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Version 11.2

Platform Upgrade and Migration Guide

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Document Version

OCP11.2 MIGRATIONv1 10/22/15

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1 Introduction

This guide describes how to upgrade from Oracle ATG Web Commerce 10.2, or later versions to Oracle Commerce Platform 11.2. It is written for programmers, DBAs, site administrators, and partners.

Before you begin migration:

1. 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.
2. Review the Migration Overview chapter.

This guide uses the convention `<ATGdir>` to represent the installation directory for ATG products. By default, the Windows installation creates the installation directory `C:\ATG\ATG11.2`, but this location can vary in your installation.

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

Important: You must upgrade your entire Oracle Commerce Platform installation; you cannot upgrade only part of it. Oracle does not support running different versions of Oracle Commerce Platform products together. For example, using the 11.2 Oracle Commerce Platform with an older version of Commerce Service Center is not supported. The platform and all applications must have the same release number.

If you are performing a migration over more than two releases, you will need to review any exported scripts and reviews logs for any errors after each migration.

The CIM Migration Tool

Much of the migration process is performed by the Configuration and Installation Manager (CIM) Migration Tool, which automates schema and data migration based on your current installation and installed migration kits.

New in Oracle Commerce 11.2

For information on the features in this release, refer to the *Oracle Commerce Version 11.2 What's New Reference* knowledge article on My Oracle Support.

2 Migration Overview

To migrate from Oracle ATG Web Commerce 10.2, 11.0, or 11.1 to Oracle Commerce Platform 11.2, follow these steps:

1. Pre-Migration Task Checklist.
2. Install Oracle Commerce Platform 11.2.
3. Run the CIM Migration Tool.
4. Complete Manual Migration Tasks.
5. Complete Application-Specific Post Migration Steps.
6. Complete Migration Testing.

Each of these steps is detailed in the following chapters.

3 Pre-Migration Task Checklist

Before starting migration, complete these tasks:

1. Back up your Oracle Commerce Platform database.
2. Back up all of your `Publishing` and `PublishingAgent` directories --for example, these CIM-generated directories under `<ATG11dir>/home/servers/`:
   - `atg_publishing_lockserver/Publishing`
   - `atg_production_lockserver/PublishingAgent`

   You should also back up the `<ATG11dir>/home/Publishing` directory.
3. If your installation includes ATG Content Administration, complete all projects.
4. Process all reporting event logs. On the data warehouse load server, execute the `loadAllAvailable` method on all loaders in `/atg/reporting/datawarehouse/loaders/`.
5. Shut down all Oracle Commerce servers.
6. Shut down any search engines your environment uses.
7. Remove Oracle Commerce artifacts, such as server instances, EAR files, and data sources, from the application server.

Note: In addition to the tasks listed here, some applications may have their own requirements. Before starting the migration, review the instructions for each installed application, under Application-Specific Post Migration Steps.

4 Install Oracle Commerce Platform 11.2

The next steps in the migration process are to install Oracle Commerce Platform 11.2, obtain the resources required for the migration process, and configure your environment.

1. Install Oracle Commerce Platform 11.2 as directed in the *Installation and Configuration Guide*.
2. If you are migrating from releases earlier than 10.2, download the required migration kits for each of those releases and migrate them separately until you have migrated to release 10.2.

   If you are migrating from 10.2, or 11.0, or 11.1 to 11.2, you only need to download OCPlatform112MigrationKit and optionally OCServiceCenter112MigrationKit.

   If you are using Commerce Service Center modules, download `OCServiceCenter112MigrationKit` in addition to the `OCPlatform112MigrationKit`.

   Copy the files to `<ATGdir>` and unpack the kits, which creates the `<ATGdir>\migration` directory.

   Note: If you use both the Oracle Commerce Platform and the Oracle Commerce Service Center modules, you must unpack both kits before starting your schema migration since both the modules are migrated in one step.
3. If you are using an MSSQL database, delete all MSSQL script files that contain international data. For example:

   ```
   <ATGdir>\migration\11.0to11.2\ARF\DW\base\sql\db_components\mssql\arf_rpd_i18n_init_XXX.sql
   ```

   ```
   <ATGdir>\migration\11.1to11.2\ARF\DW\Endeca\sql\db_components\mssql\arf_search_datawarehouse_i18n_init_xxx.sql
   ```

   ```
   <ATGdir>\migration\11.1to11.2\DCS\DW\sql\db_components\mssql\arf_dcs_i18n_init_xxx.sql
   ```

   Alternatively, you can leave a single script file for each language, assuming that your database is capable of supporting that language.
4. Copy your existing configuration files and application modules to the Oracle Commerce Platform 11.2 installation. Update application code as necessary to conform to new Oracle Commerce Platform 11.2 functionality. For more information, see the Application-Specific Post Migration Steps chapter.

   Note: Commerce Reference Store and the reference applications do not migrate.
5. Copy the directories listed from your older (10.2-11.1) installation into your Oracle Commerce Platform 11.2 installation:

```
/home/Publishing/versionFileStore
/home/servers/atg_svcagent_lockserver/publishing
/home/servers/atg_production_lockserver/PublishingAgent
/home/servers/atg_svcagent_lockserver /PublishingAgent
/home/servers/atg_staging/PublishingAgent
```

6. If you use a Publishing Web Agent server, copy `/home/PublishingWebAgent` from your older (10.2-11.1) installations to your Oracle Commerce Platform 11.2 installation.

Version Compatibility

Before you begin installation of Oracle Commerce Platform 11.2, see the Oracle Commerce Supported Environments document in the My Oracle Support knowledge base (https://support.oracle.com/).

5 Run the CIM Migration Tool

The CIM Migration Tool is a utility that automates schema and data migration based on migration kits you install.

Migration from Older Releases

With this version of the CIM Migration Tool, you can migrate from older versions (10.2 and later), migrating sequentially one release at a time.

Migrating from Releases Before 10.2

If you are migrating from releases earlier than 10.2, download the related kits and perform migrations necessary to bring your installation to the 10.2 release using the instructions in the related migration guides. After you have migrated to 10.2, follow this guide to complete the migration to 11.2.

Data Migration

Data migration is not part of the Oracle Commerce Platform 11.1 to Oracle Commerce Platform 11.2 migration and running the CIM data migration option will not perform a data migration action. Review the Migration documentation for each release for more details.

The importConfig Utility

Before running the CIM Migration Tool, you can use the `importConfig` utility to identify which products and add-ons were installed in your previous installation, otherwise you will need to manually select them in the CIM Migration tool. Before running this utility verify that in your environment `$DYNAMO_HOME` reflects your `ATG11.2` installation folder.

Note: Your previous installation directory must be available to use the `importConfig` utility.

Command Line Usage

```
<ATGdir>\bin\importConfig.sh|bat [previous platform location]
```

Utility Results

When you run the `importConfig` utility, this file is created:

```
<ATGdir>\CIM\data\import.xml
```

When the CIM Migration Tool runs, `import.xml` provides information on products and add-ons from previous installations which are listed in the migration information section.

CIM Command Line Options

Start the CIM Migration Tool from the command line. The following options are available:

```
cim.sh|bat [-m MODULELIST] [-debug] [-record] [-noencryption] [-batch
inputFilePath] [-migration] [-migrationpath migrationKitsBasePath]
```

Other options

Option	Description
`-migration`	Begins the migration process.
`-debug`	Enables debug mode.
`-record`	Records the CIM options you selected and at the end of the migration, saves the recorded file to a location you specify.
`-noencryption`	Works with record option. Normally the CIM options are recorded in encrypted form. If you use this option, they are written a readable form.
`-batch`	Runs the recorded file you specify, completing the migration automatically, without any manual intervention.
`-m`	Specifies specific modules, such as DAS, DPS, etc.

Migration Kit Location

The default path for the migration kits is, for example:

```
<ATGdir>\migration\11.1to11.2
```

If you have unpacked the migration kit or kits to `<ATGdir>\migration\11.0to11.1` you can use the unqualified CIM command:

```
cim.sh|bat -migration
```

Otherwise, specify the kit location. For example:

```
cim.sh|bat -migration -migrationpath \oracle\migration
```

Starting CIM Migration

When you start CIM with the –migration switch, the Migration Utility task appears on the menu, for example:

```
=======CIM MAIN MENU============================================================
enter [h]Help, [q]Quit to exit


Choose the task you want to perform:


  [R]  Set the Administrator Password - Done (pending database import)
 *[A]  Select Application Server
  [M]  Migration Utility
  [C]  Custom CIM Plugin Launcher
```

Note: When the –migration switch is used, the tasks Product Selection and Database Configuration do not display.

Choose M to start the migration process. After you select Migration Utility, CIM displays the all the versions which are compatible for migration to the current release, for example:

```
-------MIGRATION SOURCE SELECTION-------------------------------------------------
enter [h]Help, [m]Main Menu, [q]Quit to exit



  Choose the version you are migrating from:

  [1]  10.2
  [2]  11.0
  [3]  11.1


Select one >
```

After making your selection, the following menu displays:

```
-------PRODUCT SELECTION-----------------------------------------------------------
enter [h]Help, [m]Main Menu, [q]Quit to exit



*  [P]  Product Selection

>
```

Choose all the products and add-ons that you have installed, then select `Product Selection` in menu and then select `Continue` when the WARNING message displays.

Note: Partial migration may cause the software to malfunction and is not permitted. You must migrate all modules.

If you have run the `importConfig` utility before running `cim`, the products and add-ons from the previous installation are selected by default in the available options.

CIM then displays a list of the installed products and add-ons that can be migrated, for example:

```
-------PRODUCT SELECTION------------------------------------------------------
enter [h]Help, [m]Main Menu, [q]Quit to exit


Select product you wish to configure by entering the corresponding item number.

  (Searching for products... done.)
Migration information: following products were found in previous installation:
Oracle Commerce Core Commerce
Content Administration

  Choose one of the following options: (* = Currently selected )

  [1]  Oracle Commerce Platform -
       Includes, optionally, data warehouse components

  [2]  Oracle Commerce REST -
       RESTful Web Services

  [3]  Oracle Commerce WebCenter Sites Extensions -
       Includes Commerce Platform and Commerce CAS Reader.

  [4]  Oracle Commerce Site Administration -
       Includes Commerce Platform and Content Administration

  [5]  Oracle Commerce Platform-Guided Search Integration -
       Includes Commerce Platform. Select this option when Commerce Guided
       Search is used.

 *[6]  Content Administration -
       Includes Oracle Commerce Platform.  Optional: Preview

 *[7]  Oracle Commerce Core Commerce -
       Includes Commerce Platform and Content Administration. Optional: data
       warehouse components, Preview and Merchandising UI

  [8]  Oracle Commerce CAS Reader -
       Includes Commerce Platform. Select this option when Commerce Platform
       is used to import data to Commerce CAS.
```

```
  [9]  Oracle Commerce Service Center -
       Agent-facing commerce application

  [D]  Done
Select one or more >
```

In this menu and those that follow, select the products and add-ons you want to migrate and the migration tool will update the schema and import data. When your selection is complete, the Migration option displays:

```
 -------PRODUCT SELECTION-------------------------------------------------------
enter [h]Help, [m]Main Menu, [q]Quit to exit



  [P]  Product Selection - Done
 *[C]  Migration Selection


>
```

When the Product Selection is complete, choose option `C` to proceed with migration process and the following screen displays:

```
 -------MIGRATION SELECTION-----------------------------------------------------
enter [h]Help, [m]Main Menu, [q]Quit to exit



  Choose the Migration task you want to perform:

 *[1]  10.2 -> 11.0
  [2]  11.0 -> 11.1
  [3]  11.1 -> 11.2


Select one >
```

After selecting a migration step, the following screen displays:

```
-------DATABASE MIGRATION SELECTION-------------------------------------------
enter [h]Help, [m]Main Menu, [q]Quit to exit
*[D]  Database Migration
  [C]  Cancel

>
```

Choose `D` to begin the Data Migration process, which is described in the following section.

Configuring datasources

In the next step, you will need to choose and configure the named datasource for each server you are using. For example, the following example shows the servers that may be migrated by choosing the related datasource:

```
 *[1]  Reporting Data Warehouse
  [2]  Reporting Loader
  [3]  Publishing
  [4]  Production Core
  [5]  Agent Datasource
  [D]  Done

Select one >
```

Select the server you want to migrate, for example, `Reporting Loader`:

```
-------CONFIGURE DATASOURCE REPORTING LOADER-----
enter [h]Help, [m]Main Menu, [q]Quit to exit

  [C]  Connection Details
  [T]  Test Connection
  [E]  Export Database Migration Script
  [S]  Migrate Schema
  [D]  Migrate Data
  [X]  Export Database Cleanup Script
  [L]  Cleanup Schema
  [O]  Configure Another Datasource
```

After you have provided connection details, you may optionally test the connection by choosing Test Connection. Once you verify that you can to connect to the database schema, for each server complete the following steps:

1. **Export Database Migration Scripts**. You must complete this step because the exported scripts are used to migrate the schema. After exporting the migration scripts, review the scripts and customize them, if needed for your environment.
2. **Migrate Schema**. After customizing the scripts, execute them by selecting the Migrate Schema option. When this completes, review the `cim.log` that has been created in `<ATGdir>/cim/log` for any errors.
3. **Migrate data**. Complete this step if data needs to be migrated.
4. **Export Database Cleanup Scripts**. These scripts list the tables that are no longer needed and would be dropped if you ran Cleanup Schema. Review the exported scripts before running Cleanup Schema. Make a copy the contents of the listed tables if you need to save the data.
5. **Cleanup Schema**. Execute the clean up scripts by choosing Cleanup Schema. Execute this step only when you are ready to drop the tables that are no longer needed. It is not necessary to carry out this step before moving to migrate another server and datasource.

Note: If you are migrating over more than two releases, start with the earliest version and migrate to the next newest version till you reach the current release. After each migration review any exported scripts and review the CIM logs for any errors. The main purpose of the exports are described in the following section, which will help you understand which DDLs are going to be executed as part of each migration and to provide the opportunity to make any changes necessary for your environment.

Import Migration Data

After you have migrated schemas, the Import Migration Data task imports migration data for the applications you are configuring.

Note that the data migration function is not part this release (Oracle Commerce Platform 11.1 to Oracle Commerce Platform 11.2). Running the CIM data migration option will not perform a data migration action for the 11.1 to 11.2 migration.

However, if you are migrating from version earlier than Oracle Commerce Platform 11.1, data migration will be completed for those versions. See the Migration documentation for each release for more details.

Import Initial Data

After all of your selected migration steps for each selected release are successful, the menu item `Import Initial Data` displays on the `Migration Utility` menu, for example:

```
  Choose the Migration task you want to perform:

 *[1]  10.2 -> 11.0
  [2]  11.0 -> 11.1
  [3]  11.1 -> 11.2
  [I] Import Initial Data


Select one >
```

This step executes the `startSQLRepository` imports that are required for migration, run these imports in the required order.

6 Manual Migration Tasks

There are some migration tasks that are not performed by the CIM Migration Tool. You must manually perform these after running the CIM Migration Tool to complete the update process.

Executing Clean Up Scripts

After completing the migration of database schema for the servers described in the previous steps, execute the following clean up scripts based on your installed environment:

For the DCS.DW.Search Module

Oracle

```
<ATGdir>\migration\10.2to11.0\DCS\DW\Search\sql\db_components\oracle\dcs_dw_search.bat|sh schema_owner password tns_alias
```

DB2

```
<ATGdir>\migration\10.2to11.0\DCS\DW\Search\sql\db_components\db2\dcs_dw_search.bat|sh schema_owner password db2_alias
```

MSSQL

```
<ATGdir>\migration\10.2to11.0\DCS\DW\Search\sql\db_components\mssql\dcs_dw_search.bat schema_owner password hostname db_schema
```

These scripts execute `dcs_srch_ddl_cleanup.sql`

For DCS.DW module

Oracle

```
<ATGdir>\migration\10.2to11.0\DCS\DW\sql\db_components\oracle\dcs_dw.bat|sh schema_owner password tns_alias
```

DB2

```
<ATGdir>\migration\10.2to11.0\DCS\DW\sql\db_components\db2\dcs_dw.bat|sh schema_owner password db2_alias
```

MSSQL

```
<ATGdir>\migration\10.2to11.0\DCS\DW\sql\db_components\mssql\dcs_dw. bat schema_owner password hostname db_schema
```

This script executes: `arf_dcs_ddl_cleanup.sql`

DCS.Search.Versioned Module

Oracle

```
<ATGdir>\migration\10.2to11.0\DCS\Search\Versioned\sql\db_components\oracle\versioned_dcs_search.bat|sh schema_owner password tns_alias
```

DB2

```
<ATGdir>\migration\10.2to11.0\DCS\Search\Versioned\sql\db_components\db2\versioned_dcs_search.bat|sh schema_owner password db2_alias
```

MSSQL

```
<ATGdir>\migration\10.2to11.0\DCS\Search\Versioned\sql\db_components\mssql\versioned_dcs_search.bat schema_owner password hostname db_schema
```

This script executes:

```
versioned_commerce_refinement_ddl_cleanup.sql
```

```
versioned_custom_catalog_refinement_ddl_cleanup.sq
```

ARF.DW.Search Module

Oracle

```
<ATGdir>\migration\10.2to11.0\ARF\DW\Search\sql\db_components\oracle\arf_dw_search.bat|sh schema_owner password tns_alias
```

DB2

```
<ATGdir>\migration\10.2to11.0\ARF\DW\Search\sql\db_components\db2\arf_dw_search.bat|sh schema_owner password db2_alias
```

MSSQL

```
<ATGdir>\migration\10.2to11.0\ARF\DW\Search\sql\db_components\mssql\arf_dw_search.bat schema_owner password hostname db_schema
```

These scripts execute:

```
search_datawarehouse_view_ddl_cleanup.sql
```

```
search_datawarehouse_ddl_cleanup.sql
```

ARF.DW.base Module

Oracle

```
<ATGdir>\migration\10.2to11.0\ARF\DW\base\sql\db_components\oracle\arf_dw_base.bat|sh schema_owner password tns_alias
```

DB2

```
<ATGdir>\migration\10.2to11.0\ARF\DW\base\sql\db_components\oracle\arf_dw_base.bat|sh schema_owner password db2_alias
```

MSSQL

```
<ATGdir>\migration\10.2to11.0\ARF\DW\base\sql\db_components\oracle\arf_dw_base.bat schema_owner password hostname db_schema
```

DAF.Search.Topics

Oracle

```
<ATGdir>\migration\10.2to11.0\DAF\Search\Topics\sql\db_components\oracle\d
af_search_topics.bat schema_owner password tns_alias
```

DB2

```
<ATGdir>\migration\10.2to11.0\DAF\Search\Topics\sql\db_components\db2\daf_
search_topics.bat|sh  schema_owner password db2_alias
```

MSSQL

```
<ATGdir>\migration\10.2to11.0\DAF\Search\Topics\sql\db_components\mssql\da
f_search_topics.bat schema_owner password hostname db_schema
```

These scripts execute `search_topics_ddl_cleanup.sql`

Updating View Mappings

After you run the appropriate migration scripts for your environment, you must update your view mappings.

Note: All custom view mappings **must** be migrated after you complete the steps below.

Before importing any view mappings, configure the data sources used by the import utility. Configure a `home/localconfig/atg/dynamo/service/jdbc/FakeXADa0074aSource.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:

```
$class=atg.service.jdbc.FakeXADataSource
driver=oracle.jdbc.OracleDriver
URL=jdbc:oracle:thin:@your_host_name:1521:utf8112
user=username
password=password
```

If you use 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:

```
$class=atg.service.jdbc.MonitoredDataSource
dataSource=/atg/dynamo/service/jdbc/FakeXADataSource_switchA
```

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 ContentMgmt-UI –repository
/atg/web/viewmapping/ViewMappingRepository –import
"<ATGdir>/home/../ContentMgmt-UI/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 DCS-UI -repository
/atg/web/viewmapping/ViewMappingRepository -import "<ATGdir>/home/../DCS-
UI/install/data/viewmapping.xml"

bin/startSQLRepository -m DCS-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: Run the following three scripts only if you installed and configured a preview server on your Asset Management server. These import scripts configure some view mapping 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"
```

Important: Run the following script only if you enabled SSO on your Asset Management server.

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

ATG Search Tables

Not all ATG search tables may be removed during your migration from 10.2 to 11.0, because the ATG Search dynamo module was removed and the CIM migration tool does pick up the clean up scripts for that module from the migration kit.

You can manually remove the ATG Search tables by analyzing the contents of the cleanup script in the migration kit, but leaving them in place, will not cause any functional issues.

7 Application-Specific Post Migration Steps

After completing all tasks described in previous sections, review these migration steps for specific applications, beyond the migration steps described in previous chapters.

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

This chapter contains the following sections:

Oracle Commerce Core Commerce Notes

Information relating to Core Commerce is discussed in the following section.

Fractional Units Changes

Four methods were added to support fractional quantities in Core Commerce:

- `setQuantityWithFraction()`
- `getQuantityWithFraction()`
- `getQuantityDerivedAsFloatingPoint()`
- `isFractional()`

These four methods were added to these interfaces:

- `//product/DCS/main/Java/atg/commerce/order/CommerceItem.java`
- `//product/DCS/main/Java/atg/commerce/order/HandlingInstruction.java`
- `//product/DCS/main/Java/atg/CommerceItemRelationship.java`

Other Methods Added to Support Fractional Quantities

The method `getTotalCommerceItemCountWithFraction()` was added to:

`//product/DCS/main/Java/atg/commerce/order/CommerceItemContainer.java`

The method `getTotalCommerceItemCountWithFraction()` was added to:

`//product/DCS/main/Java/atg/commerce/order/CommerceItemContainer.java`

What You Should Do

You will need to implement these new methods in the classes that implement these interfaces.

Configurator Framework Changes

Several changes relating to the Configurator framework were made in this release.

New Methods

The methods `getConfiguratorId` and `setConfiguratorId` were added to the `atg.commerce.order.Order` interface.

What You Should Do

If you have implemented the Order interface without sub-classing `OrderImpl`, you will need to need to implement the new methods.

Changes to CommerceItemManager

Code in `CommerceItemManager` was changed to refer to new `SubCommercItem` and `ConfigurableSubCommerceItem` interfaces and to use the `CommerceItemContainer` interface instead of the `ConfigurableCommerceItem` class. As a result, some old methods are no longer called by out of the box code. In particular:

- `copySubItems(ConfigurableCommerceItem, ConfigurableCommerceItem)` is deprecated and no longer called from `mergeOrdersCopyCommerceItem`. `copySubItems(CommerceItemContainer, CommerceItemContainer)` is called instead.
- `addSubItemToConfigurableItem` calls `addAsSeparateSubItemToItemContainer` instead of `addAsSeparateSubItemToConfigurableItem`.
- `removeAllSubItemsFromConfigurableItem` calls `removeSubItemFromItemContainer` instead of `removeSubItemFromConfigurableItem`.

What You Should Do

If you overrode any of the bypassed methods, you may need to move their customizations to the replacement methods. In some cases, there are additional new methods that may be more appropriate for these customizations. Details can be found in the `CommerceItemManager` Javadoc.

References to the SubSkuCommerceItem.individualQuantity Property

Core Commerce code no longer refers to the `SubSkuCommerceItem.individualQuantity` property. The code uses the `quantity` and `quantityWithFraction` properties instead. The affected classes are:

- `atg.commerce.fulfillment.processor.ProcPurchaseConfigurableItem`
- `atg.commerce.pricing.ConfigurableItemPriceCalculator`
- `atg.commerce.pricing.priceLists.ConfigurableItemPriceListCalculator`
- `atg.commerce.pricing.priceLists.ConfigurableItemPriceListSaleCalculator`

Note: The `individualQuantity` property was not removed from `atg.commerce.order.SubSkuCommerceItem`, the `order load` and `save` processors and the order repository definition in case customer code depended on it.

What You Should Do

You can continue to fill in `individualQuantity` if you have code that refers to it. If you depend on Oracle pricing calculators, you can override a new `getSubSkuQuantity` method. The override should return `pSubItem.getIndividualQuantity()`.

Oracle Commerce Core Platform

Issues relating to Core Platform are discussed in the following section.

NavigationStateProcessor.process Method Change

During processing of the Endeca `NavigationState` it is typical to call `NavigationState.updateFilterState(filterState)`. This call creates a copy of the `NavigationState` object and applies the filters to it. The updated navigation state object is then returned.

The `NavigationStateProcessor.process` method was changed to allow the updated `NavigationState` object to be returned. This is a change to the `NavigationStateProcessor` interface, and the method process now returns a `NavigationState` object.

```
public void process (NavigationState pNavigationState)
```

has been changed to

```
public NavigationState process (NavigationState pNavigationState)
```

What You Should Do

Anywhere your code `implementsatg.endeca.assembler.navigation`, and `NavigationStateProcessoror` extends an implementation of this, update your `process` method to return a `NavigationState` object.

Note: A navigation state object is passed into the method so in many circumstances you may be just returning the same object passed into the `NavigationState` object.

Recommended upgrade of existing password hashes

While not required, it is recommended that you upgrade your existing password hash scheme.

What You Should Do

Review information about password hashing and the batch upgrade process that is available in the *Password Hashing* section of the *Personalization Programming Guide*.

Click to connect deprecated in OCServiceCenter 11.2

The following Click-To-Connect directories have been removed in the 11.2 release, for example:

```
<ATGdir>\CSC11.1\DCS-CSR or <ATGdir>\CSC11.0\DCS-CSR

<ATGdir>\Service11.1\Service or <ATGdir>\Service11.0\Service
```

What You Should Do

This is informational. No action is required.

B2BCommerce and QuincyFunds demo (DSSJ2EEDemo) modules deprecated in 11.2

If you are upgrading from 11.1 to 11.2 the B2BCommerce and QuincyFunds modules will not be migrated.

What You Should Do

This is informational. No action is required.

8 Post-Migration Task Checklist

After all migrations are complete, perform the following tasks:

6. If you use ATG Content Administration, you must update view mappings to receive user interface updates. See the Updating View Mappings section.
7. If you use 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 Content Administration Console. This step is necessary because a number of repositories (such as `ProductCatalog` and `Site`) are secured by default in this release.
8. Clear browser caches.
9. Clear the application server cache.

   For example, on JBoss, empty the contents of each server directory:

   ```
   /work/jboss.web/localhost
   ```
10. It is good practice to review any existing scenarios and restart them if appropriate.
11. Test the upgraded platform and applications (see Migration Testing).

9 Migration Testing

To verify the success of your migration production servers, follow these steps:

1. 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/install/data/viewmapping_preview.xml`, `SiteAdmin/Versioned/install/data/viewmapping_preview.xml`, and `DCS-UI/install/data/viewmapping_preview.xml`, you must assemble the versioned preview application and the Business Control Center with the `-layer Preview` switch. For more information about setting up preview, see the *Business Control Center Administration and Development Guide*.
2. Deploy the EAR files to the application server and start the production and asset management servers.
3. From the Oracle Commerce 11.2 Business Control Center, verify that you can view:
   - All internal users created in Oracle Commerce Platform 11.1, or earlier releases
   - All assets created in Oracle Commerce Platform 11.1, or earlier releases
4. Confirm that the Oracle Commerce Platform 11.2 production server contains all assets that were accessible on the previous releases of Oracle Commerce Platform.
5. Create some test projects and 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.