Oracle

Oracle® BI Cloud Connector Console
Creating a Business Intelligence Cloud Extract

1.0
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Preface

This preface introduces information sources that can help you use the application and this guide.

Using Oracle Applications

To find guides for Oracle Applications, go to the Oracle Help Center.

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1 Overview to Extracting Data from FA Cloud Sources

Overview to Extracting Fusion Applications Cloud Data

Introduction to extracting data from Oracle Fusion Applications Cloud data sources.

Topics

• Extracting Data from a Fusion Applications Cloud Data Source

Extracting Data from a Fusion Applications Cloud Data Source

To extract data from a Fusion Applications Cloud data source, you use the BI Cloud Connector Console to schedule a once-only or regular data load, known as a Cloud Extract. For example, you might extract data from Oracle Fusion HCM Cloud. You can load the extracted data into an Oracle Cloud Storage Service area or into an Oracle Universal Content Management (UCM) server.
Starting BI Cloud Connector Console

To extract Fusion Applications Cloud data, you use BI Cloud Connector Console, which is deployed on your Fusion Applications pod.

You start BI Cloud Connector Console using a HTTP URL based on the following format: http://FA OHS Host:FA OHS Port/biacm. You can also start BI Cloud Connector Console using the Web link and login details supplied to you by Oracle Cloud Support.
Loading Data into a Cloud Storage Service Area
To perform a Cloud Extract into an Oracle Cloud Storage Service area, you select the Cloud Storage Service storage type in BI Cloud Connector Console.

Loading Data into a UCM Storage Area
To perform a Cloud Extract into a UCM storage area, you select the UCM storage type in BI Cloud Connector Console.

Scheduling a Cloud Extract
To keep your data up-to-date, you use the Manage Extract Schedules option in BI Cloud Connector Console to create a regular Cloud Extract. For example, you might schedule a Cloud Extract to execute at 2.00 AM each day.

Monitoring a Cloud Extract
To monitor the last extract run, you use the Manage Extract Schedules page in BI Cloud Connector Console.
2 Dialog Reference

Provisioning a User for BI Cloud Connector Console Access

To provision access to the BI Cloud Connector for a user, use the Security Console to create an administrative role that inherits BICC privileges from existing roles and assign the user to that role.

To provision a user:

1. In Fusion, navigate to the Security Console in the Navigator.
2. In the Security Console, create a BIACM_ADMIN role.
   a. Click **Create Role**.
   b. In the Basic Information page, enter the following values and click **Next**.

<table>
<thead>
<tr>
<th>Role Name</th>
<th>BIACM_ADMIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Role Code</td>
<td>BIACM_ADMIN</td>
</tr>
<tr>
<td>Role Category</td>
<td>BI - Abstract Roles</td>
</tr>
</tbody>
</table>

   c. Click the **Add** icon in the Role Hierarchy list
   d. In the Add Role Membership dialog box, search for **ESS**.
   e. In the search results, confirm that the ESS Administrator role appears, then click **Add Role Membership**.
   f. Search for **ORA_ASM_APPLICATION_IMPLEMENTATION_ADMIN_ABSTRACT** and click **Add Role Membership**.
   g. Close the Add Role Membership dialog box.
   h. Click **Next**.
   i. In the Users page, click **Add User**.
   j. In the Add User dialog box, search for the name of the user you want to assign access to, then click **Add User to Role**.
   k. Close the Add User dialog box.
   l. Click **Next**.
   m. Click **Save and Close**.

Provisioning a User to Access BI Cloud Connector Content in Universal Content Management

To provision access to the BI Cloud Connector content in Universal Content Management (UCM), use the Security Console to create an administrative role and assign a user to that role.

To provision an administrator:

1. In Fusion, navigate to the Security Console in the Navigator.
2. In the Security Console, create a BICC_UCM_CONTENT_ADMIN role.
   a. Click **Create Role**.
   b. In the Basic Information page, enter the following values and click **Next**.

<table>
<thead>
<tr>
<th>Role Name</th>
<th>BICC_UCM_CONTENT_ADMIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Role Code</td>
<td>BICC_UCM_CONTENT_ADMIN</td>
</tr>
<tr>
<td>Role Category</td>
<td>BI - Abstract Roles</td>
</tr>
</tbody>
</table>

   c. In the Add Role Membership dialog box, search for **OBIA_EXTRACTTRANSFORMLOAD_RWD** and click **Add Role Membership**.
   d. Close the Add Role Membership dialog box.
   e. In the Users page, click **Add User**.
   f. In the Add User dialog box, search for the name of the user you want to assign access to, then click **Add User to Role**.
   g. Close the Add User dialog box.
   h. Click **Next**.
   i. Click **Save and Close**.

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**BI Cloud Connector Console Enabled Data Stores Page**

Use BI Cloud Connector Console to extract Business Intelligence data from a Fusion Applications Cloud data source into an Oracle Storage Service or UCM server. For instructions on loading data, refer to the Business Intelligence documentation for your product. If you’re using BI Cloud Connector Console with Oracle BI Applications, before you start, refer to the Fusion Applications compatibility matrix for BI Cloud Connector Console to ensure that your product version is supported.

**How to Use the Cloud Extract Configuration and Execution Tool**

When you log in, use the Enabled Data Stores dialog to search the View Objects (VOs) by Offering that are enabled for extract. To view a list of enabled Data Stores for an Offering, click the **Configure Cloud Extract** button in the panel tab and select the **Configure Cloud Extract** link, select an Offering, and use the **Data Store for Offering** list to view the Data Stores and their last extract date and other properties.

To extract Business Intelligence data from a Fusion Applications Cloud data source, perform the following tasks in the order they appear in the panel tab:

- Click the **Configure External Storage** button and select the **Configure External Storage** link to specify the storage area into which you want to load the data.
- Click the **Manage Extract Schedules** button and select the **Manage Extract Schedules** button to create a schedule for one-time or recurring data extraction and to monitor the last scheduled run and verify completion.

**How to Review View Object to Database Lineage Mappings**

To review the mappings between BI VOs and database tables and columns, review the following documents and spreadsheets on Oracle Cloud Customer Connect.

- R13.x HCM BI Cloud Adapter BI View Object to Database Lineage Mapping Spreadsheet
- R13.x FSCM BI Cloud Adapter BI View Object to Database Lineage Mapping Spreadsheet
Specify Which Offerings to Extract

Click the Configure Cloud Extract button in the panel tab and select the Configure Cloud Extract link to open the Offerings dialog, where you can select offerings that you want to extract, specify VOs from which to extract data, and set up once-only or regular data extracts.

<table>
<thead>
<tr>
<th>Field Name or Option</th>
<th>How to Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Offerings list</td>
<td>View the offerings that are available for extraction. Click an offering to view and configure its data stores.</td>
</tr>
<tr>
<td>Search</td>
<td>Enter an offering name and click Search to locate it in the list.</td>
</tr>
<tr>
<td>Actions &gt; Create Offering</td>
<td>Create a new offering and specify its VOs.</td>
</tr>
<tr>
<td>Actions &gt; Reset Last Extract Date</td>
<td>Specify the last extract date from which extraction should begin for incremental loads.</td>
</tr>
<tr>
<td>Actions &gt; Configure Flex Label Languages</td>
<td>Specify a language for flexfield labels.</td>
</tr>
<tr>
<td>Actions &gt; Extract Administration</td>
<td>Specify extract parameters, including: job timeout; CSV file size to split files by; retry parameters in case of intermittent BI Server connection or query failures; and extract schedule email notification frequency and recipients.</td>
</tr>
<tr>
<td>List View</td>
<td>View the Offerings list as a list with Actions icon for each offering.</td>
</tr>
<tr>
<td>Grid View</td>
<td>View the Offerings list as a grid with Actions icon for each offering.</td>
</tr>
<tr>
<td>Offering Action &gt; Delete</td>
<td>Delete the currently selected offering and its corresponding VO association. Available only for user-defined offerings.</td>
</tr>
<tr>
<td>Offering Action &gt; Edit</td>
<td>Change the Offering Name and VO association of the currently selected offering.</td>
</tr>
<tr>
<td>Offering Action &gt; Reset to Shipped Content</td>
<td>Reset the offering to shipped content, removing any changes made.</td>
</tr>
<tr>
<td>Offering Action &gt; Reset to Full Extract</td>
<td>Reset the last extract date so that a full data load is performed for the offering, instead of an incremental load. You typically use this option if your business requirements have changed or when fact data has been corrupted.</td>
</tr>
<tr>
<td>Actions &gt; Export Customization</td>
<td>Collect modification information from source environment and export as compressed CSV files.</td>
</tr>
<tr>
<td>Actions &gt; Import Customization</td>
<td>Apply modifications to the destination environment from exported compressed CSV files.</td>
</tr>
</tbody>
</table>

Click the Configure Cloud Extract button in the panel tab and select the Export Customization link to collect modification information from the source environment and export it as compressed CSV files. Select the Import Customization link to modifications to the destination environment from exported compressed CSV files. In the Import Customization dialog box, click Browse and specify exported customization files, then click Import.
## Data Store for Offering: Offering name

Click an offering in the Offerings list open the Data Store for Offering: Offering Name page, where you can specify View Objects VO’s from which to extract data.

<table>
<thead>
<tr>
<th>Field Name or Option</th>
<th>How to Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Stores list</td>
<td>View the data areas that are available for extraction for the offering you clicked.</td>
</tr>
<tr>
<td>Actions &gt; Advanced Extract Configuration</td>
<td>Specify initial extract date and chunking for creation date and primary key for full loads.</td>
</tr>
<tr>
<td>View &gt; Columns</td>
<td>Select columns to be displayed in the Offerings list.</td>
</tr>
<tr>
<td>View &gt; Detach</td>
<td>Pop out the section of the dialog box so you can see more data.</td>
</tr>
<tr>
<td>View &gt; Reorder Columns</td>
<td>Change the display order of the columns in the Data Stores list.</td>
</tr>
<tr>
<td>View &gt; Query By Example</td>
<td>Filter the displayed results by entering the first few letters of a name.</td>
</tr>
<tr>
<td>Add</td>
<td>Specify a new Data Store for an offering. For example, you might want to add a view object (VO) for extraction. To add a VO, in the wizard’s Datastore details page, provide the VO name, then specify whether you want to disable effective data filter, which allows for extraction of all historical records, if required. Enter any required query filter, using column references following the format <strong>DATASTORE</strong>.&lt;BI VO Column Name&gt;. In the wizard’s Select Columns page, select the column types for the select query from the Column Filter drop-down list, then uncheck the columns you don’t want included in the SELECT list. If the VO is defined as Effective Date Disabled, you can select the Natural Key option for a Primary Key Column to define a natural key.</td>
</tr>
<tr>
<td>Remove</td>
<td>Delete the currently selected Data Store.</td>
</tr>
<tr>
<td>Query by Example</td>
<td>Filter the displayed results by entering the first few letters of a name.</td>
</tr>
<tr>
<td>Detach</td>
<td>Pop out the section of the dialog box so you can see more data.</td>
</tr>
<tr>
<td>Actions &gt; Reset to Full Extract</td>
<td>Reset the last extract date so that a full data load is performed at the next load for the data store/VO, instead of an incremental load. You typically use this option if your business requirements have changed or if fact data has been corrupted.</td>
</tr>
<tr>
<td>Actions &gt; Reset to Shipped Content</td>
<td>Reset the VO to shipped content, removing any changes made.</td>
</tr>
<tr>
<td>Actions &gt; Export Metadata Definition</td>
<td>Export metadata definition for the VO.</td>
</tr>
<tr>
<td>Actions &gt; Export UI Label</td>
<td>Export user interface labels for the VO. A zip file is generated with files for each configured language.</td>
</tr>
<tr>
<td>Actions &gt; Test Data Store</td>
<td>Test extract from the selected Data Store.</td>
</tr>
<tr>
<td>Actions &gt; Advanced Extract Configuration</td>
<td>Specify initial extract date and chunking for creation date and primary key for full loads.</td>
</tr>
<tr>
<td>Last Extract Date</td>
<td>View the date and time when the Data Store was last extracted.</td>
</tr>
<tr>
<td>Preview</td>
<td>View the VO definition and column list.</td>
</tr>
<tr>
<td>Refresh</td>
<td>Refreshes the Data Store list.</td>
</tr>
<tr>
<td>Export Columns</td>
<td>Export metadata definition or user interface labels for a selected VO. Select whether you want to export Metadata Definition or UI Labels. For UI Labels, a zip file is generated with files for each configured language.</td>
</tr>
<tr>
<td>Test Data Store</td>
<td>Test extract from the selected Data Store.</td>
</tr>
<tr>
<td>Extract Now</td>
<td>Run an extract.</td>
</tr>
<tr>
<td>Query By Example</td>
<td>Filter the displayed results by entering the first few letters of a name.</td>
</tr>
</tbody>
</table>
Creating a Business Intelligence Cloud Extract

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<table>
<thead>
<tr>
<th>Field Name or Option</th>
<th>How to Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Last Extract Date</td>
<td>View the date and time when the Data Store was last extracted.</td>
</tr>
<tr>
<td>Enabled for Extract</td>
<td>Select the check box next to every Data Store from which you want to extract data. When an offering is enabled for extract in the Offering list, all Data Stores are selected by default.</td>
</tr>
</tbody>
</table>

Click the **Configure Cloud Extract** button in the panel tab and select the **Review Cloud Extract Configuration** link to return to the Enabled Data Stores dialog box.

Perform Advanced Extract Configuration

Select Actions > Advanced Extract Configuration in the Data Store for Offering page of the Offering dialog to open the Advanced Extract Configuration For: Data store name dialog, where you can set advanced extract configuration for a selected data store. For full extracts, you can enable chunking by creation date or by primary key.

Filter and/or Chunk By Creation Date Columns

<table>
<thead>
<tr>
<th>Field Name or Option</th>
<th>How to Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Column list</td>
<td>View the columns that are available for designation as creation date. Select the Is Creation Date option for the appropriate column.</td>
</tr>
<tr>
<td>Initial Extract Date</td>
<td>Optionally, specify the initial date from which the full extract should be performed. This option requires selection of the Is Creation Date option for a column or columns in the column list which represent the Creation Date.</td>
</tr>
<tr>
<td>Support chunking</td>
<td>Optionally, select By Creation Date to chunk by to specify a number of days by which to extract date range batches or chunks of data. This option requires selection of the Is Creation Date option for a column or columns in the column list which represent the Creation Date.</td>
</tr>
<tr>
<td>Number of Days</td>
<td>If you have selected to support chunking by creation date, specify the number of days, for example 365, by which to chunk extracts.</td>
</tr>
</tbody>
</table>

Chunk By Primary Key Column

<table>
<thead>
<tr>
<th>Field Name or Option</th>
<th>How to Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Support chunking</td>
<td>Support chunking by numeric primary key. This option requires a single numeric primary key column for the data store.</td>
</tr>
<tr>
<td>Number of Rows</td>
<td>Specify a number of rows to chunk extracts by.</td>
</tr>
</tbody>
</table>

Create and Manage an Offering

Click Actions > Create Offering in the Offerings dialog to open the Manage Offering dialog, where you can specify a new offering and associate a data store.
Manage Offering

<table>
<thead>
<tr>
<th>Field Name</th>
<th>How to Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Offering Code</td>
<td>Enter a code for the offering.</td>
</tr>
<tr>
<td>Offering Name</td>
<td>Enter a name for the offering. This is the name that will appear in the list of Business Intelligence Applications Offerings in the Configure Cloud Extract dialog.</td>
</tr>
<tr>
<td>Offering Description</td>
<td>Optionally, enter a description.</td>
</tr>
</tbody>
</table>

Associate Data Store

In the Associate Data Store section of the dialog, filter for the data store, then select and click the **Move selected items to other list** button to add the VO, then click **Save**.

Reset Last Extract Date For All Enabled Data Stores

Click Actions > Reset to Full Extract in the Offerings dialog to open the Reset to Full Extract dialog.

Reset the last extract date so that a full data load is performed for the selected Offering, instead of an incremental load. You typically use this option if your business requirements have changed or when fact data has been corrupted. Click **Yes** to reset.

Configure Flexfield Label Languages

Click Actions > Configure Flex Label Languages in the Offerings dialog to open the Configure Flex Label Languages dialog, in which you can specify a language for flex labels.

In the Flex Label Languages list, scroll to select the language you want, then click the **Move selected items to other list** button to add it to the selected list, then click **Save and Close**. To suspend extraction of flexfield labels during extraction, select the **Suppress Flex Label Extract** option.

Configure Extract Parameters

Click Actions > Extract Administration to open the Configure Extract Parameters dialog, where you can specify parameters for extracts.

Job

In the Job timeout in hours field, enter the number of hours before a job times out. The default is 1. By default, the job fails on timeout. Deselect the Job on timeout force fail if you prefer that timed out jobs not be failed.
File Parameters
In the Split files by size in gigabytes field, specify the file size by which extracted CSV files are divided for a single VO. The default is 1 GB. You can set the file size from one to five GB.

Retry Parameters
During extraction, connections to the BI Server or queries may fail, causing retries. In the Analytic server connection retry limit field, specify the number of connection attempts made to complete the extraction. In the Analytic server query retry limit field, specify the number of times a query is resubmitted.

Scheduled Job Notification
To send notifications when scheduled extract events occur, select the notifications you want, upon extract start, success, or failure. In the Mail To Addresses, enter email addresses, separated by commas, to which you want notifications sent.

Configure Where to Load Data
Click the Configure External Storage button in the panel tab and select the Configure External Storage link to open the Configure External Storage dialog, where you can specify the storage area into which to load the Cloud data. For example, to load into an Oracle Cloud Storage Service, you select the Cloud Storage Service check box under Storage Type.

<table>
<thead>
<tr>
<th>Field Name</th>
<th>How to Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage Type</td>
<td>Select UCM to load extracted Cloud data into a Universal Content Management (UCM) Server. Select Cloud Storage Service to load extracted Cloud data into an Oracle Storage Service.</td>
</tr>
</tbody>
</table>

Storage Type — UCM
Specify the connection details for a Universal Content Management (UCM) on-premises data source using the following fields:

<table>
<thead>
<tr>
<th>Field Name</th>
<th>How to Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protocol</td>
<td>Specify http for non-SSL, or https for SSL. If you select https here, you must also enable HTTPS on the UCM server, using the UCM Server Console.</td>
</tr>
<tr>
<td>Host</td>
<td>Specify the host name for the UCM Server. For example, myserver.company.com</td>
</tr>
<tr>
<td>Port</td>
<td>Specify the port number of the UCM Server (optional). For example, 7012.</td>
</tr>
<tr>
<td>Download Folder</td>
<td>Shows the directory in the domain server where the Batch Extract file is downloaded to reset extract dates before the extraction process.</td>
</tr>
<tr>
<td>Upload Folder</td>
<td>Shows the directory in the domain server where files will be temporarily extracted by the cloud extractor before uploading to UCM.</td>
</tr>
</tbody>
</table>

Storage Type — Cloud Storage Service
Specify the connection details for an Oracle Storage Service using the following fields:
### Field Name | How to Use
--- | ---
**Protocol** | Specify http for non-SSL, or https for SSL connection.
**Host** | Specify the Host name for the Oracle Storage Service. For example, mystorage.storage.oraclecloud.com.
**Port** | Specify the port number (optional).
**User Name** | Specify the user that is provisioned to load data. The user should have privileges to upload files in the container specified. User credentials will be stored in the Weblogic credential store under oracle.apps.security/FUSION_APPS_OBIA_STORAGESERV_USER-KEY.
**Password** | Specify the password for the user specified in the User Name field.
**Download Folder** | Shows the directory in the domain server where the Batch Extract file is downloaded to reset extract dates before the extraction process.
**Upload Folder** | Shows the directory in the domain server where files will be temporarily extracted by the cloud extractor before uploading to the storage service.
**Service Name** | Specify the service name of the Oracle Cloud Storage Service. For example, gse-otbie1.
**Container** | Specify the name of the container that is allocated to upload extracted files.
**Data Encryption — Support Encryption** | If you want to encrypt communication, then select this check box, and use the Import Certificate option below to specify the encryption keys.
**Import Certificate** | Click Browse and navigate to and select the location of the key file, or type the literal path location and file name.

### Preview a Data Store

Click a data store link in the Data Store for Offering dialog to open the Data Store Preview dialog, where you can preview a selected data store’s columns and enable and disable the data store and its effective date filter.

### Field Name | How to Use
--- | ---
**Data Store** | Displays the data store VO name of the selected data store.
**Enabled** | Specify whether the data store is enabled for the offering.
**Disable Effective date filter** | Specify whether to disable the effective date filter so that a full extract is performed on the data store.
**Query Filter** | View or edit the effective date filter for the data store.
**Last Extract Date** | View the date of the last extract.
**Data Store Columns list** | View the columns in the data store. Includes columns indicating whether each is used in the incremental filter for incremental extracts, appears in the Select list for the data store, or is a primary key.
Specify When to Extract Data

Select Manage Extract Schedules to open the Manage Extract Schedules dialog, where you can set up a once-only or regular data extract of Business Intelligence data from an Oracle Applications Cloud data source. For example, you might want to extract data from your Cloud data source once per day at midnight. You can also monitor an extract here.

<table>
<thead>
<tr>
<th>Field Name</th>
<th>How to Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schedules</td>
<td>This list shows currently defined schedules. Use the Add option to set up once-only or regular data extract. Use the Edit option to update the details of the currently selected schedule. Use the Delete option to delete the currently selected schedule.</td>
</tr>
<tr>
<td>Schedule Requests</td>
<td>This list shows the details of data extract processes for the Schedule that is currently selected in the Schedules list above. A new row is created in the table every time an Cloud extract request is processed. Use the Delete option to delete the details of the currently selected request. If you delete a schedule job from this list, then this does not remove the BI Cloud data that has been extracted and loaded by that job.</td>
</tr>
</tbody>
</table>

Monitor a Cloud Extract

In the Schedules dialog, click Actions and select the option for the last run corresponding to the job type, Cloud Data Extract or Deleted Record Extract. Each job type displays in its own dialog, which lists the last cloud extract or deleted record extract status of each VO with status of SUCCESS or FAILURE for each data store and error messages in the case of failures. The ESS Request Id column displays the job for which the VO extraction last ran.

Scheduled jobs also write logs that can be used to review issues causing errors or shared with Oracle Support to resolve a service request. To download logs, click Help and select Download Logs.

Create a New or Edit an Existing Data Extract Schedule

In the Manage Extract Schedules dialog, click Add or Edit to create a new Cloud data extract or edit an existing one. For example, you might want to extract data from your Cloud data source once per day at midnight. For a once-only data extract, use the Simple option in the Recurrence drop down list. You can only create a schedule if there is not an active schedule for the selected job type (for example, Cloud Data Extract, Deleted Record Extract, or Data and Delete Record Extract). Click Next to specify the data stores for extract for an offering in the Data Store List page.

Schedule Details

<table>
<thead>
<tr>
<th>Field Name or Option</th>
<th>How to Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Job Type</td>
<td>To extract data, select Cloud Data Extract. To sync the Cloud system to your source data, select Deleted Record Extract, which extracts primary key values to identify deleted records. To combine both Cloud Data Extract and Delete Record Extract into one job, select Data and Deleted Record Extract. Two manifests are generated</td>
</tr>
<tr>
<td>Name</td>
<td>Specify a short name to identify the schedule in the Schedules list.</td>
</tr>
</tbody>
</table>
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Field Name or Option | How to Use
--- | ---
Description | Specify a brief description to identify the schedule, which is only displayed on the Edit Schedule dialog.

Global Data Store List? | Accept the default of No to select data stores for extraction. Select Yes to use the Global Data Store.

Recurrence | Specify how often you want the extract to be performed. To create a once-only data extract, you select Simple.

Hourly Interval | Specify the number of hours to perform hourly interval extracts by (if you select Hourly in the Recurrence drop-down list).

Date and Time | Specify the date and time to perform a once-only extract (if you select Simple in the Recurrence drop-down list).

Time | Specify the time to start an extract, in the format HH:MM:SS AM|PM. For example, 3:00:00 AM.

Day | For weekly schedules, select the check box next to each day on which you want to extract data. For Monthly or Yearly extracts, select the day of the month on which you want to extract data.

Month | For Yearly (annual) schedules, select the month in which you want to extract data.

Data Store List

Field Name or Option | How to Use
--- | ---
Offering | Select an offering to extract.

Data Store List | Lists the data stores for a selected offering.

Enabled for Extract | Select to enable a data store for extract.

Query By Example | Filter the displayed results by entering the first few letters of a name.

Detach | Pop out the section of the dialog box so you can see more data.

View Last Run Status for a Cloud Data Extract

In the Manage Extract Schedules dialog, click Actions and select Last Run Status for Cloud Data Extract to open the Last Run Status for Cloud Data Extract dialog, which provides logging and status for each VO for the last extraction job for each, indicated by the ESS Request Id. Click Detach to expand the dialog to full size.

Statues

The status for each data store is displayed in the Status column. In the event of an error, the error message is displayed in the Message column. Status includes:

- ERROR: Extract failed with the error message displayed in the Message column.
- EXTRACT_SUCCESS: Extract ran successfully.
- UPLOAD_SUCCESS: Upload to external storage ran successfully.
View Last Run Status for a Deleted Record Extract

In the Manage Extract Schedules dialog, click Actions and select Last Run Status for Deleted Record Extract to open the Last Run Status for Deleted Record Extract dialog, which provides logging and status for each VO for the last extraction job for each, indicated by the ESS Request Id. Click Detach to expand the dialog to full size.

_statuses

The status for each data store is displayed in the Status column. In the event of an error, the error message is displayed in the Message column. Status includes:

- ERROR: Extract failed with the error message displayed in the Message column.
- EXTRACT_SUCCESS: Extract ran successfully.
- UPLOAD_SUCCESS: Upload to external storage ran successfully.

Manage Files in External Storage for Custom Warehouse Integration

During extract, view object (VO) data in compressed files is uploaded to external storage with a manifest file that lists the files from the current batch. Use the information in the manifest file to process data. For a custom warehouse implementation, you must manage the manifest file and its content.

Data Uploaded to External Storage

The following files are uploaded as compressed files with .zip extensions with the file name format of file_[VONAME]-batch[number]-[TIMESTAMP]:

- Comma-separated value (.csv) files: VO data and are uploaded as compressed files.
- Metadata comma-separated value (.mdcsv) files: metadata files with details about columns and data type definitions for Flex VOs.
- Primary Key comma-separated value (.pecsv) files: data files with primary key column values used to identify deleted records in the warehouse.

The uploaded files are detailed in a manifest file, whose name format depends on the configured storage area. Universal Content Manager (UCM) manifest files are named MANIFEST.MF. Cloud Storage Service manifest files have a file name format of MANIFEST-[TIMESTAMP].MF

Note: To support parsing of the comma-separated value files, column values are wrapped in double quotes. The double quote value in the column is escaped using two consecutive double quote values. Because of this, a custom delimiter isn’t required.
Manifest File Formats and Content
The first line of a manifest file describes the source version. In UCM MANIFEST.MF files, the body of the file contains information about each of the uploaded files in the format vo_name;ucm_document_id:md5_check_sum_value. For example, in the below sample line from a UCM manifest file, 9526 is the UCM document ID of the uploaded file, b2af2bf486366e2c2cb7598849f0df2e is the check sum value.

crmanalyticsam_partiesanalyticsam_customer;9526:b2af2bf486366e2c2cb7598849f0df2e

In Cloud Storage Service MANIFEST-[TIMESTAMP].MF files, the body of the file contains information about each of the uploaded files in the format extract_uploaded_filename:md5_check_sum_value. For example, in the below sample line from a Storage Service manifest file, file_fscmtoptopmodelam_analyticsserviceam_currenciestlpvo-batch1209716923-20150615_105514.zip is the uploaded file name, and b2af2bf486366e2c2cb7598849f0df2e is the check sum value.

file_fscmtoptopmodelam_analyticsserviceam_currenciestlpvo-batch1209716923-20150615_105514.zip;fa981be0caf70a9a52df3aceb9998cc9

Downloading and Processing Content from UCM
To download extracted content from UCM, search for DOCTITLE MANIFEST.MF and sort by DOCDATE in DESC order. This provides all of the manifest UCM files in order by docid. Download each MANIFEST file using docid. Parse the lines in the manifest file to download data files using their respective ucm_document_ids. You can use the md5_check_sum_value to verify downloaded file content. After downloading the files, unzip them and process them based on their file extension, for example by .csv, .mdcsv, or .pecsv.

Once the data files are processed, rename the corresponding MANIFEST.MF file in UCM by adding a timestamp prefix in the format [TIMESTAMP]_MANIFEST.MF so that it’s not reused in the next download from UCM. Expire the manifest file and all the processed files after 30 days so that UCM storage doesn’t run out of space.

Downloading and Processing Content from Cloud Storage Service
To download extracted content from Cloud Storage Service, search for MANIFEST- and sort by filename. This provides all of the manifest files in order by date. Download each manifest file and parse the lines in the manifest file to download data files using their respective file names. You can use the md5_check_sum_value to verify downloaded file content. After downloading the files, unzip them and process them based on their file extension, for example by .csv, .mdcsv, or .pecsv.

Once the data files are processed, rename the corresponding manifest file in Storage Service by adding a timestamp prefix in the format [TIMESTAMP]_MANIFEST so that it’s not reused in the next download. Expire the manifest file and all the processed files after 30 days so that storage doesn’t run out of space.

BI Cloud Connector Console Preferences
Set preferences for the BI Cloud Connector Console, including regional settings, display language, and accessibility options.

<table>
<thead>
<tr>
<th>Preference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regional</td>
<td>Select the regional options, which include indicating the country, date format, time format, number format, currency, and time zone.</td>
</tr>
<tr>
<td>Language</td>
<td>Select the display language for the BI Cloud Connector Console.</td>
</tr>
</tbody>
</table>
### Preference

<table>
<thead>
<tr>
<th>Preference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accessibility</td>
<td>Select accessibility options, such as use of a screen reader, high color contrast, and font size.</td>
</tr>
</tbody>
</table>

To set Regional and Language preferences, click the **Preferences** button in the panel tab and select the **Regional** link or **Language** link. To save your changes, click **Save**. To set Accessibility preferences, click the **Accessibility** button, make changes to your settings, and click **Apply**.