

Installation and Configuration guide

AuraQuantic: integration with Blue Prism

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1. Introduction:



This document describes **how to integrate AuraQuantic with Blue Prism** and vice versa. First, by using the **AuraQuantic VBO** to connect to AuraQuantic and start or continue the flow in any of your AuraQuantic processes and second through the **AuraQuantic SOAP connector**, to start any Blue Prism process that is exposed as a SOAP Web Service.

Both examples and all the information needed are provided in this guide.

2. Prerequisites:



- AuraQuantic Neon 5.1 or above.
- Blue Prism 6.0 or above with the following object dependency:
 - ✓ Web API Services: AuraQuantic (included).

3. Package contents:



The AuraQuantic Integration **Demo.bprelease** contains the following elements:

- ✓ The AuraQuantic Demo process.
- ✓ The VBO Web API Services AuraQuantic.



4. Integration guide

In this section we will cover the integration from Blue Prism to AuraQuantic using a REST Web Service connection, and the integration from AuraQuantic to Blue Prism using a SOAP Web Service.



4.1. From Blue Prism to AuraQuantic

Import the release package: **AuraQuantic Integration Demo.bprelease**, containing the Blue Prism process AuraQuantic Demo and the VBO Web API Services – AuraQuantic. This is done from the File tab:

Blue Pris	m - Robotic Proces	s Automation So	ftware				
File	Home	Studio	Control	Analyti	cs	Releases	System
New	Ctrl+N tudi	io i	View detail about	Processes	or Business	Objects	
Open Import	Ctrl+0 Ctrl+1	(Default)	🛃 Demo				
Export	Den	10	Integration Demo: Thro	ugh this proces	s, you can call ar	ny IM/EM inside	
Evit	tions		Version history for this	object / proces	s:		
			Date and Time	Type of Edit	By User	Edit Summary	

Open the demo process from the **Blue Prism Studio**. From there, double click on the *Action AuraQuantic::Start IM:*.

Then select *Start IM* or *Go to EM*, depending if you want to start a new AuraQuantic process or continue a process already started.





Next, in the system tab, go to *Objects* > *Web API Services* and double click on AuraQuantic:

ile	Home Studio	Contr	ol Analytics	Releases	System					
	System	Objec	ts - Web API Services							
		^								
	Exposure	Enab	led Name	Number of	Last	Skills	9	Add Servi	ce	
	Management			Actions	Updated	Skiils		Edit Servi	ce	
	Exception Types		WS_AuraQuantic	1	7/16/2019		G	Delete Se	rvice(s)	
	Environment Variables		AuraQuantic	2	7/24/2019			Find Dafa		
	🗄 🍕 Objects						9) rind Keler	ences	
<u>ا</u>	Exposure									
	Management									
	History									
	External COAD Web Convises									
_	Web API Services									
	Connection Settings									
	Exception Types									
	Environment Variables									
	🚊 🛞 Skills									
	Management									
	e									
	Pools									
	Management									
	Data Gateways									
	Configuration									
	Work Queues									
	Environment Locks									
	🖕 🦿 Security									
	Users									
	User Roles									
	Sign-on Settings									
	Credentials									
	Encryption Schemes									
	Process Logs									
	Object Logs									
	Audit Logs									
	Statistics									
	Alerts	~								



Change the *Base URL*, so that it matches your installation host URL:

Web API: AuraQuantic		?	_		×
Configure a Web API definition for t	ise by Blue Prism				
AuraQuantic Common Headers Common Authentication Common Code Actions Start IM Parameters Response Goto EM Parameters Request Headers Request Headers Response Goto EM Parameters Response Response Add Action Delete Action	Enter a unique name and the Base URL of the Web API. The URL is used in all requests generated The Base URL can contain Common Parameter values when specified in the format (parameter in Name AuraQuantic Base URL http://YOURINSTALLATIONURL/WebService/Custom/RestMessage svc C Enabled Advanced Settings	by the action ame].	ns within	this defini	
		ОК		Cance	ł

Next, in the *Common Headers* tab:

Web API		? – 🗆 🗙
Configure a Web API defini	ition for use by Blue Prism	
T	Configure headers that are used in all actives specified in the format [parameter name].	ns for this API definition. The Header Value can contain Common Parameters values when
AuraQuantic Common Headers	Name	Value
Common Parameters	Content-Type	application/json
Common Authentication	АріКеу	
- Actions	UserData	
- Start IM		
Add Action Delete Action		
		OK Cancel

Type the APIkey of an AuraQuantic Secure Room that contains the desired process IM o EM. From your AuraQuantic Installation, go to *Structure > Secure Rooms > Web Service > Create*:



Type a **name and a description** and select **Edit Assignment**, choose the processes you want to give access to the API Key and copy its value:

T SAVE AND EXIT SAVE DELE	TE			EDIT ASSIGNMENT	EXPAND	COLLAPSE
Name JBM-UiPathCallback				BluePrism		
Description				вр		
Secure Room Active	Expiration 02-08-2019	×				
API Key fPpHEPoyad1vEiO+POIRintrTV	Jailata (+ cMDfE0pyS9+b)	/NI				
XytWSASCBz+PxpNtxSJo3jnzJ RgeBpj+zvTGCKCSd223RGrzTp QGBBYJFxqyQUbYxbZvc5taQrtf 09JYOoiL5nKXzf5ScPGCfmQVo.	UOUBheBG1HLL/aFswt6jB puAKCyh5zHT44IPsMSI5F EK+8j6IELkHg3UDsk8NOK JrPpMZ	x9 IT 'Au	-			

The other field in the Common Headers tab is the **UserData**. You will find it in your AuraQuantic employee record, click *Edit and copy* it from the top-right corner:

	ID: 116 (2w8TW2ykd2g=) Created: 22-05-2019 (04:39 PM) Jannis Surinemi Sorenser Modified: 22-07-2019 (06:09 PM) Juan Bello Last Action 24-07-2019 (01:25 PM)	
AUTHENTICATION		
🗸 User		
Login juan.bello	× Q	
License		
Named	O Concurrent	
Identification		
TC Natifica In		

Back to Blue Prism, go to Actions > Start IM > Request:

Web API		?	-	×
Configure a Web API definition for	use by Blue Prism			
Y X	Configure the request for this API definition by selecting a method and adding a URL path and request bo	dy.		
AuraQuantic Common Headers Common Parameters Common Code Actions Start IM Parameters Request Request Request Response	Method POST URL Path /M_REST_ENDPOINT Body Content Template { "PanelFields":[{ }] }			>

The URL needs to be changed to the one assigned to your **AuraQuantic process**. To do so, go to your process configuration from *Structure > Processes*: Click on your *Process Start Event Message* or your *Intermediate Event Message*, and click on the *Web Service* section (1) and copy the URL REST (2):

Name Description from Diagram Fill the initial parameter of personal data . Class of Message Event: 1.1A.1	Blue	e Prism
Description for Documentation	・ 品 Web Services	×
ATED BY	EXIT SAVE DELETE TEST	
Blue Prism Demo Image: Languages Default Data Image: Languages	Web Service Name Description BluePrism	
Web Services BluePrism Q Online Commerce	URL SOAP	e
Access URL http://neon.com/BPM_Mensaies_Crear.aspx?id=4046&pag=107&idPort	URL REST	ePrism 🕞

Modify the **Body** of the Web Service if you want to add or map any values. Click OK on the Blue Prism configuration window and your process is ready to work. Once executed, it will start a new AuraQuantic process or continue to a running process.

4.2. From AuraQuantic to Blue Prism

To execute a Blue Prism process from AuraQuantic, first we need to expose the process to trigger it using a **SOAP Web Service**. To do so, in the system tab go to *Processes > Exposure*, click on *Expose a Process* and select the demo process.





By default, through the URL: http://"YourBlue PrismServerName":8181/ws/ where "YourBlue PrismServer-Name" is the name of the machine or server where you installed Blue Prism, and 8181 the default port, we can download the XML file for the WSDL SOAP Web Service.

C () 22923theta:8181/ws/	👻 🖒 🦉 s22923theta 🏉 Blue Pris	m Web Services ×
Web service - Processes		
Demo Integration Demo: Through this process, you can call any IM/EM inside http://S22923THETA.8181/ws/Demo?wsdl	I start or continue the the flow in any process.	

Once we have the XML file, let's move to the AuraQuantic side to **configure the Web Service** that starts the Blue Prism process. AuraQuantic initiates a **SOAP Web Services** through a System Task called *Invoker*, configured as follows:

T SAVE AND EXIT SAVE	SHIELDED RESTORE	DELETE DATA	
Name (Connector) Blue Prism EXE	CUTOR	ription from Diagram	
	Desc	ription for Documentati	on 69
CUTION			
Function INVOKER - (Invokes Exter	nal Web Services)		
Function INVOKER - (Invokes Exter OBTAIN WSDL	nal Web Services)		
Function INVOKER - (Invokes Extern OBTAIN WSDL URL http://	nal Web Services)		
Function INVOKER - (Invokes Exter OBTAIN WSDL URL http:// Authentication O General O Persona	nal Web Services) /ws/TestProcessACA	TML Characters Yes	
Function INVOKER - (Invokes Exter OBTAIN WSDL URL http:// Authentication O General O Persona User	Inal Web Services) /ws/TestProcessACA	TML Characters Yes	
Function INVOKER - (Invokes Extern OBTAIN WSDL URL http://	III 2 Password	TML Characters Yes	
Function INVOKER - (Invokes Extern OBTAIN WSDL URL http:// compared and and and and and and and and and an	/ws/TestProcessACA	TML Characters Yes	
Function INVOKER - (Invokes Exter OBTAIN WSDL URL http://	/ws/TestProcessACA	ML Characters Yes	

The first arrow in the above image indicates the URL of the exposed Blue Prism process and the second arrow points to the user and password with permission to start SOAP Web Services in Blue Prism, like the admin user.

The last step to configure the System task is to attach the previously downloaded WSDL, from the *OBTAIN WSDL* button. The method will be selected by default, since we have just one for this Web Service. With these steps completed, once the flow arrives to this System Task it will trigger the Blue Prism Process.



5. Testing

This section explains how to **test or verify** that both your Blue Prism and your AuraQuantic processes started successfully.



5.1. From Blue Prism to AuraQuantic

First, we will start the Blue Prism process that launches the AuraQuantic process, from the Blue Prism Process Studio, click on the Action that launches the **REST Web Service** and select *Start IM*:

Action Prop	erties	?	—		×
Name: Description:	::Start IM				
Business Object Action Inputs Outputs	AuraQuantic	Group: Page	Da Da	ata Type	
Name	Data Type Value		Page inaries ollection: ates ateTimes lags nages lumbers asswords ext imes imeSpans	5	

Next, click on the *Play* button to execute the process and wait until it finishes:





In the AuraQuantic menu, go to **Reports**, or go to **https://yourhostURL/MonitoringQueryExecution**. **aspx**, search by the name of the process and click on the most recent version to check details of the AuraQuantic process started from Blue Prism, like the current status of the process and the user id used for the **REST Web Service**:

ENTRANCE / STRUCTURE / EXIT STOP PROCESS RES	Processes / Dashboard - Execution Control UME PROCESS FLOW HEADS	ontrol		
Reference JBM-3282.1_47	Class of Processes JBM-BluePrismDemo	Status: Running	0	
XECUTION PANEL	COMMENT LOGS	DOCUMENTS CHR	ONOMETRICS	
irom To × ⊞	× 🟥 Proceed	Presentation Chronological (is faster) According to Diagram Flow Heads Only 		Blue Prism Connector
gn Path			۵ م	Fill the initial parameter of personal data number
 PI PI ■ 1.IM.1 Fill the initial 25-07-2019 (08:45 AM) ■ 1.TS.1 (Connector) 25-07-2019 (08:45 AM) 	parameter of personal data number \ E Blue Prism EXECUTOR \ INVOKER ?	- Juan Bello		Constant Constant Bue Prim EXECUTOR Execution

5.1. From AuraQuantic to Blue Prism

In AuraQuantic, go to *My Tasks* and select *Start process*, search by the name of the test process and click on it:

My Tasks) Nelve						
START PROCESS ACT	• 🛃 Start Process					2	*
Status Pending	EXIT PRINT						GF
Reference	Name	Class of Processes JBM-BluePrismDemc × Q	Chapter × Q	Description	Class Reference		
LIST DAY	- E 🛪 Proceed						
Date	Name		Description	Class of Processes	Class Reference	Chapter	
22-07-2019 (07:23 PM)	Blue Prism Demo	۲		JBM-BluePrismDemo	JBM-3282.1		
22-07-2019 (02:43 PM)							dation
18-07-2019 (05:58 PM)							om Customer
02-07-2019 (05:11 PM)							
02-07-2019 (05:08 PM)	Total: 1						

This will open the form designed previously for the Process Start Event. The System Task configured in point 4.2 of this guide is launched from a button inside the form called Continue to Blue Prism, which launches the **SOAP Web Service**:





Once we click on that button, the Blue Prism process will start, and we can check it from the **Control** panel inside Blue Prism:

Envir	Environment Start Selected Sessions Stop Selected Sessions Show Session Variables													
H	All	•	All	•	All 🔹	A	II ~	All	\sim	All 🗸	A	Г — S	1	All
ID	Process		Resource		User	s	Status	Start Time		End Time	L	atest Stage		Stage Started
43	Demo		S22923THETA		admin	ં	Completed	7/17/2019 5:55:09 AM		7/17/2019 5:55:11 AM				
62	Demo		S22923THETA		juan.bello	c	Completed	7/18/2019 6:32:58 AM		7/18/2019 6:32:59 AM				
12	Demo		S22923THETA		juan.bello	c	Completed	7/11/2019 10:59:33 AM		7/11/2019 10:59:34 AM				
61	Demo		S22923THETA		juan.bello	0	Completed	7/18/2019 6:32:47 AM		7/18/2019 6:32:48 AM				
48	Demo		S22923THETA		admin	c	Completed	7/17/2019 6:12:50 AM		7/17/2019 6:12:52 AM				
63	Demo		S22923THETA		juan.bello	c	Completed	7/18/2019 6:33:08 AM		7/18/2019 6:33:09 AM				
9	Demo		S22923THETA		juan.bello	c	Completed	7/11/2019 10:43:09 AM		7/11/2019 10:43:10 AM				
65	Demo		S22923THETA		juan.bello	C	Completed	7/18/2019 6:37:12 AM		7/18/2019 6:37:12 AM				
11	Demo		S22923THETA		juan.bello	c	Completed	7/11/2019 10:43:49 AM		7/11/2019 10:43:50 AM				
64	Demo		S22923THETA		juan.bello	c	Completed	7/18/2019 6:36:52 AM		7/18/2019 6:36:52 AM				
16	Demo		S22923THETA		juan.bello	c	Completed	7/12/2019 1:11:15 AM		7/12/2019 1:11:16 AM				
10	Demo		S22923THETA		juan.bello	C	Completed	7/11/2019 10:43:39 AM		7/11/2019 10:43:40 AM				
44	Demo		S22923THETA		admin	0	Completed	7/17/2019 6:00:06 AM		7/17/2019 6:00:08 AM				
15	Demo		S22923THETA		juan.bello	C	Completed	7/12/2019 1:11:04 AM		7/12/2019 1:11:05 AM				
59	TestProcessACA		S22923THETA		admin	C	Completed	7/18/2019 2:52:58 AM		7/18/2019 2:53:08 AM				
50	TestProcessACA		S22923THETA		admin	Т	ferminated	7/17/2019 6:14:36 AM		7/17/2019 6:14:52 AM				
55	TestProcessACA		S22923THETA		admin	C	Completed	7/17/2019 8:37:52 AM		7/17/2019 8:38:04 AM				
26	TestProcessACA		S22923THETA		admin	Т	[erminated	7/15/2019 2:36:51 AM		7/15/2019 2:36:51 AM				
25	TestProcessACA		S22923THETA		admin	C	Completed	7/15/2019 2:24:03 AM		7/15/2019 2:24:03 AM				
46	TestProcessACA		S22923THETA		admin	Т	ferminated	7/17/2019 6:05:40 AM		7/17/2019 6:05:56 AM				
56	TestProcessACA		S22923THETA		admin	C	Completed	7/17/2019 11:38:02 PM		7/17/2019 11:38:16 PM				
45	TestProcessACA		S22923THETA		admin	Т	Ferminated	7/17/2019 6:04:55 AM		7/17/2019 6:05:12 AM				
57	TestProcessACA		S22923THETA		admin	c	Completed	7/18/2019 12:31:02 AM		7/18/2019 12:31:12 AM				
60	TestProcess&C&		S22923THFTA		admin		Completed	7/18/2019 3:00:22 AM		7/18/2019 3:00:31 AM				
rent: 7	ent: 7/24/2019 11:31 PM, User: 'admin', Connection: 'Default Connection', Connected To: 'SQL Server 2016'													



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