ORACLE®

ATG WEB COMMERCE

Version 10.1

Upgrade and Migration Guide 10.0.3 to 10.1

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Upgrade and Migration Guide 10.0.3 to 10.1

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1 Introduction

This guide describes how to upgrade from Oracle ATG Web Commerce 10.0.3 to 10.1. It is written for programmers, DBAs, site administrators, and ATG partners.

Before you begin migration:

1. Review the *New in ATG 10.1* (page 3) 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* (page 9) chapter.

This guide uses the convention `<ATGdir>` to represent the root directory for ATG products. By default, the Windows installation creates the root directory `C:\ATG\ATG10.1`, 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.

2 New in ATG 10.1

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

Oracle ATG Web Commerce Platform (page 3)

Oracle ATG Web Commerce Reference Store (page 5)

Oracle ATG Web Commerce Search (page 5)

Oracle ATG Web Commerce Business Intelligence (page 6)

Oracle ATG Web Commerce Service Center (page 6)

ATG Service (page 7)

Oracle ATG Web Commerce Platform

This section describes new platform features.

Site Administration

The following features are new to Site Administration. For full information, see the *ATG Multisite Administration Guide*.

- Site Duplication

  Site Administrators can now copy existing site configurations and duplicate a site based upon that configuration.

- Quick Edit Properties

  Site Administration allows the user to define Quick Edit properties that are site properties that can be overwritten when a site is duplicated. Properties are now divided between tabs within the Site Administration UI.

ATG Content Administration

The cache warming service of Oracle ATG Web Commerce improves application performance by reloading cached SQL repository data after it has been invalidated by a deployment. Cache warming attempts to return

your application's Java virtual machine cache to the state it was in before deployment. Cache warming is enabled by default.

External caching allows you to increase application performance by storing cached repository data in the JVM memory of an Oracle Coherence server.

A new direct SQL deployment feature allows you to write content directly to your database, supporting faster content deployment.

Oracle ATG Web Commerce

Previous versions of Oracle ATG Web Commerce separated out B2C and B2B functionality, with the B2C configuration as the default. B2B features were enabled separately, and B2C and B2B features could not be combined easily. Oracle ATG Web Commerce 10.1 combines both sets of features in the default installation; no additional work is required to enable B2B functionality.

The 10.1 release also includes the following coupon features:

- Support for serialized coupons (see Oracle ATG Web Commerce Merchandising)
- Ability to track coupon use by customers

Oracle ATG Web Commerce Merchandising

Oracle ATG Web Commerce Merchandising 10.1 includes the following features:

- Preview Enhancements

  Choose to preview how your site would look if your changes were deployed right now or at a future date and time.

- Multi Edit

  Apply the same change to multiple assets at the same time. You can use Multi Edit with catalog assets, promotion folders, promotions, coupons, and media assets. You cannot use Multi Edit with price lists, sites, site groups, facets, Search Merchandising assets, or targeting and segmentation assets.

- Visual Merchandising

  Provides a visual, intuitive way to organize assets and select them for editing. ATG 10.1 includes the following Visual Merchandising features:

  - Layout View—An editable preview session that is available when both preview and visual merchandising features are configured in your environment.
  - Light Table—A new collection editor that you use to reorder a category's fixed child products list. Artists and photographers use light tables to illuminate and organize media like photograph negatives and artwork for publication. Similarly, you can use the light table in ATG Merchandising to organize products in a category using product images.

- Enhanced Collection Editors

  New features allow you to reorganize collections faster.

- Export to CSV

You can now export assets from ATG Merchandising to .csv (comma separated values) files, in addition to .xls (Microsoft Excel) format.

- Gift with Purchase

  A new promotion template allows you to easily create Gift with Purchase promotions.

- Stacking Rules

  A new asset type allow you to specify which promotions can and cannot be combined at a very fine level of granularity.

- Coupon Enhancements

  New coupon features include the following:

  - Coupon tracking—The order pricing process tracks whether a promotion was granted to the customer via a coupon, and what coupon was used.
  - Coupon Batches—You can generate a specific number of coupons, each with a unique identifier, for targeted promotions.

Oracle ATG Web Commerce Reference Store

The following features are new to Oracle ATG Web Commerce Reference Store for version 10.1. For more information about these features, see the *ATG Commerce Reference Store Overview*.

- Examples of the new gift with purchase promotion type
- Use of promotion stacking rules, which define groups of promotions and specify which groups may be used together and which may not
- A user interface called Fluoroscope that reveals key JSP elements involved in rendering of site HTML pages
- Enhanced sorting options for lists of products, including sorting by price
- A display on product detail pages of the items the customer has recently viewed, with live links for returning to those products
- Optional integration with Oracle Recommendations On Demand, which displays dynamically generated product recommendations on site pages
- Availability of the evaluation installation on UNIX platforms as well as on Windows

Note: There is no migration path from older versions of Commerce Reference Store to version 10.1. To use version 10.1, install and configure a new instance of Commerce Reference Store using the instructions in the *ATG Commerce Reference Store Installation and Configuration Guide*.

Oracle ATG Web Commerce Search

Oracle ATG Web Commerce Search 10.1 includes the following new features:

- Indexing tasks are suspended during Content Administration deployments, preventing conflicts.
- Changes to site configuration automatically change the next indexing task to full indexing, preventing errors and eliminating a manual step.
- Search engine performance improvements.
- Indexing improvements for B2B Commerce applications.
- Enhancements to refinement generation to better handle switching data sources.
- Ability to compress query cache entries to reduce the size of the cache.

Oracle ATG Web Commerce Business Intelligence

Oracle ATG Web Commerce is now integrated with Oracle Business Intelligence (OBI). See the *ATG Business Intelligence Installation and Configuration Guide* for information on setting up your OBI integration. See the *ATG Reports Guide* for information on the reports provided as part of that integration.

Oracle ATG Web Commerce no longer supports integration with Cognos Business Intelligence. Reports provided as part of previous releases can no longer be used.

Warning: Oracle Web Commerce Outreach 10.1 does not integrate with Oracle Business Intelligence for reporting. Instead, it uses an existing instance of ATG Customer Intelligence to provide reports. After upgrading the ATG platform, Outreach, and your other applications, reconfigure the Outreach reporting components to point to your ATG Customer Intelligence installation. For a diagram showing the relationship between ATG Outreach and ATG Customer Intelligence, refer to the *ATG Multiple Application Integration Guide* in the Oracle ATG Web Commerce online documentation library.

Oracle ATG Web Commerce Service Center

The following features are new to Oracle ATG Web Commerce Service Center. For full information, see the *ATG Commerce Service Center Installation and Programming GuideATG Service Installation and Configuration Guide*.

- Gift with Purchase Promotions

  Commerce Service Center supports the Gift with Purchase promotions that are now implemented in Oracle ATG Web Commerce Merchandising, allowing agents who shop on behalf of a customer to award gifts, as well as process returned and exchanged orders that contain gifts.

- Updated UI

  The Service Center allows an agent to navigate faster to vital components using a newly designed Global Context Area.

- Indexing Improvements

  Administrators can now initiate indexes of sub-section of the order or profile repository, and see a status of the indexing process. Large indexes can be purged either on a schedule or manually.

- Simplified UI Customization

  The Commerce Service Center UI is now XML-based, as opposed to database-driven, allowing you to modify and customize UIs by defining separate XML files. All UI files are found in the new DCS-CSR-UI module.

ATG Service

The following features are new to ATG Service. For full information, see the *ATG Service Installation and Configuration GuideATG Service Installation and Configuration Guide*.

- Updated UI

  The Service Center allows an agent to navigate faster to vital components using a newly designed Global Context Area.

- Indexing Improvements

  Administrators can now initiate indexes of sub-section of the profile repository, and see a status of the indexing process. Large indexes can be purged either on a schedule or manually.

- Simplified UI Customization

  The UI is now XML-based, as opposed to database-driven, allowing you to modify and customize UIs by defining separate XML files. All UI files are found in the new Service-UI module.

3 Migration Steps Overview

Migrating from ATG 10.0.3 to ATG 10.1 can be divided into the following stages:

Pre-Migration Tasks (page 9)

ATG Installation (page 10)

Database Schema Migration (page 10)

Application-Specific Migration Tasks (page 12)

Post-Migration Tasks (page 12)

Migration Testing (page 13)

Pre-Migration Tasks

Note: In addition to the tasks noted 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* (page 31).

Before starting migration, complete the following tasks:

1. Back up your ATG 10.0.3 database.
2. Back up all of your `Publishing` and `PublishingAgent` directories—-for example, these CIM-generated directories under `<ATG10dir>/home/servers/`:
   - `atg_publishing_lockserver/Publishing`
   - `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.

ATG Installation

1. Install ATG 10.1 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/100to101sql`
   - Oracle ATG Web Commerce Search: `<ATGdir>/../Search10.1/SearchAdmin/migration/100to101sql`
   - ATG Service: `<ATGdir>`
3. Copy your existing configuration files and application modules to the ATG 10.1 installation. Update application code as necessary to conform to new ATG 10.1 functionality (see the *Migration Notes* (page 31) chapter).
4. Copy the directories listed from your ATG 10.0.3 installation into your ATG 10.1 installation:

   ```
   /home/Publishing/versionFileStore
   /home/servers/atg_production_lockserver/PublishingAgent
   ```

5. If you use ATG Service applications, copy the directories listed from your ATG 10.0.3 installation into your ATG 10.1 installation:

   ```
   /home/doc
   /home/localconfig/atg/registry/RepositoryGroups
   /home/servers/atg_publishing_lockserver/Publishing/versionFileStore
   /home/servers/atg_svcagent_lockserver/PublishingAgent
   /home/servers/atg_svcagent_lockserver/Publishing/versionFileStore
   /home/servers/atg_dw_loader_lockserver/PublishingAgent
   ```

6. If you use a Publishing Web Agent server, copy `/home/PublishingWebAgent` from your ATG 10.0.3 installation to your ATG 10.1 installation.

Database Schema Migration

ATG provides several migration kits 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:

- ATG platform
- ATG Search Administration

- ATG Service/ATG 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 *Oracle and DB2 Database Migration* (page 15) and the *MSSQL Database Migration* (page 19) chapters.

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 10.0.3 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
- *hostname*: 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-alias*: 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* (page 31).

Post-Migration Tasks

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

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

   ```
   /work/jboss.web/localhost
   ```

5. Test the upgraded platform and applications (see Migration Testing (page 13)).

Migration Testing

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

1. Assemble EAR files for the asset management and production servers using the `-layer md5` assembly option. See the Password Management Changes (page 32) section for information on this assembly flag.
2. Deploy the EAR files to the application server and start the production and asset management servers.
3. From the ATG 10.1 BCC, verify that you can view:
   - All internal users created in ATG 10.0.3
   - All assets created in ATG 10.0.3
4. Confirm that the ATG 10.1 production server contains all assets that were accessible on the ATG 10.0.3 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 Oracle and DB2 Database Migration

ATG 10.1 includes a number of enhancements to the database schemas used by ATG 10.0.3. The migration kit provides the batch files/shell scripts and DDL scripts needed to upgrade existing schemas in the following migration kit directory:

```
../db_components/database_type
```

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 (page 15)

Switching Schema Migration Scripts (page 16)

Publishing Schema Migration Scripts (page 17)

Data Warehouse Schema Migration Scripts (page 17)

Agent Schema Migration Scripts (page 17)

Also see the *Data Migration* (page 23) chapter for additional scripts that may be required, depending on your installed products, including the Run Drop Scripts (page 30) section

Production Core Schema Migration Scripts

Note: If you do not use a switching database, run the scripts listed in both this section and the Switching Schema Migration Scripts (page 16) section on your production core schema. Note that if you do this, you will get errors when the scripts run, and that it is strongly recommended to use a switching schema with ATG products.

Product	Migration Script	Prerequisites

Oracle ATG Web Commerce Platform	**Caution:** If you have B2BCommerce, do not run these scripts. They are included in the B2BCommerce upgrade batch file.
	
	`run_das_core.{bat|sh}`
	`run_dps_core.{bat|sh}`
		None

Product	Migration Script	Prerequisites
Oracle ATG Web Commerce (B2CCommerce)	`run_dcs_core.{bat|sh}`	ATG Platform
Oracle ATG Web Commerce (B2BCommerce)	`run_b2bcommerce_core_all.{bat|sh}` **Note**: Due to the merge of B2B and B2C features in 10.1, this is the last migration in which B2BCommerce scripts will be needed.	B2CCommerce

Oracle ATG Web Commerce Search	**Platform migration kit:**
	`run_daf_search_core.{bat|sh}`
	
	Search migration kit:
	
	`run_search_admin.{bat|sh}`
		ATG Platform

ATG Service	**Service migration kit:**
	`run_service_production.{bat|sh}`
	
	Search migration kit:
	
	Note: Do not run this script if you have already done so for Search Migration.
	
	`run_search_admin.{bat|sh}`
		ATG Platform;
		
		ATG Search

Oracle ATG Web Commerce Service Center	**Service migration kit:** If you do not have Oracle ATG Web Knowledge Manager, run the following script: run_dcs_csr_production.{bat|sh}	ATG Platform; ATG Search: B2CCommerce; ATG Service

Switching Schema Migration Scripts

Product	Migration Script	Prerequisites
Oracle ATG Web Commerce (B2CCommerce only)	`run_dcs_switching_all.{bat|sh}`	ATG Platform
Oracle ATG Web Commerce (B2BCommerce only)	`run_b2bcommerce_switching_all.{bat|sh}`	ATG Platform
ATG Service	`run_service_switching.{bat|sh}`	ATG Platform

Publishing Schema Migration Scripts

Product	Migration Script	Prerequisites
Oracle ATG Web Commerce Platform	`run_publishing_all.{bat|sh}` **Caution:** If you have B2BCommerce, do not run this script. It is included in the B2BCommerce upgrade batch file.	None
Oracle ATG Web Commerce (B2CCommerce)	`run_dcs_publishing_all.{bat|sh}`	ATG Platform
Oracle ATG Web Commerce (B2BCommerce)	`run_b2bcommerce_publishing_all.{bat|sh}`	ATG Commerce (B2CCommerce)

Data Warehouse Schema Migration Scripts

Product	Migration Script	Prerequisites
Base data warehouse	`run_arf_dw_base.{bat|sh}` **Note:** Do not run this script if you have previously installed Oracle ATG Web Knowledge Manager or Oracle ATG Web Commerce Service Center.	None
Oracle ATG Web Commerce	`run_dcs_dw.{bat|sh}`	Base data warehouse

Agent Schema Migration Scripts

Product	Migration Script	Prerequisites

ATG Service	**Platform migration kit**:
	`run_publishing_all.{bat|sh}`
	
	Service migration kit:
	`run_service_agent.{bat|sh}`
		None

5 MSSQL Database Migration

ATG 10.1 includes a number of enhancements to the database schemas used by ATG 10.0.3. The MSSQL migration kit provides the batch files and DDL scripts that you need to upgrade existing MSSQL schemas, in the following migration kit directory:

```
../db_components/mssql
```

Scripts can be found in the platform migration kit unless otherwise specified.

Production Core Schema MSSQL Migration Scripts (page 19)

Switching Schema MSSQL Migration Scripts (page 20)

Publishing Schema MSSQL Migration Scripts (page 21)

Data Warehouse Schema MSSQL Migration (page 21)

Agent Schema MSSQL Migration Scripts (page 22)

Also see the *Data Migration* (page 23) chapter for additional scripts that may be required, depending on your installed products, including the Run Drop Scripts (page 30) section

Production Core Schema MSSQL Migration Scripts

Product	Migration Script	Prerequisites

Oracle ATG Web Commerce Platform	**Caution:** If you have B2BCommerce, do not run these scripts. They are included in the B2BCommerce upgrade batch file.
	
	`run_das_core.bat`
	`run_dps_core.bat`
		None

Oracle ATG Web Commerce (B2CCommerce)	`run_dcs_core.bat`	ATG Platform

Product	Migration Script	Prerequisites
Oracle ATG Web Commerce (B2BCommerce)	`run_b2bcommerce_core_all.bat`	B2CCommerce

Oracle ATG Web Commerce Search	**Platform migration kit:**
	`run_daf_search_core.bat`
	Search migration kit:
	`run_search_admin.bat`
		ATG Platform

ATG Service	**Service migration kit:**
	`run_service_production.bat`
	If you have only CSC, not Knowledge Manager or Self Service, also run:
	`run_svc_util_ddl.bat`
	Search migration kit:
	Note: Do not run this script if you have already done so for Search Migration.
	`run_search_admin.bat`
		ATG Platform;
		ATG Search

Oracle ATG Web Commerce Service Center	**Service migration kit:** `run_dcs_csr_production.bat`	ATG Platform; ATG Search: B2CCommerce; ATG Service

Switching Schema MSSQL Migration Scripts

Product	Migration Script	Prerequisites
Oracle ATG Web Commerce Platform	`run_dps_core.bat`	None
Oracle ATG Web Commerce (B2CCommerce only)	`run_dcs_switching.bat`	ATG Platform

Product	Migration Script	Prerequisites
Oracle ATG Web Commerce (B2BCommerce only)	`run_b2bcommerce_switching_all.bat`	ATG Platform

Publishing Schema MSSQL Migration Scripts

Product	Migration Script	Prerequisites
Oracle ATG Web Commerce Platform	`run_publishing_all_bat.bat` **Caution:** If you have B2BCommerce, do not run these scripts. They are included in the B2BCommerce upgrade batch file.	None
Oracle ATG Web Commerce (B2CCommerce)	`run_dcs_publishing_all.bat`	ATG Platform
Oracle ATG Web Commerce (B2BCommerce)	`run_b2bcommerce_publishing_all.bat`	ATG Commerce (B2CCommerce)

Data Warehouse Schema MSSQL Migration

Product	Migration Script	Prerequisites
Base data warehouse	`run_arf_dw_base.bat` **Note:** If you have Oracle ATG Web Commerce Service Center or Oracle ATG Web Knowledge Manager, you do not need to run this script.	None
Oracle ATG Web Commerce	`run_dcs_dw.bat`	Base data warehouse

Agent Schema MSSQL Migration Scripts

Product	Migration Script	Prerequisites

ATG Service	**Platform migration kit**:
	`run_publishing_all.bat`
	
	Service migration kit:
	`run_service_agent.bat`
		None

6 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:

Update View Mappings (page 23)

ATG Content Administration Data Migration (page 25)

ATG Service Data Migration (page 25)

ATG Service/Commerce Service Center Framework Migration (page 29)

Run Drop Scripts (page 30)

Update View Mappings

Many ATG user interfaces rely on view mappings. Some of these interfaces have changed for ATG 10.1. If you use any of the following products or features, you must update your view mappings:

- ATG Content Administration
- Search Merchandising
- Faceted Search
- ATG Service
- Oracle ATG Web Commerce Service Center
- Oracle ATG Web Commerce Outreach
- Oracle ATG Web Commerce Search

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

```
$class=atg.service.jdbc.FakeXADataSource
```

```
driver=oracle.jdbc.OracleDriver
URL=jdbc:oracle:thin:@your_host_name:1521:utf8112
user=username
password=password
```

Run the following scripts on the indicated servers:

- Asset Management server and Agent server for all products:

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

  <ATGdir>/home/../BCC/install/importBCC.bat|sh

  <ATGdir>/home/../AssetUI/install/importAssetUI.bat|sh

  <ATGdir>/home/../DPS-UI/install/importDPSUI.bat|sh
  ```

- Asset Management server for Oracle ATG Web Knowledge Manager, Oracle ATG Web Commerce Service Center, and Merchandising:

  ```
  <ATGdir>/home/../SiteAdmin/Versioned/install/importSiteAdmin.bat|sh

  <ATGdir>/home/../SiteAdmin/Search/install/importSiteAdminSearch.bat|sh
  ```

- Asset Management server for Oracle ATG Web Commerce Service Center and Merchandising:

  ```
  <ATGdir>/home/../DCS-UI/install/importMerchandising.bat|sh
  ```

  Important: Before running the `importDCSUIVersioned` script, comment out the following line:

  ```
  bin/startSQLRepository -m BIZUI -repository
  /atg/userprofiling/InternalProfileRepository –import
  "${DYNAMO_HOME}/../DCS-UI/Versioned/install/data/users.xml"
  ```

  After commenting out the line, run the following scripts:

  ```
  <ATGdir>/home/../DCS-UI/Versioned/install/importDCSUIVersioned.bat|sh

  <ATGdir>/home/../DCS-UI/Search/install/importDCSUISearchCustomCatalogs.sh
  ```

- Asset Management server for Oracle ATG Web Commerce Search:

  ```
  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"
  ```

ATG Content Administration Data Migration

Follow these steps after migrating your database and before initializing ATG Content Administration targets.

1. Add the `Publishing.AbandonedReferenceMigration` module and the `-md5` configuration layer (see Password Management Changes (page 32)) to your publishing server startup list. Start the server.

2. Make sure there are no initialized targets in the system. If there are any such targets, export your topology to XML using the `/atg/epub/deploment/TopologyManager` component, then delete the targets from the Admin Console. You can re-import the XML or recreate your topology manually after migrating.

   If you previously mapped any repositories that depended on other repositories, you will probably have to update your repository mapping after migrating.

3. Navigate to the `atg/epub/deployment/migration/AbandonedReferenceMigration` component in the Dynamo Server Admin.

4. Click Migrate. You can see the status of the migration by refreshing the page.

5. Remove the `Publishing.AbandonedReferenceMigration` module from your startup list.

Note: If "Unable to update process" errors referencing Outreach workflows appear during the process of importing the ATG Content Administration schema, add `ACO.communication.DCS` to the startSQLRepository module list in the import command.

ATG Service Data Migration

This section explains how to migrate data for ATG Service from version 10.0.3 to version 10.1. Migration involves the following tasks:

1. Run the `Service.DBMigration.100to101` module

2. Import Agent Server Data

3. Import Publishing Data

Run the Service.DBMigration.100to101 Module

1. From the asset management server's `atg-ds.xml` file, copy this `<xa-datasource>` setting:

   ```
   <jndi-name>ATGDataWarehouseDS</jndi-name>
   ```

   to the agent server's `atg-ds.xml` file.

   Note: The `atg-ds.xml` file is in the application server's deployment directory. For example, on a JBoss application server, `atg-ds.xml` file is in the following directory:

   jboss-root`/jboss-as/server/atg_publishing_lockserver/deploy/`

2. If you use switching deployment, configure the switching data sources for the `Service.DBMigration` module in the following files:

- <ATGdir>/home/localconfig/atg/dynamo/service/jdbc/JTDataSource_switchA.properties:

  ```
  $class=atg.nucleus.JNDIReference
  JNDIName=java:/ATGSwitchingDS_A
  ```

- <ATGdir>/home/localconfig/atg/dynamo/service/jdbc/JTDataSource_switchB.properties:

  ```
  $class=atg.nucleus.JNDIReference
  JNDIName=java:/ATGSwitchingDS_B
  ```

Note: Replace ATGSwitchingDS_A and ATGSwitchingDS_B with the JNDI names for the switching data sources as they are configured in your application server's atg-ds.xml file.

3. In a command-line terminal, change to this directory:

   ```
   <ATGdir>/home/bin
   ```

4. Assemble the Service.DBMigration.100to101 module with the <ATGdir>/home/bin/runAssembler script as follows:

   ```
   runAssembler –server atg_svcagent_lockserver
   –standalone atg_svcagent_lockserver.ear
   -m Service.DBMigration.100to101
   ```

5. Start the module.

   Note: If you see an Abstract Deployment Context error, you might have two EAR files in the agent server's deployment directory. In this case, delete the extra EAR file.

6. When startup is complete (on display of the Nucleus Running message), stop the application server.

Import Agent Server Data

To import agent server data, follow these steps:

1. Deploy atg_svcagent_lockserver.ear.

2. Change to the following directory:

   ```
   <ATGdir>/home/localconfig/atg/dynamo/service/jdbc
   ```

3. Configure two FakeXADataSource properties files with the appropriate connection information:

   - FakeXADataSource.properties

     Set connection information for the agent schema.

   - FakeXADataSource_production.properties

     Set connection information for the production core schema.

   For information about configuring FakeXADataSource files, see the *ATG Service Installation and Configuration Guide*.

4. Update the view mappings in the publishing schema, if you have not already done so. See the Update View Mappings (page 23) section of this document.

5. Start the agent server. After startup is complete, let the server run for five minutes so it can initialize new publishing workflows, then shut it down.

6. Copy:

   `<ATGdir>/home/servers/atg_svcagent_lockserver`

   to this new directory:

   `<ATGdir>/home/servers/svcagent_import100to101`

7. In this directory, configure the agent server as indicated in the following table.

   Note: Create directories and properties files as needed.

Path	Configuration
`/atg/dynamo/service/jdbc`	`FakeXADataSource_agent.properties`: Points to the agent schema `FakeXADataSource_production.properties`: Points to the production schema. `FakeXADataSource.properties`: Points to the agent schema

`/atg/dynamo/service/jdbc`	If using switch deployment:
	
	`SwitchingDataSourceA.properties`:
	`$class=atg.service.jdbc.MonitoredDataSource`
	`dataSource=\`
	`/atg/dynamo/service/jdbc/`
	`FakeXADataSource_switchA`
	
	`SwitchingDataSourceB.properties`:
	`$class=atg.service.jdbc.MonitoredDataSource`
	`dataSource=\`
	`/atg/dynamo/service/jdbc/`
	`FakeXADataSource_switchB`
	
	`FakeXADataSource_switchA` and `FakeXADataSource_switchB` point to the switching schemas.

`/atg/reporting/datawarehouse`	`FakeXADataSource.properties`: Points to the data warehouse schema
`/atg/reporting/datawarehouse/loaders`	`FakeXADataSource.properties`: Points to the production schema
`/atg/search/routing`	`RoutingSearchService.properties`: `cacheService=`
`/atg/epub/deployment`	`DeploymentFulfiller.properties`: `enable=false`

Path	Configuration
/atg/assetregistry	AssetRegistry.properties: dataSource=\ /atg/dynamo/service/jdbc/JTDataSource_agent
/atg/search/repository	RefinementRepository.properties: dataSource=\ /atg/dynamo/service/jdbc/ JTDataSource_production

8. From the Service migration kit's /scripts directory, run this script:

   run-agent-import.{bat|sh} svcagent_import100to101

   Ignore any ScenarioManager errors.

9. From the Service migration kit's /scripts directory, run this script:

   run-production-import.sh agent_import100to101

   If you are using switching data sources, configure <ATGdir>/home/servers/svcagent_import100to101/localconfig/atg/svc/option/OptionRepository.properties:

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

   or

   dataSource=/atg/dynamo/service/jdbc/SwitchingDataSourceB

Import Publishing Data

1. Change to the following directory:

   <ATGdir>/home/localconfig/atg/dynamo/service/jdbc

2. Configure two FakeXADataSource properties files with the appropriate connection information:

   - FakeXADataSource.properties

     Set connection information for the publishing schema.

   - FakeXADataSource_production.properties

     Set connection information for the production core schema.

3. Update view mappings in the publishing schema, if you have not already done so. See the Update View Mappings (page 23) section.

4. Start the asset management server. Let the server run for several minutes after startup is complete so it can initialize new publishing workflows, then shut it down.

ATG Service/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 <ATGdir/home/servers/agent_import100to101/localconfig/atg/svc/ui/framework/ServiceFrameworkRepository_read.properties file as shown:

   ```
   dataSource=/atg/dynamo/service/jdbc/JTDataSource_production
   ```

   If you are using a switching datasource, configure <ATGdir>/home/servers/agent_import100to101/localconfig/atg/svc/ui/framework/ServiceFrameworkRepository_read.properties as shown:

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

2. Create a <ATGdir>/home/localconfig/atg/svc/framework/ directory.

3. Change to the <ATGdir>/Service10.1/Service/DBMigration/FrameworkDataMigration/scripts directory.

4. Change to the <ATGdir>/../Service10.1/Service/DBMigration/FrameworkDataMigration/scripts directory and run the following appropriate script based upon your environment:

   - Knowledge Manager Only

     ```
     run_knowledge_framework_data_migration.{bat|sh} agent_import100to101
     ```

     This script creates an <ATG10dir>/home/localconfig/atg/svc/framework/service_framework_knowledge.xml file that identifies differences between default databases and your customized databases.

   - Commerce Service Center Only

     ```
     run_csc_framework_data_migration.{bat|sh} agent_import100to101
     ```

     This script creates an <ATG10dir>/home/localconfig/atg/svc/framework/service_framework_csc.xml file that identifies differences between default databases and your customized databases.

   - Both Knowledge Manager and Commerce Service Center

     ```
     run_csc_knowledge_framework_data_migration.{bat|sh}
     agent_import100to101
     ```

     This script creates an <ATG10dir>/home/localconfig/atg/svc/framework/service_framework_csc_knowledge.xml file that identifies differences between default databases and your customized databases.

   Rename the output XML file that is generated by the script you run to serviceFramework.xml and add it to your customization module.

5. If you have customized Self Service, run the following script:

   ```
   run_self_service_framework_data_migration.sh agent_import100to101.
   ```

This script creates an output file named `service_framework_self_service.xml`. Rename this file `serviceFramework.xml` and add it to your customization module in the `/atg/svc/framework/config` directory.

6. Back up the `<ATGdir>/home/localconfig/atg/svc/framework/` directory.
7. Reassemble and redeploy your production and agent servers.

Run Drop Scripts

After you have finished data migration, run the following scripts to drop any tables that are no longer needed after migrating.

Important: Do not run these scripts until you have completed all database and data migration steps.

- Production Core schema with B2CCommerce:

  `drop_custom_catalog_user_ddl.sql`

- Production Core schema with B2B commerce:

  `drop_custom_catalog_user_ddl.sql`

  `drop_b2bcommerce_core_ddl.sql`

- Switching schema:

  `drop_b2bcommerce_switching_ddl.sql`

  `run_service_switching.{bat|sh}`

- Publishing schema with B2BCommerce:

  `drop_custom_catalog_user_ddl.sql`

  `drop_b2b_reporting_views.sql`

  `b2b_reporting_views.sql`

  `drop_b2bcommerce_core_ddl.sql`

  `drop_b2bcommerce_switching_ddl.sql`

  `dcs_publishing`

  `drop_custom_catalog_user_ddl.sql`

- Agent schema:

  `run_post_drop_agent.{bat|sh}`

  `run_post_drop_production.{bat|sh}`

7 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 Platform Notes (page 31)

Site Administration Notes (page 33)

Oracle ATG Web Commerce Notes (page 33)

Oracle ATG Web Commerce Outreach Notes (page 34)

Oracle ATG Web Commerce Search Notes (page 34)

ATG Service Notes (page 35)

Oracle ATG Web Commerce Service Center Notes (page 38)

Oracle ATG Web Commerce Reference Store Notes (page 39)

Oracle ATG Web Commerce Platform Notes

This section covers migration tasks that apply to all platform applications.

Taglib Version Changes

The DSP tag library includes enhancements to the `dsp:droplet` tag. The updated version of the library that includes these enhancements is 1.1. In order to use the enhancements, you must include the URI for the updated library in your Web application pages.

```
<%@ taglib prefix="dsp"
uri="http://www.atg.com/taglibs/daf/dspjspTaglib1_1" %>
```

Version 1.1 of the tag library requires that your web application use servlet version 2.5.

The updated DSP tag library is packaged along with the older version 1.0 which was used prior to Oracle ATG Web Commerce 10.1. If your Web application pages will not use the enhancements to `dsp:droplet`, you do not need to update the library version that they reference.

Use version 1.1 of the DSP tag library for any pages that you update and for all future page development.

Password Management Changes

To improve security, password management has been modified in ATG 10.1. The changes affect user profiles and the `admin` account. In both cases, the default password hasher is now much more robust than the one used in previous releases. In addition, internal accounts (such as the `admin` account and the accounts for Merchandising) are now configured to enforce rules about password strength and expiration.

Prior to version 10.1, the default password hasher for user profiles was the `/atg/dynamo/security/DigestPasswordHasher` component. This hasher, which is of class `atg.security.DigestPasswordHasher`, digests the password using the MD5 algorithm and then encodes the result using base 16 encoding. For the `admin` account, the default password hasher was `/atg/dynamo/security/MD5PasswordHasher`, which also uses the MD5 algorithm.

In version 10.1, the default hasher both for user profiles and for the admin account has been changed to the `/atg/dynamo/security/SaltedDigestPasswordHasher`, which is of class `atg.security.SaltedDigestPasswordHasher`. This class implements a much stronger hashing algorithm. `SaltedDigestPasswordHasher` digests the password using the SHA-256 algorithm with a random salt, and iteratively rehashes the result. The hash is then converted to a String using base 16 encoding.

Important: If you are upgrading to ATG 10.1 and have existing users whose passwords were hashed with the older `DigestPasswordHasher`, this change affects you. Existing users will not be able to log in, because the new hash value will not match the old one.

You can either force customers to create new passwords, or revert to the pre-10.1 settings. To revert to the older settings, you can start your application with the `md5` configuration layer. To enable this configuration layer, include the following flag to the `runAssembler` command when you assemble your application:

```
-layer md5
```

The settings provided by the `md5` layer are described below.

Settings in the md5 Configuration Layer

The `md5` configuration layer does the following:

- Sets the `passwordHasher` property of the following components to `/atg/dynamo/security/DigestPasswordHasher`:

  ```
  /atg/userprofiling/ExternalProfileUserDirectory
  /atg/userprofiling/InternalProfileUserDirectory
  /atg/userprofiling/InternalPropertyManager
  /atg/userprofiling/ProfileUserDirectory
  /atg/userprofiling/PropertyManager
  ```

- Sets the `passwordHasher` attribute in the `password` property of the `user` item descriptor of the external and internal profile repositories to `/atg/dynamo/security/DigestPasswordHasher`.

- Sets the `passwordHasher` property of the following components to `/atg/dynamo/security/MD5PasswordHasher`:

```
/atg/dynamo/security/AdminAccountManager
/atg/dynamo/security/AdminUserAuthority
```

- Sets the `enabled` property of the following components to `false`:

```
/atg/dynamo/security/passwordchecker/AdminPasswordRuleChecker
/atg/dynamo/security/passwordchecker/ExpiredPasswordAdminService
/atg/dynamo/security/passwordchecker/CIMPasswordRuleChecker
```

Site Administration Notes

Site Administration has introduced site tabs, which are configured using view mappings. In order to use these new site tabs, you must import the new default template. If you have made any changes to the old default template, you must import the new default template and then re-apply your changes. For information on site tabs and configuring view mappings in Site Administration, refer to the *ATG Multisite Administration Guide*.

Oracle ATG Web Commerce Notes

A major feature of ATG 10.1 is 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 do not need to make these changes immediately.

If you decide to postpone your application changes, you can continue to assemble your Commerce application with the B2BCommerce module as before. The module preserves old class names, property names, and behavior, and reconfigures your application where necessary to account for the merged functionality. No changes are required.

Warning: The B2BCommerce module will be removed from future releases.

If you decide to make your application changes as part of the 10.1 upgrade, the rest of this section describes those 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 `commercepipeline.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 (`setStimulusMarkers`, `setSalesChannel`, `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`.

Oracle ATG Web Commerce Outreach Notes

To migrate an ATG Outreach 10.0.3 installation to ATG Outreach 10.1, complete the following steps:

1. Review and follow the procedures described in the *Migration Steps Overview* (page 9). Make sure you stop all running campaigns, as described in the *ATG Outreach Guide for Business Users*.
2. Complete the procedures for updating the database as described in the appropriate Database Migration section of this guide.
3. Install and configure ATG Outreach 10.1 as described in the *ATG Outreach Administration and Development Guide*.
4. Move any custom pages (for example, custom opt-in or opt-out forms) deployed in the ATG Outreach Web application under `/ACO10.0.3/ACO/communication/common/j2ee-apps/Outreach.ear/Outreach.war`to `/ACO10.1/ACO/communication/common/j2ee-apps/Outreach.ear/Outreach.war`.

Also see the Oracle ATG Web Commerce Business Intelligence (page 6) section for important ATG Outreach information.

Oracle ATG Web Commerce Search Notes

This section discusses migration tasks for Search.

Deleting Old Indexes

Delete any old index files from the `deployshare` directory of your Search hosts before indexing with ATG Search 10.1.

Reindexing Search Content

After database schema migration is complete, you must reindex all of your search content. If an index includes items from the ATG Commerce catalog repository, complete the ATG Commerce migration process, including running the Catalog Maintenance Service, before reindexing.

ATG Service Notes

After you finish migrating the database schema and data for ATG Service from version 10.0.3 to 10.1, you must perform the following tasks:

- Start ATG Service Servers (page 35)
- Deploy from the Agent Server (page 35)
- Create the ATG Service Search Environment (page 35)
- Copy Custom ATG Service Workflows (page 36)
- Modify Framework Home Definition (page 36)
- Configure Self Service Server Attachments (page 36)

Start ATG Service Servers

Start the following servers:

- Production
- Agent
- Asset management
- Data warehouse loader

Deploy from the Agent Server

1. From the ATG Business Control Center, open ATG Content Administration and choose Browse Projects.
2. Advance the following projects to deployment:
   - `100to101ServiceFramework`
   - `100to101Option`

Create the ATG Service Search Environment

After completing the database migration tasks, create an Oracle ATG Web Commerce Search live indexing environment. See information about configuring search environments in the *ATG Service Installation and Configuration Guide*.

1. Open the Dynamo Server Admin on your live indexing host at `http://hostname:port/dyn/admin/nucleus/atg/search/routing/LiveIndexingService/`
2. Delete any old environments for LiveIndexingService.
3. Click the Create New Environment link. A button appears for creating profile search environments.
4. Click the button to create the environments and enter the details of your search engine. You can either select the check box for your existing machine or enter the address of another machine.
5. Click the Environments link to display the current default environments. Two environments, a live indexing and a bulk indexing, are created for the profile process.

   Note: If you choose different environment names than the default `ATGProfile`, you must edit the `/atg/userprofiling/search/ProfileSearchConfiguration` component to reflect the search environment names and corresponding logical partition names.
6. Use the Environment page to add, delete, or administer your environments.
7. Open the component `/atg/userprofiling/search/ProfileOutputConfig` and execute the `bulkLoad` method.

Copy Custom ATG Service Workflows

Copy custom workflows from the `localconfig/atg/registry/data/epubworkflows` directory of your ATG 10.0.3 server installation to the corresponding directory in the ATG 10.1 installation.

Modify Framework Home Definition

If you have any custom code that uses `ServiceFrameworkHomes`, you must modify your customizations to now use `ServiceFrameworkXMLHomes`, as the `ServiceFrameworkHomes` class has been removed.

The `ServiceFrameworkXMLHomes` 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 `ServiceFrameworkXMLHomes`.

Configure Self Service Server Attachments

In previous versions of Self Service, solution attachments are configured using the `WWWFileSystem` and file asset type. However, in 10.1, solution attachments are configured using the new `/atg/svc/epub/file/SolutionAttachmentFileSystem` and the `solutionAttachmentFileAsset` file asset type.

As such, you must change the asset file type of your existing solution attachment assets, and change your publishing target.

Adding the Solution Attachment File System

Add the SolutionAttachmentFileSystem to your Self Service server(s). You can install it on a single Self Service server if the deployment location is accessible by all of the Self Service servers within your environment. Or the attachments can be deployed to each Self Service server by providing each server with its own local copy of the attachments.

Note: The SolutionAttachmentFileSystem should not be installed on the Knowledge Manager servers.

Configuring the Solution Attachment File System

By default, solution attachments are deployed to the <ATGdir>/home/doc directory. However, this requires the EAR file to be exploded for deployment, as the deployment systems cannot use a standalone-packed EAR file. To use a packed EAR, you must modify the SolutionAttachmentFileSystem configuration and add a localDirectory attribute on your Self Service servers that points to a location outside of the /home directory that is accessible by Self Service.

1. Open the Business Control Center and launch the Service Administration tool.
2. Go to Service Admin > Service Admin Configuration > Service Project > Self Service > Global Self Service Settings.
3. In the PublishingWebAgent content deployment URL field, enter the URL for your Self Service Web site. For example, http://hostname:port/service.

   For the default port, see the *ATG Installation and Configuration Guide* for information on your application server.

Ensure that your server can deploy to the /atg/epub/file/SolutionAttachmentFileSystem directory.

1. Go to the Business Control Center > Content Administration > Admin Console > Configuration. Select the name of your Self Service server.
2. In the screen that appears, click on the Agents tab.
3. Below the Agent Name, make sure /atg/epub/file/SolutionAttachmentFileSystem appears in the Destinations area. If it does not appear, click on the agent name to add this directory to the list of Included File Systems.
4. Save your changes.
5. Use the ACC to open the /atg/svc/repository/service/util/AttachmentUtils component.
6. Change the value of the documentRootFolder attribute from /svc/documents to the name of the directory you wish to use.
7. Change the value of the imageRootFolder attribute from /svc/images to the name of the directory you wish to use.
8. Save your changes.

After adding the SolutionAttachmentFileSystem to the Self Service publishing agent, you must perform a full deployment. The deployment will copy the attachments to the new file location and remove them from the old location. You should keep the WWWFileSystem until after the full deployment so that the conversion process can remove the old attachments.

Oracle ATG Web Commerce Service Center Notes

After you have migrated your database schemas and data, perform the following post-migration procedures.

1. Deploy to Non-Versioned Repositories (page 38)
2. Create Search Environment (page 38)

Deploy to Non-Versioned Repositories

Note: The following procedure is required only if a publishing site is already set up on the agent server. If no publishing site is set up on the agent server, you can skip this procedure.

Start the agent server and log on to the Business Control Center. Navigate to the Project Browser. The Project Browser should display the following projects:

```
100to101Option
100to101SSHomePageOption
```

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 `ServiceFrameworkHomes`, you must modify your customizations to now use `ServiceFrameworkXMLHomes`, as the `ServiceFrameworkHomes` class has been removed.

The `ServiceFrameworkXMLHomes` 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 `ServiceFrameworkXMLHomes`.

Oracle ATG Web Commerce Reference Store Notes

ATG Commerce Reference Store (CRS) was rewritten for the 10.1 platform. To use the 10.1 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.