





Extensions in Boomi





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Extensions in Boomi

In this blog, let us see how to set an atom and environment level extensions.

What are Extensions?

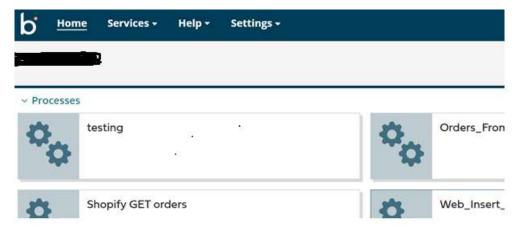
If we want to override value for a field, we can make use of extensions. In the same process, we can extend different properties like dynamic process properties, process properties, connection details, so on and can set these values at runtime. We can set the extensions at environment level. If we want to run the process in test mode, we can set the extensions at atom level.

- In this use case, we will first see how to set extensions at atom level.
- Here, we will create static data in message shape and send that data in the form of a csv file and save it to a disk location.

Let us begin with the steps.

Step 1: Log on to Boomi platform (<u>https://platform.boomi.com/</u>) with required credentials i.e., Email Address and Password.

boomi			-		
Welcome! Sign in to Aton	nSphere				
enaradores (realed)					
Apparent property	and the second se	Standard Street or	the Real Property lies	and the second	The observe
	+ Show	State of State		w w	The second second
2.5gn M	1				-
beat our astrony.					
Don't have an account? Similar for a fine.	tial.				
Parliam status of					



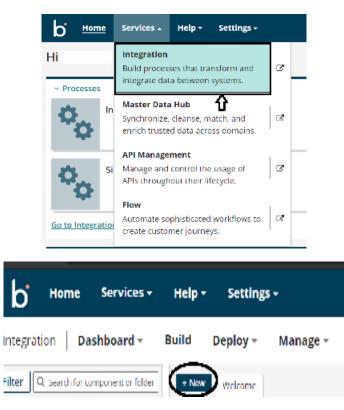
Step 2: Once logged into Boomi platform, we will be able to view Home page.

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Step 3: Now, click on Services followed by Integration. We will see the Build page. Click on New.



Step 4: Once, clicked on New, we will be able to see three fields i.e., Type, Component Name and Folder.

ettings -	Create Cor * Required fields.	nponent
oy - M	Туре	@ Process
come	Component Name*	
n A Rece	Folder*	Q \Training
es	Create Cance	1

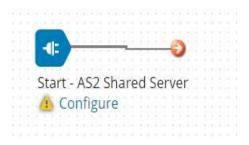
• Select Type as process as we are building a process. Component Name and Folder can be given based on your choice (i.e., which name to be given and where do we want to create the process). Click on create.

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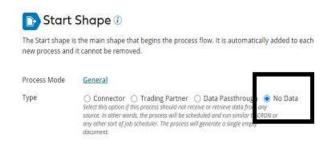




Step 5: We see that the process gets created with a start shape which is configured with AS2 Shared Server by default.



Step 6: Select the start shape and choose No Data. Click ok.



Step 7: Drag and drop message shape onto the process canvas. Click on message shape and data should be written in message box. We have created 3 fields i.e., Name, Place and Email and have set values as Hary, Hyd, <u>Timmey@gmail.com</u>. Click Ok.

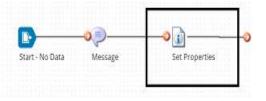
St	art - No Data		•
	generates a free-flo ents that are sent to	w text message from a d a Message shape are tr	ynamic or static set of input ansformed, and the documents
Display Name			
Option	Combined		essage (1)
Message	Name Place. Trimukyd, Tie	enal nmeyØgmal.com	
		= .	
Variables	0/0	· =	

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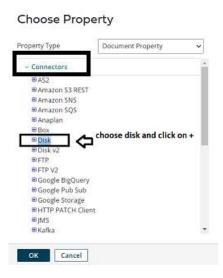
Step 8: Next, drag and drop set properties shape onto the process canvas.



- Here, we want to set the file name of a file which we are going to save it in the disk location.
- That files name comes from dynamic process property which we will set in extensions.
- Select set properties shape and to set the file name, click + as shown in the below screenshot.

👔 Set Properties	Shape 🕖
These properties can be used to s	ou to set values for various document and process properties. et outbound connector attributes such as file name or email memory to facilitate the integration. The property values can amic values.
Display Name	
Properties to Set	Select a property to edit
Click + to select file name from document property	

• Now, we need to select **Disk** from **connectors** as we are going to save the file in disk location. Click + beside Disk.

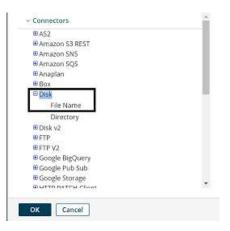


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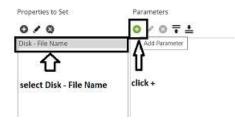
• Select File Name from Disk and click ok.



• We have configured File Name from disk connector in Set Properties Shape and we have to set the value for it.

👔 Set Propert	ies Shape 🕖	
These properties can be us	llows you to set values for various document a ed to set outbound connector attributes such ues in memory to facilitate the integration. Th or dynamic values.	as file name or email
Display Name		
Properties to Set	Select a property to edit	
O / O Disk - File Name		

• To set the value, click on Disk – File Name and click + on the parameters section as shown.



• Select Dynamic Process Property from Type as we are getting the file name from dynamic process property which will be configured in extensions.

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Type	Static	~
Static Value	Connector Call Cross Reference Lookup Current Data Date/Time Document Cathe Lookup Document Property Execution Recents	
choose dynamic process property	Eyptantic Process Property Profiles Mogenty Profile Element Sequential Value SQL Statement Static Static Stored Procedure Unique Value	

• Now, set the property name as "Comes from extension" as we will configure the file name in extension. Click ok.

Туре	Dynamic Process Property	~
Property Name	Comes from extension	

• We want the filename to be saved as CSV file and will have define it in the properties tab. Choose + in the parameter section as shown in the screenshot.

0/0	0 / 0 ∓ ≛
Disk - File Name	Dynamic Process property name of 'Name Comes From Extension'
click + to save the	file name in csv format.

• Select Type as static and give the value as .csv

Paramete	r Value	
Туре	Static	~
Static Value	.csv	

• After setting the properties in set properties shape, it looks as follows. Click ok.

Set Properties Shape 🖲

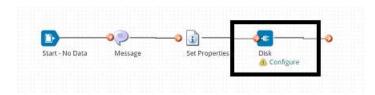
These properties can be use	ows you to set values for various document and process proper d to set outbound connector attributes such as file name or em les in memory to facilitate the integration. The property values or r dynamic values.
Display Name	Parameters
0/0	o∕o∓≛
Disk - File Name	Dynamic Process property name of 'Comes from extension'
	Static value of '.csv'

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Step 9: Drag and drop Disk Connector onto the process canvas as we are sending the file to a disk location.



Step 10: Here, we will have to configure Action, Connection and Operation. We have 2 operations in Action i.e., Get and Send. We will choose send as we are sending the file to a disk location.

General Pa	rameters	
Display Name		
Connector 🕡	Disk	v
Action	Get	v
Connection ①	Get Send	
Operation 🚺	a frese	0
	select action as Send	

• In Connection, click + to create a new connection.

Display Name		
Connector 🕧	Disk	~
Action	Send	~
Connection (i)	Q Choose	0
Operation 🕕	Q Choose	4

• Name the connection and in directory, give the location of the file which we want to save. Click save and close.

Send Disk Con	nection - Disk (1) Endder Add Descript Name the connection	ion
Settings		
Directory	D:\Demo	

- Give location of the file where we want to save it
- In operation, click + to create a new operation. Name the operation and Connector Action will be send as we have configured send in connection.







end Ope	eration - Di Na	sk Operation me the op	n i 📁 🖿 Folder 🕜 Add Description eration
Options		Tracking	Caching
Connector	Action		Send 🗸
Create Dire	ectory if it doe	esn't exist	0
File Namin	g Options		Create unique name if file exists 🗸

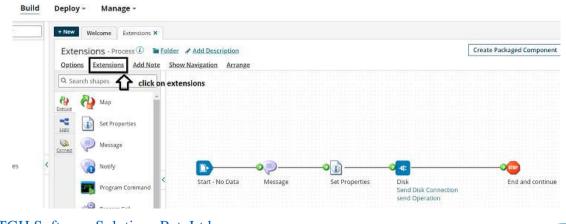
• Check "Create Directory if it doesn't exist" box if we don't specify the directory. We have already specified the directory in connector so let's not check it. We have different options to name the file as in below screenshot. We will choose default i.e. create unique name if file exist. Click save and close.

Options	Archiving Tracking	Caching
Connector	Action	Send w.
Create Dire	ectory if it doesn't exist	0
File Namin	g Options	Create unique name if file exists 🛩
		Create unique name if file exists
		Overwrite if file exists Append if file exists
		Error if the exists.

Step 11: Drag and drop stop shape onto the process canvas to indicate end of the process. Click save.



Step 12: Now, click on extensions in build tab.



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Step 13: We see that in connection settings, we have got the connection as "**Send Disk Connection**" which we have configured in connection tab. Here, we have an option of setting directory as extensible which means we can override the location which we have specified as directory in connection tab.

NOTE: We have to set the property as extensible, only then we will able to set values for extensible properties at runtime. This is applicable at atom and environment level extensions.

Extensions							
Connection Settings	Partner Settings	Dynamic Process Properties	Process Properties	Object Definitions	Data Maps	Cross Reference	PGP
Connection	Send Disk Connect	ion 🗸					
Select extensible prop	erties	and the second sec					
Directory							
***NOTE: The Connecti	on list contains all c	onnections included in this pro	ocess or any of its sui	o-processes			
and the same the		sources and a second	access of any office ad	a processes.			
OK Canc	el						

• Here, we will check the directory as extensible meaning we can override the value at runtime.



• We see Dynamic Process Properties in extensions and once we select it, click + and we have to add the property name as "comes from extension" which we have configured in set properties shape and we will set the value for this property at runtime. Click ok.

Connection Settings	Partner Settings	Dynamic Process Properties	Process Properties	Object Definitions	Data Maps	Cross Reference	PGP
Connection	Send Disk Connect		2				
Select extensible prop	erties	select this					

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Connection Settings	Partner Settings	Dynamic Process Properties	Process
Extensible Dynamic Pr	ocess Properties		
00			
Comes from extension	n		

Step 14: Now, test the process by selecting an atom. Below atom, we see there is a drop down called as **Run Test** where we can provide runtime values.

· local_ato	ш.
• local_ato	m
Test Exte	nsions

In Connection Settings, we see there is a connection which we have configured. In Directory, we have a check box called as "Use Default". If we check the box, it will take the default value i.e. (D:\Demo) which we have configured in the Connection. If we uncheck the box, we can override the default value by specifying the new value.

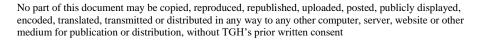
local_atom							,
 Test Extens Connection 	2010-01	Partner Settings	Dynamic Process Properties	Cross Reference	PGP	Process Properties	
Connection	Send Disk	Connection	~				
There are no		connections					
Directory			🗹 Use Default				

• Here, we will uncheck the box and give different directory location (**D:\Boomi Examples**) so that it will override the directory which we have configured in connection tab.

local_atom	r.	
* Test Exten:	iions	
Connection	Settings Partner Settings	Dynamic Process Pro
Connection	Send Disk Connection	- U
Connection		
There are on	extensible connections	

• Now, we will set the value for Dynamic Process Property by choosing Dynamic Process Property.

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local_ator	n				
 Test Exter 	isions				
Connectio	n Settings	Partner Settings	Dynamic Process	Properties	Cros
Connection	Send Dis	k Connection	*	$\overline{\Delta}$	
There are n	o extensible	connections			
Directory	D:\BoomiEx	amples	Use Default	choose	

• Once, we choose Dynamic Process Property, we get to see property name as "comes from extension" for which we will give the value as "Contact".

local_atom					
Test Extensions					
Connection Settings	Partner Settings	Dynamic Process Properties	Cross Reference	PGP	Process Properties

• Here, file will be saved as Contact in the directory which we have mentioned and run test.

Test Extensions					
onnection Settings F	Partner Settings	Dynamic Process Properties	Cross Reference	PGP	Process Properties
omes from extension	Contact	given file	name as Contact		

Step 15: Once, we run the test we can see that file with Contact have been created as a csv file in the directory which we have specified in extensions.

Start - No Data	Message	Set Properties Disk Send D send O		and continue	
Documents			Test Results		
		ource Data Connection Data			
Documents	Logs Shape Si View		Test Results File Name	0	Size (kB) Ø

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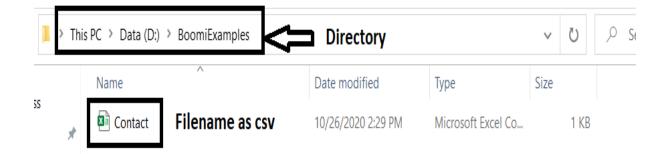




• The output looks like as follows in test mode.

Document Viewer

Name,Place,Email Hary,Hyd,Timmey@gmail.com



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Set Environment level Extensions

Now, let us see how to set extensions at environment level.

Here, we will consider the same use case but will set the extension at environment level.

Step 1: Firstly, deploy the process which we have created to an environment. Click on create packaged component.

tensions Add Note	older Add Descri	Arrange			
					2 3
					111 11 11 HILL BUILD 1184
-					
	-0-2				
Start - No Data	Message	Set Properties	Disk	End and continue	
	197		Send Disk Connection		
			send Operation		

• The process gets selected automatically. Click Add Details.



• Next, select the version and write notes if you have any. Click on create packaged component.

	Latest Version (1)	Laterit Notes	# Action
numme :	1.0	5	View Installed Components
e be at	~		
Courses.	ne suggio o nervo, o rectore nuevier in quincitativi generativite nel s'attantes de mine venan nuevier.	Antibiol participation and	
er faates fur AD		î.	
		$\leq \exists$	
	taxi maning		
	Processes and APts in the publicly shared to solutionity		

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• Now, we see that the package has been created successfully and click on deploy.



• We will then have to select the environment. Choose production and click select version and review.

Deploy: Select Environment

Select the environment in t	which to deploy your packaged component(s), and optionally add notes about the deployment
Deployment Environment	Q Choose
Deployment Notes	API Production Test production
	4900 charoczers remalning.
Deploy: S	elect Environment
Select the environ	ment in which to deploy your packaged componentis); and optionally add notes about the deployment.
Deployment Ervin Deployment Note:	API Production
	eroduction choose production
	ADD0 characters remaining
	Next: Select Versions
	Next: Review

• We will be asked to cross check the environment which we have configured in deployment tab.

Deploy: Review

You're almost done! Refore deploying this version of	your packaged component, confirm that the destination environment you have selected is correct.

Environment: production Deployment Notes:				
Name	Туре	Selected Version	Deployed Version	Duplicate (1)
Extensions	Process	8.0	N/A	-

• Once, we click on deploy we will be able to see that deployment is done successfully.

Deployment Successful

	ponents were successfully deployed. ployments button to see all deployments for this	
View Deployments	Close	

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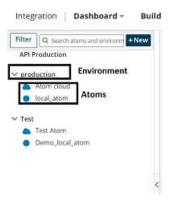




Step 2: Now, close and navigate to build tab and click on manage followed by atom management.

hboard - Build Deploy - Manage -					
sponent or folder	+ New W	Process Reporting			
В	Expose	Atom Management	/ Ma Description		
	Options	Boomi Assure	Arrange		
	Q Sropes	Process Library			
E)	Real Andread	Trading Partner Management			
ĸ	-C	•			
28	100	Start - Web Services Serve	Add		

Step 3: Click on the environment i.e.(production) to which we have deployed the process.



Step 4: we see an option called as "Environment Extensions". Click on it.

Filter Q Search atoms and environm +New API Production	Environment ID Classification	16ee1837-8b5a-4832-9166-dcd9b7ec8f93 Production
roduction	Configuration	
 Atom cloud local_atom 	Roles with Access	0 items selected.
r Test		Q Choose additional roles
 Test Atom Demo_local_atom 	Attachments	Administrator Developer restricted with limited access MDM Administrator MDM Oata Steward MDM Developer Any role with Environment Monagement providege has access by defourt. 2 items selected.
		Q. Choose Atoms to attach Atom cloud
	Administration	sions click on this

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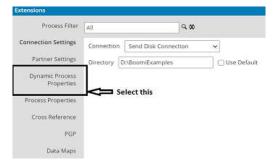
Step 5: We will be able to see connection as extensible as we have set the extensions in build page. Now, choose the connection i.e., Send Disk Connection and In Directory, we have a check box called as "Use Default". If we check the box, it will take the default value i.e.
(D:\Demo) which we have configured in the Connection. If we uncheck the box, we can override the default value by specifying the new value.

Extensions			
Process Filter	All	Q. 00	Show Audit Logs
Connection Settings	Connection	Choose	
Partner Settings		Choose Send Disk Connection	
Dynamic Process Properties			
Process Properties			
Cross Reference			
PGP			
Data Maps			

• Here, we will uncheck the box and give different directory location (**D:\Boomi Examples**) so that it will override the directory which we have configured in connection tab.

Process Filter	All Q.		a Øuncher	^X uncheck the box	
Connection Settings	Connection	Send Disk Connect	ian ,	· Û	
Partner Settings	Directory [0.vBoomiExamples		🗍 Use Defa	
Dynamic Process			100		

Step 6: Now, select Dynamic Process Properties and give the file name as Contact. Click ok.



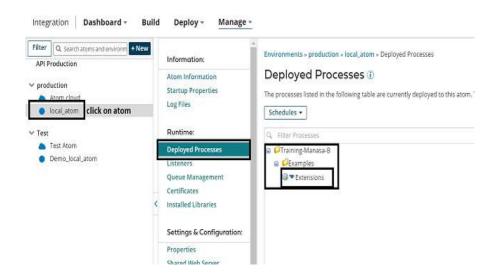
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Process Filter	All Q. 30
ection Settings	Comes from extension
rtoer Settings	
amic Process Properties	Δ
is Properties	
ss Reference	Give the name as
PGP	
Data Maps	Contact
	1 <u>17</u>
ons Process Filter	All
Process Filter	All Q 00
Process Filter	
nection Settings Partner Settings ynamic Process	
Process Filter nection Settings Partner Settings	Comes from extension
Process Filter nection Settings Partner Settings mamic Process	
Process Filter nection Settings Partner Settings mamic Process Properties	Comes from extension

Step 7: Click on the atom where we have deployed the process and select Deployed Processes. We will be able to see the process which we have deployed.



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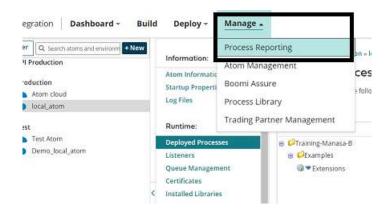
Step 8: Click on the small arrow beside Extensions and select execute the process.

Sche	edules -	
QL F	ilter Processes	
8	CExamples	
	Stop Schedules	
	Edit Schedules	
	Edit Process Properties	

Step 9: Once we execute the process, we will see a message saying "process execution message has been sent" at right corner of the page.



Step 10: Go to Manage□ processing tab and can view the execution.



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Step 11: We see that the process has been executed and a file has been generated in the destination directory.

	< Co		Send Disk (send Operat						-					
	ID	0	Actions	Directory	0	File Name	\$	Size (kB	3) © Irroi	Message				
	2	•	٥	D:\Boomil	xamples	Contact.csv		0.).04					
			0		22									
gration Das	shboard	l∗ Bi	ild Deplo	y - Mana	<u>e -</u>									
ecutions •											Execute Pr	rocess Auto	o Refresh is Of	ŦC
ast Hour 💌	Add Filte		*									All Free	ers Pending	Sur
Time	¢	Pro	cess									All City	is renoing	and
26 Oct 2020 15:57:3					Actio			¢	ln \$	Out # Elapsel Tin	ne 🗢 Error Message			
	5	👌 Ext	nsions		Actio		atom	¢	ln \$ 1	CONTRACTOR OF A DESCRIPTION OF A DESCRIP	ne ‡ Error Message 0:00			
	15	8 Ext					atom	0		CONTRACTOR OF A DESCRIPTION OF A DESCRIP				
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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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