



TGH

Making Integrations Simpler



Manually acknowledge channel updates

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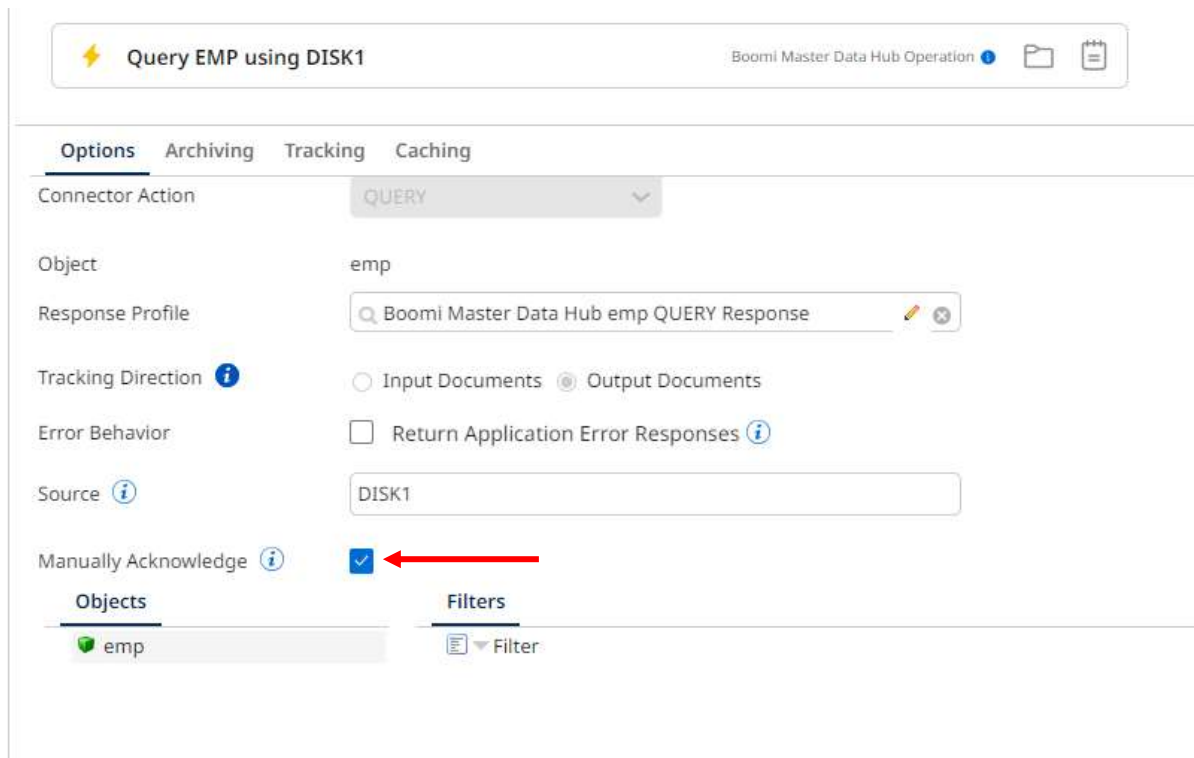


Generally, MDH itself takes care of channel update acknowledgment by acknowledging the updates automatically when the updates are fetched by the source.

But if we want to manually acknowledge the updates we have to do some configurations from MDH and Integration side.

In this blog, we will learn how can we manually acknowledge channel updates in MDH.

If we go to the MDM connector operation while selecting the action as Query we can see a checkbox called “Manually Acknowledge” if we select the check box then MDH will not automatically acknowledge any updates we have to acknowledge manually.



The screenshot shows the configuration interface for a connector operation named "Query EMP using DISK1". The "Options" tab is active, showing the following settings:

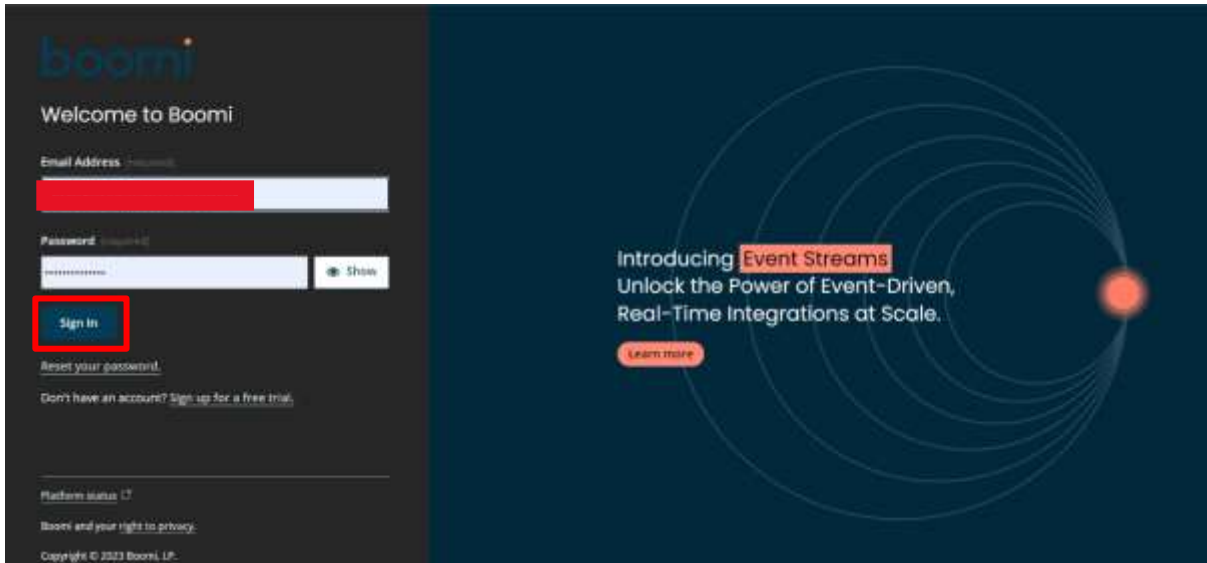
- Connector Action: QUERY
- Object: emp
- Response Profile: Boomi Master Data Hub emp QUERY Response
- Tracking Direction: Output Documents (selected)
- Error Behavior: Return Application Error Responses (unchecked)
- Source: DISK1
- Manually Acknowledge: (highlighted with a red arrow)

Below the main configuration, there are sections for "Objects" (showing 'emp') and "Filters" (showing a filter icon).

Now let us go to the platform and see how can we manually acknowledge channel updates:

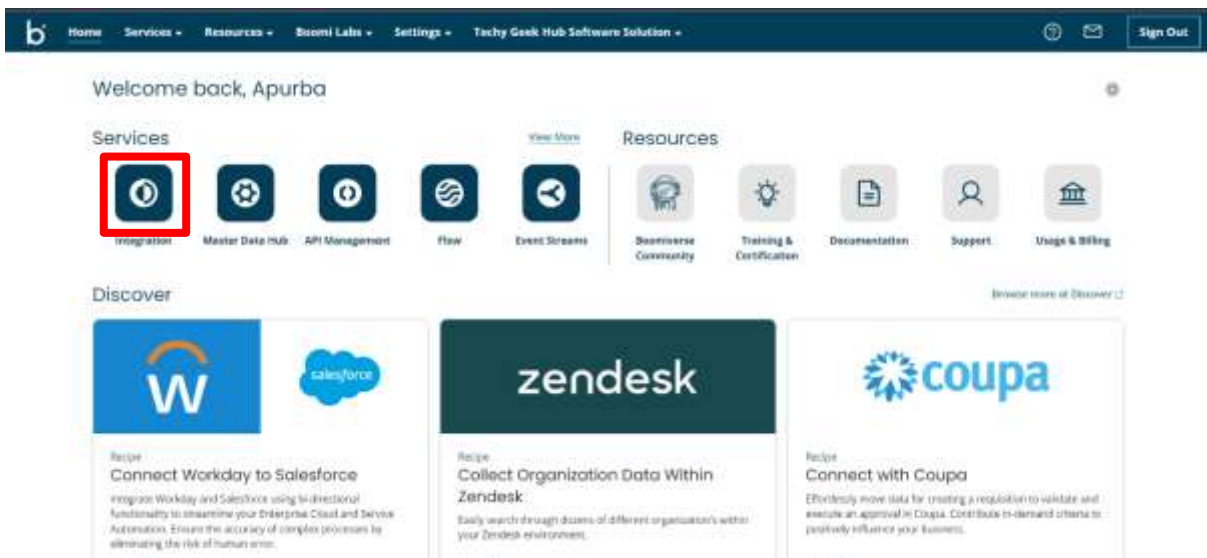
Steps:

Step 1. Go to platform.boomi.com

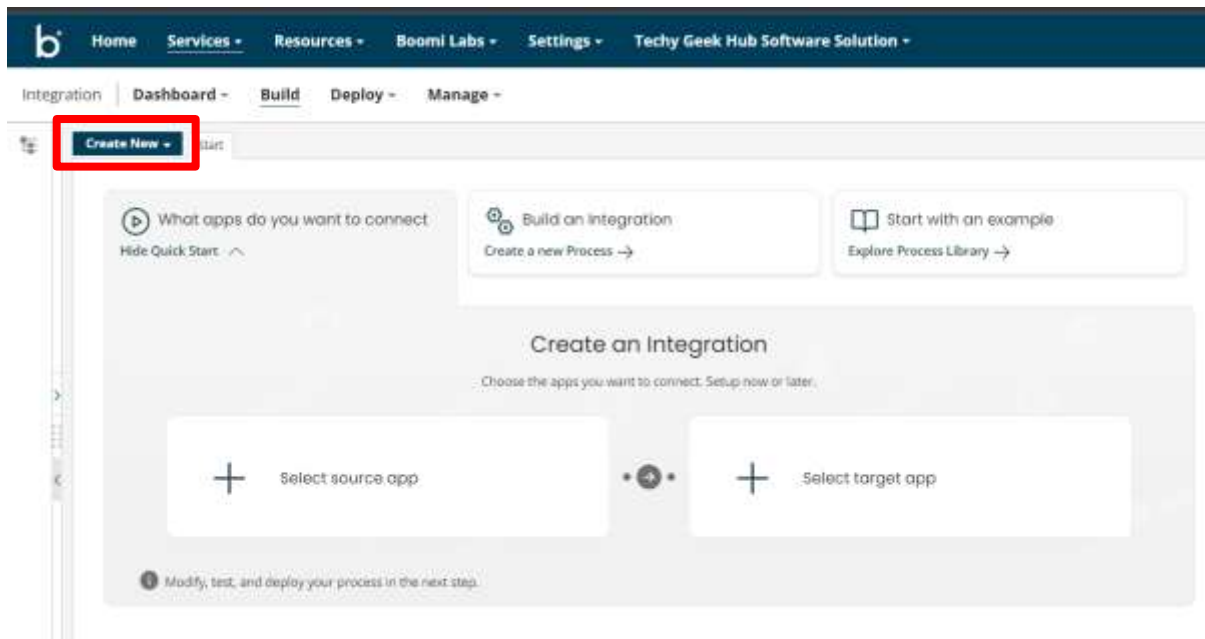


Step 2. Login by giving your valid credentials (Username and Password).

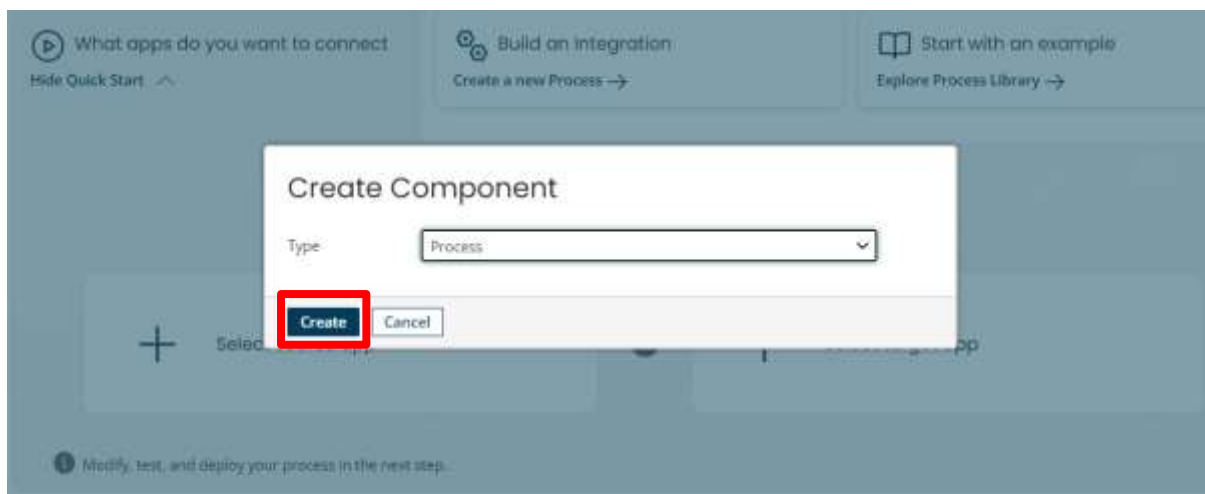
Step 3. Home page will be displayed, now click on “Integration”.



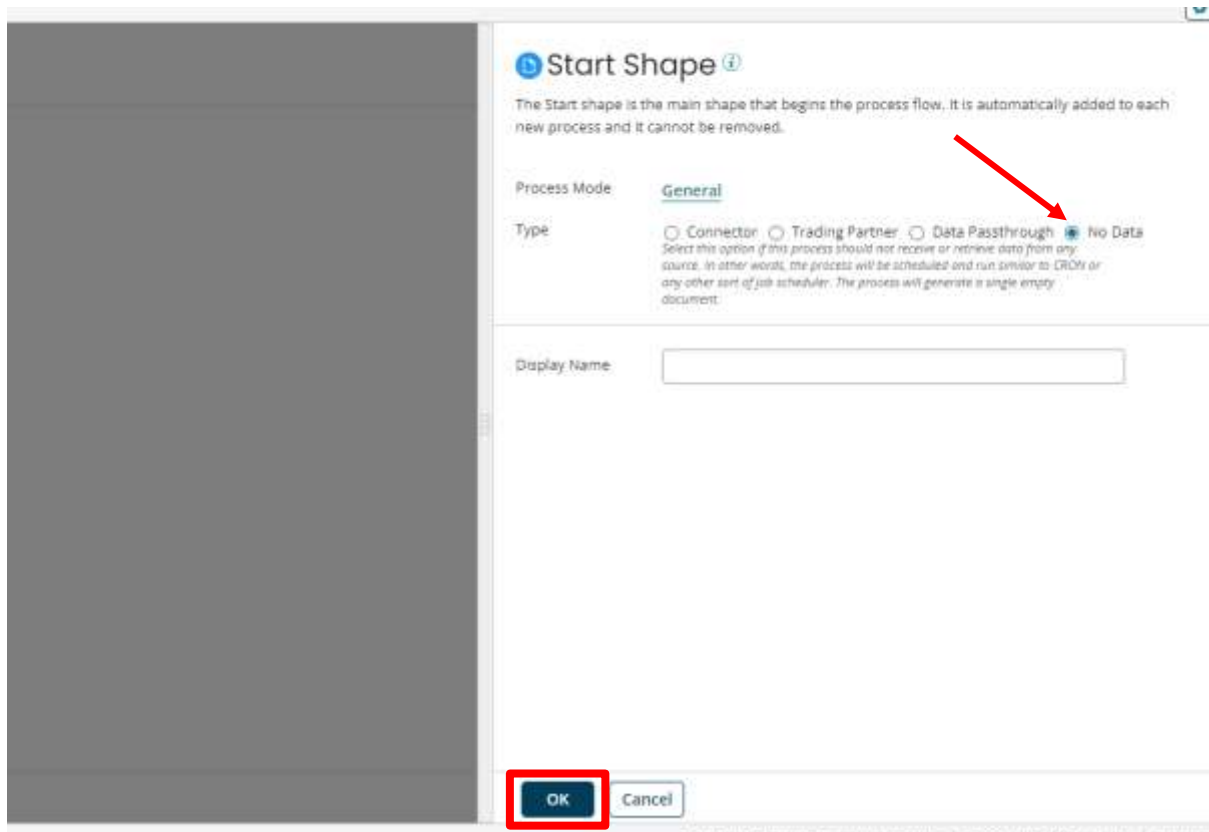
Step 4. Click on the “Create New” button.



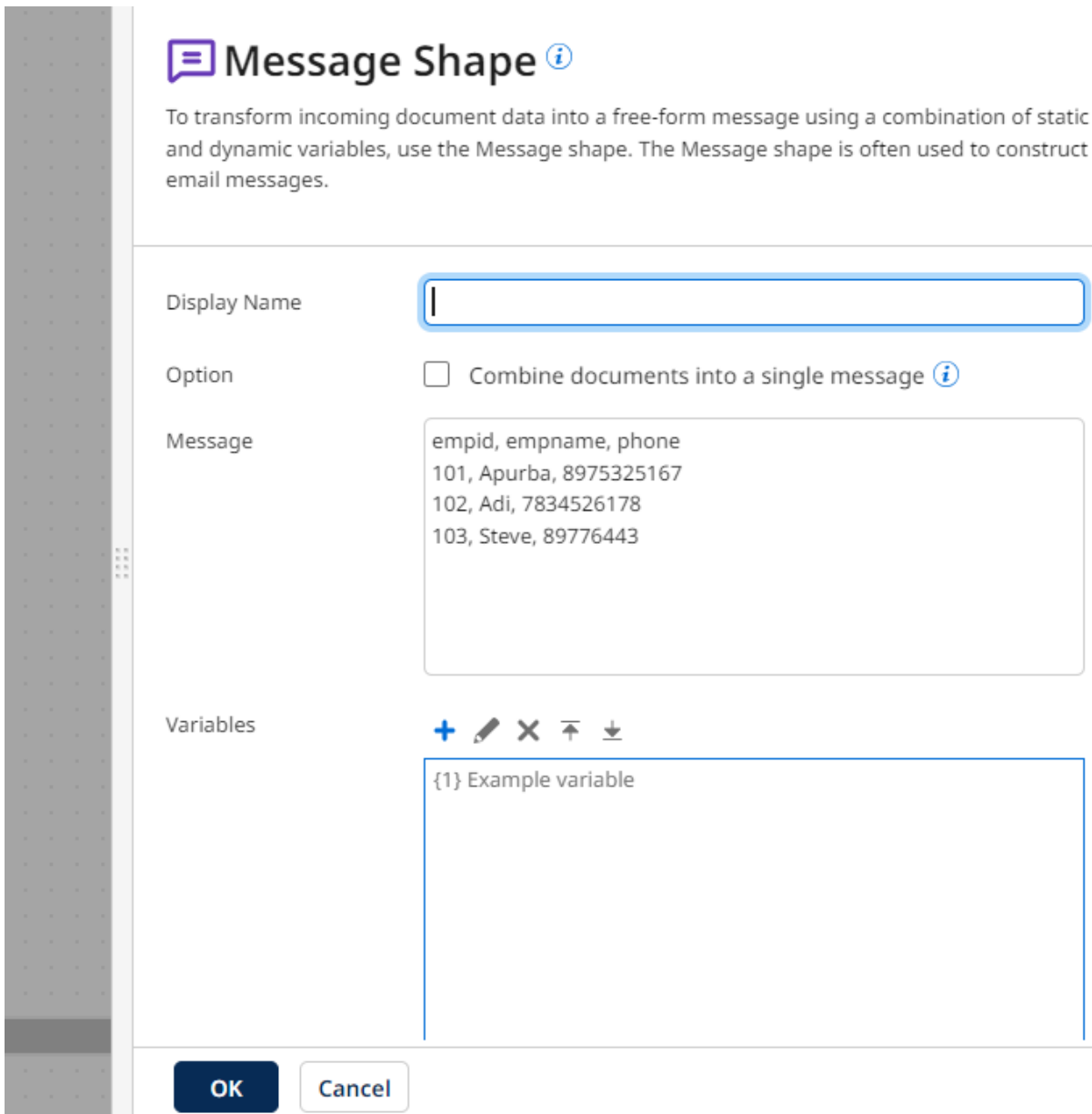
Step 5. Select “Process” and click on “Create”.



Step 6. Click on the “No Data” option and click on “OK”.



Step 7. Drag and drop a Message shape and put these records as shown in the below image.



Message Shape ⓘ

To transform incoming document data into a free-form message using a combination of static and dynamic variables, use the Message shape. The Message shape is often used to construct email messages.

Display Name

Option Combine documents into a single message ⓘ

Message

```
empid, empname, phone
101, Apurba, 8975325167
102, Adi, 7834526178
103, Steve, 89776443
```

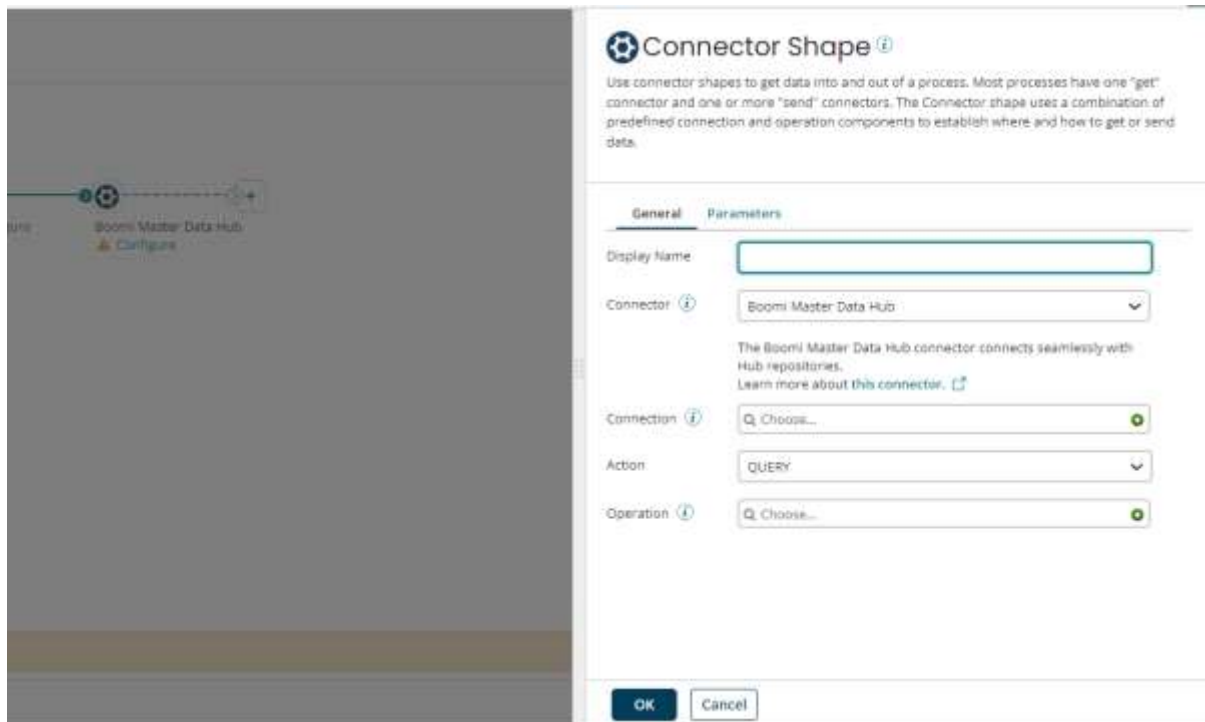
Variables

+ ✎ ✕ ↕ ⬇

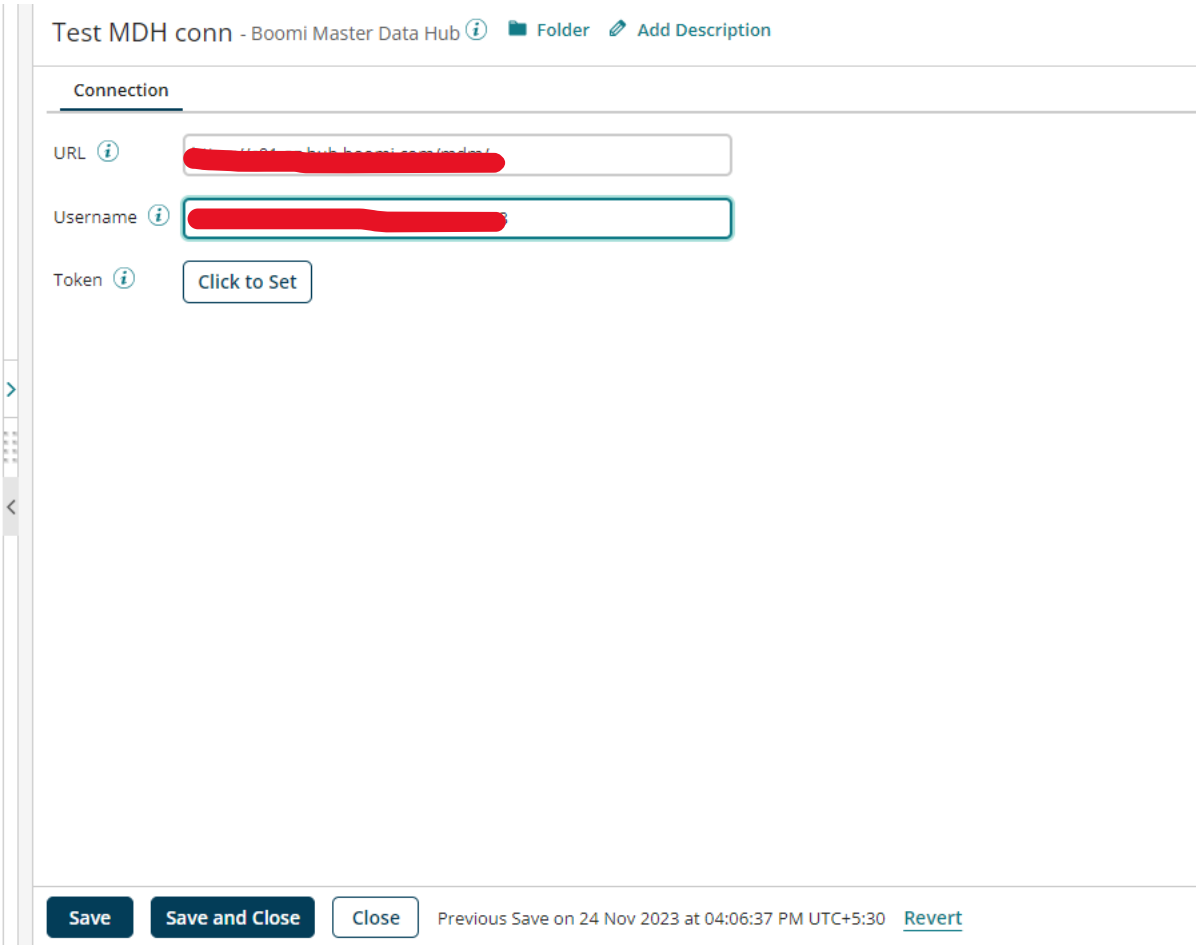
```
{1} Example variable
```

OK Cancel

Step 8. Add a Boomi Master data Hub connector. To configure the connection click on the “+” icon.



Step 9. Give the URL, UserName and Token.



Test MDH conn - Boomi Master Data Hub ⓘ Folder Add Description

Connection

URL ⓘ

Username ⓘ

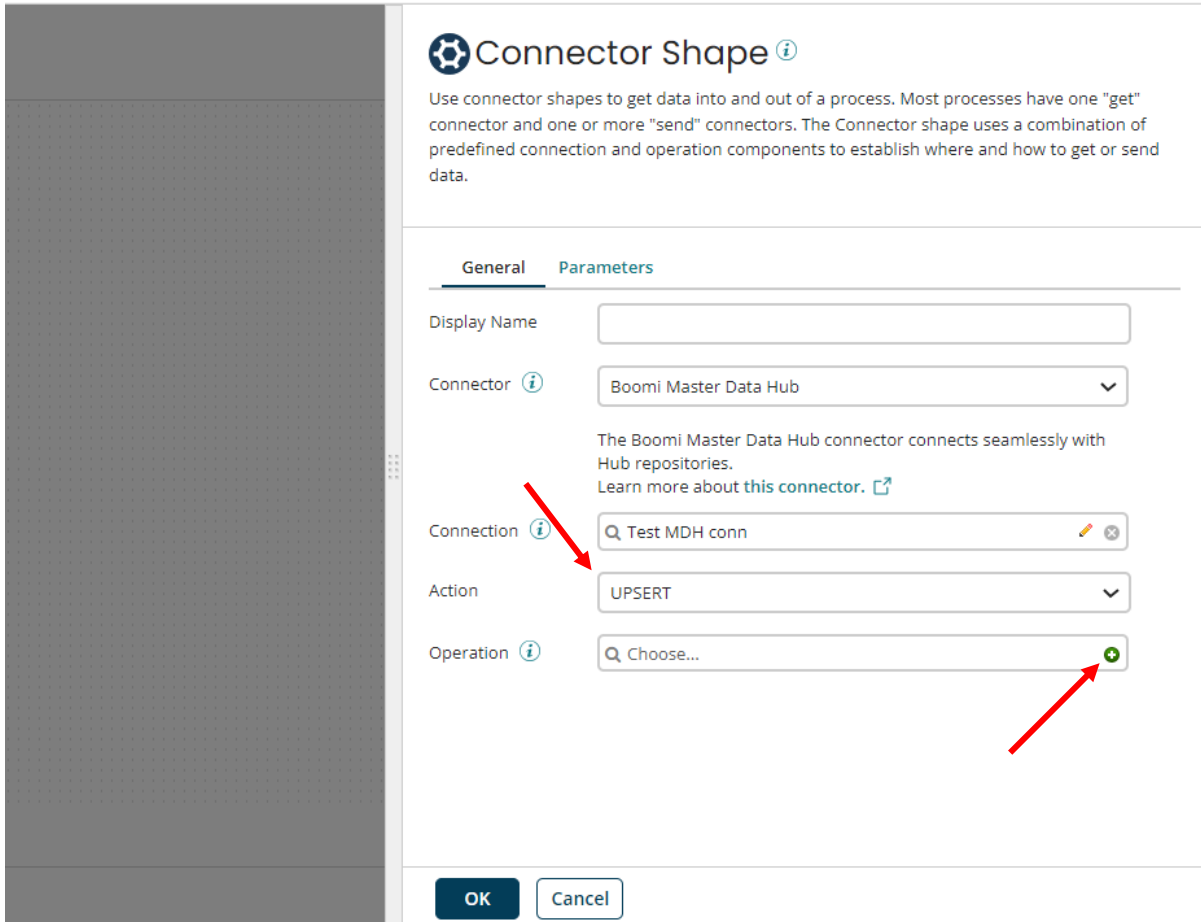
Token ⓘ

Save Save and Close Close Previous Save on 24 Nov 2023 at 04:06:37 PM UTC+5:30 Revert

URL: Go to Atom Management → Click on “Test” atom cloud → Click on Shared web server → Copy the Base URL → Add “/mdm/” at the end.

Username and Token: Go to MDH → Select the Test repository → Configure Tab → Copy the Username and Auth token.

Step 10. Save and close, select the Action as Upsert and then configure the operation.



Connector Shape ⓘ

Use connector shapes to get data into and out of a process. Most processes have one "get" connector and one or more "send" connectors. The Connector shape uses a combination of predefined connection and operation components to establish where and how to get or send data.

General **Parameters**

Display Name

Connector ⓘ

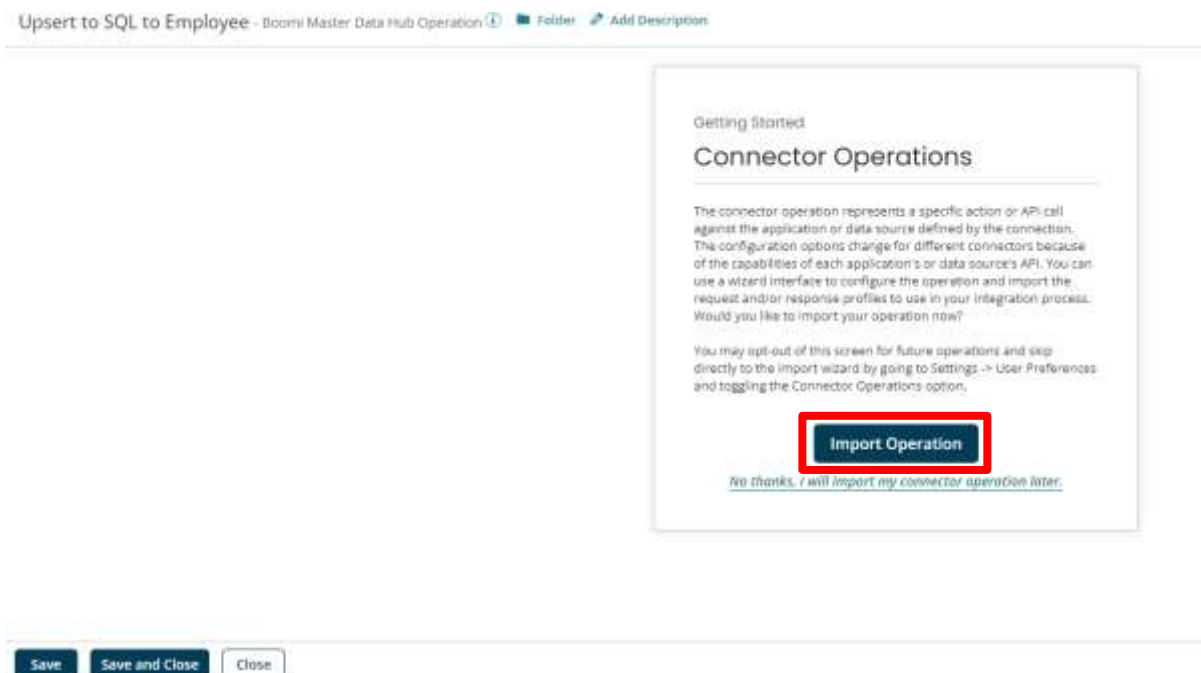
The Boomi Master Data Hub connector connects seamlessly with Hub repositories.
[Learn more about this connector.](#) ↗

Connection ⓘ

Action

Operation ⓘ

Step 11. Click on Import operation.



Upsert to SQL to Employee - Boomi Master Data Hub Operation ⓘ Folder Add Description

Getting Started

Connector Operations

The connector operation represents a specific action or API call against the application or data source defined by the connection. The configuration options change for different connectors because of the capabilities of each application's or data source's API. You can use a wizard interface to configure the operation and import the request and/or response profiles to use in your integration process. Would you like to import your operation now?

You may opt-out of this screen for future operations and skip directly to the import wizard by going to Settings → User Preferences and toggling the Connector Operations option.

[No thanks, I will import my connector operation later.](#)

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Step 12. Select your Atom, give the Source name and Staging Area ID, click on “Next”.

Boomi Master Data Hub Operation Import

Use this wizard to auto-configure any request/response profiles and/or fields necessary for the operation's execution.

* Required fields.

Connector Action	UPSERT
Atom*	Apurba_Cloud
Connection*	Test MDH conn
Source ⓘ	MySQL
Staging Area ID ⓘ	Emp_Stage
Filter ⓘ	

Cancel

Next

Step 13. Select your Model and click on Next.

Boomi Master Data Hub Operation Import

Object Type ⓘ	Model
---------------	-------

Cancel

Back

Next

Step 14. Click on Finish.

Boomi Master Data Hub Operation Import

Operation Loaded

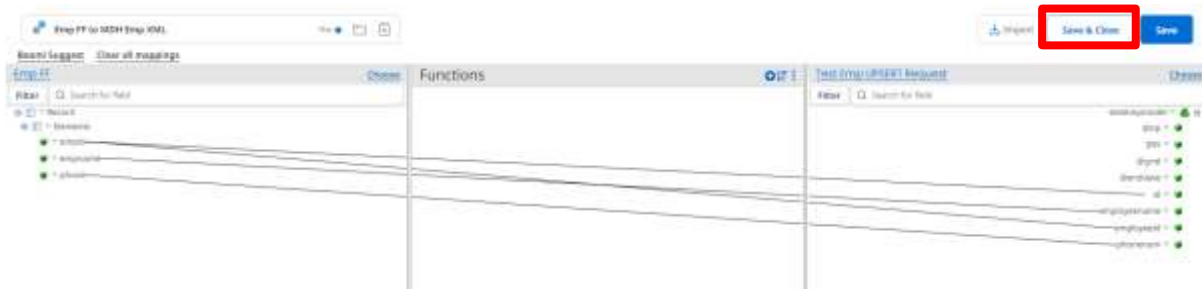
Object Name employee

Request Profile Boomi Master Data Hub employee UPSERT Request 2



Step 15. Drag and drop one Mape shape and inside map component add two profiles. In the source side add the Employee profile and in the Target add the MDH upsert request profile.

After mapping each field click on Save and close.



Step 16. Add a stop shape at the end. The process should look like this now-



Step 17. Save the process and test.



In this situation, the Golden records are created in MDH. Channel updates are generated for other sources.

Now we need another process to query channel updates from MDH.

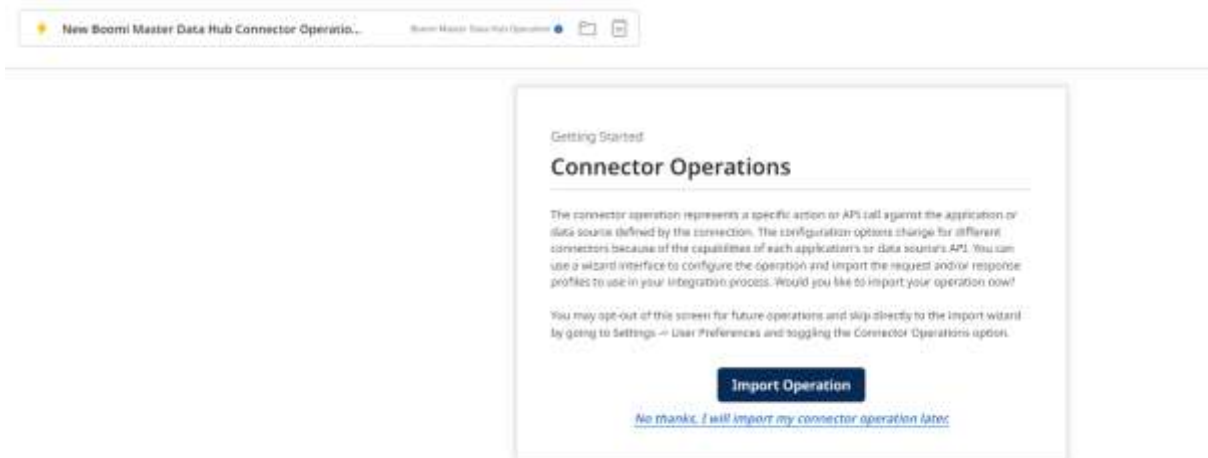
Step 18. Create a process to Query Golden records from MDH.

Take an MDH connector, the same connection, and the action will be Query.

Click on + icon to create an Operation.



Step 19. Click on Import Operation.





Step 20. Choose the Atom, give the Source, click on Next.

Boomi Master Data Hub Operation Import

Use this wizard to auto-configure any request/response profiles and/or fields necessary for the operation's execution.

* Required fields.

Connector Action	QUERY
Atom*	Test Atom Cloud
Connection*	Test Rep conn
Source 	SFDC
Filter 	

Cancel **Next**

Step 21. Select your Model and click on Next.

Boomi Master Data Hub Operation Import

Object Type  

Step 22. Click on Finish.

Boomi Master Data Hub Operation Import

Operation Loaded

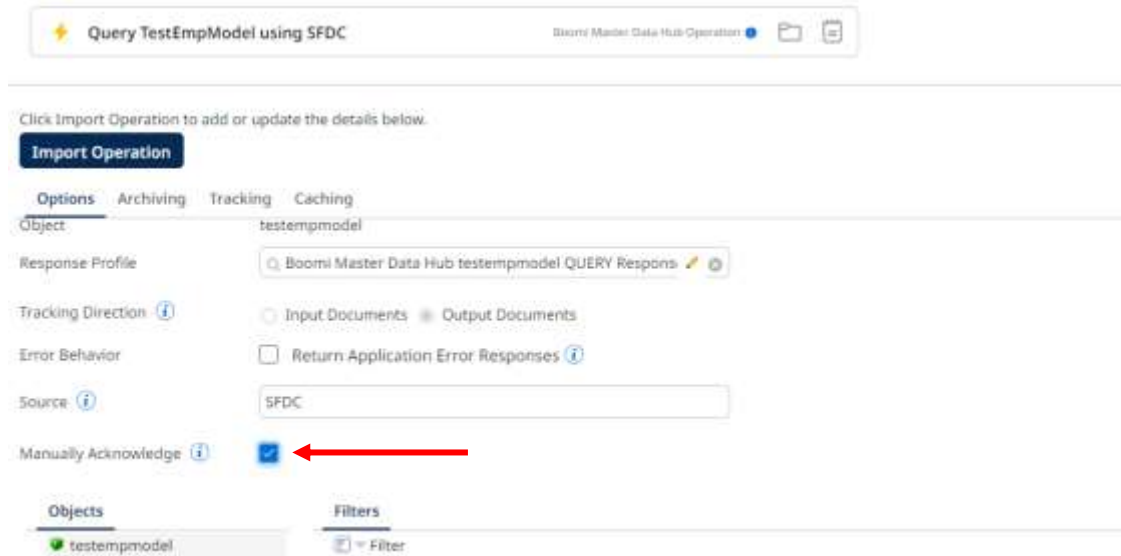
Object Name testempmodel

Response Profile Boomi Master Data Hub testempmodel QUERY Response 2

Cancel

Finish

Step 23. Check the checkbox of Manually Acknowledge.



Query TestEmpModel using SFDC

Click Import Operation to add or update the details below.

Import Operation

Options Archiving Tracking Caching

Object: testempmodel

Response Profile: Boomi Master Data Hub testempmodel QUERY Respons

Tracking Direction: Input Documents Output Documents

Error Behavior: Return Application Error Responses

Source: SFDC

Manually Acknowledge: ←

Objects: testempmodel Filters: Filter

Step 24. Click on Save and Close.



Query TestEmpModel using SFDC

Click Import Operation to add or update the details below.

Import Operation

Options Archiving Tracking Caching

Connector Action: testempmodel

Object: testempmodel

Response Profile: Boomi Master Data Hub testempmodel QUERY Respons

Tracking Direction: Input Documents Output Documents

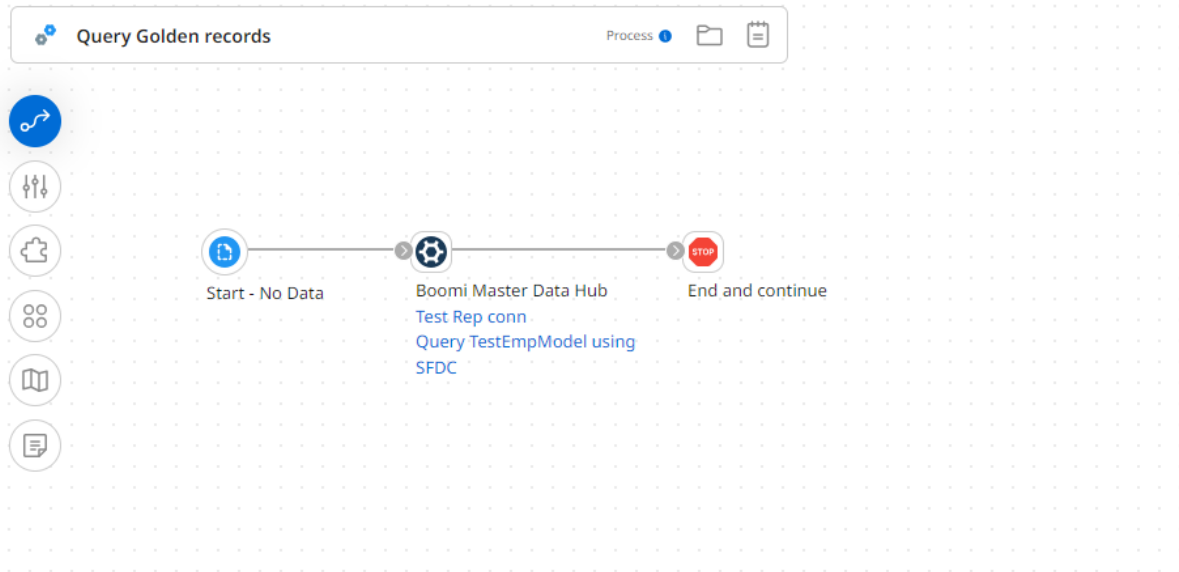
Error Behavior: Return Application Error Responses

Source: SFDC

Objects: testempmodel Filters: Filter

Save & Close Save

Step 25. Add a Stop shape at last, save, and test the process.



Generally, if we execute this process, for the first time we will get the channel update. If we try to execute the process for the 2nd time we will not get any records because MDH automatically acknowledges the channel updates whenever the updates are queried from the model.

But in our case, we can execute the process multiple times, each time we will get the Golden records because we have checked the Manually Acknowledge checkbox which means we have to acknowledge the delivery manually.

To acknowledge the delivery manually we can consume one REST API. Below are the API details given for consuming the API.

REST API for Manually Acknowledge Channel Updates

URL:

<https://<host>:<port>/mdm/universes/<universeID>/sources/<sourceID>/updates<updateID>/acknowledge>

Method: POST

Note:

Host and Port: You can find in the MDH connection.

universeID: Universe Id of the particular model.

sourceID: Id of the particular source.

updateID: The delivery ID for a channel update (You can capture it using one dpp named “mdm-current-delivery-id”)



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