





Migration of Extensions from one Environment to Another Using Boomi Atomsphere Api

Author Gourav Panigrahy

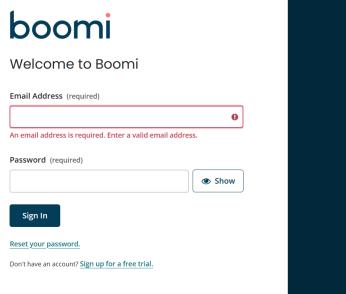




Migration of Extensions from one Environment to another Environment Using Boomi Atomsphere API.

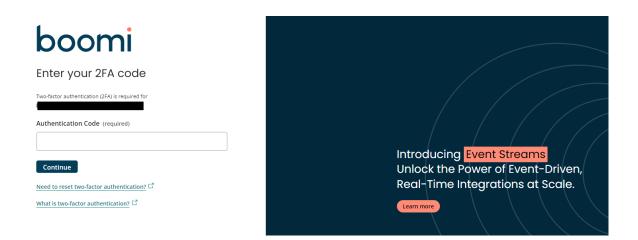
Getting Started - Logging into the Boomi Platform

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





Step 2: Enter the Authorization code



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Step 3: Click on Integration Service to create our process

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Services		View More	Resources	;			
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Process EDI 810_OUTBOUND	Process Test_Process	XSLT Stylesheet New XSLT Style		XSLT Stylesheet New XSLT Styles	heet	Process Consuming_C ss	FT_header_proce

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

A new experience Be the first to try of	e is coming our new, modern user experience.				
What app Hide Quick Start	os do you want to connect	Build an Int Create a new Proce			$ \bigoplus_{\text{Explore Process Library}} \text{Start with an example} $
		Create Choose the apps you	an Integ		later.
-	Select source app		• •	+	Select target app

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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.

Optio	ns		sion	ocess (i)					<u>e</u>			The Start	shape is t	hape the main shape that begins the process flow. It is automatically added to each cannot be removed.
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	0) s	L			Start -	Start	()+				Туре		○ Connector ○ Trading Partner ○ Data Passthrough ⑥ No Data Select this option if this process should not receive or retrieve data from any source. In other words, the process will be scheduled and run similar to CRON or
Logic		M	>			A Co								any other sort of job scheduler. The process will generate a single empty document.
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Step 6: Here we can build our process

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Shape Palette

Process Canvas

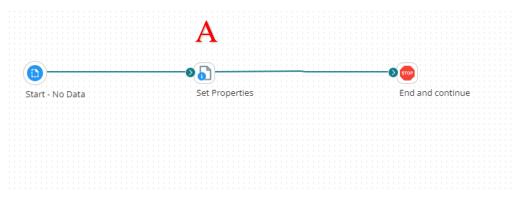






Process for migrating the extensions from one environment to another.

- 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.



uploaded, posted, publicly displayed, her computer, server, website or other



Following steps to understand the above diagram:

Step-A:

These properties can be used to set o	o set values for various document and process properties utbound connector attributes such as file name or email nory to facilitate the integration. The property values can	•
Display Name		
Properties to Set	Property Value i	
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Dynamic Document Property - DDP_DATA	Dynamic Process property name of 'DPP_DATA'	
		•
OK Cancel		

- 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.



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-	Connection Settings Pa Extensible Dynamic Process + X		namic Process Properties Process Pro	perties Object Definitions Data Maps Cross Reference
	New Dynamic	Process Prop DATA Cancel	ок	

- 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. •

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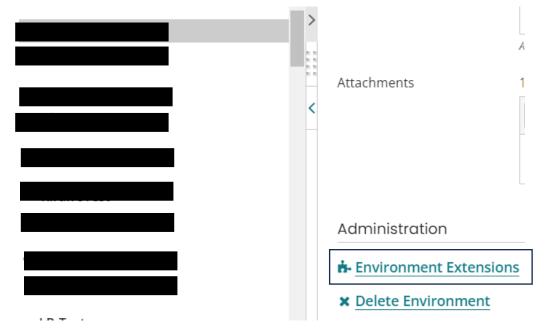


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🗦 🗈 Database Profiles	> Execute		
> 🚊 Document Caches	••• ••		
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🗦 🗁 Flat File Profiles	<		
> 🚔 JSON Profiles	<pre></pre>		

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



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







Extensions

Process Filter	All	Q Ø	Show Audit Logs			
Connection Settings	DPP_DATA 1234	56789				
Partner Settings						
Dynamic Process Properties					_	
Process Properties						
Cross Reference						
PGP						
Data Maps						
					_	-
				Cancel	ок	

• 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.

SAMPLE PROCES	SS - Pro	cess i 🖿 Folder 🖉	Add Description			Create Packa	aged Component	Test
Options Extension	Sho	w Navigation			L]
Q Se Connect Start Execute) - No Dat	a Set Pro	operties	End and continue				
Filter Q 2bdc94e1-ff6e-40ab-b329-84 × e	Actions	Component Name 🔹	Component Type 🖨	Latest Version (1)	Latest Notes			
 Image: TGH Image: TGH	0	SAMPLE PROCESS	Process	2.0	None			
	4					Previous	1-1 of 1 Next 🕨	
						Cancel	Next: Add Details	

• Click on Add details.

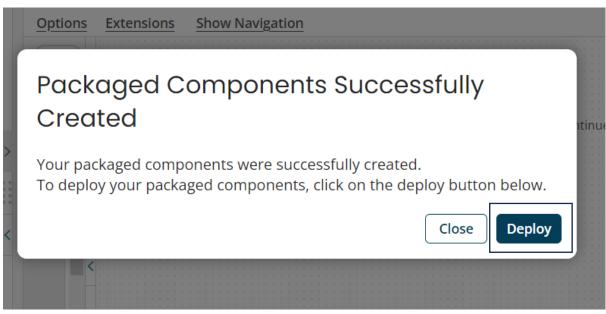
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Component Name		Latest Version (i)	¢	Latest Notes			¢	Action
SAMPLE PROCESS		2.0		None				View Included Components
Version for all								
	If you do not supply a name, a version no increments based on the latest version n	 Imber is automatically generated for each individue umber.	al pai	vckaged component, and				
Package Notes for All								
	4000 characters remaining.							
Sharing 🕡	Not Allowed							
	 Allowed 							
	This setting is ignored for components th	at cannot be shared.						
					Cancel	Back: Select Compo	ner	Create Packaged Component (1)

• Click on Create Packaged Components.



• Click on deploy.





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Deployment Environment	Q. Gourav-prod	0
Deployment Notes	4000 characters remaining.	



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

ter Q 2bdc94e1-ff6e-40ab-b329-84 × e	Actions	Name	Туре	Selected Version	Deployed Version
TGH	0	SAMPLE PROCESS	Process	3.0 View details Select different package	1.0 View details
Z_Sandbox					
😑 🗹 🖿 ###gourav					
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• Click on review.



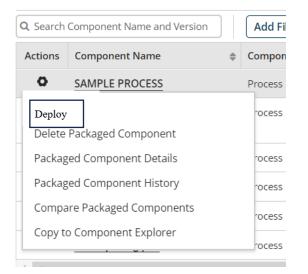
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- Click on deploy.
- Now successful deployment pop-up will appear just click on close.

Integration Dashboard - Build	Deploy Manage				
Deployments After you have successfully built and packaged y manage all active deployments. The Action menu Deploy Packaged Component		e now ready to deploy them to a T at history of the selected packaged		e Deployments page to create new i	deployments of your packaged components and
Dec 14 - Dec 14 - 🔕 Add Filter -					
Actions Component Name \$ 0	Component Type 💠 Package V	ersion \$ Environment	Deployment Date	Deployed By	Deployment Notes
SAMPLE PROCESS	Process 1.0	Gourav-prod	14 Dec 2023 17:44:10	gourav.panigrahy@techygeekh	ub. —

• 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

Process Filter	All	Q 😣	Show Audit Logs
Connection Settings	DPP_DATA		
Partner Settings			
Dynamic Process Properties			
Process Properties			
Cross Reference			
PGP			
Data Maps			

- 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.

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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 i Folder Add Description

Connection	
WSDL URL (i)	https://api.boomi.com/api/soap/v1/{ACCOUNTID}?wsdl
Authentication Type (i)	API Token 🗸
Username (i)	account_username
Password (i)	<encrypted></encrypted>
API Token (i)	<pre><encrypted></encrypted></pre>

- 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.

(in) 🔼



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

• Click on environmentId EQUALS and click on Finish.

operation query extentions - Boomi AtomSphere API Operation 🛈 🗎 Folder 🖉 Add Description

Connector Action OUERY	~		
Connector Action QUERY	~		
Object Environmen	ntExtensions		
Response Profile Q. Boomi	AtomSphere API EnvironmentExtensions QUERY F 🥒 🚳		
racking Direction (i) _ Input D	ocuments 💿 Output Documents		
	Application Error Responses ()		
	Application Error Responses (
rror Behavior Return	Application Error Responses $$		
rror Behavior Return	Application Error Responses (Filter Name environmentId:EQUALS	
rror Behavior Return	Application Error Responses () Filters S E Filter	Filter Name environmentid:EQUALS Field Q environmentId ()	

• Entire operation component looks like this.

connector and one or mo	pr Shape (i) get data into and out of a process. Most processes hi re "send" connectors. The Connector shape uses a co ad operation components to establish where and how	ombination of
General Paramet		
+ 🖍 🗙 🔺 ± Name	Value	Source
environmentId:EQI ALS	J Static value of '3230864a-5f01-4f0e-be54- cc0256cd3473'	C
		Ţ
OK Cancel		

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• 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	
Connector i	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 this connector.
Connection i	Q Gourav_Boomi_AtomSphere_API_Connection
Action	UPDATE
Operation 🥡	Q 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

Oper	ration	Loaded	
e p c i	acion	Louded	

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 Caching Tracking Connector Action \sim Object EnvironmentExtensions 🔍 Boomi AtomSphere API EnvironmentExtensions UPDATE 🥒 Request Profile \odot **Response Profile** Q Boomi AtomSphere API EnvironmentExtensions UPDATE 🥒 🕲 Tracking Direction 🥡 Input Documents Output Documents Error Behavior Return Application Error Responses i

• 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.





	Use maps to tra	shape () ansform data from one format to another, or more specific nother. The Map shape references a predefined Map comp	
_	Display Name		
	Мар	Q [map]copy extentions	/ ©
	ОК	Cancel	
• (Create a new	map component and name it as shown.	
			٢
		ource Profile	
Choose t	he profile with th	ne data format from which you want to map.	
Profile Ty	rpe XML	~	

🔍 Boomi AtomSphere API EnvironmentExtensions QUERY F 🥒 💿

Dr	ofi	
21	OII	Ie –

Cancel

- Now choose the source profile, choose the profile type as XML and in the profile select the response profile of the 1st 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 2nd Boomi atmosphere API connector i.e. "Boomi AtomSphere API EnvironmentExtensions UPDATE Request", which we got while importing the operation.

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[map]copy e <u>xtentions - Map</u> 🛈 🔎 Folder 🖉 Add Description					
Export to Excel Boomi Suggest Clear all mappings					
Boomi AtomSphere API Environm Choose	Functions	Boomi AtomSphere API EnvironmentExtensions U Choose			
Filter Q Search for field		Filter Q Search for field			
😑 🚜 🔻 EnvironmentExtensions		EnvironmentExtensions 🔻 🚭 🧉			
😻 🔻 @environmentId		@environmentld (3230864a-5f01-4f0e-be54-cc0256cd3473) 🔻 🔮			
👽 🔻 @extensionGroupId		@extensionGroupId 🔻 💗			
🍯 🔻 @id		@id (3230864a-5f01-4f0e-be54-cc0256cd3473) 🕶 🌒			
🕡 🔻 @partial		@partial 🔻 📦			
🕑 🛃 🔻 connections		connections 🔻 💑 🕀			
🕑 🛃 🔻 operations					
🕀 🛃 🔻 tradingPartners		tradingPartners 🔻 🛃 🕀			
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🕀 🛃 🔻 crossReferences		crossReferences 🔻 💑 🕀			
🕑 🛃 🔻 processProperties		processProperties 🔻 💑 🕀			
🕑 🛃 🔻 properties		properties 🔻 💑 🕀			
PGDCortificatos V		DGDCortificatos 💌 🧸 🝙			

- 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 extentions. ▼

Start - No Data	Boomi AtomSphere API [map]copy extentions Gourav_Boomi_AtomSphere_API_ operation query extentions Parameters (1 of 1 set)	Boomi AtomSphere API End and continue Gouray_Boomi_AtomSphere_API_ operation update extention

- 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.



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Extensions

Process Filter	All	Q 😣	Show Audit Logs
Connection Settings	DPP_DATA 123456789		
Partner Settings			
Dynamic Process Properties			
Process Properties			
Cross Reference			
PGP			
Data Maps			

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







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