Step 2 Set up the MongoDb connector for devices, points and references

Now you have your MongoDb database configured successfully, in this section you will see how to connect Niagara devices/points to a MongoDb database.

Set up the connector

1. Open the MongoDb Connector palette.

• Palette	7
🖿 🗙 🖄 🖥 btibMongoDb 🔽	
MongoDbConnector	
Extensions	
Alarm	

2. Drag and drop the MongoDbConnector to Service > Btib Service > External Connectors > Realtime Connectors folder.



3. Double click on the connector fill-in the connection information then hit save.

_						
F	Property Sheet					
	MongoDbRTConnector (Mongo Db Con	inector)				
	🛛 🞯 Log Ext	System Log Ext				
	📔 Status	{ok}				
	📔 Fault Cause					
	📔 Enabled	🔵 true 🔽				
	📔 Last Attempt	21-Oct-2020 11:11 AM CEST				
	📔 Last Success	21-Oct-2020 11:11 AM CEST				
	📔 Last Failure	null				
	📔 Use Data Retention	🛑 false 🔽				
	📔 Data Retention Duration	+00072h 00m 00s				
	📔 Data Send Retry Duration	+00000h 01m 00s				
	📔 Messages Thread Pool Size	5				
	Advanced Config	Advanced Config				
	📔 Number Of Worker Threads	1				
	📔 Number Of Connections Per Host	5				
	Connection String	•••••				
Instruction (unstring) bit contraction, Image: Description of the second seco						
	📔 Database Name	test				
	Devices Collection	devices				
	Points Collection	points				
	Alarms Collection	alarms				
	External Messages Collection	commands				

Set up a Device

1. From the **btibMongoDb** palette, drag and drop the **MongoDeviceExt** to a device or anything that represents a group of points (it might be a Node, a folder etc.)

🔻 📸 AHU 01
Alarm Source Info
Points
Virtual
Alarms
Schedules
Trend Logs
Config
InfoSource
🕨 🍦 MongoDeviceExt
AHU 02
AHU 03
Ennetwork
* Palette
🖿 🗶 🔎 🛓 btibMongoDb
Connectors
 D Extensions
MongoDeviceExt
MongoPointExt

2. If you have only one connector the extension will pick it up automatically.

Property Sheet	
MongoDeviceExt	(Mongo Device Ext)
📄 Status	{ok}
📔 Fault Cause	
Enabled 📔	🔵 true 🔍
Connector	MongoDbConnector

3. if you have multiple connectors, select the one in the list and hit save

Property Sheet	
MongoDeviceExt	(Mongo Device Ext)
🗎 Status	{0k}
Fault Cause	
Enabled	🔵 true 🔽
Connector	🌢 MongoDbConnector 🤍
	MongoDbConnector
	MongoDbConnector1

4. Go to the database and you should see the devices collections created with the document and associated tags.



Set up a point

1. From the btibMongoDb palette, drag and drop the MongoPointExt to a point.

X Tuning Policies
→ AHU_01
Alarm Source Info
Points
💌 🔞 Setpoint
Proxy Ext
🕨 📵 InfoSource
D NumericInterval
MongoPointExt
🕨 🔞 Return fan command
Discharge Air Pressure
B Global status
B Running State
Virtual
- Palatta
* Palette
🖿 🐹 🖄 🧴 btibMongoDb
Manga DaviceEvt
▶ ★ MonSovereiencerve

2. Edit the device query to point to your device which contains the Device Extension. By default, the extension will look for the parent device but you can change it to use any other component that contains a MongoDevice extension.

Property Sheet				
MongoPointExt (Mongo Point Ext)				
Advanced Config	Advanced Config			
📔 Status	{ok}			
Fault Cause				
🗎 Enabled	🔵 true 🔍			
Device Query	<pre>slot: neql:traverse n:parentDevice-></pre>	-	•	?
📔 Trigger On Value Change Only	🔵 true 🔍			
🗃 Can Write	🔵 true 🔍			

3. Go to the database and you should see points collection created with the document and associated tags.



Setup a reference

1. Go to the palette and drag&drop.



2. Modify the query to point on a device.

Property Sheet	
Ticket1 (Fiix Reference)	
ld 🗍	S1kjauSHBYGy7656S876AByS66
🗎 Link	https://example.com/t/S1kjauSHBYGy7656S8
🗎 name	ticketlll
 MongoReferenceExt 	Mongo Reference Ext
🗎 Status	{ok}
Fault Cause	
Enabled	🕒 true 🔍
Device Query	station: slot:/Drivers/BacnetNetwork/AHU_01 🚔 🔹 🕨 🕐

3. Change a property on the reference.

Pr	op	erty Sheet								
	Tic	ket1 (Fiix Refe	rence)							
	🗎 Id		SlkjauSH	IBYGy7656S	876AByS66					
	Ţ	Link		https://	example.co	om/t/Slkj	auSHBYGy765	658'		
	Q,	name		ticketl						
-	٠	MongoRefere	nceExt	Mongo Re	eference Ext	:				
		🗎 Status		{ok}						
		Fault Caus	se							
		Enabled		true						
		Device Qu	ery	station: s]	lot:/Drive	rs/Bacnet	Network/AHU	_01	-	►

4. You should see the new value populated in the database.

• <	test.points Documents	×		
test.	points.			
De	ocuments	Aggregations	Schema	Ex
6 Fillt	ER {"name":"ti	icket1"}		
± A	DD DATA -	± VIEW ⊨ O		
	_id: "Slkjau id: "SlkjauS link: "https name: "ticke pointId: "Sl	SHBYGy76565876AByS66" HBYGy76565876AByS66" ://example.com/t/Slkjaus tl" kjauSHBYGy76565876AByS66	;#BYGy76565876AByS66" ;#	

Next Step

Step 3 Send messages to MongoDB from Niagara