User Guide



CENTRALINE NX PANELBUS DRIVER 4.4.xx

USER GUIDE

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SYSTEM REQUIREMENTS

Niagara	Niagara 4.4.xx and higher.
Products and OS Numbers	The C-Bus Driver will be working with CentraLine Products only. For detailed information on the applicable controllers and BNA (CLIF) versions including their OS Numbers and licenses, please download the corresponding, product data, software release bulletin and/or the compatibility matrix at:
	Product Data http://products.centraline.com/en/
	Software Release Bulletin https://www.centraline.com/partnerweb/index.php?id=847&route=article%2Findex&d irectory_id=47&direct_link=1
	Compatibility Matrix https://clfaq.ge51.honeywell.de/?action=artikel&cat=70&id=1616&artlang=en
Licenses and Point Handling	When having a license allowing only a limited number of points and you are deleting points, the free number points are not available instantly. To make the free number of points available again, please restart the station.
	When having a license allowing only a limited number of points and you are deleting points, the free number points are not available instantly. To make the free number of points available again, please restart the station.
	INSTALLATION

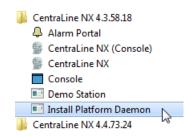
The Panelbus driver will be installed with the NX setup by default.

Alternate Usage of Different ARENA NX / COACH NX Versions on Same PC

If you have different ARENA NX / COACH NX versions installed on your PC and you want to use them alternately, each time before you start the ARENA NX / COACH NX software, you must install its dedicated platform daemon. This is necessary in order to make sure that all necessary services are properly running when using the software.

NOTE: For ARENA NX / COACH NX 4.4.xx which will be installed via setup, the dedicated platform daemon is automatically installed and the corresponding services are running, as long as you do not start another ARENA NX / COACH NX version.

Example: You worked with ARENA NX / COACH NX 4.4.76 and you want to use the previous COACH NX 4.3.58 version. Prior to software start, click the **Install Platform Daemon** entry in the *CentraLine COACH NX* 4.3.58 program group.



CREATE PANELBUS NETWORK

The following procedure describes the Panelbus network startup on a commissioned EAGLEHAWK controller. The Panelbus can also be configured in offline mode but in this case, the Panelbus network will stay in 'fault' state. As a result, no Panelbus modules can be discovered and only the EAGLEHAWK controller communicates with the Panelbus modules.

It's recommended to create a new station using COACH NX in offline mode. The Panelbus network should then be added to the 'offline' station which is running on the PC.

Then the station should be copied to the EAGLEHAWK controller using the Commissioning Wizard. When following this procedure the necessary Panelbus files are copied automatically to the EAGLEHAWK controller.

Procedure

1. In the Nav tree, expand the Station folder, and then click on Drivers.

192.168.200.20 (EagleHawk_N4_4) : Station (EagleHawk_N4_4) : Config :	Drivers					
- Nav		Driver Manager				
🕒 🖸 🐹 🕼 My Network	•	Name	Туре	Status	Enabled	Fault Cause
My Host: GE51DTF857G32.global.ds.honeywell.com (EagleHawk_NX)		🕜 NiagaraNetwork	Niagara Network	{ok}	true	
 						
▶ ar Platform						
🗢 🌌 Station (EagleHawk_N4_4)						
Alarm						
Config						
Gervices Orivers	_					
Orivers NiagaraNetwork						
Apps						
► ● Files						
Hierarchy						
History						
	-					
✓ Palette						
🗃 🗵 🖻 galileoSignalR	•					
▶ 🐬 SignalService	*				-	
2 On the righ		Rala Marris			🕞 New	🖉 🧭 Edit 🛛 🖏 Taglt

On the right pane, click New.

RESULT: The New dialog box displays.

New		x
Type to Add	🕙 Aa Php Star Network	-
Number to Add	1 [1-100]	
	OK Cancel	

3. In Type to Add, select 'Panelbus Network'.

💱 New	x
Type to Add 🕑 Panelbus Network	-
Number to Add 1 [1 - 100]	
OK Cancel	

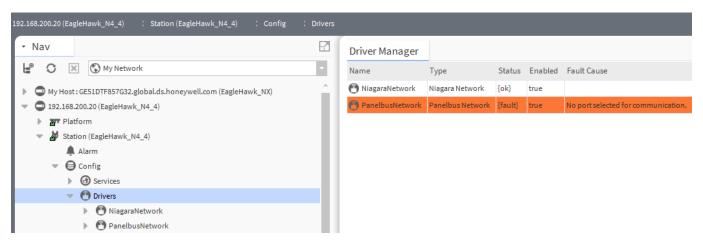
4. Click OK.

RESULT: The New dialog box is displayed.

New				X
Name		Туре	Enabled	₽
🔭 PanelbusN	letwork	Panelbus Network	true	
Name	Panelb	usNetwork		
📄 Туре	Panelb	us Network	•	
Enabled 👔	🔵 true	•		
	0	K Cancel		

5. In Name, change the name of the network if desired, and then click OK.

RESULT: The Panelbus network is created and added to the Driver Manager.



6. Display the property sheet for the Panelbus network by right-clicking **Panelbus Network** in the *Nav* tree, selecting **Views**, and then selecting **Property Sheet** in the context menu.

G Services	Views 🕨	<u>P</u> anelbus Device Manager
Drivers	Actions •	P <u>a</u> nelbus Analyzer View
NiagaraNetwo	New 🕨	AX Property Sheet
🔻 🕙 PanelbusNetw		Enhanced Wire Sheet
Apps	Edit Tags	<u>W</u> ire Sheet
Files	Make Template	Property Sheet
Hierarchy	Cut	<u>C</u> ategory Sheet
History	Сору	A <u>X</u> Slot Sheet
	Paste	<u>R</u> elation Sheet

RESULT: The Panelbus network properties are displayed on the right pane.

E	-7	Pi	op	erty Sheet			
My Network		0	Pa	nelbusNetwork	(Pane	lbus Ne	etwork)
<i>V</i> · · · · · · · · · · · · · · · · · · ·			Q	Status			{fault}
LDTF857G32.global.ds.honeywell.com (EagleHawk_NX)			Q	Enabled			🔵 true 🔍
0 (EagleHawk_N4_4)			Q	Fault Cause			No port selected for communication.
		-	Ę	Health			Ok [19-Feb-18 2:24 PM CET]
EagleHawk_N4_4)				Down		🔵 fal	se
n				Alarm		🔴 fal	se
fig				Last Ok Tir		-	b-2018 02:24 PM CET
Services				Last Ok Ti		null	
Drivers				Last Fail Ca			
🕑 NiagaraNetwork				Alarm Source			Alarm Source Info
🕐 PanelbusNetwork		-	ř	Monitor	inio		
Apps		-		Tuning Policie			Panelbus Ping Monitor Tuning Policy Map
		-	ŵ	 Poll Schedule 			Basic Poll Scheduler
archy		-		Retry Count	1		1
זרy				Response Tim	cout		+00000h 00m 02.000s
				Discovery Tim			+00000h 00m 00.250s
			1	Panelbus Port		T	Panelbus Helper
			т	Status	Conne	_	{down}
				Panelbus F	Port		No Port
				_			00000h 00m 00.010s 🚽 [0ms-1sec]
E	-7			Inter Mess	_	lay 🗠	
E bit as to	11		Ą	Polling As Pin	-		true
galileoSignalR			Ð	Max Fails Until	Device	e Down	2 [2-5]
		₽	J	Unsolicited Re	ceive H	Handler	Panelbus Unsolicited Receive
							C Refresh Save

7. Under Panelbus Port Config, select the port (RS485_1 or RS485_2) from the Panelbus Port drop-down listbox.

🔻 🌵 Panelbus Port Config	Panelbus	Helper
Status	{down}	
隌 Panelbus Port	No Port 🚽 🗸	
📔 Inter Message Delay	No Port	0.010s 🚆 [0ms-1sec]
📔 Polling As Ping	RS485_1 📐	-
) Max Fails Until Device Dow		[2-5]
Unsolicited Receive Handle	RS485_3 RS485_4	Unsolicited Receive
	RS485_5	C Refresh
	RS485_6	Save - Save

- NOTE: This handling is different to all other RS485-based drivers within COACH NX. In this case, the Panelbus Ports match the labeling on the EAGLEHAWK.
- 8. Click Save button.
 - RESULT: The Panelbus network properties are updated. The **Status** fields show ´ok` indicating that the network is properly working.

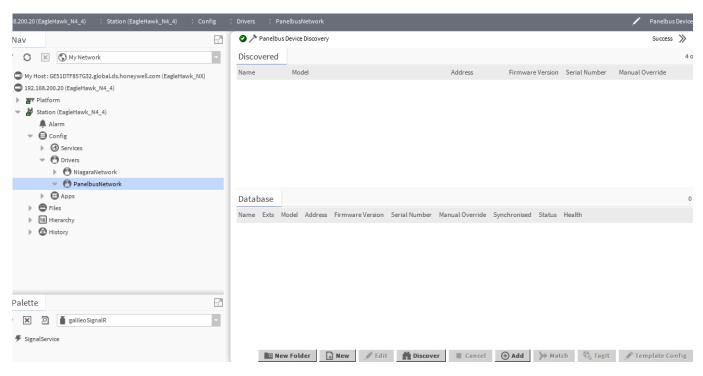
Prop	perty Sheet		
🕑 Pa	nelbusNetwork (Pane	lbus Netv	work)
	Status		{ok}
	Enabled		🔵 true 🔍
Ę	Fault Cause		
	Health		Ok [19-Feb-18 2:24 PM CET]
	🗎 Down	🔵 false	
	🗎 Alarm	🔴 false	
	📔 Last Ok Time	19-Feb-	-2018 02:24 PM CET
	📔 Last Fail Time	null	
	📔 Last Fail Cause		
-> C	Alarm Source Info		Alarm Source Info
▶⊑	Monitor		Panelbus Ping Monitor
⊳ X	Tuning Policies		Tuning Policy Map
	 Poll Scheduler 		Basic Poll Scheduler
	Retry Count		1
	Response Timeout		+00000h 00m 02.000s
	Discovery Timeout		+00000h 00m 00.250s
- 4	Panelbus Port Config		Panelbus Helper
	🗎 Status	{o]	k}
	📔 Panelbus Port	RS4	485_1 🗸
	📔 Inter Message Del	ay 000	000h 00m 00.010s 🛋 [0ms-1sec]
Ę	Polling As Ping		🔵 true 🔍
	Max Fails Until Device	Down	2 [2-5]
	Unsolicited Receive H	andler	Panelbus Unsolicited Receive
			C Refresh Save

DISCOVER PANELBUS MODULES AND ADD THEM TO STATION

Purpose To discover the panelbus modules that resides on the panelbus network.

Procedure 1. In the *Nav t*ree on the left, expand the *Station* and *Drivers* folders.

CENTRALINE NX - PANELBUS DRIVER



2. Double-click **PanelbusNetwork**, and then click the **Discover** button on the right.

						\gg
iscovered						4 obj
ame	Model	Address	Firmware Version	Serial Number	Manual Override	
CLIOP821_4	CLIOP821 (Analog Input Module)	04 (addr.Switch = 3)	1.1.8	27/2015-11-1793	Notavailable	
CLIOPR822_1	CLIOPR822 (Analog Output Module with Manual Override)	01 (addr.Switch = 0)	1.1.6	27/2015-22-16898	Available	
CLIOP823_2	CLIOP823 (Digital Input Module)	02 (addr.Switch = 1)	1.1.5	25/2015-23-18185	Notavailable	
CLIOP824_3	CLIOP824 (Relay Output Module)	03 (addr.Switch = 2)	1.1.5	25/2015-14-11782	Notavailable	
atabase						0 ob
	odel Address Firmware Version Serial Number Ma	nual Override Sync	chronised Status	Health		0 ob
	odel Address Firmware Version Serial Number Ma	nnual Override Syno	chronised Status	Health		0 ob
	odel Address Firmware Version Serial Number Ma	inual Override Syno	chronised Status	Health		0 ob
	odel Address Firmware Version Serial Number Ma	unual Override Syno	chronised Status	Health		0 ob
	odel Address Firmware Version Serial Number Ma	nual Override Syno	chronised Status	Health		0 ob
	odel Address Firmware Version Serial Number Ma	inual Override Syno	chronised Status	Health		0 ob
	odel Address Firmware Version Serial Number Ma	nual Override Syno	chronised Status	Health		0 ob
	odel Address Firmware Version Serial Number Ma	inual Override Syno	chronised Status	Health		0 ob

RESULT: All available panelbus modules will be listed in the upper *Discovered* pane.

						\gg \times
Discovered						4 objects
Name	Model	Address	Firmware Version	Serial Number	Manual Override	Ę
CLIOP821_4	CLIOP821 (Analog Input Module)	04 (addr.Switch = 3)	1.1.8	27/2015-11-1793	Notavailable	
CLIOPR822_1	CLIOPR822 (Analog Output Module with Manual Override)	01 (addr.Switch = 0)	1.1.6	27/2015-22-16898	Available	
CLIOP823_2	CLIOP823 (Digital Input Module)	02 (addr.Switch = 1)	1.1.5	25/2015-23-18185	Notavailable	
CLIOP824_3	CLIOP824 (Relay Output Module)	03 (addr.Switch = 2)	1.1.5	25/2015-14-11782	Notavailable	
Database						0 objects
	odel Address Firmware Version Serial Number Ma	nual Override Syn	chronised Status	Health		Ę

New Folder	New	Nedit 🖉	💏 Discover	Cancel	🕀 Add	>> Match	🖏 Tagit	Note: Template Config	
------------	-----	---------	------------	--------	-------	----------	---------	-----------------------	--

- **3.** Select the panelbus modules you want to add to the station. Multi-selection using the SHIFT of STRG key is possible.
- 4. Click Add button on the bottom of the pane.
 - RESULT: The *Add* dialog box displays listing the selected panelbus modules. Do not modify any settings of the modules, these will be reset based on a pre-defined mechanism while adding to the database.

Add								
Name		Model	Address	Enabled				
CLIOP821_	CLIOP821_4 CLIOP821 (Analog Input Module) 04 (addr.Switch = 3) true							
CLIOPR822_1 CLIOPR822 (Analog Output Module with Manual Override) 01 (addr.Switch = 0) true								
CLIOP823	2	CLIOP823 (Digital Input Module)	02 (addr.Switch = 1)	true				
CLIOP824_	3	CLIOP824 (Relay Output Module)	03 (addr.Switch = 2)	true				
Name	CL	IOP821_4						
📄 Model	CLI	IOP821 (Analog Input Module)	•					
🗎 Address	04	(addr.Switch = 3)						
📄 Enabled		true 👻						
		OK Cancel						

5. Click OK.

```
RESULT:
```

: The selected panelbus modules are added to the station. They are displayed twice, in the lower *Database* pane and in the *Drivers* Folder in the *Nav* tree.

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Discovered										4 obje
Name	Mode	el	Address	Firmv	vare Version	Serial	Number	Manu	ual Override	
CLIOP821_4	CLIO	P821 (Analog Input Module)	04 (addr.Switch = 3)	1.1.8		27/201	5-11-1793	Nota	vailable	
CLIOPR822_1	CLIO	PR822 (Analog Output Module with Manual Override)	01 (addr.Switch = 0)	1.1.6		27/201	5-22-16898	Availa	able	
CLIOP823_2	CLIO	P823 (Digital Input Module)	02 (addr.Switch = 1)	1.1.5		25/201	5-23-18185	Nota	vailable	
CLIOP824_3	CLIO	P824 (Relay Output Module)	03 (addr.Switch = 2)	1.1.5		25/201	5-14-11782	Nota	vailable	
atabase										4 ob
ame	Exts	Model	Address		Firmware Ve	rsion	Serial Numb	ber	Manual Override	Syr
CLIOP821_4	θ	CLIOP821 (Analog Input Module)	04 (addr.Swite	ch = 3)	1.1.8		27/2015-11-1	1793	Notavailable	
CLIOPR822_1	Θ	CLIOPR822 (Analog Output Module with Manual Ove	rride) 01 (addr.Swite	ch = 0)	1.1.6		27/2015-22-1	6898	Available	
	θ	CLIOP823 (Digital Input Module)	02 (addr.Swite	ch = 1)	1.1.5		25/2015-23-1	18185	Not available	
CLIOP823_2	•									

View / Modify Panelbus Module Properties

The properties of the panelbus modules vary dependent on the module type. The following module types are available in ARENA NX / COACH NX:

- CLIOP821_1
 - CLIOP822_2
 - CLIOP823_4
 - CLIOP824_3CLIOP825_4
 - CLIOP825_4
 CLIOP830/31_4
 - For detailed descriptions of the module properties, please refer to the panelbus modules product data, form no. EN0B0701-GE51.

View/Modify Module Properties

The following procedure gives a short and general introduction on how to view and modify the properties of a module. The following properties can be edited:

- Name
- Technical address
- Status

Procedure

1. To view/edit the properties, double-click the *PanelbusNetwork* folder of the *Nav* tree.

RESULT: On the right pane, the panelbus modules are displayed.

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Name	Exts	Model	Address	Firmware Version	Serial Number	Manual Override	Synch R
CLIOP821_4	θ	CLIOP821 (Analog Input Module)	04 (addr.Switch = 3)	1.1.8	27/2015-11-1793	Notavailable	
CLIOPR822_1	Ð	CLIOPR822 (Analog Output Module with Manual Override)	01 (addr.Switch = 0)	1.1.6	27/2015-22-16898	Available	
CLIOP823_2	Ð	CLIOP823 (Digital Input Module)	02 (addr.Switch = 1)	1.1.5	25/2015-23-18185	Notavailable	
CLIOP824_3	Ð	CLIOP824 (Relay Output Module)	03 (addr.Switch = 2)	1.1.5	25/2015-14-11782	Notavailable	

2. Select the module you want to change, and then click the **Edit** button on the bottom.

Name	Exts	Model
CLIOP821_4	Ð	CLIOP821 (Analog Input Module)
CLIOPR822_1	θ	CLIOPR822 (Analog Output Module with Manual Ov
CLIOP823_2	Θ	CLIOP823 (Digital Input Module)
CLIOP824_3	Ð	CLIOP824 (Relay Output Module)
	•	

RESULT: The *Edit* dialog box is displayed.

👺 Edit			<u></u>	×
Name	Model	Address	Enabled R	₽
CLIOP821_4	4 CLIOP821 (Analog Input Module)	04 (addr.Switch = 3)	true	
Model	CLIOP821_4 Cannot edit 04 (addr.Switch = 3) true			
	OK Can	cel		

3. Change the properties (Name, Address, and Enabled) as desired.

Name Model Address Enabled CLIOP821_4 CLIOP821 (Analog Input Module) 06 (addr.Switch = 5) true Name CLIOP821_4 Model Cannot edit Address 06 (addr.Switch = 5) Enabled true	LIOP821 (Analog Input Module) 06 (addr.Switch = 5) true OP821_4 not edit addr.Switch = 5)					
Name CLIOP821_4 Model Cannot edit Address 06 (addr.Switch = 5) Enabled true	OP821_4 not edit addr.Switch = 5)	Name	Model	Address	Enabled	₽
Model Cannot edit Address 06 (addr.Switch = 5) Enabled true	addr.Switch = 5) V true V	CLIOP821	4 CLIOP821 (Analog Input Module)	06 (addr.Switch = 5)	true	
Address 06 (addr.Switch = 5)	addr.Switch = 5) V true V		-			
OK Cancel	OK Cancel	Enabled	🔵 true 🔽			
OK Cancel	OK Cancel					
			OK Can	icel		
Click OK .						

Database			
Name	Exts	Model	Address
CLIOP821_4	θ	CLIOP821 (Analog Input Module)	06 (addr.Switch = 5)

VIEW / MODIFY POINT PROPERTIES OF MODULE

Purpose

Procedure

To discover points and modify point properties.

1. In the Nav tree on the left, expand the PanelbusNetwork folder.

• Nav	Data	base						
ピ 🖸 🔣 🕼 My Network	 Name 	Control Point type	HW I/O type	Point Info	Description	Config	Out	Tuning Policy Name
 Wy Host: GE51DTF857G32.global.ds.honeywell.com (EagleHawk_NX) 192.168.200.20 (EagleHawk_N4_4) Telatform Station (EagleHawk_N4_4) Alarm Config Config Services Orivers NiagaraNetwork O PanelbusNetwork CLUP821_4 								
 Alarm Source Info Points CLIOPR822_1 CLIOP823_2 CLIOP824_3 Files <l< td=""><td>*</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></l<>	*							
				• New	Folder	/ Edit		Discover 💮 Add 🔍 TagIt

2. Double-click the *Points* folder, and then click the **Discover** button.

RESULT: All points will be listed in the upper Discovered pane.

CENTRALINE NX - PANELBUS DRIVER

📀 🥕 Panelbus	'oint Discovery	Success 📎 🕱
Discovered		8 objects
Іо Туре	Address	9
🔜 Analog Input	1 (1/11 GND)	
🔜 Analog Input	2 (2/12 GND)	
📰 Analog Input	3 (3/13 GND)	
📰 Analog Input	4 (4/14 GND)	
📰 Analog Input	5 (5/15 GND)	
Analog Input	6 (6/16 GND)	
Analog Input	7 (7/17 GND)	
🔜 Analog Input	8 (8/18 GND)	-
Database		0 objec
Name Control I	Point type HW I/O type Point Info Description Config Out Tuning Policy Name	

3. Select the points you want to add to the station. Multi-selection using the SHIFT and STRG keys is possible.

:	Drivers : Par	nelbusNetwor	k : CLIO	P821_4	: Points				
2	📀 🥕 Panelbus	Point Discove	iry						
	Discovered								
	Іо Туре	Address							
	🗔 Analog Input	1 (1/11 GND)						
	🔚 Analog Input	2 (2/12 GND)						
	💶 Analog Input	3 (3/13 GND)						
	💶 Analog Input	4 (4/14 GND)						
	💶 Analog Input	5 (5/15 GND)						
	🔚 Analog Input	6 (6/16 GND)						
	🔜 Analog Input	7 (7/17 GND)						
	📰 Analog Input	8 (8/18 GND)						
	Database								
	Name Control	Point type	HW I/O type	Point Info	Description	Config	Out Tuning P	olicy Name	
-									
2									
11									
11									
				O New	Folder	/ Edit	Discover	r ⊕ Ardd	🖏 Tagit

4. Click Add button on the bottom of the pane.

RESULT: The Add dialog box displays.

	Add							X
6								
	Name	Control Point type	Address	Enabled	Facets		Description	Config
	ManalogInputPoint_1	Analog Input	1 (1/11 GND)	true	units=°C,precision=1,	,min=-inf,max=+inf		Panelbus /
	NalogInputPoint_2	AnalogInput	2 (2/12 GND)	true	units=°C,precision=1,	,min=-inf,max=+inf		Panelbus/
	NalogInputPoint_3	AnalogInput	3 (3/13 GND)	true	units=°C,precision=1,	,min=-inf,max=+inf		Panelbus/
	NalogInputPoint_4	AnalogInput	4 (4/14 GND)	true	units=°C,precision=1,	,min=-inf,max=+inf		Panelbus/
	Name 📔	AnalogInputPo	int_1					
	Control Point type	Analog Input	•					
	Address	1 (1/11 GND)	•					
	📔 Enabled	🔵 true 🔽						
	Facets	units=°C,precision:	=1°C,min=-inf	°C,max=+inf	•c ≫ ⊡ •			
	Description							
		💿 Panelbus An	alog Input (Config				
		🗎 Input Ty	ре МТ	C 20k	•			
		📔 Noise Fil	ter 🦲	Disabled	•			
	Config	📔 Send On	Delta 0	.0	[0.0 - 25.5]			
		Offset	0	.0	[-5.0 - 5.0]			
		🗎 Sensor F	ail	Invalid	-			
		📔 Invalid V	alue 0	.0				
	Tuning Policy Name	Default Polic	у –					
	Poll Frequency	Normal 🗸						
	4							•
				0.17		-		
				ок	Cancel			

- 5. In this dialog, you can modify point properties before adding the points to the database. You can apply these changes to one or multiple points. White colored fields are enabled and can be modified. Beige colored fields are display only.
 - NOTE: When changing the Control Point Type property of the point, its corresponding **Config** settings displayed below are updated accordingly. The control point type property cannot be reverted after the point has been added to database.

📔 Name	AnalogInputPoint_1
Control Point type	Analog Input -
Address	1 (1/11 GND) -
Enabled	🛑 true 🗸
Facets	units=°C,precision=1 °C,min=-inf °C,max=+inf °C 📎 🕓 🔹
N	
📄 Name	AnalogInputPoint_1
Control Poin	ttype Binary Input
Address 🗋	1 (1/11 GND) -
Enabled Enabled	🔵 true 🔍
Facets	trueText=true,falseText=false 📎 🕓 👻
Description	
	Panelbus Analog Input Config
Config	Input Type Slow Digital Input
	Contact Mode 🛑 Normally open 👻
Tuning Polic	y Name Default Policy 🗸
Poll Frequen	cy Normal 🗸

All other properties can be changed after the addition using the Edit function (see the following steps)

- NOTE: Regarding the license feature, only points added to the Database are counted. When the point limit of the license is exceeded, a point will go offline (fault state) and be marked in orange.
- 6. Select the points in the table of which settings you want to change.

🐕 Add						×
Name	Control Point type	Address	Enabled	Facets	Description	Config
AnalogInputPoint_1	Analog Input	1 (1/11 GND)	true	units=°C,precision=1,min=-inf,max=+inf		Panelbus/
N AnalogInputPoint_2	Analog Input	2 (2/12 GND)	true	units=°C,precision=1,min=-inf,max=+inf		Panelbus/
AnalogInputPoint_3	Analog Input	3 (3/13 GND)	true	units=°C,precision=1,min=-inf,max=+inf		Panelbus/
N AnalogInputPoint_4	AnalogInput	4 (4/14 GND)	true	units=°C,precision=1,min=-inf,max=+inf		Panelbus/
Name	AnalogInputPo	int_1				
Control Point type	Analog Input	•				
Address	1 (1/11 GND)	•				
Enabled	🔵 true 🔍 🗸					
Facets	units=°C,precision	=1°C,min=-inf	°C,max=+inf	irc » 🕒 -		
Description						
	🙆 Panelbus Ar	alog Input (Config			
	🗎 Input Ty	/pe N1	C 20k			
	📔 Noise Fil	lter 🧲	Disabled	▼		
Config	📔 Send On	Delta 0	.0	[0.0 - 25.5]		
	🗎 Offset	0	.0	[-5.0 - 5.0]		
	🗎 Sensor F	ail 🚺	Invalid	×		
	📔 Invalid \	/alue 0	.0			
Tuning Policy Name	Default Polic	у –				
Poll Frequency	Normal 🗸					
4						Þ
			ОК	Cancel		

- 7. In Control Point Type, select the control point type.
 - RESULT: According to their control point type, the datapoints are indicated by different colors in the table (e.g. green for digital control point type, violet for analog control point type).

1	Add						X
	Name	Control Point type	Address	Enabled	Facets	Description	Config
	🕔 AnalogInputPoint_1	Analog Input	1 (1/11 GND)	true	units=°C,precision=1,min=-inf,max=+inf		Panelbus/
	N AnalogInputPoint_2	AnalogInput	2 (2/12 GND)	true	units=°C,precision=1,min=-inf,max=+inf		Panelbus/
	🚺 AnalogInputPoint_3	Analog Input	3 (3/13 GND)	true	units=°C,precision=1,min=-inf,max=+inf		Panelbus/
	🚺 AnalogInputPoint_4	Analog Input	4 (4/14 GND)	true	units=°C,precision=1,min=-inf,max=+inf		Panelbus/
	Name Control Point type Address Enabled Facets Description	AnalogInputPo Analog Input AnalogInput Binary Input units=*C,precision: Panelbus An Input Ty Noise Fil	alog Input	-	f*c ≫ ⊙ - -		
Ę	Config	Send On Gffset Sensor F	o ail	. 0 . 0 Invalid . 0	[0.0 - 25.5] [-5.0 - 5.0]		
Ę	Tuning Policy Name	Default Polic	Y -				
Ç	Poll Frequency	Normal 🗸 🗸					
							Þ
				ОК	Cancel		

8. Click OK.

RESULT: The selected datapoints are added to the station.

Name	Control Point type	Address	Enabled	Facets	Description	Config
B AnalogInputPoint_1	Binary Input	1 (1/11 GND)	true	trueText=true,falseText=false		Panelb
N AnalogInputPoint_2	Analog Input	2 (2/12 GND)	true	units=°C,precision=1,min=-inf,max=+inf		Panelb
B AnalogInputPoint_3	Binary Input	3 (3/13 GND)	true	trueText=true,falseText=false		Panelb
NalogInputPoint_4	AnalogInput	4 (4/14 GND)	true	units=°C,precision=1,min=-inf,max=+inf		Panelb
 Address Enabled Facets Description Config Tuning Policy Name Poll Frequency 	1 (1/11 GND) true trueText=true,false Panelbus Ar Input Ty Contact Default Police Normal	alog Input C rpe S1 Mode	Config ow Digita	il Input		

9. To modify point properties, select the datapoint(s) in the *Database* pane. Multiselection using the SHIFT and STRG keys is possible.

10. Click the **Edit** button.

Database			
Name	Control Point type	HW I/O type	Point Info
AnalogInputPoint_1	Binary Input	Analog Input	RS485_1/5/CLIOP821 (Analog Input Module)/1
AnalogInputPoint_2	AnalogInput	Analog Input	RS485_1/5/CLIOP821 (Analog Input Module)/2
AnalogInputPoint_3	Binary Input	Analog Input	RS485_1/5/CLIOP821 (Analog Input Module)/3
🚯 AnalogInputPoint_4	AnalogInput	Analog Input	RS485_1/5/CLIOP821 (Analog Input Module)/4

RESULT: The *Edit* dialog box displays.

Database						4 obje	ects
Name	Control Point type	HW I/O type	Point Info	Description	Config	Out	Ę
6 AnalogInputPoint_1	Binary Input	Analog Input	RS485_1/5/CLIOP821 (Analog Input Module)/1		Panelbus Analog Input Config	false {down,stale	e}
NalogInputPoint_2	Analog Input	Analog Input	RS485_1/5/CLIOP821 (Analog Input Module)/2		Panelbus Analog Input Config	0.0 °C {down,sta	le}
AnalogInputPoint_3	Binary Input	Analog Input	RS485_1/5/CLIOP821 (Analog Input Module)/3		Panelbus Analog Input Config	false {down,stale	e}
🚺 AnalogInputPoint_4	Analog Input	Analog Input	RS485_1/5/CLIOP821 (Analog Input Module)/4		Panelbus Analog Input Config	0.0 °C {down,sta	le}
4							ŀ
		🖸 New Fol	der 🖍 Edit 👬 Discover 💮 A	t 🖉 bb.	aglt		_

11. To change a datapoint property, enter the new value in the field.

Name	Control Point type	Address	Enabled	Facets	Description	Config
🚺 AnalogInputPoint_2	AnalogInput	2 (2/12 GND)	true	units=°C,precision=1,min=-inf,n	nax=+inf	Panelbu
🚺 AnalogInputPoint_4	Analog Input	4 (4/14 GND)	true	units=°C,precision=1,min=-inf,n	nax=+inf	Panelb
Name	AnalogInputPo	int_2				
Control Point type	Cannot edit					
Address	2 (2/12 GND)	•				
📄 Enabled	🔵 true 🔍					
Facets	units=°C,precision	=1°C,min=-inf	°C,max=+inf	°c ≫ ⊡ +		
Description						
	🙆 Panelbus Ar	alog Input (Config			
	📄 Input Ty	/ре мт	C 20k	•		
	📔 Noise Fi	lter N	TC 20k			
Config	📄 Send On	Delta	TC 10K			
_	Offset		Г1000-1			
	Sensor F	ail	Г 1000-2 Г 3000			
	📄 Invalid \	(. L	1 3000 1 1000 TK500	0		
Tuning Policy Nam	e Default Polic	у Ва	alco500			
Poll Frequency	Normal 🚽	JC	CI A99			
		0.	.10V (no pull	up)		
		0.	.10V (with pu	ıllup)		

or, select an option from the drop-down listbox. The field indicator is highlighted in red.

Name	Control Point type	Address	Enabled	Facets	Description	Config
🚺 AnalogInputPoint_2	Analog Input	2 (2/12 GND)	true	units=%,precision=0,min=0.00,max=100.	0	Panelbus
🚺 AnaloginputPoint_4	AnalogInput	4 (4/14 GND)	true	units=%,precision=0,min=0.00,max=100.	D	Panelbus
Name	AnalogInputPo	int_2				
Control Point type	Cannot edit					
Address	2 (2/12 GND)	•				
Enabled	🔵 true 🔍					
Facets	units=%,precision=	=0 %,min=0 %,	max=100 %	» • ·		
Description						
	🙆 Panelbus An	alog Input (Config			
	🗎 Input Ty	/pe 0.	.10V (no	pullup) 🔻		
	📔 Noise Fil	lter 🥚	Disabled	-		
Config	🗎 Send On	Delta 0	.0	[0.0 - 25.5]		
	🗎 Offset	0	.0	[-5.0 - 5.0]		
	🗎 Sensor F	ail 🚺	Invalid	×		
	🗎 Invalid \	/alue 0	.0			
Tuning Policy Name	Default Polic	у –				
	Normal 🗸					
Poll Frequency						

12. To save the settings, click OK.

For detailed descriptions of the properties, please refer to the panelbus modules product data, form no. EN0B0701-GE51.

AI and AO Point Configuration Parameter Descriptions

In the following, important individual configuration parameters of AI and AO points
are described.Al Point Configuration ParametersIndividual configuration parameters of the AI point are as follows:

Name	Control Point type	Address	Enabled	Facets		Description	Config
🔃 AnalogInputPoint_5	AnalogInput	5 (5/15 GND)	true	units=°C,precis	ion=1,min=-inf,max=+inf		Panelbus
Name	AnalogInputPo	int_5					
Control Point type	Cannot edit						
Address	5 (5/15 GND)	*					
📄 Enabled	🔵 true 🔍 🗸						
Facets	units=°C,precision:	=1°C,min=-inf	°C,max=+in	f°c » 🕒	*		
Description							
	🙆 Panelbus An	alog Input (Config				
	📔 Input Ty	ре МТ	C 20k	-			
	📔 Noise Fil	ter 🧲	Disabled	N			
Config) Send On	Delta	Disabled	· 25.5]			
	🗎 Offset		Enabled	- 5.0]			
	📔 Sensor F	ail 🛛	Invalid	•			
	🗎 Invalid V	alue 0	.0				
🗎 Tuning Policy Name	Default Polic	у –					
Poll Frequency	Normal 🗸						
							Þ
		_					
			ок	Cancel			

Noise Filter

If enabled, the analog input is less noisy, that means, the LSB bit toggling of the AD-converter is suppressed.

Disadvantage: slowly changing values are reported with a delay of a few seconds. However, significant value changes are reported immediately. The noise filter is recommended for temperature sensors and must not be used for pressure control.

AO Floating Point Configuration Parameters

Individual configuration parameters of the AO floating point are as follows:

Name	Control Point type	Address	Enabled	Facets		Descriptio	n Con
NalogOutputPoint_5	Modulating Output	5 (5/15 GND)	true	units=9	o,precision=0,min=0.00,ma	x=100.00	Pane
Name	AnalogOutputPo	int_5					
📔 Control Point type	Modulating Out	out 🔻					
Address 📔	5 (5/15 GND) -						
Enabled	🔵 true 🗸						
Facets	units=%,precision=0	%,min=0 %,m	nax=100 %	» (9 -		
Description							
	Panelbus Out	put Config					
	🗎 Output Ty	vpe F	loating				
	🗎 Safety Po:	sition F	Position Rem	ain			
	End Switc	hes 🚺	No				
	Power Up	Sync	Yes				
	Sync24h		No				
	🗎 Sync Brea	k 🚺	Yes				
Config	Close Rep	eat 🚺	No				
-	Valve Exce	ercising	No				
	📄 Open Run	time 0	0000h 01m	1 30s 🚽	[10secs - 16mins 40secs]		
	Close Run	time 0	0000h 01m	1 30s 🚽	[10secs - 16mins 40secs]		
	📔 Sync Char	ge :	100	9	6 [0 - 100]		
	🗎 Synclevel	Open 🕑	Disabled	0	96 [50 - 100]		
	🗎 Synclevel	Close	Disabled	2	96 [0 - 50]		
	🗎 Min Stop	Fime !	5.0	[0.0 - 2	5.5]		
	🗎 Min Run P	ercent	1.0	96 [0.0	- 25.5]		
Tuning Policy Name	Default Policy	-					
Poll Frequency	Normal 🗸						
							1

End Switches Should only be set to "yes" if the controlled motor has end switches (and will stop at the end positions). The open or close relays will not be switched off at the end positions.

Power Up Sync If set to "yes", the motor is synchronized after power-up towards close position (0%).

Sync 24h If set to "yes", the motor is synchronized every 24h. Time is counted from startup.

Sync Break If set to "yes", a synclevel synchronization is broken off in case the setpoint returns to a value higher than Synclevel Close or lower than Synclevel Open.

If set to "no", the synchronization is completed first before the new setpoint is considered.

Close Repeat If set to "yes" and the setpoint is 0% (which means close), then the motor will run again after a while for a short time. This is used to compensate a sagging rubber seal.

Exercising If set to "yes", the motor is moved once a week to approx. 50% and back to Close position. This is useful if a valve is not used during whole summer period.

Sync Charge A percentage level related to the Open/Close runtime which takes place at a synchronization. If e.g. the Close runtime is 100 sec and the Synch Charge is 50%, then the motor will run additional 50 sec after reaching the closed position.

Synclevel Open If not disabled, the motor will synchronized towards Open position in case the setpoint is >= the Synclevel Open. After synchronization, the motor remains at 100%.

Synclevel Close If not disabled, the motor will synchronized towards Close position in case the setpoint is <= the Synclevel Close. After synchronization, the motor remains at 0%.

Min Stop Time If the motor runs towards open or close position and a new setpoint forces a change of the running direction, then the motor will first stop for the Min Stop Time before moving in the opposite direction.

Valve

Min Run Time If the setpoint changes only small amounts, then the motor will at least run with the Min Run Time, even setpoint will be overrun by this.

Further Procedures

	Setting Datapoint into Manual Mode (Manual Override)
Purpose	Sets the datapoint into Manual operating mode and overwrites the present value with a defined value entered manually.
	This function is specific for Panelbus input points. Niagara input points cannot be overridden. This feature allows, for example, overriding an input point in case of sensor failure. The function does not write to any priority array.
Procedure	 In the <i>Database</i> pane, right-click the datapoint, click Actions and then click Override in the context menu.
	PanelbusNetwork Views alog Output 5 ▲ CLIOP821_4 ▲ Actions ▲ Actions ▲ Actions ▲ Auto ▲ Auto ▲ alog Output ▲ Bog Output ▲ Auto ▲
	RESULT: The Override dialog box displays.
	Override % [0 - 100] OK Cancel
	2. Enter the value.
	Override 30 % [0 - 100] OK Cancel
	3. Click OK.
	RESULT: On the <i>Database</i> pane, the changed value is updated in the Out column:
	OutTfalse {down,stale}do30 % {down,overridden}@8dofalse {down,overridden}@8do
	Setting Datapoint from Override Mode into Auto Mode
Purpose	Sets a datapoint that is in override (manual) mode into Automatic mode.
Procedure	1. In the Database pane, right-click the datapoint, click Actions and then click



RESULT: On the *Database* pane, the changed value is updated in the **Out** column:

Out
false {down,stale}
0% {down,stale}
e 1 - e 1

CONFIGURATION AND USE OF ENHANCED DATAPOINT CREATION MODULE

The following sections describe the configuration and use of the enhanced data point creation module. It can be used in offline and online mode.

It is recommended to do the engineering using COACH in offline mode. This means that the station is running on the PC.

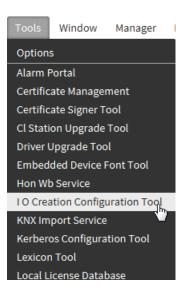
Then in online mode, the station should be copied to the EAGLEHAWK controller using the Commissioning Wizard. When following this procedure, the necessary files are copied automatically to the EAGLEHAWK controller

The enhanced data point creation module provides the following functions:

- I/O creation configuration
- Datapoint creation via context menu in the Nav tree
- Datapoint creation via Drag&Drop of datapoints from palette or Nav tree
- Copy Datapoints

I/O Creation Configuration

Procedure 1. In the menu, click *Tools* and then click *I/O Creation Configuration Tool*.





IO Creation Configuration	×
Panelbus Config (Panelbus Config)	
Analog Outputs Default Safety Position	Position Remain 🗸
Binary Inputs Default Led Behavior	Off/yellow
Binary Outputs Default Safety Position	Position Remain 🗸
OK Cancel	

2. Specify the default settings for analog outputs and binary inputs and outputs by selecting desired options from the drop-down lists, and then click **OK**.

Create Datapoint via Context Menu

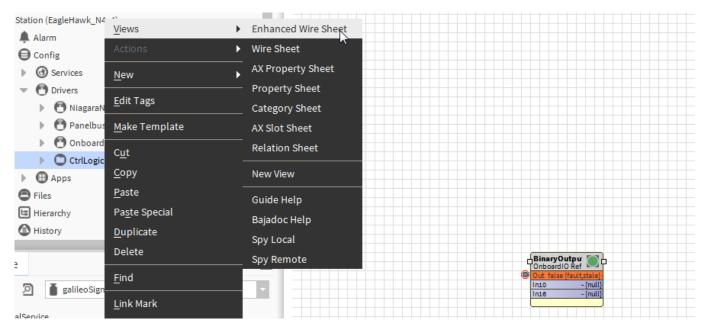
Datapoints can be created in:

- individual folders
- the points folder
- points objects

Procedure

- 1. Create an individual folder, e.g. for your control logic.
 - 2. Right-click on the individual folder, e.g. **CtrlLogic**, and then click in the **Views** menu.

Or, click on the points folder or points object.



3. Right-click in the *Enhanced Wire Sheet* view, then click the network driver (Onboard I/O, Panel Bus 1, or Panel Bus 2), and then click the datapoint type (Binary output, Analog output, Binary Input, or Universal Input for Onboard I/O driver, or Relay output, Digital Input, Analog Input or Floating Output for Panel bus driver).

	BinaryOutpu Coboardio Ref Onboardio Ref Into -{null} Into -{null}			
CtrlLogic	New	•	Folder	
BinaryOutputPoint_1	Cut	Ctrl+X	IconFolder	
Apps	Сору	Ctrl+C	TextBlock	
E Files	Paste	Ctrl+V	BooleanWritable	
Hierarchy 👻	Paste Spe	cial	NumericWritable	
2	Duplicate	Ctrl+D	EnumWritable	
2 galileoSignalR	Delete	Delete	StringWritable	
	Delete		Onboard IO	
alService	Edit		PanelbusNetwork	Relay Output
4	Tags		Panel Bus 2 🔹	• <u>A</u> nalog Output
	Rename	Ctrl+R	Panel Bus 3 🔹	Digital Input
	Arrange		Panel Bus 4 🔹	• Analog <u>I</u> nput
	Select All	Ctrl+A	Panel Bus 5 🔹	<u>F</u> loating Output
			- Panel Bus 6 🔹 🕨	



T: The *Add* dialog box of the Panelbus or Onboard I/O driver displays.

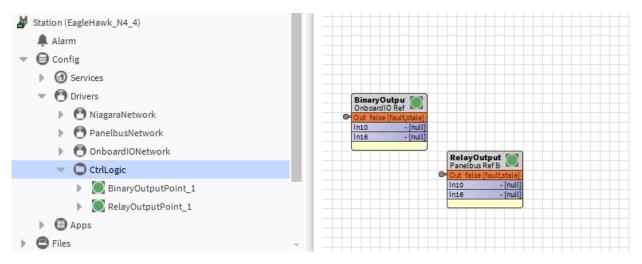
Mdd									x
Name (Control Point type	Address	Enabled	Facets	Description	Config	Tuning Policy Name	Poll Frequency	ţ.
B RelayOutputPoint_1 E	Binary Output	1 (11 NO / 12 NC / 13 GND)	true	trueText=true,falseText=false		Panelbus Output Config	defaultPolicy	Normal	
Mame Control Point type Address Enabled	true 🗸	int_1 NC / 13 GND) V							
Description						A-B			
Config Config	 Panelbus Ou Output Direct R Safety P 	Type On/Off everse Direct	•in •						
📔 Tuning Policy Name ៍ Poll Frequency	defaultPolicy Normal	×							
				OK Cancel					

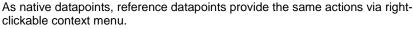
- **4.** If desired, modify the point properties before the point will be created, and then click **OK**.
 - RESULT: By default, the created datapoint will be assigned to the next bus specific device (Onboard I /O or Panel bus) with a free suitable terminal according to the datapoint type. If there is no appropriate device available, a new device will be created.
 - NOTE: If the datapoint to be created should be explicitly assigned to a CLIO 830/831 mixed I/O module, this module must be drag&dropped from the palette to the network in the *Nav* tree.

If in the *Nav* tree, a points folder or a points object was selected, the created datapoint is called a native datapoint.

If in the *Nav* tree, an object is selected other than a points folder or a points object, in addition to the creation of the native datapoint, a reference datapoint will be created. A reference datapoint is indicated by 'Ref' in the point icon.

The figure below shows two reference datapoints, one is linked to a binary output datapoint on an OnboardIO device, the other is linked to a relay output datapoint on a Panel Bus device.

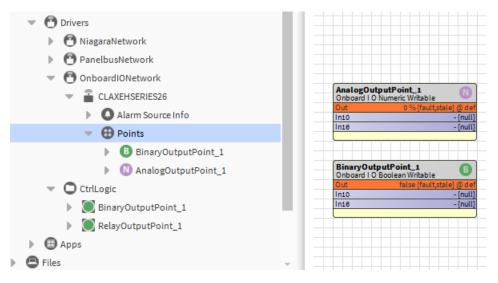




		Views	×	
BinaryOutpur OnboardIO Ref		Actions	×	Emergency Active
Out false {fault,stale} In10 - {null} In16 - {null}		Edit Tags		Emergency <u>I</u> nactive
- finding		Make Template		Emergency <u>A</u> uto
	Par			A <u>c</u> tive
	Cut In1(Cut	Ctrl+X	I <u>n</u> active
	Inte	Сору	Ctrl+C	A <u>u</u> to
		Paste	Ctrl+V	<u>S</u> et

Reference datapoints and native datapoints can be deleted. When deleting a reference point on the enhance wire sheet, you will be asked if you want to delete the native point too.

The below figure shows datapoints created when the *Points* object was selected. In this case, no reference datapoints (as shown in the figure above) have been created.



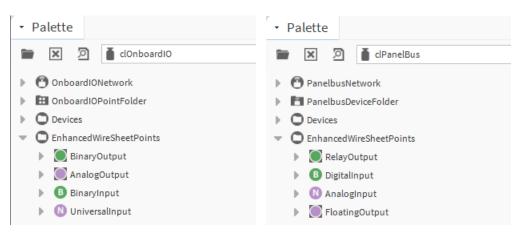
NOTE: Creating datapoints directly in controller will take much longer than creating datapoints in a station running on a PC. Best practice is to do the datapoint engineering offline (running the station on a PC) before copying station to the controller.

Drag&Drop Datapoint from Palette or Nav Tree

Datapoints can be created in:

- individual folders
- the points folder
- points objects

On the palettes of each supported driver, you will find the *EnhancedWireSheetPoints* folder including the datapoint types.



Procedure

1. Drag&Drop the desired point type onto the *Enhanced Wire Sheet*.

RESULT: The *Add* dialog box of the Onboard I/O or Panelbus Driver displays.

∰ A	dd											x
Na	ime	Control P	oint type	Address	Enabled	Facets		Description	Config	Tuning Policy Name	Poll Frequency	t₽
Ø	Analoginput	Analog In	put	1 (1/11 GND)	true	units=°C,precision=1	l,min=-inf,max=+inf		Panelbus Analog Input Config	defaultPolicy	Normal	
Q	Name Control Poin Address Enabled Facets Description	it type	🔵 true	Input v GND) v	nin=-inf °C,	max=+inf°C ≫	• ·		TB A-			
			l IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	lbus Analog nput Type Joise Filter Send On Delt Offset Gensor Fail nvalid Value Policy	NTC D D D D D D D D D D D D D	-						
	Poll Frequen	icy	Normal				OK Can	cel				

- 2. If desired, modify the datapoint properties before the datapoint will be created, and then click **OK**.
 - RESULT: By default, the created datapoint will be assigned to the next bus specific device (Onboard I /O or Panel bus) with a free suitable terminal according to the datapoint type. If there is no appropriate device available, a new device will be created.
 - NOTE: If the datapoint to be created should be explicitly assigned to a CLIO 830/831 mixed I/O module, this module must be drag&dropped from the palette to the network in the *Nav* tree.

For a Panelbus datapoint, the panel bus network can be selected if two Panelbus networks exist.

Choose Network	×
Choose Network where native point should be created	
PanelbusNetwork	
Panelbus Ketwork1	
Ok Cancel	

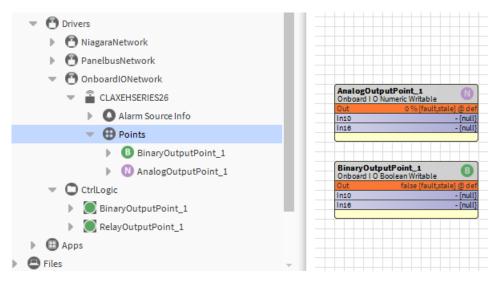
3. If desired, modify the datapoint properties before the datapoint will be created, and then click **OK**.

The figure below shows two reference datapoints, one is linked to a binary output datapoint on an OnboardIO device, the other is linked to a relay output datapoint on a Panel Bus device.

As native datapoints, reference datapoints provide the same actions via rightclickable context menu.

Reference datapoints and native datapoints can be deleted. When deleting a reference point on the enhance wire sheet, you will be asked if you want to delete the native point too.

The below figure shows datapoints created when the *Points* object was selected. In this case, no reference datapoints have been created.



Copy Datapoints

The Enhanced Wire Sheet provides all the features of the standard Wire Sheet as well.

E.g. you can copy native datapoints and reference datapoints by using Copy and Paste/Paste Special. Using Paste Special it is possible to create multiple copies. When copying a reference datapoint, the linked native datapoint will be copied too.

1. In the Enhanced Wire Sheet, select the datapoints you want to copy.

BinaryInputP OnboardIO Ref Out	Boolean Po false	C <u>u</u> t	Ctrl+X		
In	false	<u>C</u> opy	Ctrl+C	layOutputPoint_1 nelbus Ref Boolean Writable	
		<u>D</u> uplicate	Ctrl+D	t false {fault,down,sta	ale}@def
		D <u>e</u> lete	Delete	0 false {fa	ault,stale}
		<u>L</u> ink Mark			
		Relation <u>M</u> ark			
		<u>R</u> ename	Ctrl+R		
		<u>S</u> et Display Name			

- 2. Right-click in the Enhanced Wire Sheet, and then select **Copy** in the context menu.
- **3.** Right-click in the Enhanced Wire Sheet, and then select **Paste Special** in the context menu.
 - RESULT: The Paste Special dialog box displays.

Paste Special
Paste Special
Number of copies
Keep all links
Keep all relations
OK Cancel

4. In the *Paste Special* dialog box, enter the number of copies. Check if the links and/or relations should be kept. Uncheck these options if they should not be kept. Then click **OK**.

Paste Special
Paste Special
Number of copies 3
✓ Keep all links
Keep all relations
OK Cancel

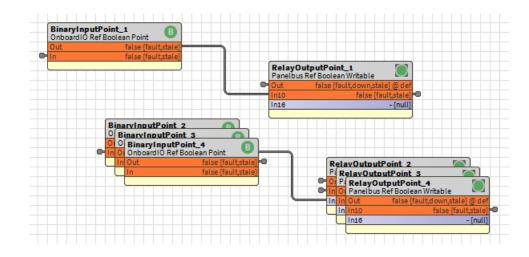
RESULT: The *Edit* dialog box displays.

B Edit											x
Name	Control Point type	HW IO type	Address	Enabled	Facets	Description	Config	Tuning Policy Name	Poll Frequency	Device Facets	₽
BinaryInputPoint_2 E	Binary Input	Binary Input	2	true	trueText=true,falseText=false		Onboard IO Point Config	defaultPolicy	Normal		
BinaryInputPoint_3 E	Binary Input	Binary Input	3	true	trueText=true,falseText=false		Onboard IO Point Config	defaultPolicy	Normal		
BinaryInputPoint_4 B	Binary Input	Binary Input	4	true	trueText=true,falseText=false		Onboard IO Point Config	defaultPolicy	Normal		
Name	BinaryInputP	oint_2									
Control Point type		_									
HW IO type	Binary Input										
Address Enabled	2 true										
Facets	trueText=true,fal	Taut-falsa	» ©	_							
_	true rext=true, fait	serext=raise	// 9				- 5				
Description	_						A-P				
5	Onboard IC										
Config 🗋	Charac		inary normally								
Tuning Policy Name			normaliy	open							
Poll Frequency	Normal	У									
Device Facets	» © •										
Device Facets	// 3										
					OK Ca	ncel					

5. Modify the datapoint properties if desired, and then click **OK**.

lame	Control Point type	Address	Enabled	Facets	Description	Config	Tuning Policy Name	Poll Frequency	
B RelayOutputPoint_2	Binary Output	2 (21 NO / 22 NC / 23 GND)	true	trueText=true,falseText=false		Panelbus Output Config	defaultPolicy	Normal	
B RelayOutputPoint_3	Binary Output	3 (31 NO / 32 NC / 33 GND)	true	trueText=true,falseText=false		Panelbus Output Config	defaultPolicy	Normal	
B RelayOutputPoint_4	Binary Output	4 (41 NO / 42 NC / 43 GND)	true	trueText=true,falseText=false		Panelbus Output Config	defaultPolicy	Normal	
Name	RelayOutputPo	pint_2							
Control Point type	Cannotedit								
	2 (21 NO / 22	NC / 23 GND)							
Address Enabled	2 (21 NO / 22	NC / 23 GND) -							
Address	🔵 true 🗸	eText=false 🚿 😗	,						
Address Enabled	🔵 true 🗸		,			A-B			
Address Enabled Facets	🔵 true 🗸	eText=false 》 🕒	,			r-B A→			
Address Enabled Facets Description	true Text=true,false	eText=false 🔊 .	,			r-B A→			
Address Enabled Facets	true true true, false	eText=false 》	Ţ			⊼ª			
Address Enabled Facets Description	true true,false	eText=false » () · utput Config Type () · / On / Off everse () Direct				–B A⊐1			
Address Enabled Facets Description	 true trueText=true,false Panelbus Or Output Direct R Safety P 	eText=false » () utput Config Type On/Off everse Oriect Position Position Rem				EB A-1			

RESULT: The selected datapoints will be copied.



ALARM HANDLING

The EAGLEHAWK Panel Bus Driver features alarm handling. Specifically, the Panel Bus Driver will automatically issue a sensor alarm when the sensor value passes certain predefined limit values (which depend upon the configuration of the given input). In the case of an input configured as an NTC sensor, for example, the Panel Bus Driver will automatically issue a sensor alarm if the sensor value drops below -50 °C or rises above +150 °C. On the other hand, the sensor value displayed in the datapoint depends upon the configuration of the parameter "Communication failure," and will be either "Last Valid Value" or "Safety Value." Such alarms belong to the Default Alarm Class, and indicate that a short circuit has taken place or that a sensor is broken.

- Nav	Alarm Source Info	AlarmClass				
ピ 🔿 🗵 🕲 My Network	Property Sheet					
My Host: GE51LT6Y51Q72.global.ds.honeywell.com (1)	Alarm Source Info (Alarm Source Info)					
 Instruction (1) Instruction (1) Instruction (1) Instruction (1) 	Alarm Class	Default Alarm Class 🗸				
 Isolation Platform Station (Panelbus) Alarm Config Services Drivers NiagaraNetwork PanelbusNetwork CloP821 1 	Source Name	<pre>\$parent.parent.displayName\$ \$parent.disp) </pre>				
	To Fault Text	0				
	To Offnormal T	<pre>\$lexicon(driver:pingFail)\$</pre> <pre>⑦</pre>				
	To Normal Text	<pre>\$lexicon(driver:pingSuccess) \$ </pre>				
	📔 Hyperlink Ord	null 🃎 🕐 -	(Default View) *			
	Sound File	null	iii · →			
Alarm Source Info	Alarm Icon	null	m • •			
Points	Alarm Instruction	structions 0Instructions				
 CLIOP821_2 CLIOPR822_1 CLIOPR822_2 	Meta Data	» · ·				

If you require off-normal alarms, you must define standard alarm extensions to the given datapoint.

PANELBUS ANALYZER VIEW

The EAGLEHAWK Panelbus Driver features a Panelbus Analyzer. Using the Panelbus Analyzer, you can observe exactly when specific datapoint telegrams are written or read.

• Nav			Panelbus	Driver Analyzer			
🔓 🔿 🐹 🕲 My Network	My Network		- Timestamp	Timestamp		Msg Tag	Hex
 My Host: GE51LT6Y51Q72.global.ds.honeywell.com (Test) 192.168.1.140 (Panelbus) Telatform Platform 			▲ 21-Feb-18	3 2:01:52.870 PM MEZ	Write Frame	a91ce2	00040002 5200a8
			▶ 21-Feb-18	3 2:01:52.874 PM MEZ	Read Frame	a91ce2	20040002 524048
			◀ 21-Feb-18	3 2:01:53.871 PM MEZ	Write Frame	53c0ef	00040002 5200a8
			▶ 21-Feb-18	3 2:01:53.875 PM MEZ	Read Frame	53c0ef	20040002 524048
 Station (Panelbus) Alarm Config Services Orivers NiagaraNetwork PanelbusNetwork CLIOP821_1 CLIOP821_2 CLIOP822_ CLIOP822_ CLIOP822_ 	Views	•	Panelbus Device Manager	1:54.539 PM MEZ	Write Frame	1518c88	00020f02 51019b
	Actions	•	Par bus Analyzer View	1:54.545 PM MEZ	Read Frame	1518c88	20020f16 51404300
	New DEdit Tags		AX Property Sheet	1:54.871 PM MEZ	Write Frame	1f24686	00040002 5100a9
		Enhance	Enhanced Wire Sheet	1:54.875 PM MEZ	Read Frame	1f24686	20040006 51402000
			 <u>W</u> ire Sheet	1:55.015 PM MEZ	Write Frame	38baa3	00040003 400015a4
			Property Sheet	1:55.021 PM MEZ	Read Frame	38baa3	20040015 40001504
			<u>C</u> ategory Sheet	1:55.873 PM MEZ	Write Frame	19c05d6	00040002 5200a8
			A <u>X</u> Slot Sheet	1:55.877 PM MEZ	Read Frame	19c05d6	20040002 524048
	Paste		 <u>R</u> elation Sheet	1:56.874 PM MEZ	Write Frame	174ec32	00040002 5200a8

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