaymentGroupAuthorizati onParameter	Deprecated and moved to 0rderTool s. Older versions of this method point to the new location.
addBypassPromoti onVetoersParameter addI temPri ceSourceParameter	Deprecated and moved to Pri ci ngTool s. Older versions of this method point to the new location.
i sOrderFul filled i sFul filledOrderState getFul filledOrderStates createPromotionValueMap	Deprecated and moved to ReturnTool s. Older versions of this method point to the new location.
getRemai ni ngAmount	Deprecated and moved to Cl ai mabl eTool s. Older versions of this method point to the new location.
setFulfilledOrderStates	Deprecated and removed.

ReturnTools

The following changes have been made to the ReturnTool s API:

Method	Description
i sReturnabl e	Remove linkage to CSRAgentTool s. i s0rderSupported
repri ceCurrent ExchangeOrder	No longer links to CSRAgentTool s, ExchangePri ci ngModel Hol der and Envi ronmentTool s. Now calls pri ceOrderTotal directly in Pri ci ngTool s, uses empty promotion Collections instead of the ExchangePri ci ngModel Hol der, gets the locale from Local eTool s and the customer profile from the ReturnRequest. For example:
	<pre>Map params = addExchangeOrderPricingParams(null, pReturnRequest); getPricingTools().priceOrderTotal(replorder, Collections.EMPTY_LIST, Collections.EMPTY_LIST, Collections.EMPTY_LIST, localeTools.getUserLocaleHelper().getLocale(),</pre>

Method	Description
	<pre>pReturnRequest.getProfile(), params);</pre>
repri ceWorki ngOrder	No longer links to CRSAgentTool s. Now calls SiteContextManager directly.
generatePromoti onVal ue Adj ustmentMap	No longer links to CSRAgentTools. but to PromotionTools.
getPromotionsLost	No longer links to CSRAgent Tools but to Promotion Tools.

Schema Changes

The DDL for the Returns repository is currently defined by the DCS- CSR_ddl . xml file. The CsrRepository specific DDL is now located in /templ ates/DCS/sql /order_returns_ddl . xml .

The following tables have been removed from the schema:

- csr_exch_repl_item
- csr_exch_repl_itms

The following columns have been removed:

- csr_exch_itemtable:bonus_refund
- csr_sc_exch_method table: fixed_amount and bonus_credit

Oracle ATG Web Commerce Reference Store Notes

ATG Commerce Reference Store (CRS) was rewritten for the 10.2 platform. To use the 10.2 version, install and configure a new CRS instance as described in the *ATG Commerce Reference Store Installation and Configuration Guide*.

If an application is based on an earlier version of CRS, follow the migration steps described elsewhere in this guide.

Integration with Oracle Endeca Commerce

Oracle Endeca Commerce integration with CRS 10.2 requires Oracle Endeca Commerce version 3.1.2.

Oracle ATG REST Web Services Notes

The following section provides information about migrating from the legacy REST API version and the REST MVC framework that is new in Oracle ATG Web Commerce 10.2. System integrators are encouraged to use the new framework instead of the old one. This can be done piece-meal, moving Legacy REST API calls over as needed to the REST MVC framework.

JSP Templates

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REST MVC uses JSP actors, which differ slightly from the Legacy REST JSP template. Instead of writing out JSON tags, the REST MVC JSP page writes variables to request attributes, which are mapped to a Model Map. The Model Map is output to either JSON or XML using a ResponseGenerator.

Legacy REST JSP templates can be re-applied using REST MVC JSP actors:

```
<j sp id="di splayCart" page="/orderDetail.jsp" context="mobile"
    response-var="orderJSON" >
    <output id="orderOut" name="order" value="${orderJSON}"
    embed-for-mime-type="application/json"/>
    </jsp>
```

REST Security Configuration

The restSecuri tyConfiguration. xml file is deprecated in the REST MVC framework. The restSecuri tyConfiguration. xml file defined Legacy REST resources for /rest/bean components, and defined which methods and properties on the component were accessible. However, there is no security for Legacy REST JSP templates.

Note: The Legacy REST configuration will continue to use RestSecurityConfiguration. xml and fitleringConfiguration. xml without modification.

The following is an example of a Legacy REST restSecurityConfiguration. xml resource:

```
<resource component="/atg/store/profile/RegistrationFormHandler" secure="true">
<method name="handleCheckoutDefaults" secure="false"
  formHandl erErrorURLProperty="updateErrorURL"/>
<method name="handleCreate" secure="false"/>
<property name="loginEmailAddress" secure="false"/>
<property name="dateFormat" secure="false"/>
<property name="dateOfBirth" secure="false"/>
<property name="emailOptIn" secure="false"/>
<property name="previous0ptInStatus" secure="false"/>
<property name="value.email" secure="false"/>
<property name="value.firstName" secure="false"/>
<property name="value.lastName" secure="false"/>
<property name="value.homeAddress.phoneNumber" secure="false"/>
roperty name="value.homeAddress.postalCode" secure="false"/>
<property name="value.gender" secure="false"/>
<property name="extractDefaultValuesFromProfile" secure="false"/>
<property name="createNewUser" secure="false"/>
<property name="confirmPassword" secure="false"/>
<property name="value.member" secure="false"/>
<property name="sourceCode" secure="false"/>
<property name="value.autoLogin" secure="false"/>
<property name="value.password" secure="false"/>
</resource>
```

If you used the /rest/model / APIs, you must migrate your changes from the /atg/rest/securi ty/ RestSecuri tyConfi gurati on. xml file to the REST MVC actor definitions. To do this, create a separate Nucleus component and XML file for each API call. Handle methods for form handlers can be placed in a single component and XML file as different variants. Before you can use the actor components, you must register them to make them accessible to the REST MVC framework. Refer to the *ATG Web Services and Integration Framework Guide* for information on registering actor components.

In the actor-based framework, you define an actor XML file. For components and form handlers, you use a component or form handler actor and define which method you want to use per actor. Therefore, only methods that are referenced in an actor- chain are accessible.

Instead of defining a list of accessible input properties, you define i nput elements for each actor so only inputs defined in the actor definition will be observed. Any extra parameters that are passed will be ignored.

The following is an example of what an actor does in the REST MVC framework:

```
<actor-template>
 <actor-chain id="create">
  <form name="/atg/store/profile/RegistrationFormHandler"
   handle="create">
   <input name="loginEmailAddress" value="${param.loginEmailAddress}"/>
   <input name="dateFormat" value="${param.dateFormat}"/>
   <input name="dateOfBirth" value="${param.dateOfBirth}"/>
   <input name="emailOptIn" value="${param.emailOptIn}"/>
   <input name="previous0ptInStatus"
      value="${param.previous0ptInStatus}"/>
   <input name="value.email" value="${param.email}"/>
   <input name="value.firstName" value="${param.firstName}"/>
   <input name="value.lastName" value="${param.lastName}"/>
   <i nput name="value.homeAddress.phoneNumber"
      value="${param.phoneNumber}"/>
   <i nput name="value.homeAddress.postalCode"
      value="${param.postalCode}"/>
   <i nput name="value.gender" value="${param.gender}"/>
   <input name="extractDefaultValuesFromProfile"
      value="${param.extractDefaultValuesFromProfile}"/>
   <input name="createNewUser" value="${param.createNewUser}"/>
   <input name="confirmPassword" value="${param.confirmPassword}"/>
   <input name="value.member" value="${param.member}"/>
   <input name="sourceCode" value="${param.sourceCode}"/>
   <input name="value.autoLogin" value="${param.autoLogin}"/>
   <input name="value.password" value="${param.password}"/>
   <input name="createErrorURL" value="${param.errorURL}"/>
   <input name="createSuccessURL" value="${param.successURL}"/>
  </form>
 </actor-chain>
 <actor-chain id="checkoutDefaults" transaction="TX_SUPPORTS">
```

```
<actor chain rd= checkoutberaults chainsaction= rA_soffours
<form name="/atg/store/profile/RegistrationFormHandler"
handl e="checkoutDefaults">
```

```
<i nput name="val ue. shi ppi ngAddress"
val ue="${param. shi ppi ngAddress}"/>
<i nput name="val ue. defaul tCredi tCard"
val ue="${param. defaul tCredi tCard}"/>
<i nput name="val ue. defaul tShi ppi ngMethod"
val ue="${param. defaul tShi ppi ngMethod}"/>
<i nput name="updateErrorURL" val ue="${param. errorURL}"/>
<i nput name="updateSuccessURL" val ue="${param. successURL}"/>
</form>
</actor-chai n>
<actor-templ ate></art
```

All actors are securable – whether they are JSP fragments, droplets, components, form handlers, etc. The inputs for all actors are explicitly declared so it is impossible to pass in a parameter that is not expected. Furthermore, each method defines its expected inputs so that two different handle methods on a form handler may define only the inputs that they actually use.

REST URLs

The REST MVC APIs start with /rest/model instead of /rest/bean, /rest/reposi tory or /rest/servi ce. Any calls to /rest/bean, /rest/reposi tory or /rest/servi ce will still be resolved by the Legacy REST BeanProcessor, Reposi toryProcessor or Servi ceProcessor respectively.

Filtering

When using the REST MVC framework, you must also migrate your /atg/rest/filtering/filteringConfiguration.xml file to a new /atg/dynamo/service/filter/bean/beanFilteringConfiguration.xml file.

Oracle ATG REST Web Services Migration Examples

The following are examples of existing Mobile Commerce /rest/bean, /rest/repository and /rest/service calls and what they would look like in the REST MVC framework.

Migrating a REST Service to a Droplet Actor

The following is an example of a /rest/servi ce migration to a Dropl etActor. This example takes a Legacy REST service that displays the billing address for an order and shows how you would create a corresponding Dropl etActor in the REST MVC API.

Billing Address REST Service Example

The Legacy REST service call contains the following:

The /rest/servi ce API call to migrate:

curl -v -b cookies.txt -X GET
 http://myserver:8080/rest/service/atg/commerce/billingAddresses

• The JSP template, which renders the page that displays the data:

```
<%- -
Return a list of permitted shipping addresses for the current order
- - %>
<dsp: page>
<dsp: importbean
  bean="/atg/commerce/order/purchase/Shi ppi ngGroupDropl et"/>
<%-Initialize shipping data objects --%>
<dsp: dropl et name="Shi ppi ngGroupDropl et">
  <dsp:param name="createOneInfoPerUnit" value="false"/>
 <dsp: param name="clearShippingInfos" value="true"/>
  <dsp: param name="cl earShippingGroups" value="true"/>
 <dsp: param name="shi ppi ngGroupTypes" val ue="hardgoodShi ppi ngGroup"/>
 <dsp: param name="initShippingGroups" value="true"/>
 <dsp:param name="initBasedOnOrder" value="true"/>
 <dsp: oparam name="output"/>
</dsp: dropl et>
<dsp:importbean
  bean="/atg/commerce/order/purchase/Shi ppi ngGroupContai nerServi ce" />
<dsp: importbean bean="/atg/store/dropl et/AvailableShippingAddresses" />
<dsp:importbean bean="/atg/userprofiling/Profile" />
<j son: obj ect>
  <dsp: getval ueof var="shi ppi ngGroupMap" vartype="j ava.lang.0bj ect"</pre>
  bean="ShippingGroupContainerService.shippingGroupMap" />
  <c:if test="${not empty shippingGroupMap}">
   <dsp: droplet name="AvailableBillingAddresses">
    <dsp: param name="map" value="${shippingGroupMap}" />
   <dsp:param name="defaultId"
      bean="Profile.shippingAddress.repositoryId" />
    <dsp:param name="sortByKeys" value="true" />
    <dsp: oparam name="output">
     <dsp: getval ueof var="permittedAddresses"
       vartype="j ava. l ang. 0bj ect"
       param="permittedAddresses" />
     <j son: array name="shi ppi ngAddresses"
       items="${permittedAddresses}" var="hsg">
      <j son: obj ect>
       <json: property name="nickname" value="${hsg.key}" />
       <dsp:include page="addressProperties.jsp">
        <dsp: param name="address"
          val ue="${hsg. val ue. shi ppi ngAddress}" />
        <dsp:param name="useCountryCode" value="${true}"/>
       </dsp: i ncl ude>
      </j son: obj ect>
     </j son: array>
   </dsp: oparam>
   </dsp: dropl et>
 </c: i f>
```

```
</j son: obj ect>
```

```
</dsp: page>
```

• The filteringConfiguration. xml file, which filters the results displayed to the end user:

```
<br/><bean-filtering>
 <component name="atg.core.util.Address">
  <property name="address1"/>
  <property name="address2"/>
  <property name="address3"/>
  <property name="city"/>
  <property name="country" property-customizer=</pre>
    "/atg/rest/Local i zedCountryDi spl ayNamePropertyCustomi zer" />
  <property name="firstName"/></property.
  <property name="lastName"/></property.
  <property name="mi ddl eName"/>
  <prpoerty name="ni ckname"/>
  <property name="phoneNumber"/>
  <property name="postalCode"/>
  <property name="state"/>
 </component>
</bean-filtering>
```

Billing Address REST Model Example

The REST MVC framework model call that uses the actor-based API contains the following:

• The /rest/model API call:

curl -v -b cookies.txt -X GET \ http://myserver:8080/rest/model/atg/commerce/billingAddressesActor

• The Dropl etActor that invokes the droplets used to send the output to a Model Map:

```
/atg/commerce/billingAddressesActor.properties
$cl ass=atg. servi ce. actor. ActorChai nServi ce
$scope=gl obal
definitionFile=/atg/commerce/billingAddressesActor.xml
<!-/atg/commerce/billingAddressesActor.xml -->
<actor-chain>
<droplet name="/atg/commerce/order/purchase/ShippingGroupDroplet">
 <input name="createOneInfoPerUnit" value="false"/>
 <input name="clearShippingInfos" value="true"/>
 <i nput name="clearShippingGroups" value="true"/>
 <i nput name="shi ppi ngGroupTypes" val ue="hardgoodShi ppi ngGroup"/>
 <i nput name="initShippingGroups" value="true"/>
 <input name="initBasedOnOrder" value="true"/>
 <droplet>
<droplet name="/atg/droplet/Switch">
  <input name="value" value="${availableBillingAddresses not empty}"/>
  <oparam name="true">
   <droplet name="/atg/store/droplet/AvailableBillingAddresses"</pre>
    var="availableBillingAddresses">
   <i nput name="map"
      value="${nucleus['/atg/commerce/order/purchase/
```

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```
Shi ppi ngGroupContai nerServi ce']. shi ppi ngGroupMap}" />
<input name="defaultId"
value="${nucleus['/atg/userprofiling/Profile. shi ppi ngAddress']
. repositoryId}" />
<input name="sortByKeys" value="true" />
<!-output droplet permittedAddresses to model as
billingAddresses --->
<oparam name="output">
<oparam name="output">
<oparam name="output">
<oparam name="billingAddresses"
value="${availableBillingAddresses"
</oparam>
</droplet>
</oparam>
</droplet>
</actor-chain>
```

• The beanFilterConfiguration. xml file, which filters the results displayed to the end user:

```
<br/><bean-filtering>
<bean type="atg.core.util.Address">
  <filter id="default">
   <property name="address1"/>
   <property name="address2"/>
   <property name="address3"/>
   <property name="city"/>
   <property name="country"</pre>
    property-customizer="/atg/dynamo/service/actor/
    Local i zedCountryDi spl ayNamePropertyCustomi zer" />
   <property name="firstName"/>
   <property name="lastName"/>
   <property name="mi ddl eName"/>
   <property name="ni ckname"/>
   <property name="phoneNumber"/>
   <property name="postalCode"/>
   <property name="state"/>
 </filter>
</bean>
</bean-filtering>
```

Migrating a Legacy REST Service to a JSP Actor

The following is an example of a /rest/servi ce migration to a JSPActor. This example takes a Legacy REST service that returns available shipping methods and cost based upon the location of the customer and shows how you would create a corresponding JSPActor in the REST MVC API.

Shipping Method Legacy REST Service Example

The Legacy REST service call contains the following:

• The /rest/servi ce API call to migrate:

curl -v -b cookies.txt -X GET \ http://myserver: 8080/rest/service/atg/commerce/pricing/ AvailableShippingMethods?getPrices=true The JSP template, which renders the page that displays the data: • <%- -Return available shipping methods, optionally with prices Optional parameters: getPrices if true, will return prices with the shipping methods - - %> <dsp: page> <dsp: importbean bean="/atg/commerce/pricing/AvailableShippingMethods" /> <dsp: importbean bean="/atg/commerce/pricing/CurrencyCodeDroplet"/> <dsp:importbean bean="/atg/commerce/order/purchase/ShippingGroupFormHandler" /> <dsp:importbean bean="/atg/commerce/ShoppingCart" /> <dsp:importbean bean="/atg/userprofiling/Profile"/> <dsp: getval ueof var="shi ppi ngGroup" bean="Shi ppi ngGroupFormHandl er. firstNonGiftHardgoodShippingGroupWithRels" /> <dsp: getvalueof var="getPrices" param="getPrices" /> <j son: obj ect> <j son: array name="shi ppi ngMethods"> <%- -Iterates over the list of available shipping methods and determine default one. Input parameters: shippingGroup shipping group. We pass the first one from the list of shipping groups in the current order (shopping cart). We always have at least one hardgood shipping group in the cart. Output parameters: availableShippingMethods a list of shipping method codes - - %> <dsp: droplet name="AvailableShippingMethods"> <dsp: param name="shi ppi ngGroup" val ue="\${shi ppi ngGroup}" /> <dsp:oparam name="output"> <dsp: getval ueof var="availableShippingMethods" vartype="j ava. l ang. 0bj ect" param="availableShippingMethods" /> <c: forEach var="availableShippingMethod" items="\${availableShippingMethods}"> <j son: obj ect> <j son: property name="name" val ue="\${ avai l abl eShi ppi ngMethod} " /> <c:if test="\${getPrices == 'true'}"> <%-Determine shipping price for the current shipping method --%> <dsp: dropl et name="/atg/store/pri ci ng/Pri ceShi ppi ngMethod">

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```
<dsp: param name="shippingMethod"
            val ue="${avai l abl eShi ppi ngMethod}" />
         <dsp: oparam name="output">
          <dsp: getval ueof var="shi ppi ngPri ce"
            param="shippingPrice" />
         </dsp: oparam>
        </dsp: dropl et>
        <json: property name="price" value="${shippingPrice}" />
       </c: i f>
      </j son: obj ect>
     </c: forEach>
    </dsp: oparam>
   </dsp: dropl et>
  </j son: array>
  <%-Add the currencyCode if we're returning prices --%>
  <c:if test="${getPrices == 'true'}">
   <dsp: getval ueof var="pri ceLi stLocal e" vartype="j ava. l ang. Stri ng"</pre>
    bean="Profile.priceList.locale" />
   <%- -
     This droplet calculates a currency code for the locale specified.
     Input parameters:
      locale Specifies a locale to calculate the code from.
     Output parameters:
      currencyCode The resulting currency code.
     Open parameters:
       output Always rendered.
   - - %>
   <dsp: droplet name="CurrencyCodeDroplet">
    <dsp:param name="locale" value="${priceListLocale}" />
    <dsp: oparam name="output">
     <dsp: getval ueof var="currencyCode" vartype="j ava. l ang. String"</pre>
       param="currencyCode" />
     <json: property name="currencyCode" value="${currencyCode}" />
    </dsp: oparam>
   </dsp: dropl et>
  </c: i f>
 </j son: obj ect>
</dsp: page>
```

This example does not use a filteringConfiguration. xml file.

Shipping Method REST Method Example

The REST MVC framework model call contains the following:

• The /rest/model API call:

curl -v -b cookies.txt -X GET \
http://myserver:8080/rest/model/atg/commerce/pricing/
AvailableShippingMethodsActor?getPrices=true

• The JSPActor that will invoke the JSP template:

/atg/commerce/pricing/AvailableShippingMethodsActor.properties \$class=atg.service.actor.ActorChainService \$scope=global

 $definition File = /atg/commerce/availableShippingMethodsActor.\,xmline = /atg/commerce/availableShipp$

```
<!-/atg/commerce/availableShippingMethodsActor.xml -->
```

<actor-chain id="shippingMethods">

<jsp url="/atg/commerce/pricing/shippingMethodsActor.jsp" context="DCS">
<!-if true, getPrices will return prices with the shipping methods -->

<input name="getPrices" value="\${param.getPrices}">

```
<output name="shippingMethods" value="\ bippingMethods} "/>
```

<output name="currencyCode" value="\${currencyCode}"/>

```
</j sp>
```

</actor-chain>

The JSP template that will execute the JSP page and output objects to the Model Map.
 Note that the JSP page will not write directly to the HTPP response. The output of the JSP page is available in the response- var attribute that allows you to map to a property in the Model Map.

Optional parameters: getPrices if true, will return prices with the shipping methods

```
Model output:
```

shippingMethods

```
currencyCode
```

- - %>

```
<dsp: page>
<dsp: importbean bean="/atg/commerce/pricing/AvailableShippingMethods" />
<dsp: importbean bean="/atg/commerce/pricing/CurrencyCodeDroplet"/>
<dsp: importbean</pre>
```

```
bean="/atg/commerce/order/purchase/Shi ppi ngGroupFormHandl er" />
```

```
<dsp:importbean bean="/atg/commerce/ShoppingCart" />
```

```
<dsp:importbean bean="/atg/userprofiling/Profile"/>
```

<dsp: getval ueof var="shi ppi ngMethodsMap" class="j ava. core. util. HashMap" scope="request"/>

<dsp: getval ueof var="shi ppi ngGroup"

bean="ShippingGroupFormHandler.

firstNonGiftHardgoodShippingGroupWithRels" />

```
<dsp: getvalueof var="getPrices" param="${getPrices}" />
```

```
<\!\!dsp: droplet name="AvailableShippingMethods"\!>
```

<dsp: param name="shi ppi ngGroup" val ue="\${shi ppi ngGroup}" />

<dsp: oparam name="output">

 $<\!\!dsp: getval ue of var="availableShippingMethods"$

vartype="j ava.lang.Obj ect" param="availableShippingMethods" />

```
<c: forEach var="availableShippingMethod"
```

items="\${availableShippingMethods}">

<c: set var="shippingPrice" value="null"/>

<c:if test="\${getPrices == 'true'}">

```
<%-Determine shipping price for the current shipping method --%>
     <dsp: droplet name="/atg/store/pricing/PriceShippingMethod"</pre>
       var="pri ceShi ppi ngMethod">
      <dsp: param name="shippingMethod"
        val ue="${avai l abl eShi ppi ngMethod}" />
      <dsp: oparam name="output">
       <c: set target="${shippingMethodsMap}
         property="${availableShippingMethod}"
         val ue="${pri ceShi ppi ngMethod. shi ppi ngPri ce}"/>
      </dsp: oparam>
     </dsp: dropl et>
   </c: i f>
   </c: forEach>
 </dsp: oparam>
 <!-Sets property in the ActorContext -->
 <c: set name="shippingMethods" value="${shippingMethodsMap}"
   scope="request"/>
</dsp: dropl et>
<%-Add the currencyCode if we're returning prices --%>
<c:if test="${getPrices == 'true'}">
  <dsp: getval ueof var="pri ceLi stLocal e" vartype="j ava. lang. String"
  bean="Profile.priceList.locale" />
  <dsp:droplet name="CurrencyCodeDroplet" var="currencyCodeDroplet">
   <dsp: param name="locale" value="${priceListLocale}" />
   <dsp: oparam name="output">
   <!-Sets property in the ActorContext -->
   <c:set name="currencyCode"
      value="${currencyCodeDroplet.currencyCode}" scope="request"/>
   </dsp: oparam>
 </dsp: dropl et>
</c: i f>
</dsp: page>
```

• The model FilterConfiguration. xml file, which filters the results displayed to the end user:

Migrating a Legacy REST Service to an Actor Referencing Nucleus Components

The following is an example of a /rest/servi ce migration to an actor that contains the Nucleus component /atg/commerce/Shoppi ngCart.

Shopping Cart Legacy REST Service Example

The Legacy REST service call contains the following:

• The /rest/servi ce call:

curl -v -b cookies.txt -X GET \
http://myserver:8080/rest/service/atg/commerce/ShoppingCart

• The restSecurityConfiguration. xml file:

<resource component="/atg/commerce/ShoppingCart" secure="false"> </resource> The filteringConfiguration. xml file: <bean-filtering> <!-Shopping cart filters --> <!-reprice the cart with ORDER_TOTAL operation before returning it</pre> this is the default and used for retrieving order confirmation data regular cart retrievals should price with ORDER_SUBTOTAL, using the cartRepriceSubtotal template below --> <component name="/atg/commerce/ShoppingCart"> <property name="cart"</pre> property-customizer="/atg/rest/filtering/customizers/ CartTotal Repri cer"/> </component> <component name="/atg/commerce/ShoppingCart/totalCommerceItemCount"> <property name="totalCommerceItemCount"</pre> target="current.totalCommerceItemCount" component="/atg/commerce/ShoppingCart"/> </component> <!-applied to the shopping cart --> <component name="atg. projects. store. order. StoreOrderImpl"> <property name="shipping" target="priceInfo.shipping"/> <property name="tax" target="priceInfo.tax"/> <property name="discount" target="priceInfo.discountAmount"/> <property name="storeCredit"</pre> property-customizer="/atg/rest/filtering/customizers/ StoreCreditPropertyCustomizer"/> <property name="subtotal" target="priceInfo.rawSubtotal"/> <property name="currencyCode" target="priceInfo.currencyCode"/> <property name="total" target="priceInfo.amount"/> <property name="appliedPromotions" target="priceInfo.adjustments"</pre> property-customizer="/atg/rest/filtering/customizers/ RemoveNullPromotions"/> <property name="commerceItems"/> <property name="totalCommerceItemCount"/> <property name="containsGiftWrap"/> <property name="shi ppi ngGroupCount"/> <property name="couponCode" target="currentCouponCode"</pre> component="/atg/store/order/purchase/CouponFormHandler" writable="false"/> </component> <component name="atg. commerce.order.CommerceItem"> <property name="commerceItemId" target="id"/> <property name="prodId" target="auxiliaryData.productId"/> <property name="thumbnailImage"</pre> target="auxiliaryData.productRef.thumbnailImage.url"/> <property name="sku" target="auxiliaryData.catalogRef"/> <property name="qty" target="quantity"/>

```
<property name="price" target="priceInfo.amount"/>
```

```
<property name="listPrice" target="priceInfo.listPrice"/>
  <property name="salePrice" target="priceInfo.salePrice"/>
  <property name="onSale" target="priceInfo.onSale"/>
  <property name="unitPrices"</pre>
   property-customizer="/atg/rest/filtering/customizers/
   UnitPriceDetail"/>
  <property name="appliedPromotions" target="priceInfo.adjustments"</pre>
   property-customizer="/atg/rest/filtering/customizers/
   RemoveNullPromotions"/>
</component>
<component name="atg. commerce. pricing. PricingAdjustment">
 <property name="promotion" target="pricingModel.displayName"/>
</component>
<component name="atg.commerce.pricing.UnitPriceBean">
 <property name="unitPrice"/>
 <property name="quantity"/>
</component>
</bean-filtering>
```

Shopping Cart REST Method Example

The REST MVC model call contains the following:

 $\bullet \quad \mbox{The /rest/model API call} \\$

```
curl -v -b cookies.txt -X GET \
http://myserver:8080/rest/model/atg/commerce/ShoppingCartActor
```

• The actor that references the /atg/commerce/shoppi ngCart Nucleus component:

```
/atg/commerce/model produer/Shoppi ngCartActor. properties
Scl ass=atg. service. actor. ActorChainService
Sscope=gl obal
definitionFile=/atg/commerce/shoppi ngCartActor. xml
<actor-template>
  <!-/atg/commerce/shoppi ngCartActor. xml --->
  <actor-chain id="Shoppi ngCart" transaction="TX_SUPPORTS">
    <!-output the shoppi ng cart component as property 'cart' --->
    <component name="/atg/commerce/Shoppi ngCart" component-var="cart">
    </component name="cart" value="S{cart}"/>
    </component>
    </actor-chai n>
</actor-templ ate>
The beanFilteri ngConfiguration. xml that filters the results:</a>
```

```
<bean-filtering>
```

<!-Shopping cart filters -->

<!-reprice the cart with ORDER_TOTAL operation before returning it this is the default and used for retrieving order confirmation data regular cart retrievals should price with ORDER_SUBTOTAL, using the cartRepriceSubtotal template below -->

```
<bean type="/atg/commerce/ShoppingCart">
```

```
<filter id="default">
```

```
<property name="cart" property-customizer="/atg/rest/filtering/</pre>
    customi zers/CartTotal Repri cer"/>
</filter>
</bean>
<bean type="/atg/commerce/ShoppingCart/totalCommerceItemCount">
<filter id="default">
  <property name="totalCommerceItemCount"</pre>
    target="current.totalCommerceItemCount"
    component="/atg/commerce/ShoppingCart"/>
</filter>
</bean>
<!-applied to the shopping cart -->
<bean type="atg.projects.store.order.StoreOrderImpl">
 <filter id="default">
  <property name="shipping" target="priceInfo.shipping"/>
  <property name="tax" target="priceInfo.tax"/>
  <property name="di scount" target="priceInfo.di scountAmount"/>
  <property name="storeCredit" property-customizer="/atg/rest/</pre>
   filtering/customizers/StoreCreditPropertyCustomizer"/>
  <property name="subtotal" target="priceInfo.rawSubtotal"/>
  <property name="currencyCode" target="priceInfo.currencyCode"/>
  <property name="total" target="priceInfo.amount"/>
  <property name="appliedPromotions" target="priceInfo.adjustments"</pre>
   property-customizer="/atg/rest/filtering/customizers/
   RemoveNullPromotions"/>
  <property name="commerceItems"/></property.
  <property name="totalCommerceItemCount"/>
  <property name="containsGiftWrap"/>
  <property name="shippingGroupCount"/>
  <property name="couponCode" target="currentCouponCode"</pre>
    component="/atg/store/order/purchase/CouponFormHandler"/>
</filter>
</bean>
<bean type="atg. commerce. order. CommerceItem">
<filter id="default">
  <property name="commerceItemId" target="id"/>
  <property name="prodId" target="auxiliaryData.productId"/>
  <property name="thumbnailImage"</pre>
     target="auxiliaryData.productRef.thumbnailImage.url"/>
  <property name="sku" target="auxiliaryData.catalogRef"/>
  <property name="qty" target="quantity"/>
  <property name="price" target="priceInfo.amount"/>
  <property name="listPrice" target="priceInfo.listPrice"/>
  <property name="salePrice" target="priceInfo.salePrice"/>
  <property name="onSale" target="priceInfo.onSale"/>
  <property name="unitPrices" property-customizer="/atg/rest/</pre>
    filtering/customizers/UnitPriceDetail"/>
  <property name="appliedPromotions" target="priceInfo.adjustments"</pre>
    property-customizer="/atg/rest/filtering/customizers/
    RemoveNullPromotions"/>
```

```
</filter>
</bean>
<bean type="atg.commerce.pricing.PricingAdjustment">
<filter>
<filter>
<property name="promotion" target="pricingModel.displayName"/>
</filter>
</bean>
<bean type="atg.commerce.pricing.UnitPriceBean">
<filter id="default">
<property name="unitPrice"/>
<property name="unitPrice"/>
<property name="unity"/>
</filter>
</bean>
</bean>
</bean>
</bean>
```

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