Informatica®

Informatica® Cloud Data Integration

Zuora Multi-Entity Connector

Informatica Cloud Data Integration Zuora Multi-Entity Connector
October 2022

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Preface

Use *Zuora Multi-Entity Connector* to learn how to read from or write to Zuora by using Cloud Data Integration. Learn to create a connection, develop mappings, synchronization tasks, and run synchronization and mapping tasks in Cloud Data Integration.

Informatica Resources

Informatica Documentation

To get the latest documentation for your product, browse the Informatica Knowledge Base at https://kb.informatica.com/_layouts/ProductDocumentation/Page/ProductDocumentSearch.aspx.

If you have questions, comments, or ideas about this documentation, contact the Informatica Documentation team through email at infa_documentation@informatica.com.

Informatica Intelligent Cloud Services Web Site

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https://network.informatica.com/community/informatica-network/products/cloud-integration

To find resources on using Application Integration (the Informatica Cloud Real Time service), access the community at:

https://network.informatica.com/community/informatica-network/products/cloud-integration/cloud-application-integration/content

Developers can learn more and share tips at the Cloud Developer community:

https://network.informatica.com/community/informatica-network/products/cloud-integration/cloud-developers

Data Integration Marketplace

Visit the Informatica Marketplace to try and buy Data Integration Connectors, Data Integration integration templates, and Data Quality mapplets:

https://marketplace.informatica.com/community/collections/cloud_integration

Data Integration Connector Documentation

You can access documentation for Data Integration Connectors at the Data Integration Community: https://network.informatica.com/cloud/index.htm

You can also download individual connector guides: https://network.informatica.com/docs/DOC-15333.

Informatica Knowledge Base

Use the Informatica Knowledge Base to search Informatica Network for product resources such as documentation, how-to articles, best practices, and PAMs.

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The telephone numbers for Informatica Global Customer Support are available from the Informatica web site at https://www.informatica.com/services-and-training/support-services/contact-us.html.

CHAPTER 1

Introduction to Zuora Multi-Entity Connector

This chapter includes the following topics:

- Zuora Multi-Entity Connector Overview, 6
- Zuora Multi-Entity Supported Task Types and Object Types, 6
- Administration of Zuora Multi-Entity Connector, 8

Zuora Multi-Entity Connector Overview

You can use Zuora Multi-Entity Connector to connect to Zuora Multi-Entity from Data Integration. Use Zuora Multi-Entity Connector to read data from or write data to Zuora. You can use Zuora Multi-Entity objects as sources and targets in synchronization tasks, mapping tasks, and mappings.

You must create the metadata data stub for other version of WSDL or customization of the current WSDL version 82. Zuora Multi-Entity Connector supports customization of WSDL and WSDL version 82.

When you run a task or mapping, the Secure Agent uses the Zuora SOAP API to perform the specified operation and reads data from or writes data to Zuora Multi-Entity.

You can switch mappings to advanced mode to include transformations and functions that enable advanced functionality.

Zuora Multi-Entity Supported Task Types and Object Types

The following table lists the object and operation types that Zuora Multi-Entity Connector supports:

Objects	Fetch	Insert	Update	Delete	Upsert	Data Preview* [1]	Lookup
Account	Yes	Yes	Yes	Yes	NA	Yes	Yes
AccountingCode	Yes	Yes	Yes	NA	NA	Yes	Yes

Objects	Fetch	Insert	Update	Delete	Upsert	Data Preview* [1]	Lookup
AccountingPeriod	Yes	Yes	Yes	NA	NA	Yes	Yes
Amendment	Yes	Yes	NA	Yes	NA	Yes	Yes
Contact	Yes	Yes	Yes	Yes	NA	Yes	Yes
CreditBalanceAdjustment	Yes	Yes	Yes	Yes	NA	Yes	Yes
CommunicationProfile	Yes	NA	NA	NA	NA	Yes	Yes
Export	Yes	Yes	NA	NA	NA	Yes	Yes
Import	Yes	NA	NA	NA	NA	Yes	Yes
Invoice	Yes	Yes	Yes	Yes	NA	Yes	Yes
InvoiceAdjustment	Yes	Yes	Yes	Yes	NA	Yes	Yes
InvoiceItem	Yes	NA	NA	NA	NA	Yes	Yes
InvoiceItemAdjustment	Yes	Yes	Yes	Yes	NA	Yes	Yes
InvoicePayment	Yes	Yes	Yes	NA	NA	Yes	Yes
Payment	Yes	Yes	Yes	Yes	NA	Yes	Yes
PaymentMethod	Yes	Yes	Yes	Yes	NA	Yes	Yes
Product	Yes	Yes	Yes	Yes	NA	Yes	Yes
ProductRatePlan	Yes	Yes	Yes	Yes	NA	Yes	Yes
ProductRatePlanCharge	Yes	Yes	Yes	Yes	NA	Yes	Yes
ProductRatePlanChargeTier	Yes	Yes	Yes	NA	NA	Yes	Yes
RatePlan	Yes	Yes	Yes	NA	NA	Yes	Yes
RatePlanCharge	Yes	Yes	Yes	NA	NA	Yes	Yes
RatePlanChargeTier	Yes	Yes	Yes	NA	NA	Yes	Yes
Refund	Yes	Yes	NA	NA	NA	Yes	Yes
RefundInvoicePayment	Yes	NA	NA	NA	NA	Yes	Yes
Subscribe	NA	Yes	NA	NA	NA	Yes	Yes
Subscription	Yes	Yes	Yes	NA	NA	Yes	Yes
TaxationItem	Yes	Yes	NA	Yes	NA	Yes	Yes

Objects	Fetch	Insert	Update	Delete	Upsert	Data Preview* [1]	Lookup
Usage	Yes	Yes	NA	Yes	NA	Yes	Yes
SubscriptionProductFeature	Yes	NA	NA	NA	NA	Yes	Yes

1. You cannot preview objects that contain non-queryable fields.

The following table lists the task types that Zuora Multi-Entity Connector supports:

Task Type	Source	Target
Synchronization	Yes	Yes
Mapping	Yes	Yes

Administration of Zuora Multi-Entity Connector

Before you use Zuora Multi-Entity Connector, you must complete the following prerequisite tasks:

1. Access Zuora portal access to create user credentials for using a Zuora Multi-Entity Connector.
2. Download WSDL version 82 from the Zuora portal.
3. Provide the WSDL path and the Endpoint Url belonging to the WSDL version.

CHAPTER 2

Zuora Multi-Entity Connections

This chapter includes the following topics:

- Zuora Multi-Entity Connections Overview, 9
- Zuora Multi-Entity connection properties, 9

Zuora Multi-Entity Connections Overview

Create a Zuora Multi-Entity connection to connect to Zuora Multi-Entity instance and read data from or write data to Zuora Multi-Entity. You can use Zuora Multi-Entity connections in synchronization tasks, mapping tasks, and mappings.

Zuora Multi-Entity connection properties

When you create a Zuora Multi-Entity connection, you must configure the connection properties.

The following table describes the Zuora Multi-Entity connection properties:

Property	Description
Runtime Environment	Runtime environment that contains the Secure Agent used to access Zuora.
Username	User name for the Zoura portal login.
Password	Password for the Zuora portal login.
WSDL Url	Path of the Zuora WSDL Url.
EndPoint Url	Path of the Zuora Endpoint Url.
UTC Offset	The difference in hours from the Coordinated Universal Time (UTC) for a particular place and date. You can use the UTC offset value when you use the $LastRuntime data filter field to read data from Zuora Multi-Entity based on the specified time zone. By default, the UTC value is 0.

Property	Description
No of Records for Batch	Number of the records that the Secure Agent reads in batches.
No of records for Batch Write	Number of the records that the Secure Agent writes to the end point in batches. By default, the value of the field is 100.
Enable Debug logger	Determines whether to print the SOAP request and response in the session log.
Entity Id	When you have multiple entities in a single tenant, specify the entity ID to connect to a particular entity.
Entity Name	When you have multiple entities in a single tenant, specify the entity name to connect to a particular entity.

CHAPTER 3

Synchronization Tasks with Zuora Multi-Entity Connector

This chapter includes the following topics:

- Zuora Multi-Entity Sources in Synchronization Tasks, 11
- Zuora Multi-Entity Targets in Synchronization Tasks, 12
- Creating a Zuora Multi-Entity Synchronization Task, 12
- Data Filters, 15

Zuora Multi-Entity Sources in Synchronization Tasks

You can configure the Zuora Multi-Entity source properties on the **Source** page of the Synchronization Task wizard.

To optimize performance, you can configure a filter in the **Data Filters** tab. Create a data filter, where you can select an object, field, operator, and enter a filter value based on which the synchronization task runs.

Note: Advanced data filter is not supported by Zuora Multi-Entity Connector.

The following table describes the Zuora Multi-Entity source properties:

Property	Description
Connection	Name of the Zuora Multi-Entity source connection.
Source Type	Type of the Zuora Multi-Entity source object available.
Source Object	Name of the source object.
Display source fields in alphabetical order	Displays source fields in alphabetical order. By default, fields appear in the order returned by the source system.

Zuora Multi-Entity Targets in Synchronization Tasks

You can use a single Zuora Multi-Entity object as a target in a synchronization task.

The following table describes the Zuora Multi-Entity target properties:

Property	Description
Connection	Name of the Zuora Multi-Entity target connection.
Target Object	Type of the Zuora Multi-Entity target object available.
Child Object	This attribute is not applicable for Zuora Multi-Entity Connector.
Display technical names instead of labels	Displays technical names instead of business names.
Display target fields in alphabetical order	Displays source fields in alphabetical order. By default, fields appear in the order returned by the target system.

The following table describes the advanced properties for Zuora Multi-Entity targets:

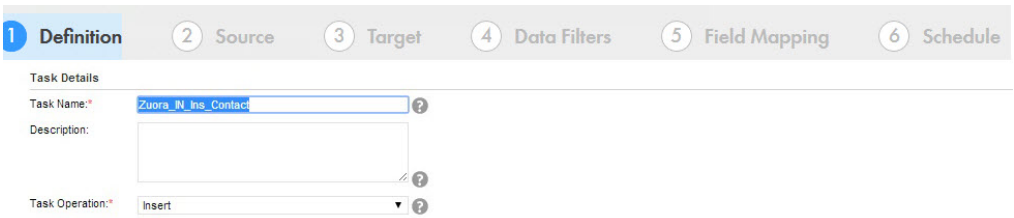
Property	Description
Success File Directory	Directory for the success file. Enter a directory that is local to the Secure Agent.
Error File Directory	Directory for the error file. Enter a directory that is local to the Secure Agent.

Creating a Zuora Multi-Entity Synchronization Task

You need to create a Zuora Multi-Entity connection before you create a Synchronization task.
Perform the following steps to create a synchronization task:

1. In Data Integration, click **New** > **Tasks** > **Synchronization Task**, and then click **Create**.

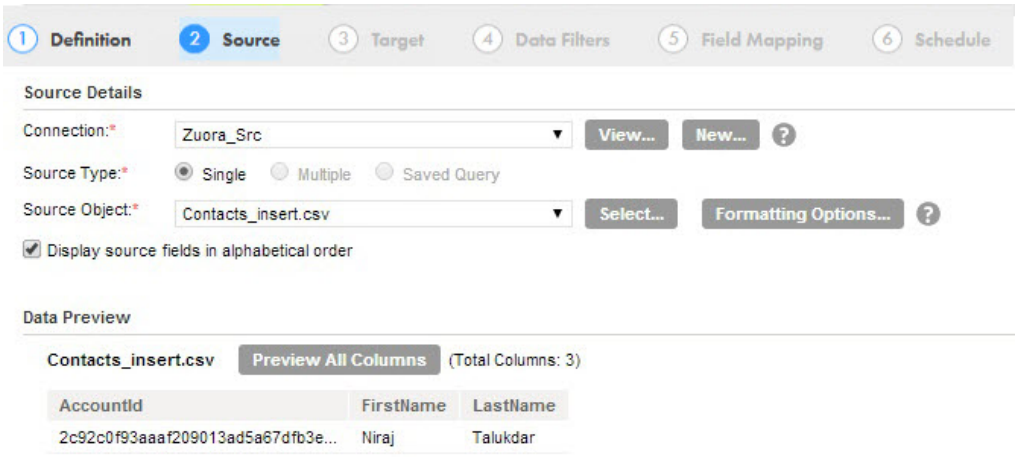
   The Definition tab appears.
   The following image shows the **Definition** page:



2. Specify the **Task Name** required for the task.
3. Provide a **Description** required for the task.

4. Select **Insert** as the task operation.
5. Click **Next**.

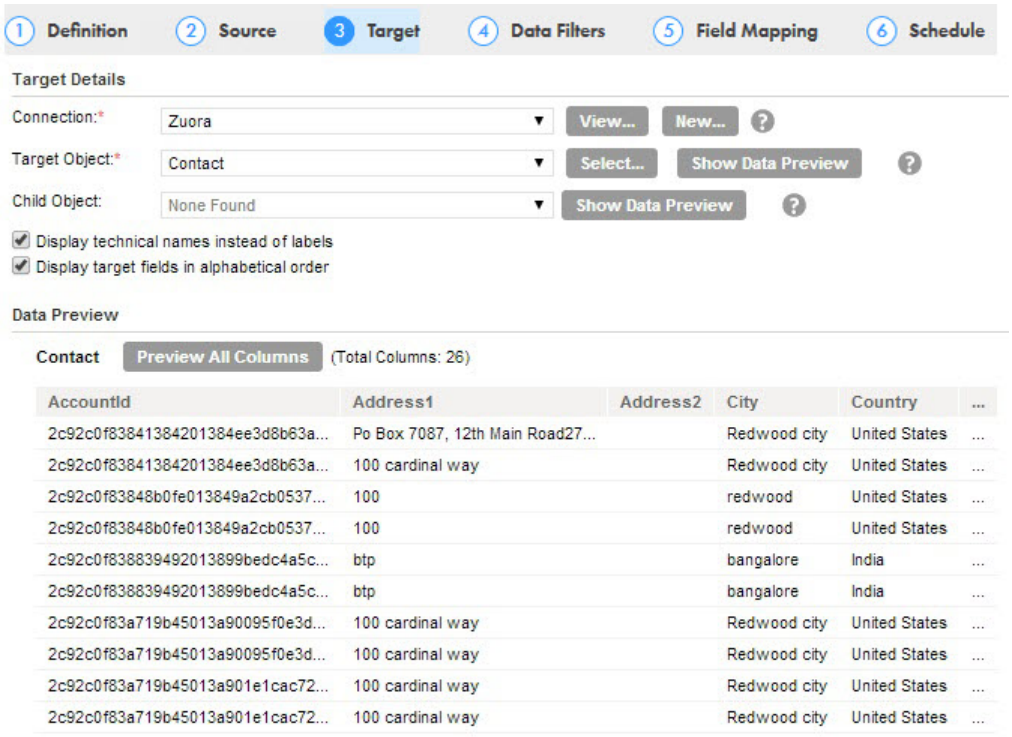
   The **Source** tab appears.
   The following image shows the **Source** page:



6. Select the **Connection** for the task.
7. Select the **Source Type** for the connection.
8. Select the **Source Object** for the task.
9. Click **Next**.

   The **Target** tab appears.

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

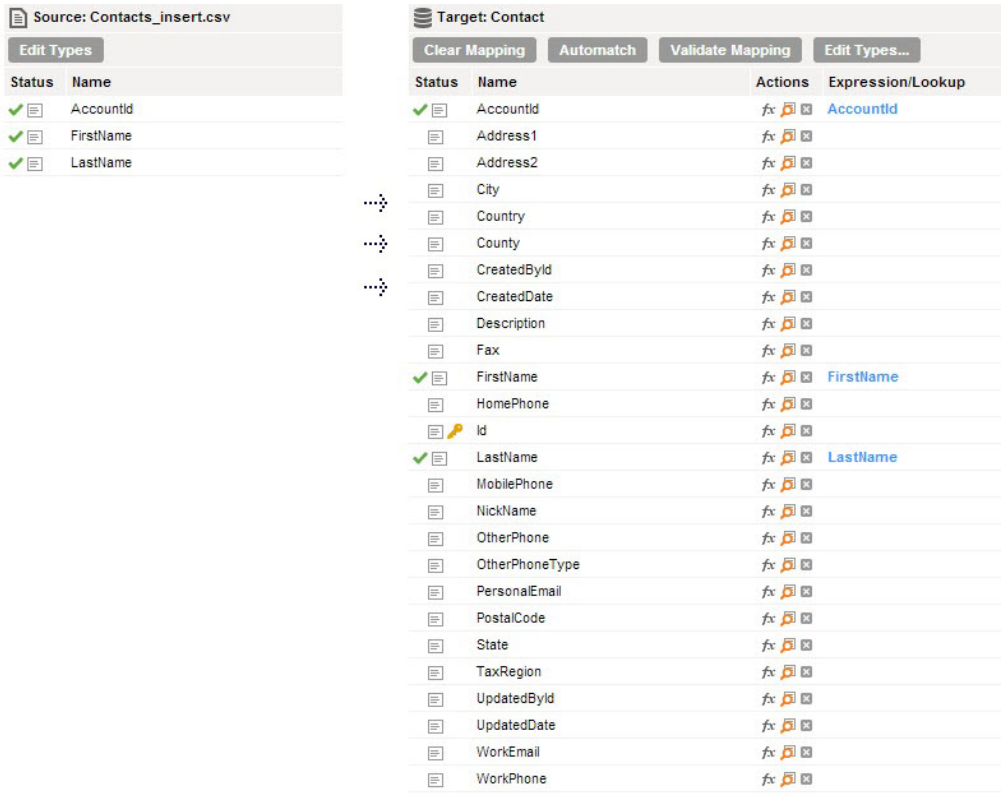


10. Select the target **Connection** and **Target Object** required for the task.
11. Click **Next**.

    The **Data Filters** tab appears in which by default, Process all rows is chosen.
12. Click **Next**.

    The **Field Mapping** tab appears.
13. On the **Field Mapping** tab, map source fields to target fields accordingly.

The following image shows the **Field Mapping** page:



14. Click **Next**.

    The **Schedule** tab appears where you can schedule the task for each requirement and then save the task.

15. To run the task, on the **Explore** page, navigate to the task, click **Actions** and select **Run**.

    In Monitor, you can monitor the status after you run the task.

Data Filters

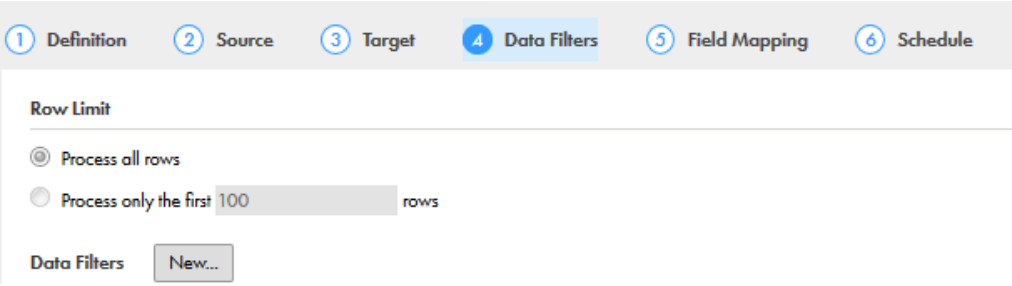
You can create simple data filters. You can also create a set of data filters for each object included in a synchronization task. Each set of data filters act independently of the other sets.

You can create one or more simple data filters. When you create multiple simple data filters, the associated task creates an AND operator between the filters and loads rows that apply to all simple data filters.

Perform the following steps to use data filters:

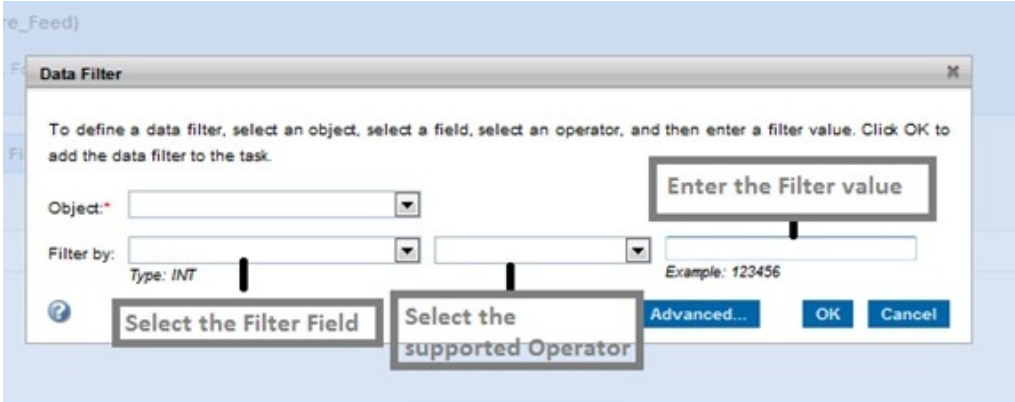
1. Select **Data Filters** tab in the synchronization task.

   The following image shows the **Data Filters** tab:



2. Click **New**.

   The **Data Filter** dialog box appears.
   The following image shows the **Data Filter** page:



3. Specify the following details in the **Data Filter** page:

Field Type	Description
Object	Select the required object.
Filter By	Select the filter field.
Operator	Select the corresponding operator.
Filter Value	Enter the filter value.

4. Click **OK**.

The following table provides the information on the available filters for feed object:

Zuora Multi-Entity Operator	Supported Data Types	Zuora Multi-Entity Supported Data Types
!=	String, Int, DateTime, Double, Boolean	booleans, dateTimes, numbers, strings
=	String, Int, DateTime, Double, Boolean	booleans, dateTimes, numbers, strings

Zuora Multi-Entity Operator	Supported Data Types	Zuora Multi-Entity Supported Data Types
>=	Int, DateTime, Double, Boolean	dateTimes, numbers,strings
<=	Int, DateTime, Double, Boolean	dateTimes, numbers, strings
Like	String	strings

CHAPTER 4

Troubleshooting

This chapter includes the following topic:

- Increasing the Secure Agent Memory, 18

Increasing the Secure Agent Memory

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

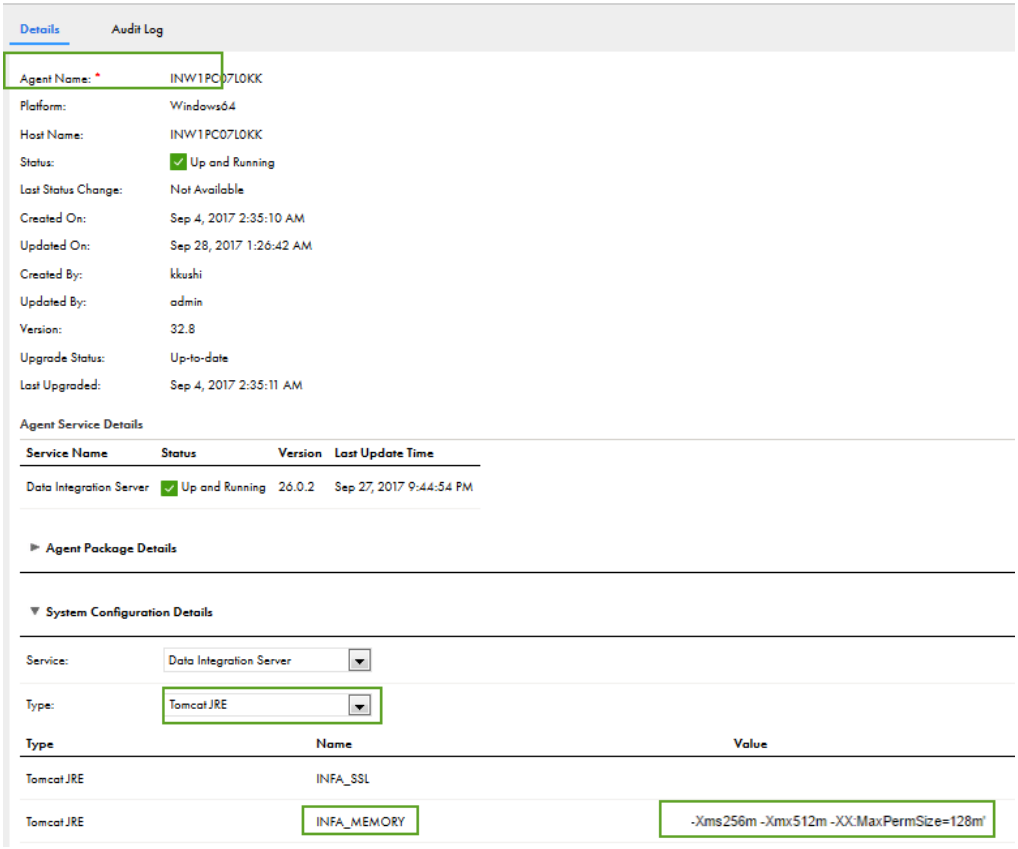
1. In Administrator, select **Runtime Environments**.
2. Select the Secure Agent for which you want to increase memory from the list of available Secure Agents.
3. In the upper-right corner, click **Edit**.
4. In the **System Configuration Details** section, select the **Type** as **DTM** for the Data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

CHAPTER 5

Known Future Enhancements

This chapter includes the following topic:

- Future Enhancements, 20

Future Enhancements

The following are the future enhancements of Zuora Multi-Entity Connector:

- Zuora Multi-Entity Connector does not support **CLOB**, **BLOB**, or **base64Encode** data fields attached to the Zuora Multi-Entity table.
- The **Big Data** fields will be supported in the future release.
- Field mapping does not support the **Validate** button.
- Multi-Source is not supported in the current version.
- Advanced filter does not support variable such as $LastRunTime and $LastRunDate.

CHAPTER 6

FAQ

This chapter includes the following topic:

- FAQ, 21

FAQ

How to download Zuora WSDL?

Find the Zuora Multi-Entity knowledge base link to download the WSDL from Zuora site:

http://knowledgecenter.zuora.com/C_Zuora_User_Guides/A_Billing/A_Z-Billing/C_Billing_Settings/M_Download_the_Zuora_WSDL

How to get the WSDL Url?

You can find the Endpoint Url in the WSDL document. Try to search for `<soap:address>` location.

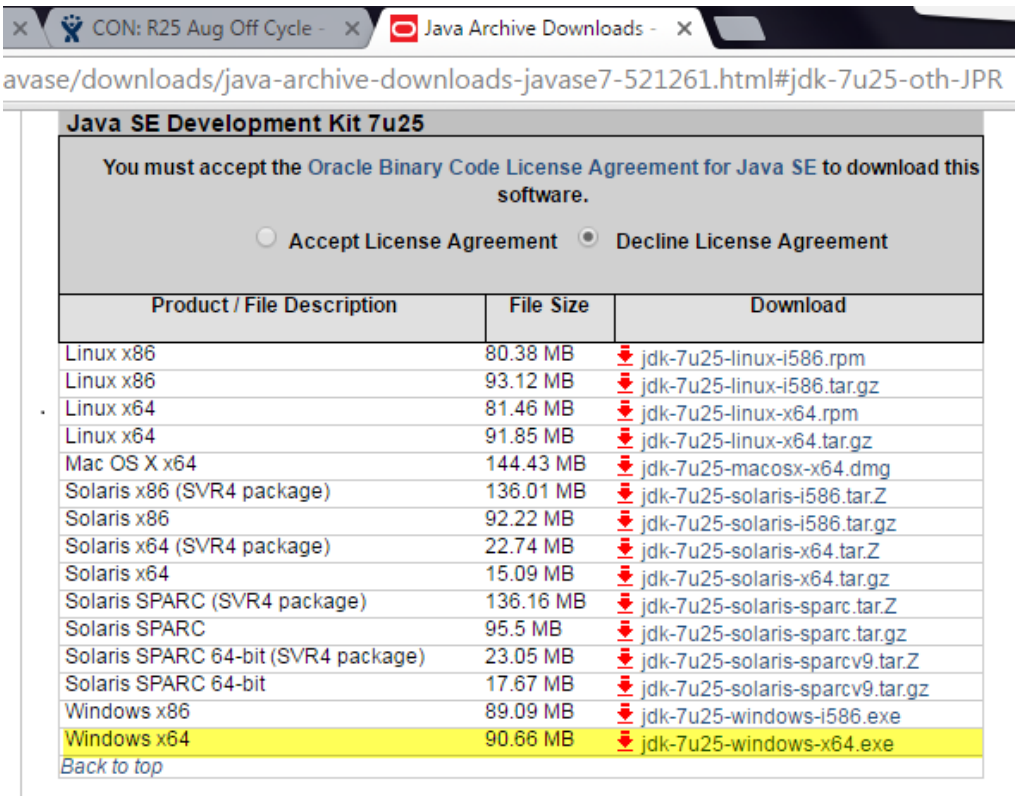
How to create metadata jar out of Zuora Multi-Entity WSDL?

Follow the steps to create a Stub `ZuoraME-metadata.jar` for the Zuora Multi-Entity Custom WSDL:

Note: You need to have the environment set-up to begin with stub creation.

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

Note:



Open a command prompt and set `wspath` variable as the following:

```
set wspath="C:\Program Files\Java\jdk1.7.0_25\bin"
set JAVA_HOME="C:\Program Files\Java\jdk1.7.0_25"
```

Create a `zuora.xjb` binding file using the following contents:

```
<jaxb:bindings version="2.1" xmlns:jaxb="http://java.sun.com/xml/ns/jaxb"
xmlns:xjc="http://java.sun.com/xml/ns/jaxb/xjc" xmlns:xs="http://www.w3.org/2001/
XMLSchema">
<jaxb:globalBindings generateElementProperty="false"/>
</jaxb:bindings>
```

Run the following command from the command prompt to generate stub class files in a directory structure `com/Zuora/api`:

```
%wspath%\wsimport.exe -b <binding file path>\zuora.xjb -p com.zuora.me.api-
XadditionalHeaders -verbose<Zuora modified wsdl>\zuora.wsdl
```

Run the following command to generate jar out of the class files:

```
jar cvf ZuoraME-metadata.jar-C <directory path of generated 'com' folder > com
```

After you run the command, a `ZuoraME-metadata.jar` file is created.

Stop the Secure Agent.

Copy the `ZuoraME-metadata.jar` file from `<Secure Agent installation directory>\downloads \<latest connector package>\package\plugins\<connector name>\` to `<Secure Agent`

`installation directory>\apps\Data_Integration_Server\ext\deploy_to_main\bin\rdtm-extra\<plugin ID>\`

Note: Do not take backup of the existing metadata jar in the same path or in the Secure Agent installation path.

Note: If the `deploy_to_main\bin\rdtm-extra\<connector name>\` directory does not already exist, create the directory.

Note: The folder name is case sensitive on Linux.

Start the Secure Agent.

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