Informatica®

Informatica® Cloud Data Integration

OpenAir Connector

Informatica Cloud Data Integration OpenAir Connector
July 2022

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Preface

Use *Data Integration OpenAir Connector* to learn how to set up and use OpenAir Connector. Learn to create an OpenAir connection and run synchronization tasks in Cloud Data Integration.

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CHAPTER 1

Introduction to OpenAir Connector

This chapter includes the following topics:

- OpenAir Connector Overview, 6
- OpenAir Supported Task Types and Object Types, 7
- Enabling OpenAir Connector, 12
- Recommendations, 13

OpenAir Connector Overview

OpenAir Connector enables you to securely read data from or write data to OpenAir. You can use OpenAir objects as sources and targets in the synchronization tasks.

For example, you can use OpenAir Connector to synchronize contacts between Salesforce and OpenAir.

OpenAir Connector supports the following tasks:

- All OpenAir entity objects perform CRUD operations.
- While retrieving feeds from OpenAir account, OpenAir supports filters such as Equals, Not Equals, Is Null, Is Not Null, Less Than, Less than or Equals, Greater Than, and Greater Than or Equals.
- OpenAir supports the AND conjunction between filters.
- OpenAir offers filtering on any column supported by the OpenAir entity objects.

OpenAir Supported Task Types and Object Types

Features are different entities of OpenAir Connector which contains set of objects. You can select the feature while creating an OpenAir Connector.

The following table lists the feature objects and task operations supported by OpenAir Connector:

Objects	**Task Operations**					
	Read	Lookup	Insert	Modify	Upsert	Delete
Contact	Yes	Yes	Yes	Yes	Yes	Yes
Project	Yes	Yes	Yes	Yes	Yes	Yes
Resourceprofile	Yes	Yes	Yes	Yes	Yes	No
Resourceprofile_type	Yes	Yes	Yes	Yes	Yes	Yes
IssueStage	Yes	Yes	Yes	Yes	Yes	No
Revenue_recognition_transaction	Yes	Yes	Yes	Yes	Yes	No
Dealschedule	Yes	Yes	Yes	No	No	No
Budget	Yes	Yes	Yes	Yes	Yes	No
Category_5	Yes	Yes	Yes	Yes	Yes	No
UserWorkschedule	Yes	Yes	No	No	No	No
Projectbillingrule	Yes	Yes	Yes	Yes	Yes	No
Payment	Yes	Yes	Yes	Yes	Yes	Yes
Approvalprocess	Yes	Yes	No	No	No	No
Leave_accrual_rule	Yes	Yes	Yes	Yes	Yes	No
User	Yes	Yes	Yes	Yes	No	Yes
Attributeset	Yes	Yes	No	No	No	No
Ccrate	Yes	Yes	No	No	No	No
TagGroup	Yes	Yes	No	No	No	No
RevenueStage	Yes	Yes	No	No	No	No

Objects	Task Operations					
Uprate	Yes	Yes	Yes	Yes	Yes	No
Timesheet	Yes	Yes	Yes	Yes	Yes	Yes
Scheduleexception	Yes	Yes	No	No	No	No
Projectgroup	Yes	Yes	Yes	Yes	Yes	No
Dealcontact	Yes	Yes	No	No	No	No
CustField	Yes	Yes	Yes	Yes	Yes	No
IssueStatus	Yes	Yes	Yes	Yes	Yes	No
Workspacelink	Yes	Yes	Yes	Yes	Yes	No
Proposal	Yes	Yes	No	No	No	No
Slip	Yes	Yes	Yes	Yes	Yes	Yes
Currency	Yes	Yes	Yes	Yes	Yes	No
Customer	Yes	Yes	Yes	Yes	Yes	Yes
BookingType	Yes	Yes	Yes	Yes	Yes	No
Fulfillment	Yes	Yes	No	No	No	No
Estimateadjustment	Yes	Yes	No	No	No	No
Approval	No	No	No	No	No	No
RevenueContainer	Yes	Yes	No	No	No	No
History	Yes	Yes	No	No	No	No
Task	Yes	Yes	Yes	Yes	Yes	Yes
Repeat	Yes	Yes	Yes	Yes	Yes	No
Issue	Yes	Yes	Yes	Yes	Yes	Yes
Schedulerequest_item	Yes	Yes	Yes	Yes	Yes	Yes
Agreement	Yes	Yes	Yes	Yes	Yes	Yes
Category_1	Yes	Yes	Yes	Yes	Yes	No
ImportExport	Yes	Yes	Yes	Yes	Yes	No

Objects	Task Operations					
Workspaceuser	Yes	Yes	Yes	Yes	Yes	No
Company	Yes	Yes	Yes	Yes	Yes	No
Timetype	Yes	Yes	Yes	Yes	Yes	Yes
Revenue_recognition_rule_amount	Yes	Yes	Yes	Yes	Yes	No
Customerpo_to_project	Yes	Yes	Yes	Yes	Yes	No
Estimate	Yes	Yes	No	No	No	No
Jobcode	Yes	Yes	Yes	Yes	Yes	No
Ticket	Yes	Yes	Yes	Yes	Yes	Yes
Event	Yes	Yes	Yes	Yes	Yes	No
TaskTimecard	Yes	Yes	No	No	No	No
TaxLocation	Yes	Yes	Yes	Yes	Yes	No
InvoiceLayout	Yes	Yes	No	No	No	No
Revenue_recognition_rule	Yes	Yes	Yes	Yes	Yes	No
Payrolltype	Yes	Yes	Yes	Yes	Yes	Yes
Actualcost	Yes	Yes	Yes	Yes	Yes	No
Customerpo	Yes	Yes	Yes	Yes	Yes	Yes
Projectstage	Yes	Yes	Yes	Yes	Yes	Yes
Department	Yes	Yes	Yes	Yes	Yes	Yes
Estimatemarkup	Yes	Yes	No	No	No	No
IssueSeverity	Yes	Yes	Yes	Yes	Yes	No
LoadedCost	Yes	Yes	Yes	Yes	Yes	No
Filterset	Yes	Yes	No	No	No	No
Category_4	Yes	Yes	Yes	Yes	Yes	No
Viewfilterrule	Yes	Yes	No	No	No	No

Objects	Task Operations					
TagGroupAttribute	Yes	Yes	No	No	No	No
BudgetAllocation	Yes	Yes	Yes	Yes	Yes	No
Leave_accrual_transaction	Yes	Yes	Yes	Yes	Yes	No
Ratecard	Yes	Yes	Yes	Yes	Yes	No
Slipstage	Yes	Yes	Yes	Yes	Yes	No
Projectlocation	Yes	Yes	No	No	No	No
Projecttask_type	Yes	Yes	Yes	Yes	Yes	No
Request_item	Yes	Yes	No	No	No	No
Purchaserequest	Yes	Yes	No	No	No	No
Projectbillingtransaction	Yes	Yes	No	No	No	No
TaxRate	Yes	Yes	Yes	Yes	Yes	No
Viewfilter	Yes	Yes	No	No	No	No
TargetUtilization	Yes	Yes	Yes	Yes	Yes	Yes
Deal	Yes	Yes	No	No	No	No
SlipProjection	Yes	Yes	No	No	No	No
Address	No	No	Yes	No	No	No
Invoice	Yes	Yes	Yes	Yes	Yes	Yes
ForexInput	Yes	Yes	Yes	Yes	Yes	No
Error	Yes	Yes	No	No	No	No
Category_2	Yes	Yes	Yes	Yes	Yes	No
Costtype	Yes	Yes	Yes	Yes	Yes	No
Attachment	Yes	Yes	Yes	Yes	Yes	Yes
Envelope	Yes	Yes	Yes	Yes	Yes	Yes

Objects	Task Operations					
Todo	Yes	Yes	No	No	No	No
Purchaser	Yes	Yes	No	No	No	No
Booking	Yes	Yes	Yes	Yes	Yes	Yes
Attribute	Yes	Yes	No	No	No	No
Timecard	Yes	Yes	No	No	No	No
Category	Yes	Yes	Yes	Yes	Yes	Yes
FormPermissionField	Yes	Yes	No	No	No	No
Purchaseorder	Yes	Yes	Yes	Yes	Yes	Yes
Projecttask	Yes	Yes	Yes	Yes	Yes	Yes
Estimateexpense	Yes	Yes	No	No	No	No
Purchase_item	Yes	Yes	Yes	Yes	Yes	Yes
Preference	Yes	Yes	Yes	Yes	Yes	No
Schedulebyday	Yes	Yes	No	No	No	No
Currencyrate	Yes	Yes	No	No	No	No
Category_3	Yes	Yes	Yes	Yes	Yes	No
Agreement_to_project	Yes	Yes	Yes	Yes	Yes	Yes
Reimbursement	Yes	Yes	Yes	Yes	Yes	Yes
Product	Yes	Yes	Yes	Yes	Yes	No
Projecttaskassign	Yes	Yes	Yes	Yes	Yes	Yes
Paymenttype	Yes	Yes	Yes	Yes	Yes	Yes
Proposalblock	Yes	Yes	No	No	No	No
Schedulerequest	Yes	Yes	Yes	Yes	Yes	Yes
Report	Yes	Yes	No	No	No	No

Objects	Task Operations					
Hierarchy	Yes	Yes	Yes	Yes	Yes	No
Estimatelabor	Yes	Yes	No	No	No	No
HierarchyNode	Yes	Yes	Yes	Yes	Yes	Yes
Vendor	Yes	Yes	Yes	Yes	Yes	Yes
IssueSource	Yes	Yes	Yes	Yes	Yes	No
Paymentterms	Yes	Yes	Yes	Yes	Yes	No
Leave_accrual_rule_to_user	Yes	Yes	Yes	Yes	Yes	No
Item	Yes	Yes	Yes	Yes	Yes	Yes
Costcategory	Yes	Yes	Yes	Yes	Yes	No
IssueCategory	Yes	Yes	Yes	Yes	Yes	No
Costcenter	Yes	Yes	Yes	Yes	Yes	No
Entitytag	Yes	Yes	Yes	Yes	Yes	Yes
Projectassign	Yes	Yes	Yes	Yes	Yes	No
Estimatephase	Yes	Yes	No	No	No	No
RateCardItem	Yes	Yes	Yes	Yes	Yes	No
Module	Yes	Yes	No	No	No	No
Term	Yes	Yes	No	No	No	No

Enabling OpenAir Connector

Contact Informatica Global Customer Support to enable OpenAir Connector.

It takes 15 minutes for the OpenAir Connector to download to Secure Agent after it is enabled.

Recommendations

OpenAir Connector recommends that you use the OpenAir data dictionary to read the data type access and fetch values from the OpenAir objects.

You need to define the custom object in the Web Service Definition Language and create the metadata stub if your OpenAir account has a custom object.

While handling reserved characters in advanced data filters, you need to be careful using special characters.

You need to include the custom object entry in the properties file `OpenAirCodes.properties` in Secure Agent connector path under the section *TABLENAME*.

When you use special characters follow the following rules:

- Single quote (') must precede with /
- Double quote (") must precede with \
- Use \\ for backslash
- Use // for forward-slash

CHAPTER 2

OpenAir Connections

This chapter includes the following topics:

- OpenAir Connections Overview, 14
- OpenAir connection properties, 14

OpenAir Connections Overview

Create an OpenAir connection to connect to OpenAir and read data from or write data to OpenAir buckets.

You can use OpenAir connections in synchronization tasks, mapping tasks, and mappings.

OpenAir connection properties

When you create an OpenAir connection, you must configure the connection properties.

The following table describes the OpenAir connection properties:

Property	Description
Secure Agent	The Secure Agent used to access OpenAir.
Username	User name of the OpenAir account.
Password	Password of the OpenAir account.
Company	Enter the company name.
API NameSpace	Enter the API NameSpace.
API Key	Enter the API Key.
Client Name	Enter the client name.
WSDL Url	Enter WSDL URL.
Endpoint Url	Enter end-point URL.

Property	Description
Batch Size	Enter the OpenAir write batch size. Default is 100.
Version	Enter the version number.
Enable Logging	Select to enable logging.

CHAPTER 3

Synchronization Task with OpenAir Connector

This chapter includes the following topics:

- OpenAir Sources in Synchronization Task, 16
- OpenAir Targets in Synchronizationn Tasks, 17
- Defining Precision of Fields, 17
- Data Filters, 18

OpenAir Sources in Synchronization Task

You can configure the OpenAir source properties on the **Source** page of the Synchronization Task wizard.

The following table describes the OpenAir source properties:

Property	Description
Connection	Name of the OpenAir source connection.
Source Type	Type of the OpenAir source object available.
Source Object	Name of the source object.
Display technical names instead of labels	Displays technical names instead of business names.
Display source fields in alphabetical order	Displays source fields in alphabetical order. By default, fields appear in the order returned by the source system.

OpenAir Targets in Synchronizationn Tasks

You can use a single OpenAir object as a target in a synchronization task.

The following table describes the OpenAir target properties:

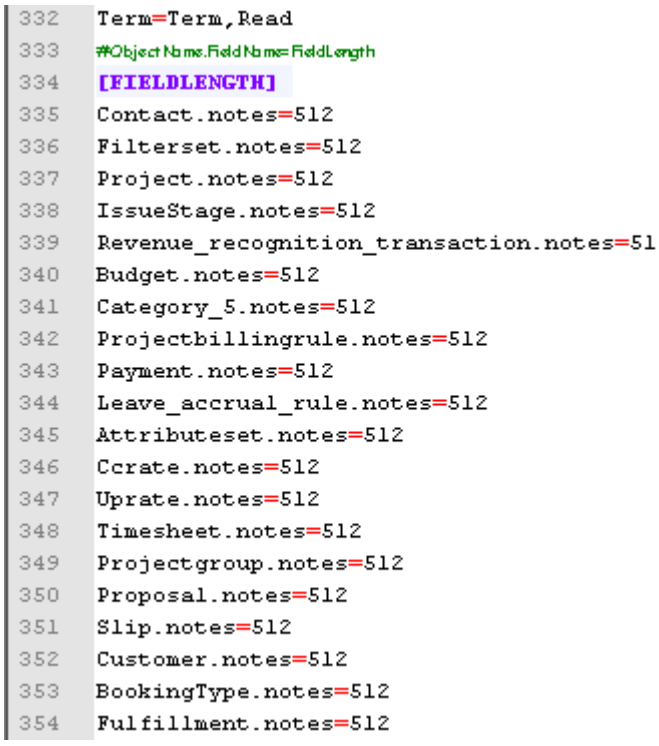
Property	Description
Connection	Name of the OpenAir target connection.
Target Object	Name of the OpenAir target object.
Child Object	This attribute is not applicable for OpenAir Connector.
Display target fields in alphabetical order	Displays target fields in alphabetical order. By default, fields appear in the order returned by the target system

Defining Precision of Fields

All fields are defined as string data type according to OpenAir Web Service Definition Language. You need to use a default precision of 255 characters for all string data type for a connector code.

You need to define the fields in `OpenAirCodes.properties` file to override the default value of 255 characters. These fields are downloaded in the Secure Agent path when OpenAir Connector is enabled.

The following image shows how to define field in the property file:



```
Term=Term,Read
#Object Name.Field Name=FieldLength
[FIELDLENGTH]
Contact.notes=512
Filterset.notes=512
Project.notes=512
IssueStage.notes=512
Revenue_recognition_transaction.notes=51
Budget.notes=512
Category_5.notes=512
Projectbillingrule.notes=512
Payment.notes=512
Leave_accrual_rule.notes=512
Attributeset.notes=512
Ccrate.notes=512
Uprate.notes=512
Timesheet.notes=512
Projectgroup.notes=512
Proposal.notes=512
Slip.notes=512
Customer.notes=512
BookingType.notes=512
Fulfillment.notes=512
```

You find the property file in the following path:

- `<Secure Agent installation directory>\downloads\<latest connector zip package>\package \plugins\<Plugin ID>`
- `<Secure Agent installation directory>\downloads\<latest connector zip package>\package \rdtm\javalib\<Plugin ID>`

  Note: Property file in both the paths must be in synchronized manner.

Data Filters

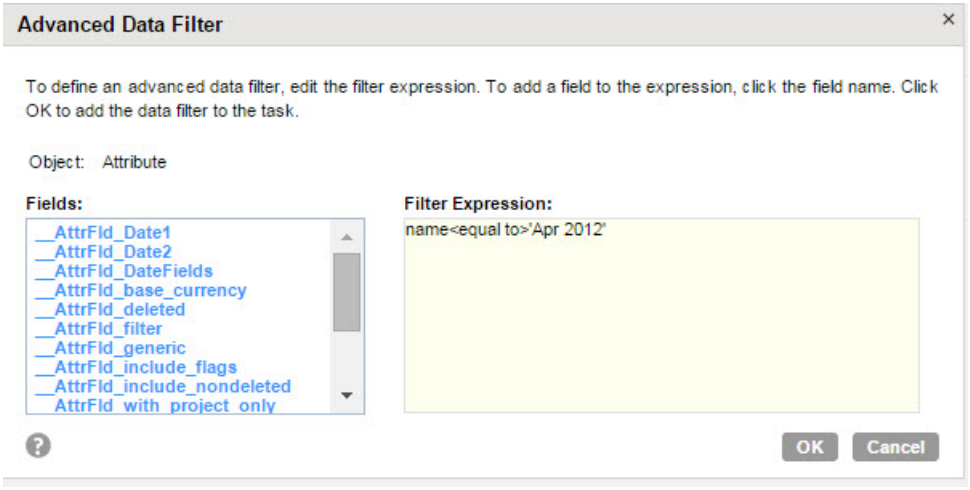
Data filter contains set of fields based on attribute filter fields and data filter fields.

Attribute Filter Fields are set of static fields for all OpenAir objects with name starting with '__'. These fields do not fetch data and represent the OpenAir attribute.

The following shows an example of attribute filter fields:

'__' + <Attribute field from developer guide> = <Attribute filter field>

The following image shows the list of attribute filter fields:



Data Filter Fields belongs to OpenAir objects. The data filter tab lists all the fields in the OpenAir object where few fields are filterable.

If non-filterable fields are used for any fetch operation, then OpenAir voids the filter condition and fetches all data.

Simple Filters

Simple filter uses fields starting with '_ '= to define OpenAir attributes to control read data set from OpenAir. You can use the attribute fields to define simple filters.

To define simple filters, use the following attributes:

Filter Field Name	Attribute Name	Value	Remark/Result
_AttrFld_deleted	deleted	1	Returns deleted records. It can be used together with newer-than filter.
_AttrFld_include_flags	include_flags	1	Returns account or user switches, by default those are not populated.
_AttrFld_include_nondeleted	include_nondeleted	1	Returns all records, deleted, and non deleted. **Note:** This attribute works in conjunction with the "deleted" attribute.
_AttrFld_with_project_only	with_project_only	1	Used with type: Customer will return customers which have associated project records.
_AttrFld_base_currency	base_currency	Eg: USD, CAN, INR,	Letter currency code. Works with type: Currencyrate. Converts values on the fly to currency specified.
_AttrFld_generic	generic		Returns generic resources (users), where by default, the API returns regular users.

Filter Field Name	Attribute Name	Value	Remark/Result
_AttrFld_filter	filter	open-envelopes	Returns records associated with an open envelope.
		approved-envelopes	Returns records associated with an approved envelope.
		rejected-envelopes	Returns records associated with a rejected envelope.
		submitted-envelopes	Returns records associated with a submitted envelope.
		nonreimbursed-envelopes	Returns envelopes that have a non zero balance attribute.
		reimbursable-envelope	Returns records associated with a reimbursable envelope.
		open-slips	Returns records associated with an open slip.
		approved-slips	Returns records associated with an approved slip.
		open-timesheets	Returns records associated with an open timesheet.
		approved-timesheets	Returns records associated with an approved timesheet.
		rejected-timesheets	Returns records associated with a rejected timesheet.
		submitted-timesheets	Returns records associated with a submitted timesheet.
		not-exported	Returns records not marked as exported.
		approved-revenue-recognition-transactions	Returns revenue recognition transactions belonging to approved revenue_container records.
		date filters: * newer-than * older-than * date-equal-to * date-not-equal-to	Returns records that have a value in the 'updated' field that is newer-than, older-than, date-equal-to, or date-not-equal-to the date specified in the oaDate object in the objects collection. To compare date fields other than ‘updated’, add the following additional attribute information: name=”field” value=”[some date field]”

Advanced Filters

You can use advanced data filter to run search queries containing complex filter expressions.

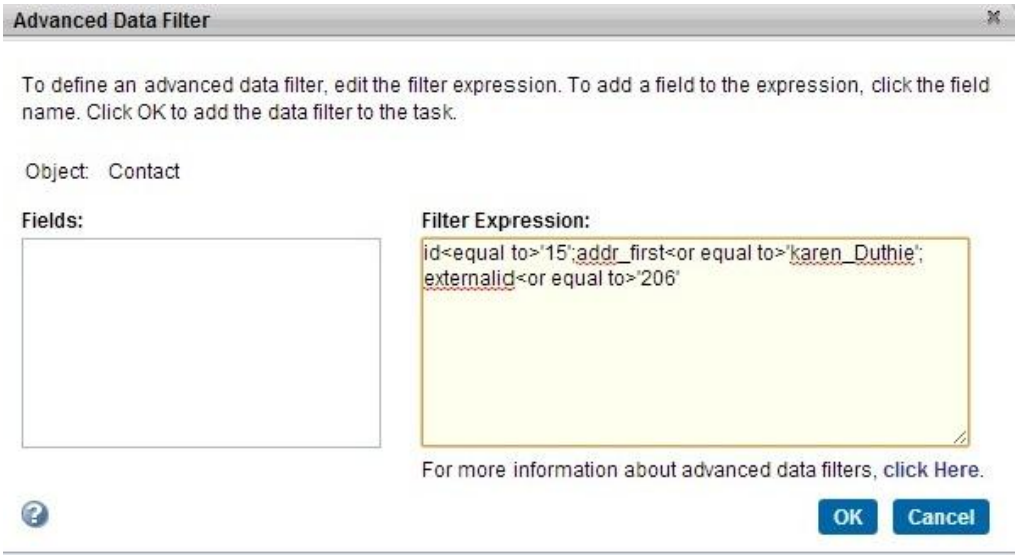
Note: You will know the selected filter field is not filterable after you run the synchronization task.

Perform the following steps to use advanced filters:

1. Click **Advanced** in the **Data Filter** dialog box.

   The **Advanced Data Filter** dialog box appears.
2. Enter the **Filter Expression**.
3. Click **OK**.

   The following image shows the **Advanced Data Filter** dialog box:



Advanced data filter contains some filter properties. Advanced data filter supports equals and not equals operators, attributes filters, but basic filters does not support OR operator.

Follow these guidelines to write an advanced data filter expression:

- You need to separate field name and value by an operator such as equals or not equals.
- Use operators which are enclosed within angular brackets.
- You need to separate each filter by a semi colon.

CHAPTER 4

Troubleshooting

This chapter includes the following topics:

- Troubleshooting, 22
- Troubleshooting Synchronization Task, 23
- Increasing the Secure Agent Memory, 23
- Configuring the File Size, 24

Troubleshooting

You might face the following issues during configuration of OpenAir Connectors:

1. If the fetch size of data for source object is large, an error message `Out of Memory` might occur. You can either decrease the batch size in the connection tab or increase the cloud Secure Agent memory size.
2. Failure of synchronization task with error message `The DTM process terminated unexpectedly` might occur due to **Enable Logging** attribute in connection.

   Do not select the box and run the task again to disable the **Enable Logging** field.
3. All string fields in the OpenAir have a precession of 225 characters by default. You need to define that field with record name in the property file if any field needs to have more than 225 length.
4. The OpenAir Connector generates an error message `Invalid XML character` if OpenAir read operation fetches data containing special character.
5. You need to specify each currency in individual filter.

   For example, specify

   ```
   currencies<equal to>'USD'; currencies<equal to >'AUD' when you fetch data based on
   filter currencies and not like currencies <equal to>
   'USD,AUD,CAD,EUR,GBP,JPY,MXN,NZD,CHF,AED,ARS,BHD,BRL,CLP,CNY,COP,CRC,DKK,HKD,HRK,IDR,
   ILS,INR,JMD,KES,KRW,MYR,NOK,PEN,PHP,PLN,SAR,SEK,SGD,THB,TWD,VEB,XCD,ZAR,TRY,RUB'.
   ```

6. If you use an object whose fields are updated by OpenAir and you use an earlier `OpenAir-metadata.jar` file, an error occurs. Use the latest WSDL version and generate the `OpenAir-metadata.jar` file from the latest WSDL version when OpenAir makes any updates, for example, adding new fields.

The Secure Agent generates a log file to capture the messages thrown during task configuration. The messages are saved in the following location:`<Secure Agent installation directory>\apps\Data_Integration_Server\logs`

Troubleshooting Synchronization Task

When you create a synchronization task with a configuration that is not valid, NULL error message appears.

Session Log saves the messages of a failed synchronization task. You require special privileges to run the application in debug mode.

For example, `<Secure Agent installation directory>\apps\Data_Integration_Server\logs`

Increasing the Secure Agent Memory

To increase performance and avoid runtime environment memory issues, perform the following steps:

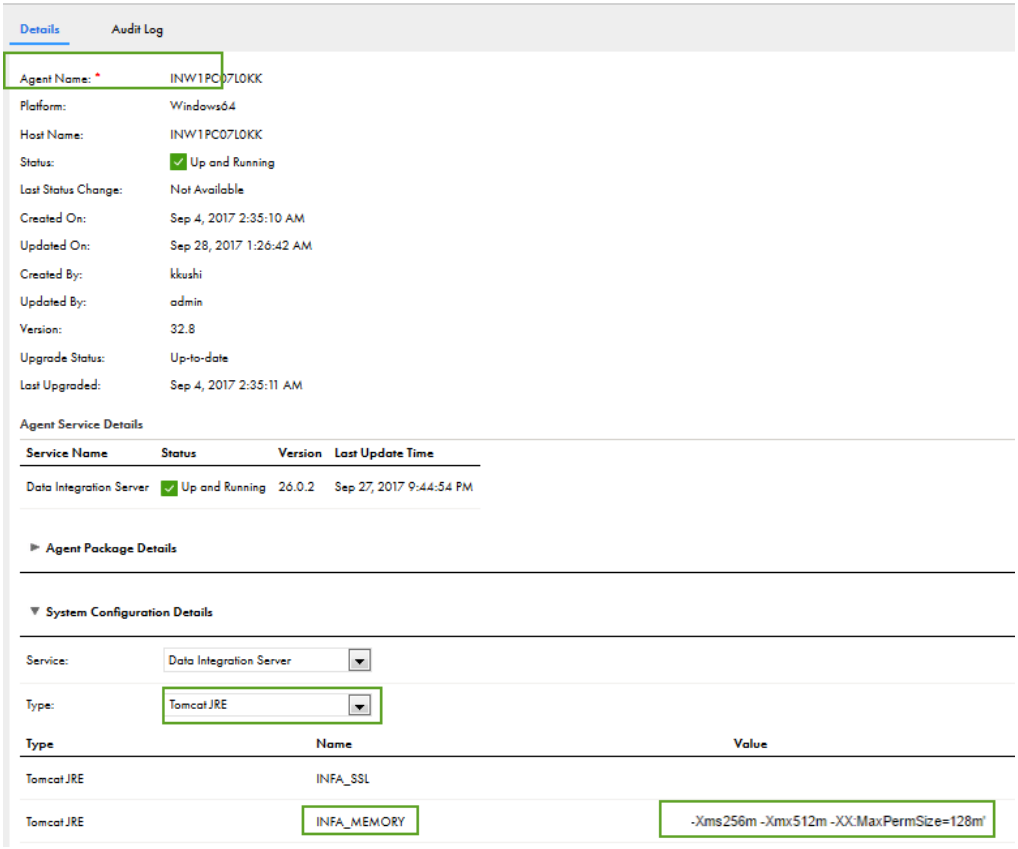
1. In Administrator, select **Runtime Environments**.
2. Select the Secure Agent for which you want to increase memory from the list of available Secure Agents.
3. In the upper-right corner, click **Edit**.
4. In the **System Configuration Details** section, select the **Type** as **DTM** for the Data Integration Service.
5. Edit **JVMOption1** as **-Xms4056m** and **JVMOption2** as **-Xmx4056m**.

   The following image shows the **Details** page:



6. In the **System Configuration Details** section, select the **Type** as **TomCatJRE**
7. Edit **INFA_memory** as **-Xms256m -Xmx512m**.

The following image shows the **Agent Details** page:



Note: The minimum and maximum values for the Java heap size are given as an example. Specify the size according to your requirements.

8. Restart the Secure Agent.

Configuring the File Size

To configure the file size, perform the following steps:

1. In Administrator, select **Runtime Environments**.
2. On the **Runtime Environments** page, select the Secure Agent for which you want to increase memory from the list of available Secure Agents.
3. In the upper-right corner, click **Edit**.
4. In the **System Configuration Details** section, select the **Type** as **System** for the Data Integration Service.
5. Add the `-DfileIO.maxFileSize` property and set the value to `xyz`. `xyz` is the size of the largest file you want to handle.
6. Restart the Secure Agent.

CHAPTER 5

Future Enhancements and Current Issues

This chapter includes the following topic:

- Future Enhancements and Current Issues, 25

Future Enhancements and Current Issues

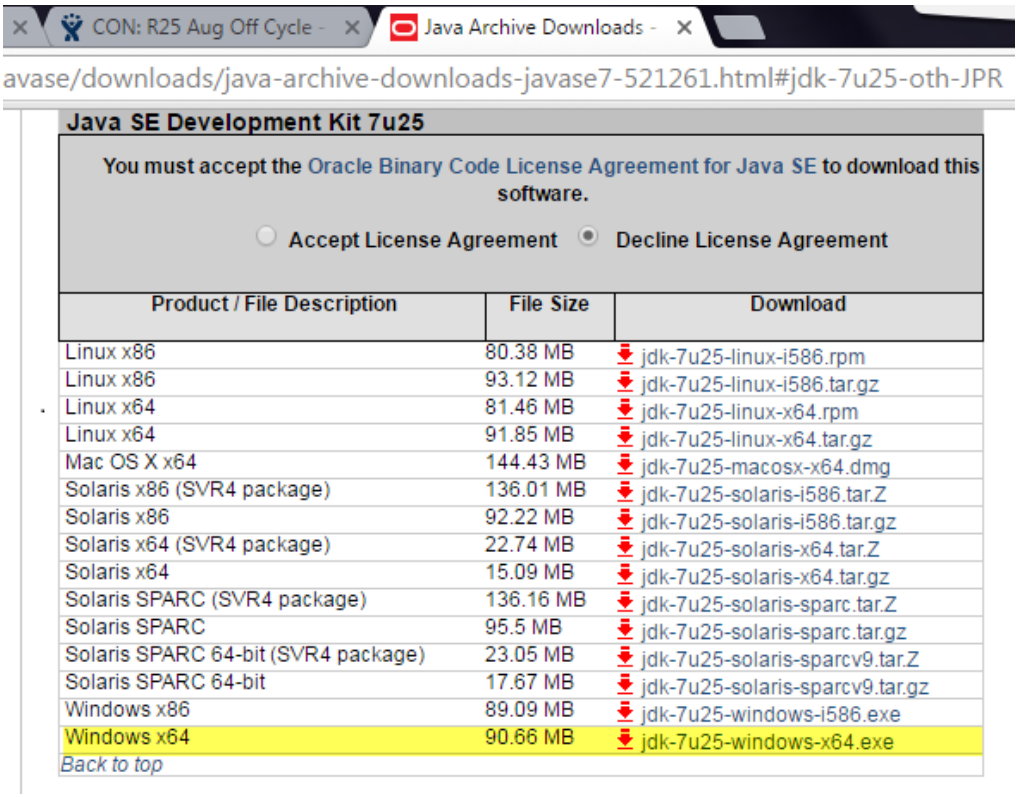
In OpenAir, batch size is defined in the **Connection** tab. OpenAir fetches all data set instead of fetching records in pages for each defined batch size. All the fields in the OpenAir object are listed in the **Data Filter** tab and few fields in OpenAir object are filterable.

OpenAir users have custom objects or fields for incorporating custom OpenAir solution. OpenAir Connector uses the Web Service Definition Language to fetch the object and field metadata.

You need to keep the OpenAir object structure in synchronization manner and add the custom fields to the default Web Service Definition Language.

Perform the following steps to create a stub for the OpenAir Web Service Definition Language:

1. Download jdk 1.7.0_25 from the link http://www.oracle.com/technetwork/java/javase/downloads/java-archive-downloads-javase7-521261.html#jdk-7u25-oth-JPR



2. Download the Axis 1.4 from the link - `http://www.apache.org/dyn/closer.cgi/ws/axis/1_4` and unzip the file in a folder. For example, \\temp\AXIS_LIB.

   Note: Create the directory paths before executing any command.

3. The following are the commands for creating the OpenAir stub:

   You can either run the command one by one in the command prompt or copy paste the entire commands to a win batch file.

```
set JAVA_HOME=\\Program Files\Java\jdk1.7.0_25
set AXIS_PATH=\\temp\axis-1_4
set AXIS_LIB=%AXIS_PATH%\lib\axis-ant.jar;%AXIS_PATH%\lib\axis.jar;%AXIS_PATH%\lib
\commons-discovery-0.2.jar;%AXIS_PATH%\lib\commons-logging-1.0.4.jar;%AXIS_PATH%\lib
\jaxrpc.jar;%AXIS_PATH%\lib\log4j-1.2.8.jar;%AXIS_PATH%\lib\saaj.jar;%AXIS_PATH%\lib
\wsdl4j-1.5.1.jar
set classpath=%JAVA_HOME%;%AXIS_LIB%
set PATH=%JAVA_HOME%;%PATH%
mkdir \\temp\OpenAir
java org.apache.axis.wsdl.WSDL2Java -v -p com.openair.api -a -o \\temp\OpenAir\ \
\temp\OpenAir.wsdl
mkdir \\temp\classes
javac -cp .;"%classpath%" OpenAir/com/openair/api/*.java -d classes
jar -cvf \\temp\OpenAir-metadata.jar -C C:\temp\classes com
```

   You will find that a new `OpenAir-metadata.jar` is created.

4. Stop the Secure Agent.

5. Copy the `OpenAir-metadata-1.0.0.jar` to the following directory:

```
<Secure Agent installation directory>\downloads\<latest connector zip package>\package
\rdtm\javalib\<Plugin ID>
```

6. Start the Secure Agent.

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