



**TGH**

Making Integrations Simpler



# Migration of Extensions from one Environment to Another Using Boomi Atmosphere Api

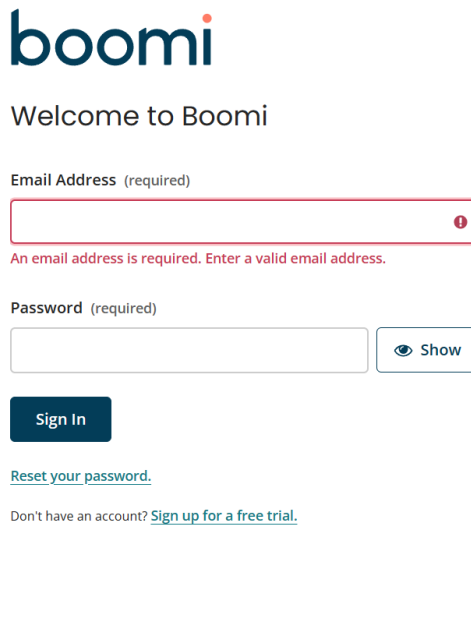
Author  
Gourav Panigrahy



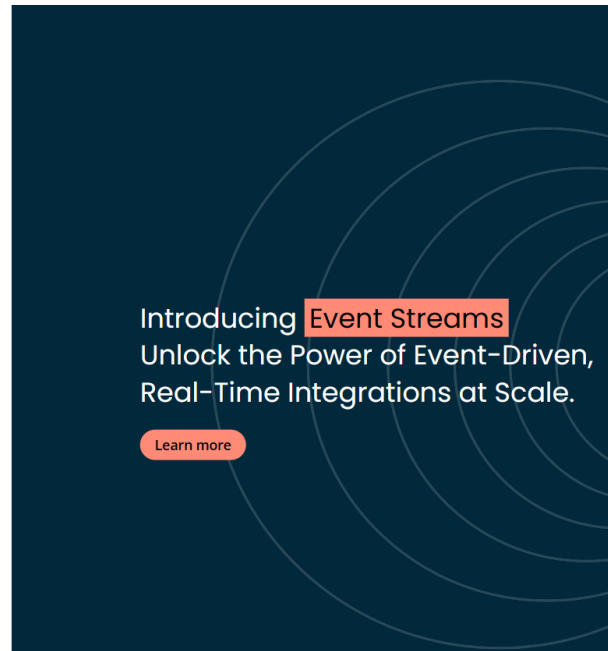
## Migration of Extensions from one Environment to another Environment Using Boomi Atmosphere API.

Getting Started - Logging into the Boomi Platform

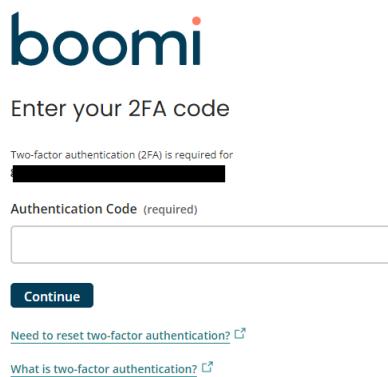
Step-1: Enter your Email Address and Password to log in to your Boomi Account



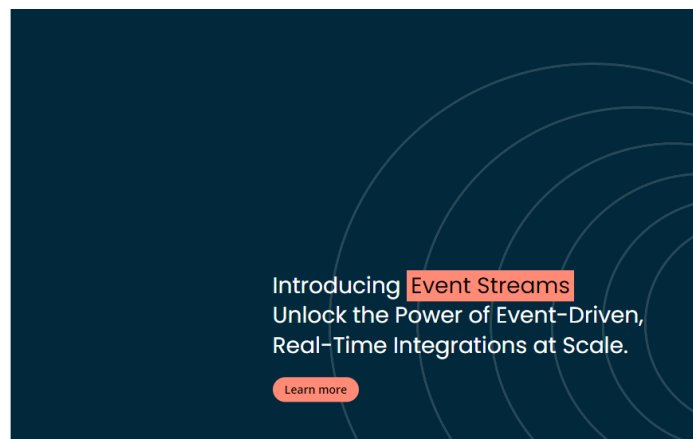
The image shows the Boomi login page. At the top left is the Boomi logo. Below it is the text "Welcome to Boomi". There are two input fields: "Email Address (required)" and "Password (required)". The email field has a red border and an error message below it: "An email address is required. Enter a valid email address." The password field has a "Show" button next to it. Below the password field is a "Sign In" button. At the bottom, there are links for "Reset your password." and "Don't have an account? Sign up for a free trial."



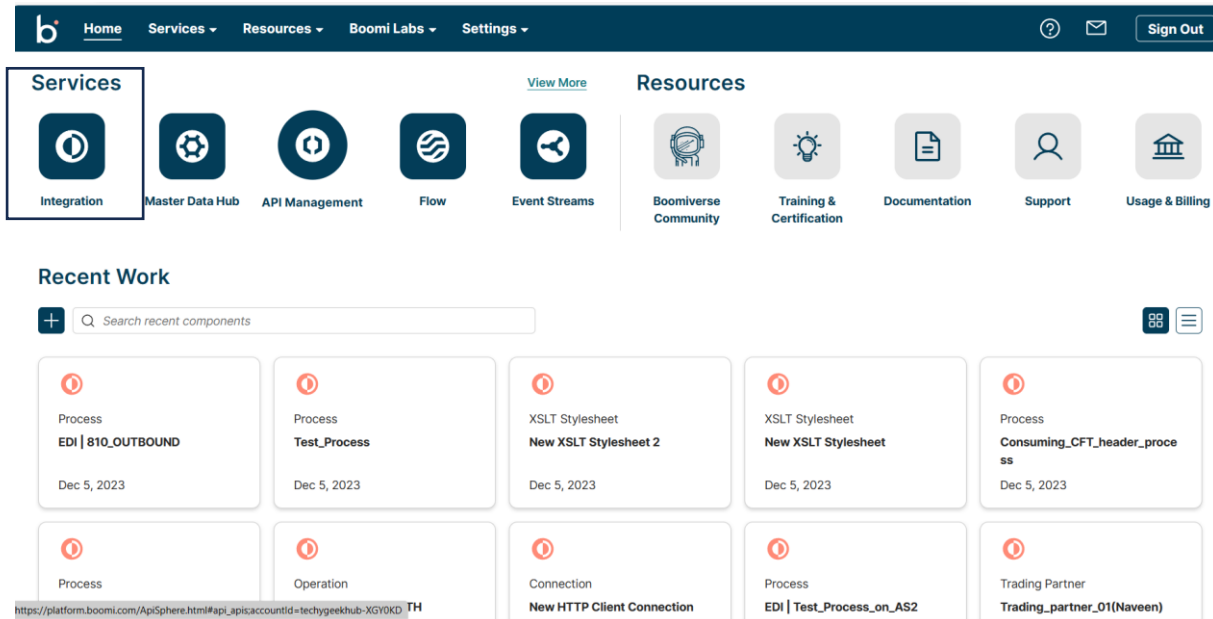
Step 2: Enter the Authorization code



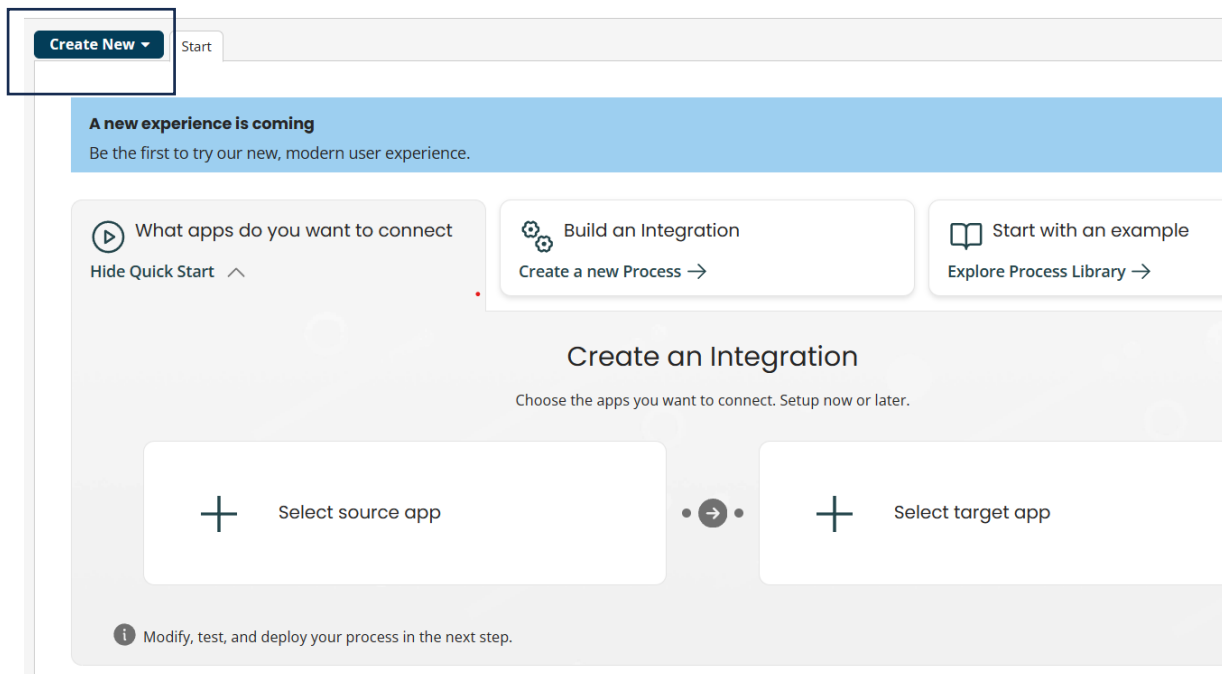
The image shows the Boomi 2FA form. At the top left is the Boomi logo. Below it is the text "Enter your 2FA code". There is a line of text that says "Two-factor authentication (2FA) is required for" followed by a redacted area. Below that is the "Authentication Code (required)" label and an input field. At the bottom left, there is a "Continue" button. Below the button are two links: "Need to reset two-factor authentication?" and "What is two-factor authentication?".



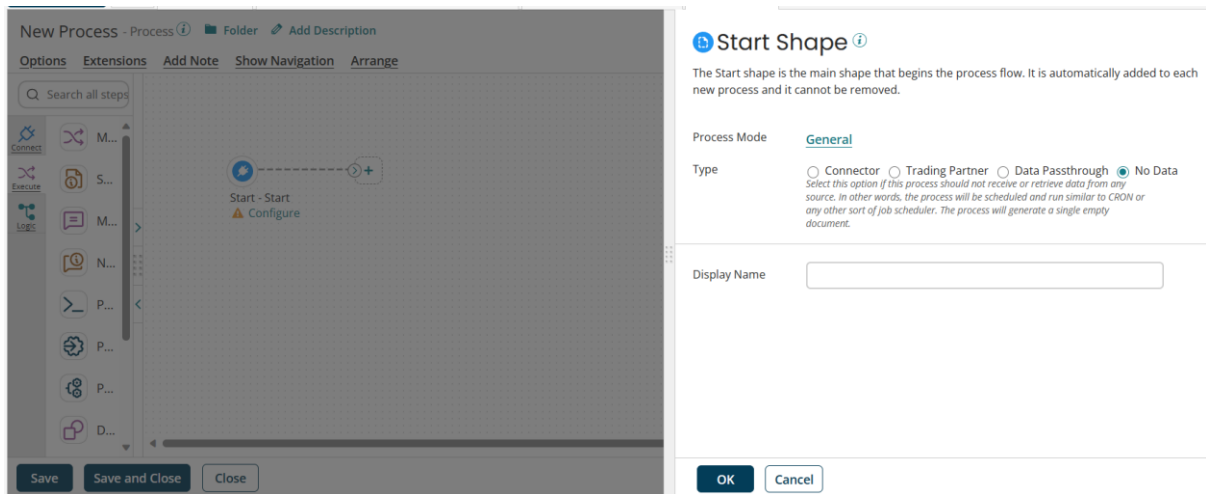
Step 3: Click on Integration Service to create our process



Step 4: Click on the Create New option, then we can see the process canvas where we can build our process.



Step 5: Once we click on the create a new option, we have to select the process component and it will show the below image.



Step 6: Here we can build our process

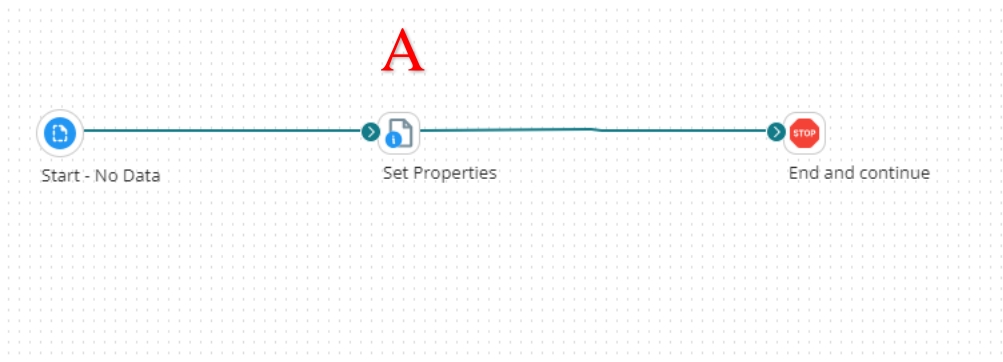


Shape Palette

Process Canvas

### Process for migrating the extensions from one environment to another.

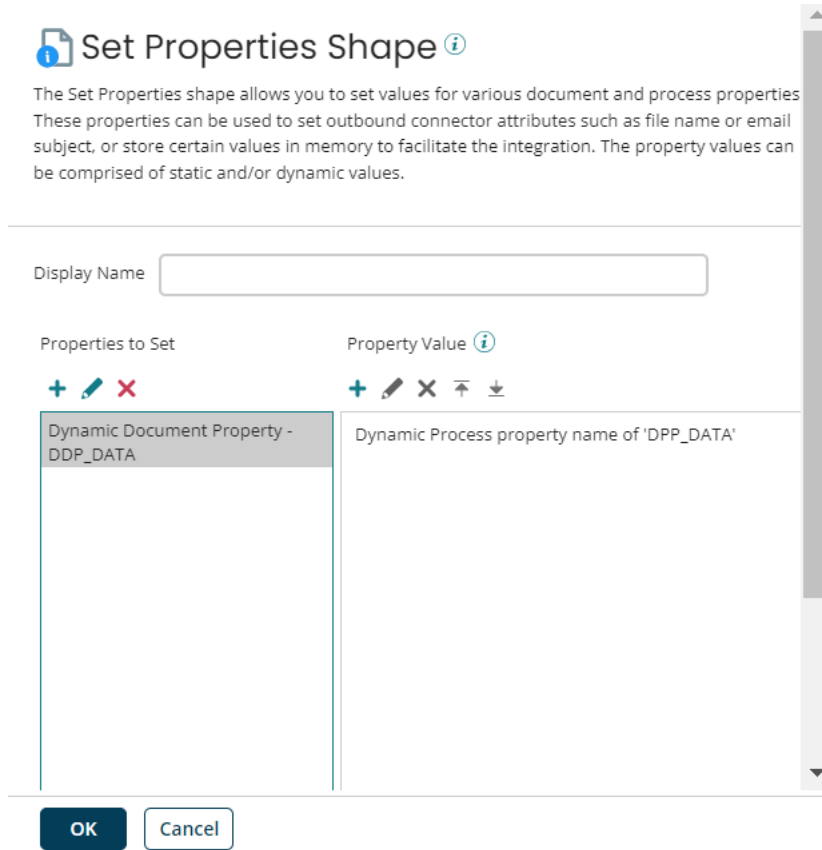
- To migrate the extensions between environments, we must first create a sample process and extend a dynamic process property (DPP) and manually deploy the same process to the source.
- We will set the value of the dynamic process property (DPP) in the environment extension in the source environment and save it. And deploy the same process to target environment as well.
- Now in the target environment we can see the DPP but not the value.
- Now let's start building the sample process.



- Create a similar process with the below details.

Following steps to understand the above diagram:

Step-A:



**Set Properties Shape** ⓘ

The Set Properties shape allows you to set values for various document and process properties. These properties can be used to set outbound connector attributes such as file name or email subject, or store certain values in memory to facilitate the integration. The property values can be comprised of static and/or dynamic values.

Display Name

Properties to Set + ✎ ✖

Property Value ⓘ + ✎ ✖ ↕ ⇅

Dynamic Document Property - DDP\_DATA

Dynamic Process property name of 'DPP\_DATA'

**OK**

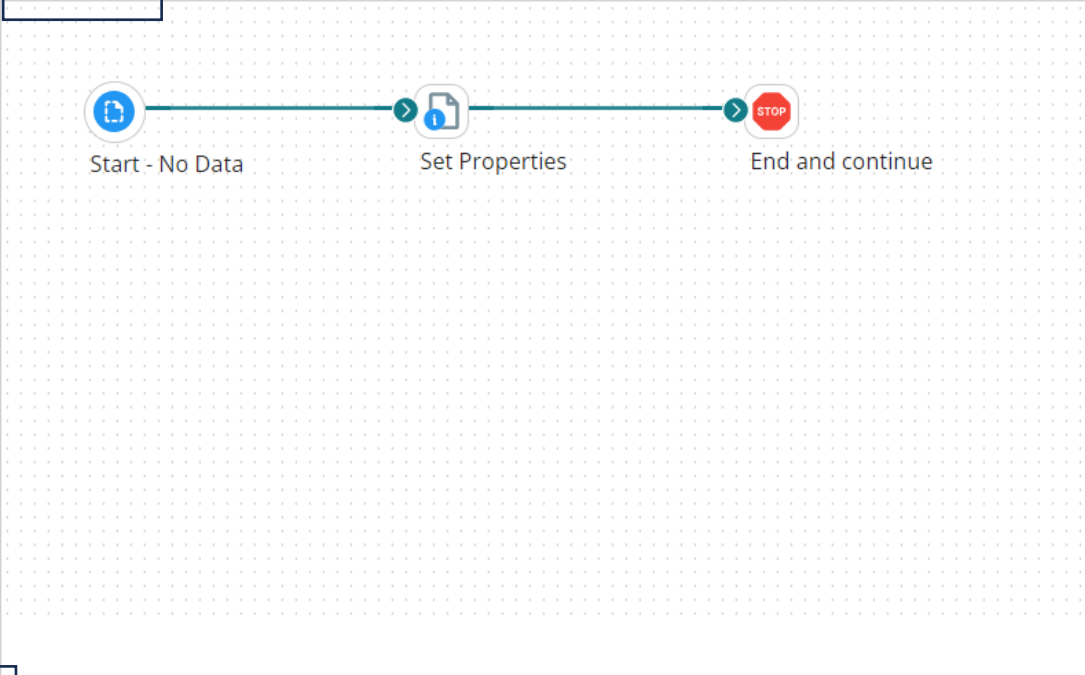
- Here on the left side, we need to take a Dynamic Document property (DDP\_DATA) and assign a Dynamic Process Property (DPP\_DATA).
- Once configuring the set property shape attach the stop shape as shown.
- Now click on save and click on extensions.

SAMPLE PROCESS - Process ⓘ Folder Add Description

Options **Extensions** Add Note Show Navigation Arrange

Q Se

Connect  
Execute  
Logic



Start - No Data → Set Properties → End and continue

Save Save and Close Close Previous Save on 14 Dec 2023 at 05:22:00 PM UTC+5:30 Revert

## Extensions

Connection Settings Partner Settings **Dynamic Process Properties** Process Properties Object Definitions Data Maps Cross Reference PGP

Extensible Dynamic Process Properties

+ x

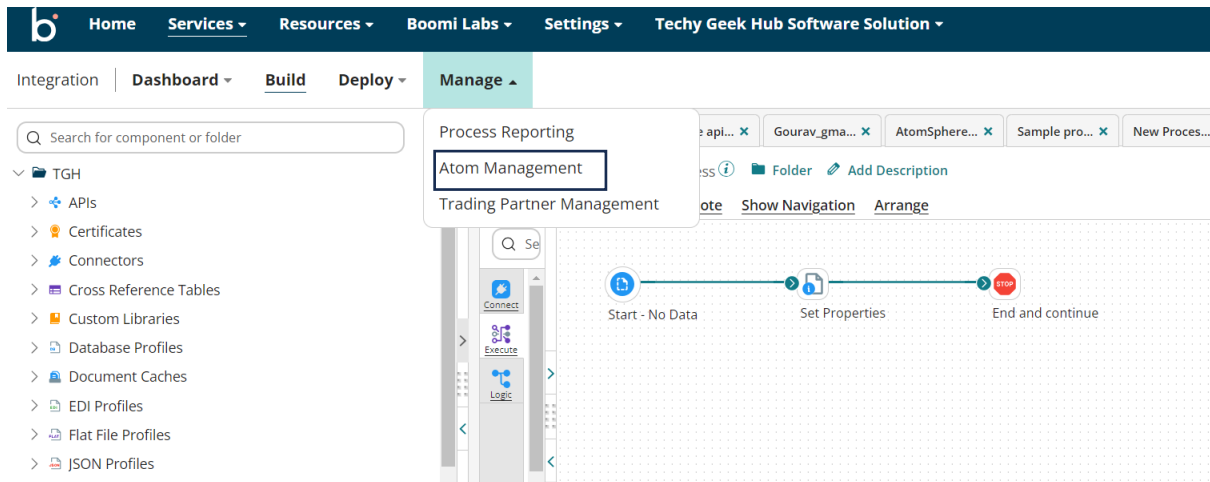
New Dynamic Process Property

Name

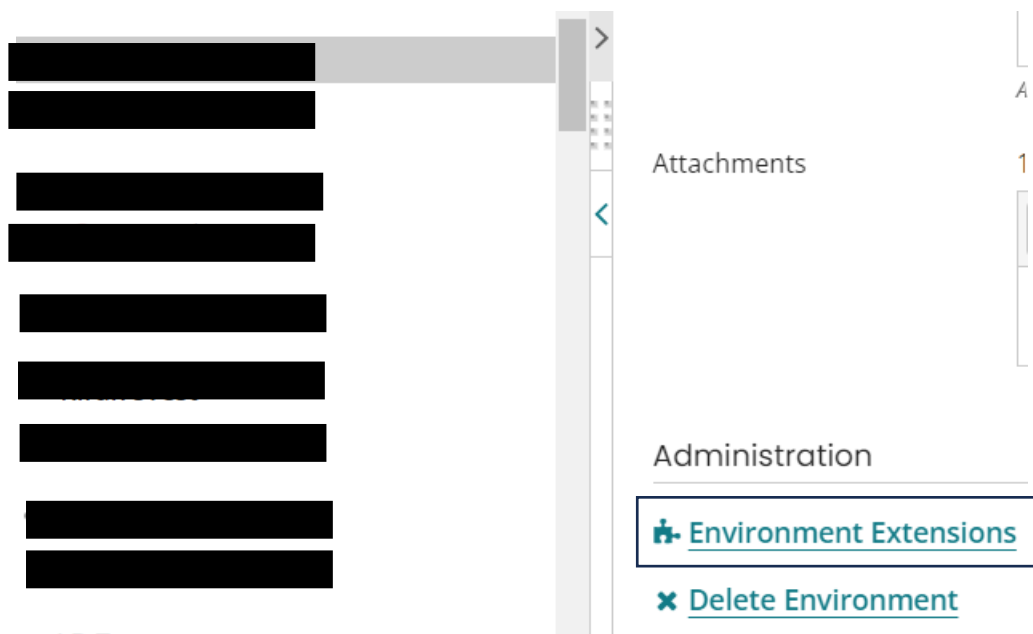
Cancel OK

Cancel OK

- Now move to the Dynamic Process Properties tab, click the + button to add the property, give the property name as DPP\_DATA, and click ok.
- Save the process.



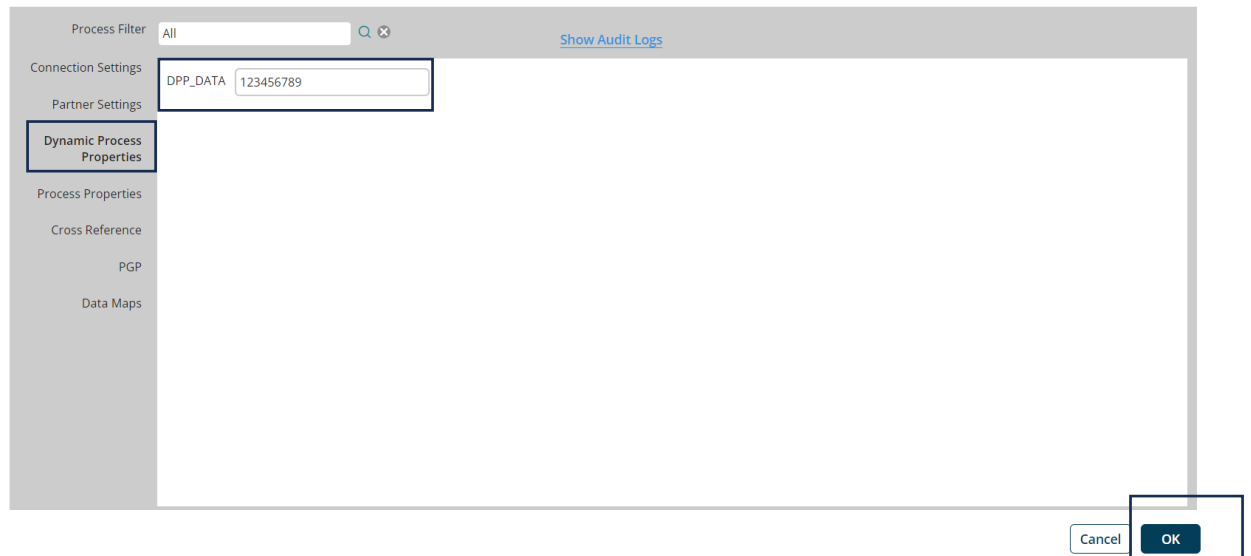
- Now click on the manage tab and click on atom management.



- Browse to the source environment and click on environment extensions.



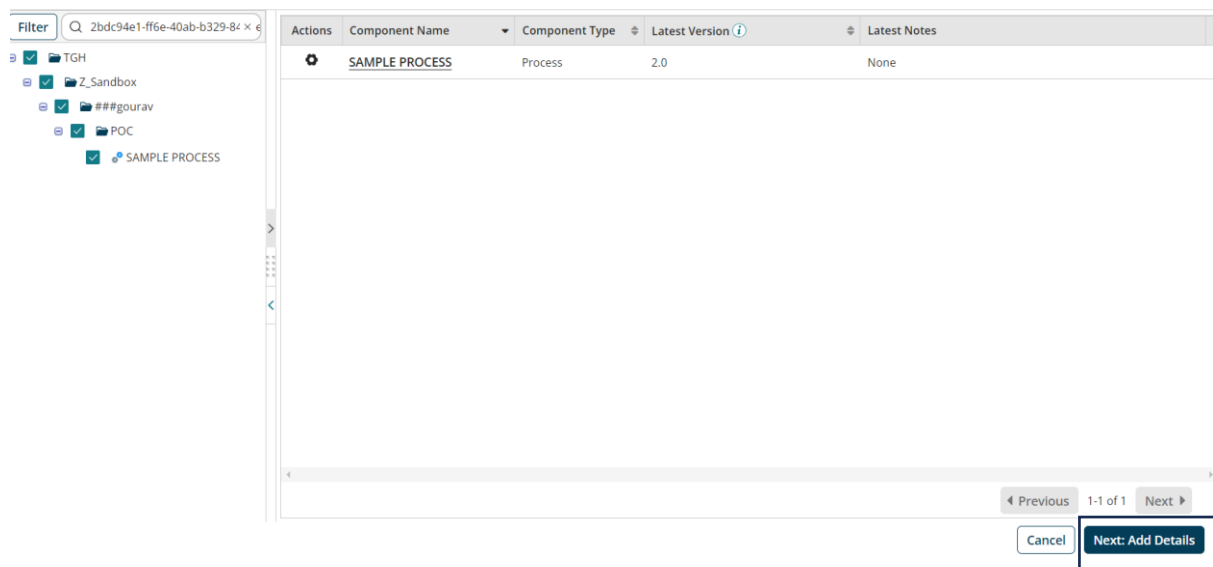
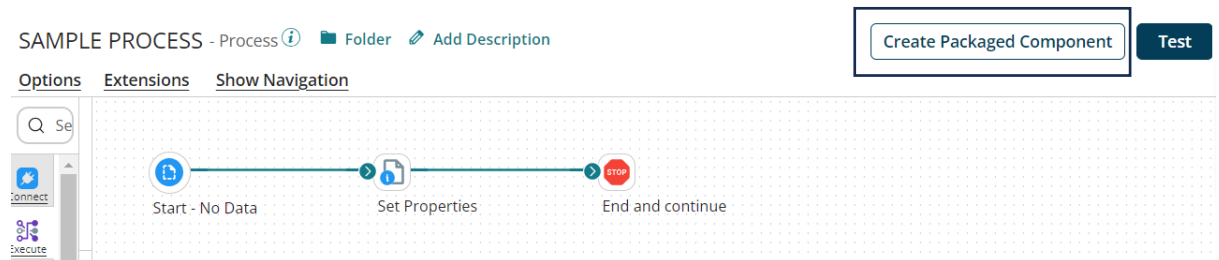
## Extensions



- Click on the Dynamic Process Property and the extended DDP\_DATA will be seen provide the value as 123456789 and click on ok.

Now extensions are set in the source environment.

- Navigate to build tab, Now click on Create Packaged Component.



- Click on Add details.

Component Name	Latest Version <sup>(i)</sup>	Latest Notes	Action
SAMPLE PROCESS	2.0	None	<a href="#">View Included Components</a>

Version for all

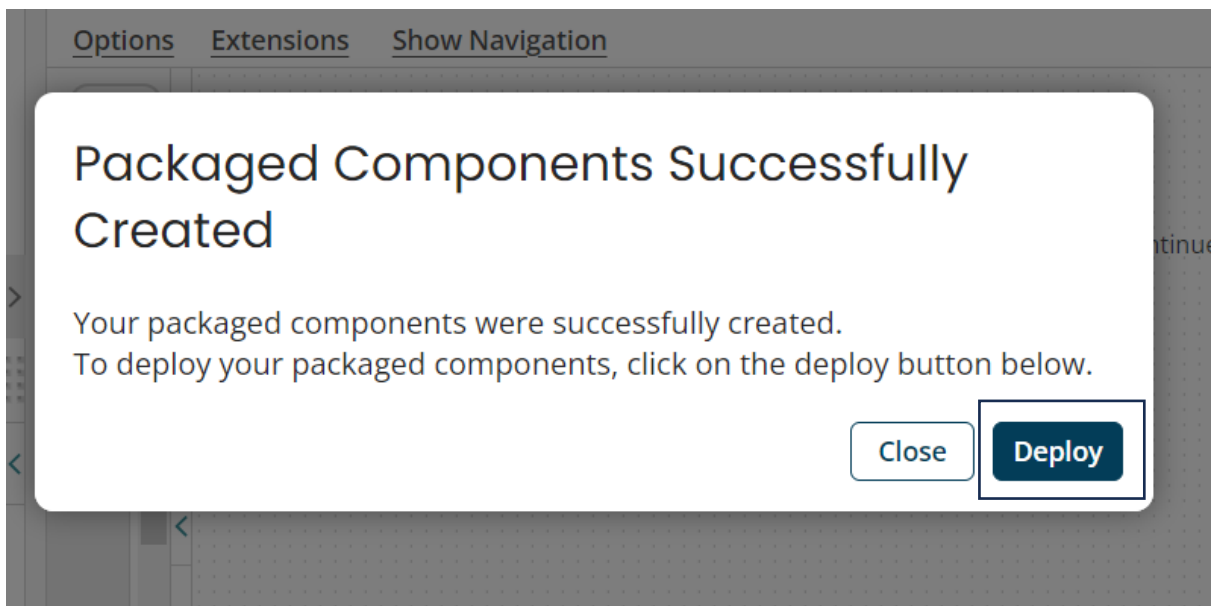
If you do not supply a name, a version number is automatically generated for each individual packaged component, and increments based on the latest version number.

Package Notes for All

4000 characters remaining.

Sharing <sup>(i)</sup>  Not Allowed  
 Allowed  
This setting is ignored for components that cannot be shared.

- Click on Create Packaged Components.



- Click on deploy.

Deployment Environment

Deployment Notes

4000 characters remaining.

Cancel **Next: Select Versions**

- Choose the source environment and click on the next versions.

Filter

- TGH
  - Z\_Sandbox
    - ##gourav
      - POC
        - SAMPLE PROCESS

Actions	Name	Type	Selected Version	Deployed Version
	SAMPLE PROCESS	Process	3.0 <a href="#">View details</a>   <a href="#">Select different package</a>	1.0 <a href="#">View details</a>

Cancel Back: Select Environment **Next: Review**

- Click on review.

Environment: Gourav-prod  
Deployment Notes:

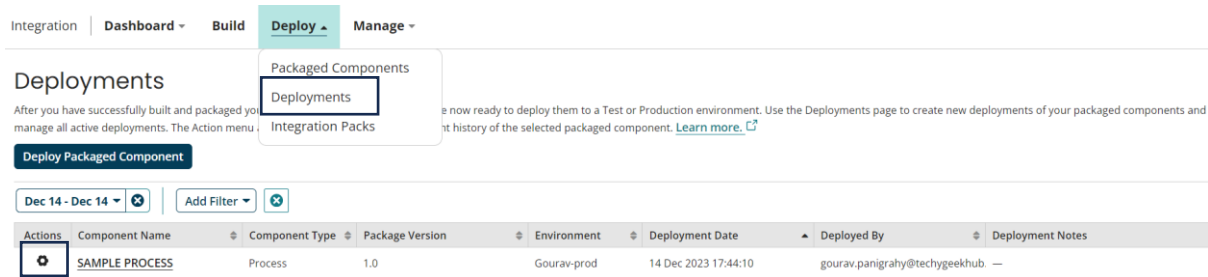
Name	Type	Selected Version	Deployed Version	Duplicate
SAMPLE PROCESS	Process	3.0	1.0	—

◀ Previous 1-1 of 1 Next ▶

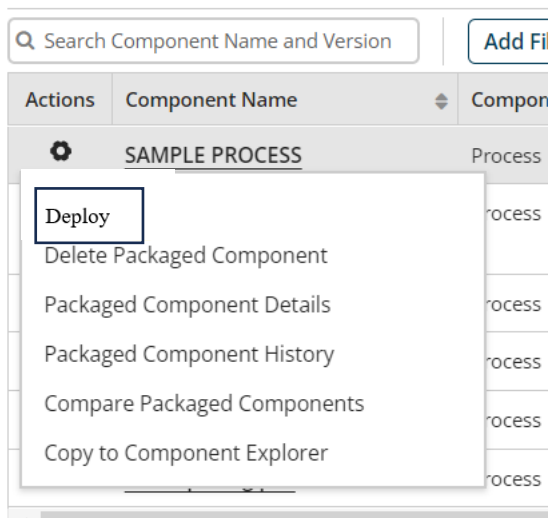
Cancel Back: Select Versions **Deploy**



- Click on deploy.
- Now successful deployment pop-up will appear just click on close.

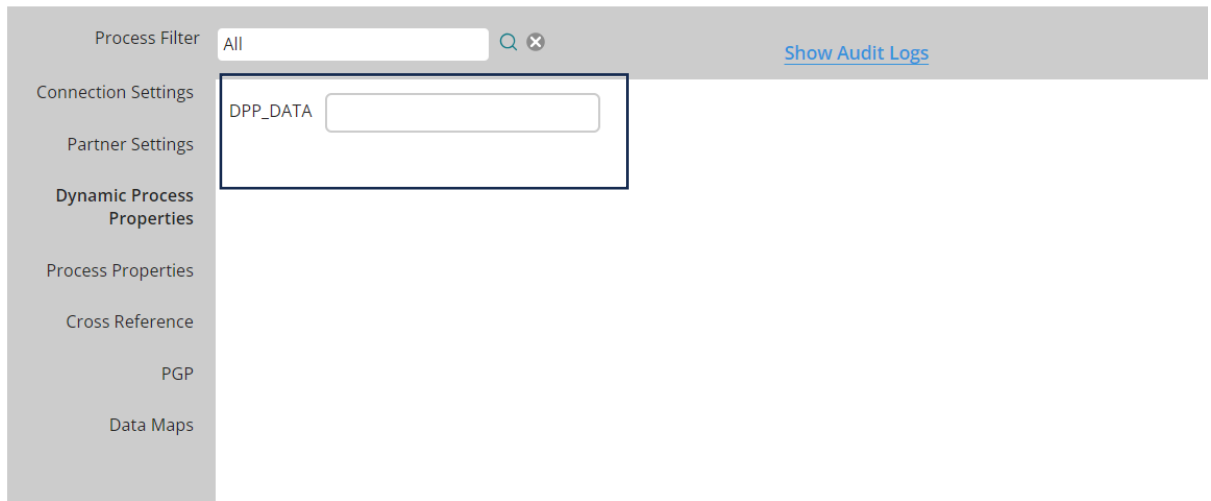


- Now click on the Deploy tab, click on deployments, and click on the gear icon of the sample process.

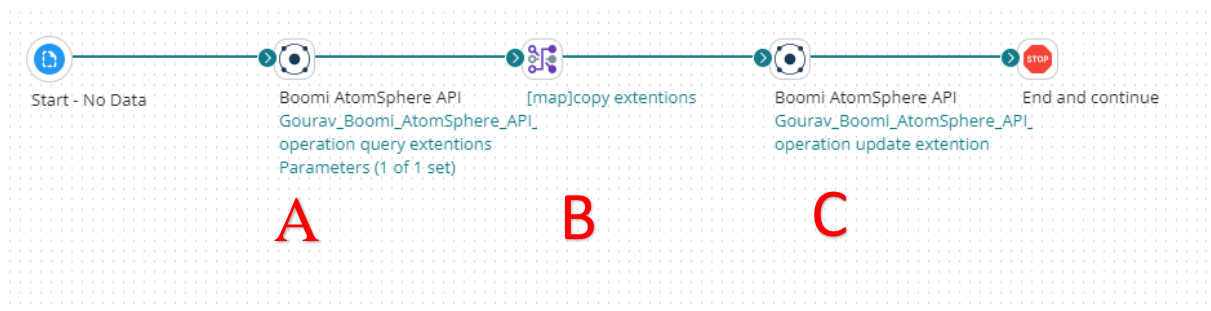


- Click on deploy, and choose the target environment, and deploy the sample process to the target environment. (follow the same process as we followed to deploy to the source environment.)
- Now click on the manage tab, then atom management, and browse to the target environment where we have deployed the sample process.
- Click on the environment extensions, and navigate to the Dynamic Process Property.

## Extensions



- Here we will see only the DDP\_DATA property but not its value.
- To migrate the extensions from the source to the target environment we will develop another process.



Following steps to understand the above diagram:

### Step-A:

- Whenever we take any connector, we have to configure 2 components
  1. Connection
  2. Operation
- Along with these 2 options, we have to specify an action, which we are going to perform
- Here, this Atom sphere API connector is responsible for fetching the current extensions in a specific environment.

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- To fetch the extensions from the source environment, we have to select the action as a Query, and in operation, we have to import one object i.e. EnvironmentExtension.
- This Object will help you to fetch the deployments in a specific environment, to do that, we have to provide Source Environment ID.

## Connection Component

Connection\_Details - Boomi AtomSphere API ⓘ  Folder  Add Description

### Connection

WSDL URL ⓘ	<input type="text" value="https://api.boomi.com/api/soap/v1/{ACCOUNTID}?wsdl"/>
Authentication Type ⓘ	<input type="text" value="API Token"/>
Username ⓘ	<input type="text" value="account_username"/>
Password ⓘ	<input type="text" value="&lt;Encrypted&gt;"/>
API Token ⓘ	<input type="text" value="&lt;Encrypted&gt;"/>

- In the connection component, WSDL URL, provide the account ID of the particular account.
- Provide the authentication type as an API Token or Password.
- In username provide the username of the Boomi platform.
- In the case of Token, paste the API token which will be generated at the account level.
- In the case of Password, provide the password of the Boomi platform.
- Now save and close the connection component.

## Operation Component

- In the operation component, make the action as query, click on import operation, specify the atom, and click on next.
- Choose the object type as EnvironmentExtensions, click on next.

## Boomi AtomSphere API Operation Import

### Operation Loaded

Object Name EnvironmentExtensions

Response Profile Boomi AtomSphere API EnvironmentExtensions QUERY Response

### Recommended Filters ?

Popular filters for EnvironmentExtensions Query on Boomi AtomSphere API. Select one to apply to your operation.

No thanks, I will set up my own filters.  
 **environmentId EQUALS ?**  
 environmentId EQUALS ?  
 environmentId EQUALS ? AND extensionGroupId EQUALS ?

Cancel

Finish

- Click on environmentId EQUALS and click on Finish.

operation query extentions - Boomi AtomSphere API Operation ? Folder Add Description

Options Archiving Tracking Caching

Connector Action QUERY

Object EnvironmentExtensions

Response Profile Q Boomi AtomSphere API EnvironmentExtensions QUERY f ?

Tracking Direction ?  Input Documents  Output Documents

Error Behavior  Return Application Error Responses ?

Objects Filters

EnvironmentExtensions Filter

environmentId:EQUALS Filter Name environmentId:EQUALS

Field Q environmentId

Operator Equal To

- Entire operation component looks like this.

**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

Add or edit the values of your parameters.

+ ✎ ✖ ⌵ ⌴











Name	Value	Source
environmentId:EQ ALS	Static value of '3230864a-5f01-4f0e-be54- cc0256cd3473'	

OK Cancel

- In the parameter, give the source environmentID statically.

### Step-C:

- Drag and drop another Boomi AtomSphere connector to the process canvas.
- Configure the connector with the same connection component which we made earlier.
- Make the action as update.

General	Parameters
Display Name	<input type="text"/>
Connector 	Boomi AtomSphere API 
	The Boomi AtomSphere API connector enables you to perform the object-based operations and actions exposed in the AtomSphere API. Learn more about <a href="#">this connector</a> . 
Connection 	<input type="text" value="Gourav_Boomi_AtomSphere_API_Connection"/>  
Action	UPDATE 
Operation 	<input type="text" value="operation update extention"/>  

- Click on the + icon on the operation to create a new operation.
- In the operation component, click on import operation, specify the atom, and click on next.
- Choose the object type as EnvironmentExtensions, click on next.



## Boomi AtomSphere API Operation Import

### Operation Loaded

Object Name EnvironmentExtensions  
Request Profile Boomi AtomSphere API EnvironmentExtensions UPDATE Request  
Response Profile Boomi AtomSphere API EnvironmentExtensions UPDATE Response



- Now after importing the operation click on Finish.

operation update extention - Boomi AtomSphere API Operation ⓘ Folder Add

Options Archiving Tracking Caching

Connector Action UPDATE ▾

Object EnvironmentExtensions

Request Profile  ⓘ ✕

Response Profile  ⓘ ✕

Tracking Direction ⓘ  Input Documents  Output Documents

Error Behavior  Return Application Error Responses ⓘ

- The entire operation component looks like this, just click on save and close.

### Step – B

- Drag a map shape in between the two Boomi Atomsphere API connectors.

## Map Shape ?

Use maps to transform data from one format to another, or more specifically, from one profile to another. The Map shape references a predefined Map component.

Display Name

Map

OK

Cancel

- Create a new map component and name it as shown.

## Choose a Source Profile

Choose the profile with the data format from which you want to map.

Profile Type

Profile

Cancel

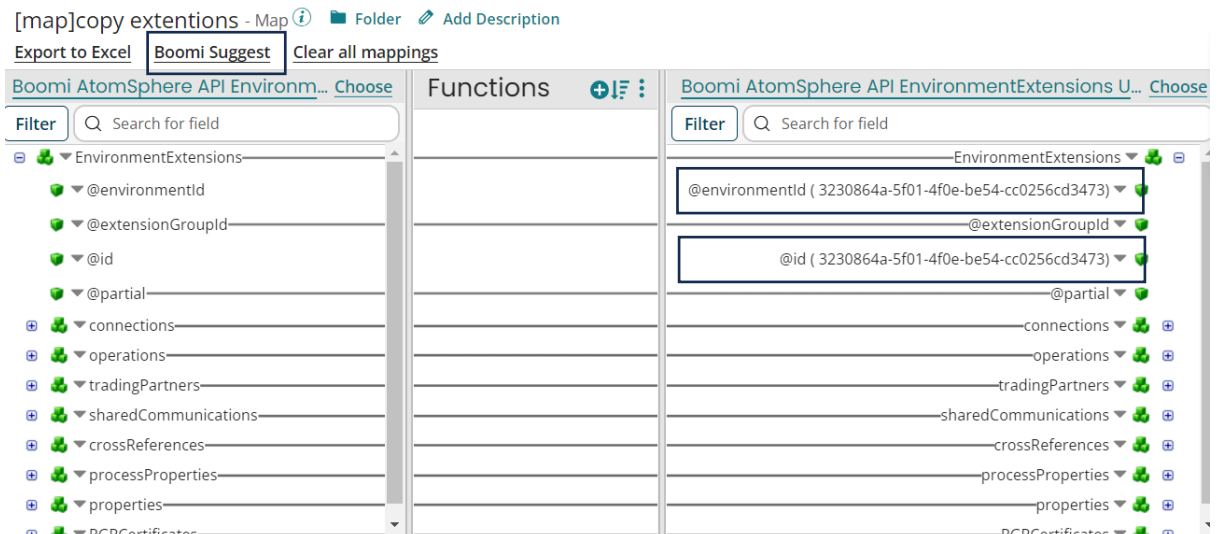
OK

- Now choose the source profile, choose the profile type as XML and in the profile select the response profile of the 1<sup>st</sup> Boomi atmosphere API connector i.e “Boomi AtomSphere API EnvironmentExtensions QUERY Response”, which we got while importing the operation.
- In the target profile, choose the profile type as XML and in the profile select the request profile of the 2<sup>nd</sup> Boomi atmosphere API connector i.e. “Boomi AtomSphere API EnvironmentExtensions UPDATE Request”, which we got while importing the operation.

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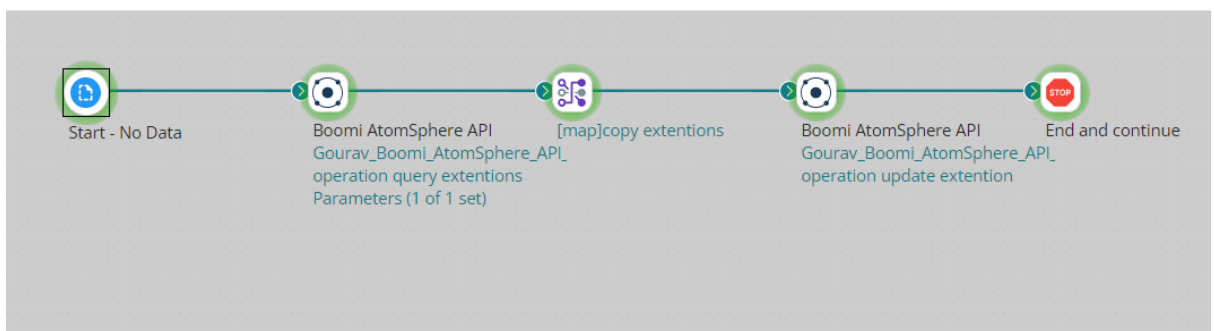
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- Using the Boomi suggest make the mappings one to one with the root elements as well as the child elements as well. Finally remove the @environmentId and @id mapping and provide the default value which is the environmentId of the target environment to which the extensions need to be copied.
- Then click on save and close the map component.
- Attach the stop shape at the end.
- Click on save to save the process.
- Now click on test to run the process.

← Process: New Process to copy extensions. ▾



- Process got executed successfully. Now click on manage tab, Atom Management, and browse to the target environment.
- Click on Environment extensions, switch to the Dynamic Process Property.

## Extensions

Process Filter    [Show Audit Logs](#)

Connection Settings

Partner Settings

Dynamic Process Properties

Process Properties

Cross Reference

PGP

Data Maps

- In the target environment, we will be able to see the extension value.



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## TGH Software Solutions Pvt. Ltd.

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At TGH, we specialize in driving digital transformation through seamless Integration Technologies.

Operating as an INTEGRATION FACTORY, we serve as a one-stop shop for all your integration needs. Our expert team is well-versed in enterprise software and legacy system integration, along with leading iPaaS technologies like Boomi, MuleSoft, Workato, OIC, and more.

We're committed to enhancing business processes and solving problems through our integration expertise.



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