Oracle Fusion Cloud SCM

Data Extraction Tool

26A

Oracle Fusion Cloud SCM
Data Extraction Tool

26A

G40956-01

Author: Amrut Rao

Contents

Get Help

There are a number of ways to learn more about your product and interact with Oracle and other users.

Get Help in the Applications

Some application pages have help icons to give you access to contextual help. If you don't see any help icons on your page, click your user image or name in the global header and select Show Help Icons. If the page has contextual help, help icons will appear.

Get Training

Increase your knowledge of Oracle Cloud by taking courses at *Oracle University*.

Join Our Community

Use *Cloud Customer Connect* to get information from industry experts at Oracle and in the partner community. You can join forums to connect with other customers, post questions, suggest *ideas* for product enhancements, and watch events.

Share Your Feedback

We welcome your feedback about Oracle Applications user assistance. If you need clarification, find an error, or just want to tell us what you found helpful, we'd like to hear from you.

You can email your feedback to *oracle_fusion_applications_help_ww_grp@oracle.com*.

Thanks for helping us improve our user assistance!

1 Overview of the Data Extraction Tool

This playbook provides a comprehensive overview of the Data Extraction tool, outlining its core features.

The Data Extraction tool leverages a read-optimized data store to ensure faster and more reliable data extraction. By seamlessly integrating with the Oracle Autonomous Data Warehouse, the tool supports near real-time replication of data from Oracle Fusion Cloud Applications. Rather than extracting data directly from the transactional database of Oracle Fusion Applications, the tool performs data extracts against the replicated data. This approach significantly reduces the load on core applications by offloading data extraction to a read-optimized data store, improving overall performance and efficiency for both transactional activities and data extraction needs.

The tool uses a business object data model that simplifies data organization. Predefined business and extraction views make it easy to work with and extract data, without exposing the complex underlying architecture.

The solution supports:

- Selecting one or more business views or extraction views
- Full and incremental extracts
- On-demand runs or scheduled extractions
- Monitoring and viewing extract statuses

This innovative approach is designed as the long-term replacement for Business Intelligence Cloud Connector (BICC), offering a more modern, efficient, Redwood-based experience.

Feature Comparison

Comparison of BICC to the Data Extraction Tool

Feature	BICC	Data Extraction Tool
Performance	Medium	Very High
Schema type	Complicated view	Clean business object views
Incremental support	Limited	Full + optimized
Load on apps database	High	Near-zero
UI	Legacy	Redwood

Overall, the tool provides a high-performance, read-optimized, and user-friendly extraction experience for customers.

2 Before You Start

Enable Authorization Service

You must enable synchronization between Oracle Platform Security Services (OPSS) and the authorization service before assigning permissions to the integration job role.

First, confirm that the authorization service is enabled. You must be signed in as a user with access to the Functional Setup Manager.

1. From the navigator, select **My Enterprise** > **Setup and Maintenance**.
2. In the Setup and Maintenance work area, search for and open the **Manage Administrator Profile Values** task.
3. In the Search region, enter ORA_ASE_SAS_INTEGRATION_ENABLED in the Profile Option Code field, and click **Search**.
4. In the profile details region, verify that the Site profile level is set to Yes.

   If necessary, update the Profile Value to Yes, as shown in the screenshot below.
5. Click **Save and Close** to apply the change.

Create and Assign a Custom Job Role

1. From the navigator, select **Tools** > **Security Console**.
2. On the Roles tab, click **Create Role**.
3. Enter the basic information of the custom job role name.
4. Verify that Enable Permission Group is selected for the custom role.
5. Click **Next** to move through the subsequent pages. Skip the Function Security Policies and Data Security Policies pages.
6. On the Role Hierarchy page, click **Add Role**.
7. In the Add Role Membership dialog box, search for and add the following roles:
   - ORA_RCS_SUPPLY_CHAIN_INTEGRATION_SPECIALIST_JOB – Manage Extract Definitions and Extract Schedules
   - ESS Administrator Role – Manage Extract Jobs
8. Click **Add Role Membership** to add each role.
9. Click **Cancel** to close the dialog box.
10. In the Role Hierarchy page, open the Roles and Permission Groups tab and confirm that ORA_RCS_SUPPLY_CHAIN_INTEGRATION_SPECIALIST_JOB appears in the list.
11. Click **Next** on the Role Hierarchy page.
12. On the Segregation of Duties page, skip entering details and click **Next**.
13. On the Users page, click **Add User**.
14. In the Add User dialog box, search for and select the user to assign the role to.
15. Click **Add Selected Users** to add each role.

16. Click **Cancel** to close the dialog box.
17. Click **Next** to review the details of the role added on the Summary page.
18. Click **Save and Close**.

Enable Access to Generated Content on Oracle WebCenter Content

1. From the navigator, select **Tools** > **Security Console**.
2. On the Roles tab, click **Create Role**.
3. Enter the basic information of the custom job role name.
4. Click **Next** to move through the subsequent pages. Skip the Function Security Policies and Data Security Policies pages.
5. On the Role Hierarchy page, click **Add Role**.
6. In the Add Role Membership dialog box, search for OBIA_EXTRACTTRANSFORMLOAD_RWD, then click **Add Role Membership**. This role is required to view and download extract files from Oracle WebCenter Content.
7. Click **Cancel** to close the Add Role Membership dialog box, then click **Next**.
8. On the Segregation of Duties page, skip entering details and click **Next**.
9. On the Users page, click **Add User**.
10. In the Add User dialog box, search for and select the user to assign the role to.
11. Click **Add Selected Users**, then click **Cancel** to close the dialog box.
12. Click **Next**, review the details on the Summary page, and click **Save and Close**.

3 Extract Definition

Create an Extract Definition

1. From the navigator, select **Tools** > **Data Extraction**.
2. Click the **+ (Create)** icon.
3. On the Create Extract Definition page, enter the required details for the extract.
4. Click **Add** to add new objects.
5. Search for and select the objects you want to add to the extract definition.
6. Click **Add** to save the new objects.
7. In the **Attributes** column, click the **Select Attributes** link.
8. Search for and select the attributes you want to add to the object and click Update.

   > **Note:** By default, **timeCreated** and **timeUpdated** attributes are selected. These must remain selected for extraction to succeed.

9. Click **Define Rules** link to add new rules and filter the data set being extracted.
10. Define the rules in the Characteristics Values drawer, then click **Save**.
11. On the Create Extract Definition page, click **Create** to finalize the extract definition.

Add an Object to an Extract

1. From the navigator, select **Tools** > **Data Extraction**.
2. On the Create Extract Definition page, search for and click the edit icon next to the extract definition to which you want to add an object.
3. On the Edit Extract Defination page, click **Add**.
4. Select the new object and click **Add**.

Add an Attribute to an Object in an Extract

1. From the navigator, select **Tools** > **Data Extraction**.
2. On the Create Extract Definition page, select the extract definition whose object requires a new attribute.
3. In the **Objects and Attributes** section, click the **Select Attributes** link for the selected object.
4. Click **Update**.

Add Filtering Rules to an Object in an Extract

1. From the navigator, select **Tools** > **Data Extraction**.
2. On the Create Extract Definition page, select the object for which you want to define a rule.
3. In the Objects and Attributes section, select the object and click **Define Rule**.
4. Choose the relevant attributes and set the conditions for filtering the data.
5. Click **Add** to apply the rule.

Import Extract Definition

1. From the navigator, select **Tools** > **Data Extraction**.
2. On the Create Extract Definition page, click **Import**.
3. In the Import drawer, drag and drop the extract definition file to import.
4. Click **Import**.

Export Extract Definition

1. From the navigator, select **Tools** > **Data Extraction**.
2. On the Create Extract Definition page, select an extract definition and click **Export**.
3. Click **Save** to download the extract definition file.

4 Extract Schedules

Create an Extract Schedule

1. Navigate to the Extract Schedules page by selecting the **Create Extract Schedule** icon from the **Actions** menu on the Create Extract Definitions page, or by clicking the **Extract Schedules** horizontal tab at the bottom of the page.
2. Click the **+ Create** icon to create a new extract schedule.
3. On the New Extract Schedule page, enter the required details of the extract.
4. Select the desired recurrence for the extract schedule.
5. You can optionally choose the notification settings for the extract schedule and add the email address to which notifications should be sent.
6. Click **Create** to finalize the schedule.

Search for an Extract Schedule

1. Navigate to the Extract Schedules page by selecting the **Create Extract Schedule** icon from the **Actions** column on the Create Extract Definitions page, or by clicking the **Extract Schedules** horizontal tab at the bottom of the page.
2. Enter the name of the extract schedule you need to find.
3. Click **Search**.

Search and View the Details of an Extract Schedule

1. Navigate to the Extract Schedules page by selecting the **Create Extract Schedule** icon from the **Actions** column on the Create Extract Definitions page, or by clicking the **Extract Schedules** horizontal tab at the bottom of the page.
2. Enter the name of the extract schedule you need to find.
3. Click **Search**.
4. From the **Name** column, click the link to view the details of the corresponding extract schedule.
5. View the details of the extract schedule.

Suspend, Resume, Cancel, or Delete an Extract Schedule

1. Navigate to the Extract Schedules page by selecting the **Create Extract Schedule** icon from the **Actions** column on the Create Extract Definitions page, or by clicking the **Extract Schedules** horizontal tab at the bottom of the page.
2. On the Extract Schedules page, select the extract schedule that requires an action.
3. From the Action dropdown, select the appropriate action (e.g., Suspend, Resume, Cancel, Delete).

Import an Extract Schedule

1. Navigate to the Extract Schedules page by selecting the **Create Extract Schedule** icon from the **Actions** column on the Create Extract Definitions page, or by clicking the **Extract Schedules** horizontal tab at the bottom of the page.
2. From the **More Actions** dropdown, select **Import**.
3. Browse and select the file to be imported.
4. Click **Import** to upload the schedule.

Export an Extract Schedule

1. Navigate to the Extract Schedules page by selecting the **Create Extract Schedule** icon from the **Actions** column on the Create Extract Definitions page, or by clicking the **Extract Schedules** horizontal tab at the bottom of the page.
2. Select the extract schedules you want to export.
3. From the **More Actions** dropdown, select **Export** to download the selected schedules.

5 Extract Jobs

Suspend, Cancel, or Resume an Extract Job

1. From the navigator, select **Tools** > **Data Extraction**.
2. On the Extract Defination page, select the Extract Jobs tab.
3. On the Extract Jobs page, select the extract job that requires an action.
4. From the **Action** dropdown, choose **Suspend**, **Cancel**, or **Resume**.

Search for an Extract Job

1. From the navigator, select **Tools** > **Data Extraction**.
2. On the Extract Defination page, select the Extract Jobs tab.
3. Enter the name of the extract job you want to find.
4. Click **Search** to locate the job.

6 Map BICC Data to Business Object Data

This section explains how the generated Excel spreadsheet maps BICC data to business object data and how to use the spreadsheet to understand what data can be extracted and how it's structured.

The spreadsheet serves as a reference to help you identify extractable BICC data and its corresponding mapping in business objects. Since each Oracle Fusion Applications release introduces new features, business objects, and BICC views, the mapping is updated regularly. Always download the latest version to stay aligned with recent changes.

Access the Mapping Spreadsheet

Download the *BossBV_to_BICC_Database_Mapping* spreadsheet. The spreadsheet is regenerated with each Oracle Fusion Applications release and posted on My Oracle Support (KA1401). Always download the latest version to ensure you're using the most current mappings.

Spreadsheet Structure

The spreadsheet contains two worksheets, each serving a distinct purpose:

- **Release Information**: Describes mapping changes introduced in each Oracle Fusion Applications release. Use this worksheet to track newly added views and changes to existing mappings.
- **BOSS BV to Database Tables**: Provides the detailed mapping between BICC public view objects and business objects available in the read-optimized data store.

When a BICC public view object is a flat extract, it can be mapped directly to the corresponding business object available in read-optimized data store. The mapping is defined at two levels:

- From the BICC public view object to the business object
- From individual attributes in the BICC view and the business object view, highlighting commonalities and differences

Column Descriptions

These columns in the BOSS BV to Database Tables worksheet describe how BICC views map to business objects and database tables:

- Column A – Display name of the business object view as shown in the tool
- Column B – Internal name of the business object view
- Column C – Path and name of the BICC public view object
- Column F – Commonality indicator that identifies the database table shared by both the BICC public view object and the business object

Columns D, E, and G describe attribute-level mappings. After the underlying database table is identified, its columns are mapped to both the BICC view and the business object view.

In Column E, some attributes appear in dot notation, which indicates a navigation path. Business objects convert foreign key references into object references. For example, the database table INV_ABC_CLASSES contains the column

ORGANIZATION_ID. In the BICC public view object, this appears as OrganizationId. In the business object, the value is retrieved through an object reference to the organization instance and is shown as organization.id.