

Belimo Digital Ecosystem Widget

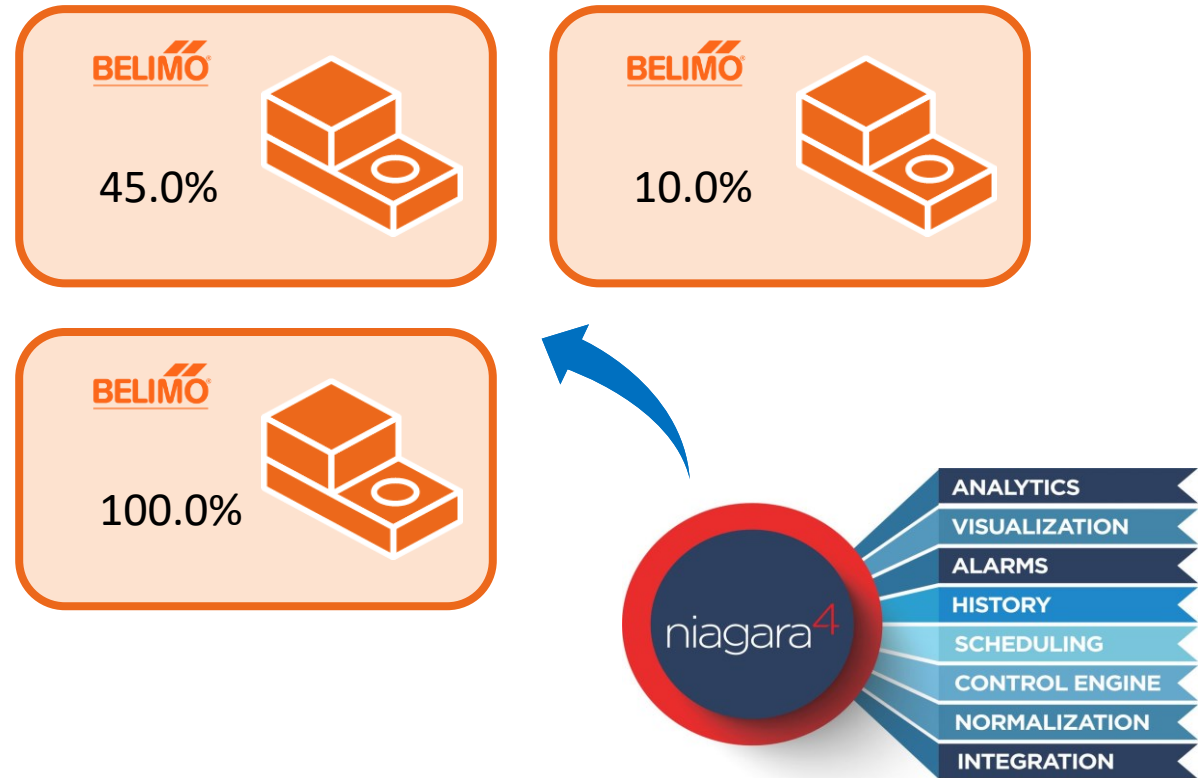
The Niagara Widget to boost the development of user interface

Contents

This is a guided demonstration about installation, activation and use of Belimo widget for Niagara framework.

The Widget

The Belimo Widget for Niagara framework allows N4 supervisor or Jace 8000 to display your Belimo Energy valve data on px pages.



Requirements

- Basic knowledge of Niagara 4 framework
- A Workbench PC installation
- A supervisor licensed installation
- A network of BACNet Belimo devices

Installation

Next steps are about installation
of the widget before its use

The jar module

The widget is distributed by INLON for free in basic version. The module and documentation can be downloaded from

[Niagara Marketplace](#)

niagara marketplace

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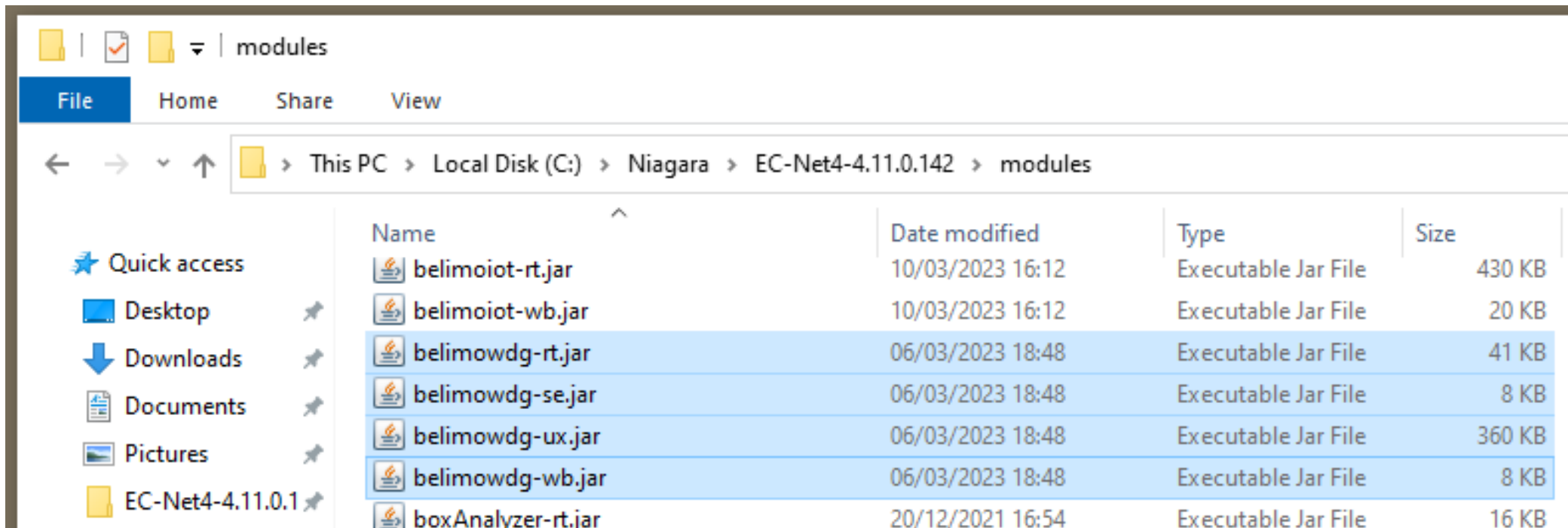
Copy into Workbench PC

When receiving updated or new module jar files, you have to copy them to your Workbench PC, as follows.

- Close the Workbench application.
- Copy directly into your `!/modules` directory. This makes the module(s) available in your Workbench environment, and also available to install in other remote platforms (when the installer runs, the module(s) are also copied into your software database, available for installation).

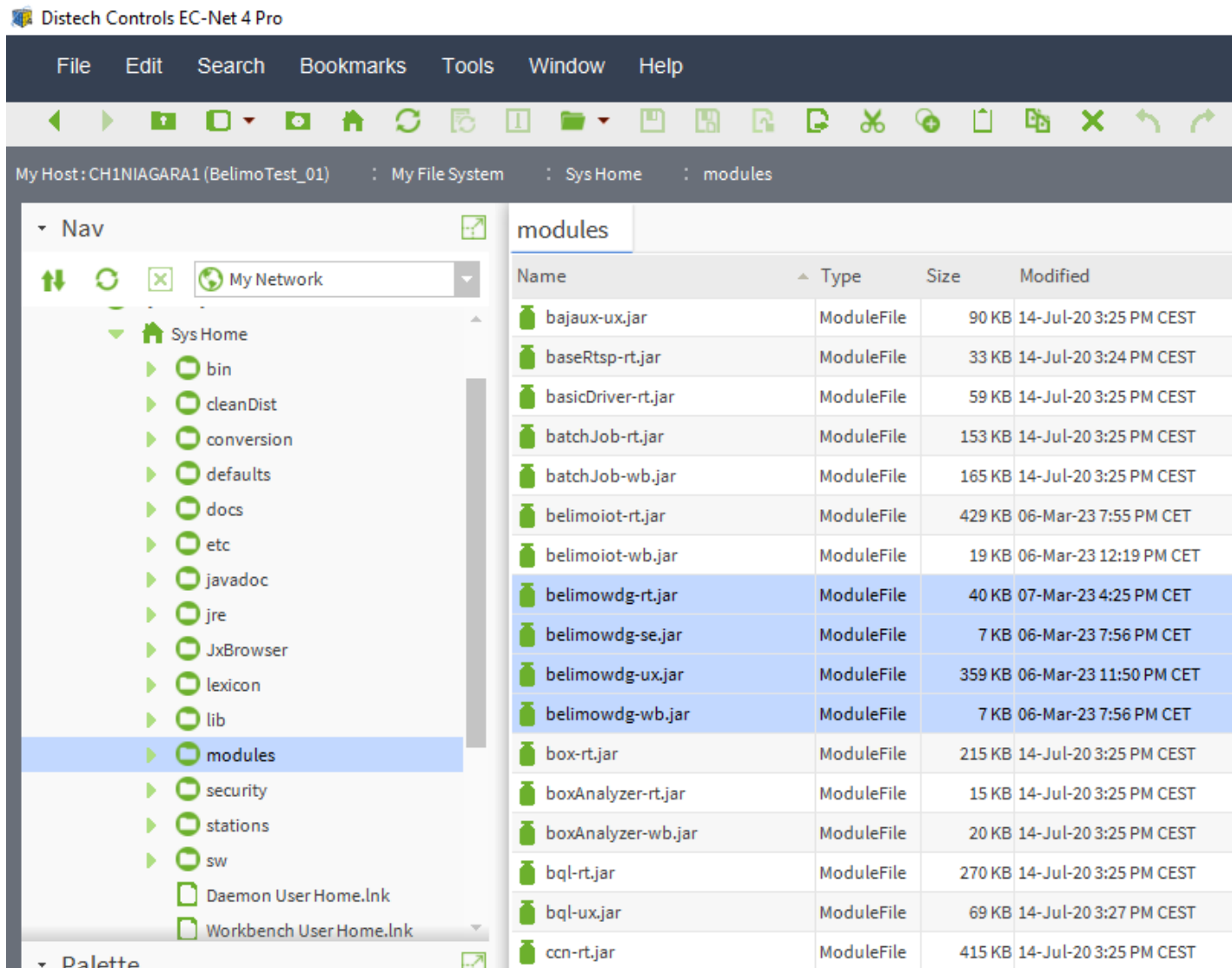
The Niagara modules folder

Take care to copy the modules into the right current running version of Niagara platform.



Check the presence of module

Open the Workbench application and search for belimowdg-rt, belimowdg-se, belimowdg-ux and belimowdg-wb modules into system module folder.



The screenshot shows the Distech Controls EC-Net 4 Pro application interface. The top menu bar includes File, Edit, Search, Bookmarks, Tools, Window, and Help. The address bar shows the current location: My Host: CH1NIAGARA1 (BelimoTest_01) : My File System : Sys Home : modules. The left sidebar shows a navigation tree with 'modules' selected. The main area displays a table of modules.

Name	Type	Size	Modified
bajaux-ux.jar	ModuleFile	90 KB	14-Jul-20 3:25 PM CEST
baseRtsp-rt.jar	ModuleFile	33 KB	14-Jul-20 3:24 PM CEST
basicDriver-rt.jar	ModuleFile	59 KB	14-Jul-20 3:25 PM CEST
batchJob-rt.jar	ModuleFile	153 KB	14-Jul-20 3:25 PM CEST
batchJob-wb.jar	ModuleFile	165 KB	14-Jul-20 3:25 PM CEST
belimoiot-rt.jar	ModuleFile	429 KB	06-Mar-23 7:55 PM CET
belimoiot-wb.jar	ModuleFile	19 KB	06-Mar-23 12:19 PM CET
belimowdg-rt.jar	ModuleFile	40 KB	07-Mar-23 4:25 PM CET
belimowdg-se.jar	ModuleFile	7 KB	06-Mar-23 7:56 PM CET
belimowdg-ux.jar	ModuleFile	359 KB	06-Mar-23 11:50 PM CET
belimowdg-wb.jar	ModuleFile	7 KB	06-Mar-23 7:56 PM CET
box-rt.jar	ModuleFile	215 KB	14-Jul-20 3:25 PM CEST
boxAnalyzer-rt.jar	ModuleFile	15 KB	14-Jul-20 3:25 PM CEST
boxAnalyzer-wb.jar	ModuleFile	20 KB	14-Jul-20 3:25 PM CEST
bql-rt.jar	ModuleFile	270 KB	14-Jul-20 3:25 PM CEST
bql-ux.jar	ModuleFile	69 KB	14-Jul-20 3:27 PM CEST
ccn-rt.jar	ModuleFile	415 KB	14-Jul-20 3:25 PM CEST

Module signing advice

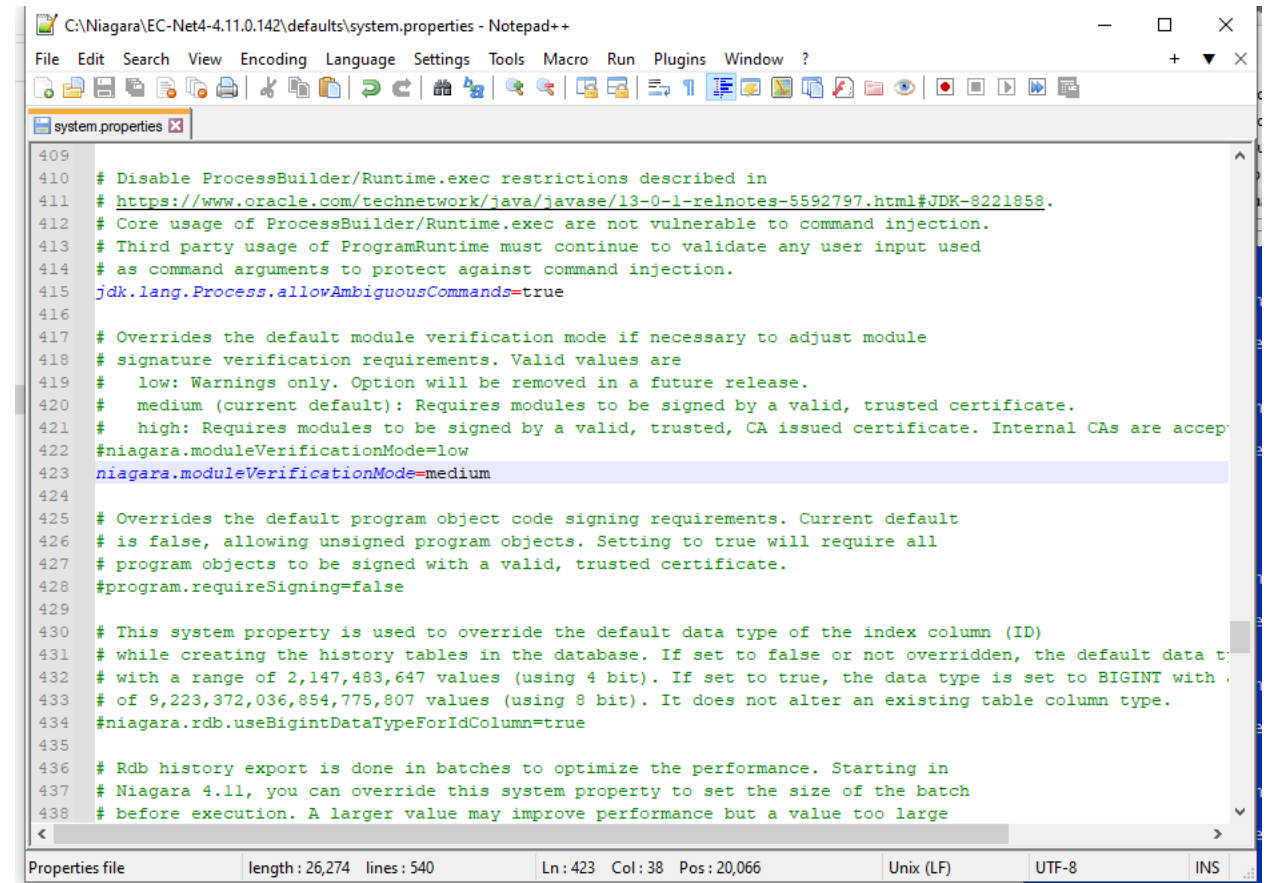
- In Niagara 4.8 and later, there is added support for the signing and verification of third-party modules. Third-party module signing is still optional in most cases, but this will gradually shift to a requirement over the course of the next releases.
- In Niagara 4.8 and later, there are added Workbench tools to support module signing.
- The Jar Signer Tool is useful for non-developers or anyone using an unsigned legacy module. The Jar Signer allows you to “sign” an unsigned *.jar file using a code signing certificate.

Please you can read about module signing here:

<https://docs.Niagara-community.com/bundle/ModuleSigning/page/ExampleConcept-41FE0D3F.html>

Check Workbench module signing level

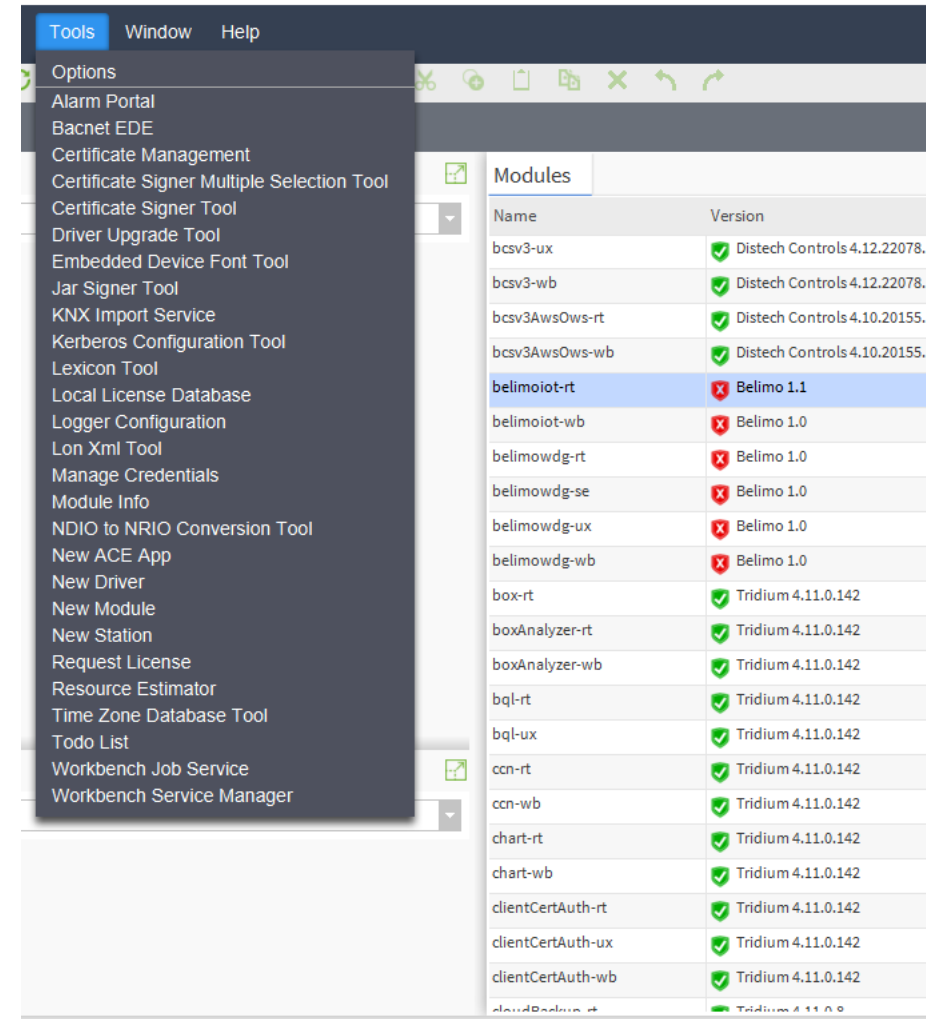
Open the system.properties file of Niagara current version and check what module verification mode is set. Low option is used for development and debugging purposes. Medium level requires external module to be signed.



```
C:\Niagara\EC-Net4-4.11.0.142\defaults\system.properties - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
system.properties
409
410 # Disable ProcessBuilder/Runtime.exec restrictions described in
411 # https://www.oracle.com/technetwork/java/javase/13-0-1-relnotes-5592797.html#JDK-8221858.
412 # Core usage of ProcessBuilder/Runtime.exec are not vulnerable to command injection.
413 # Third party usage of ProgramRuntime must continue to validate any user input used
414 # as command arguments to protect against command injection.
415 jdk.lang.Process.allowAmbiguousCommands=true
416
417 # Overrides the default module verification mode if necessary to adjust module
418 # signature verification requirements. Valid values are
419 # low: Warnings only. Option will be removed in a future release.
420 # medium (current default): Requires modules to be signed by a valid, trusted certificate.
421 # high: Requires modules to be signed by a valid, trusted, CA issued certificate. Internal CAs are accep
422 #niagara.moduleVerificationMode=low
423 niagara.moduleVerificationMode=medium
424
425 # Overrides the default program object code signing requirements. Current default
426 # is false, allowing unsigned program objects. Setting to true will require all
427 # program objects to be signed with a valid, trusted certificate.
428 #program.requireSigning=false
429
430 # This system property is used to override the default data type of the index column (ID)
431 # while creating the history tables in the database. If set to false or not overridden, the default data t
432 # with a range of 2,147,483,647 values (using 4 bit). If set to true, the data type is set to BIGINT with
433 # of 9,223,372,036,854,775,807 values (using 8 bit). It does not alter an existing table column type.
434 #niagara.rdb.useBigintDataTypeForIdColumn=true
435
436 # Rdb history export is done in batches to optimize the performance. Starting in
437 # Niagara 4.11, you can override this system property to set the size of the batch
438 # before execution. A larger value may improve performance but a value too large
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Check module sign

Open the module info tool and according to sign status of belimowdg-xx perform the next operations.



Module sign

If red sign is displayed, module cannot be used. The sign operation requires the to import the certificate locally. Ask for “.pem” file to INLON support.



There are errors that are not acceptable for the current module verification mode.



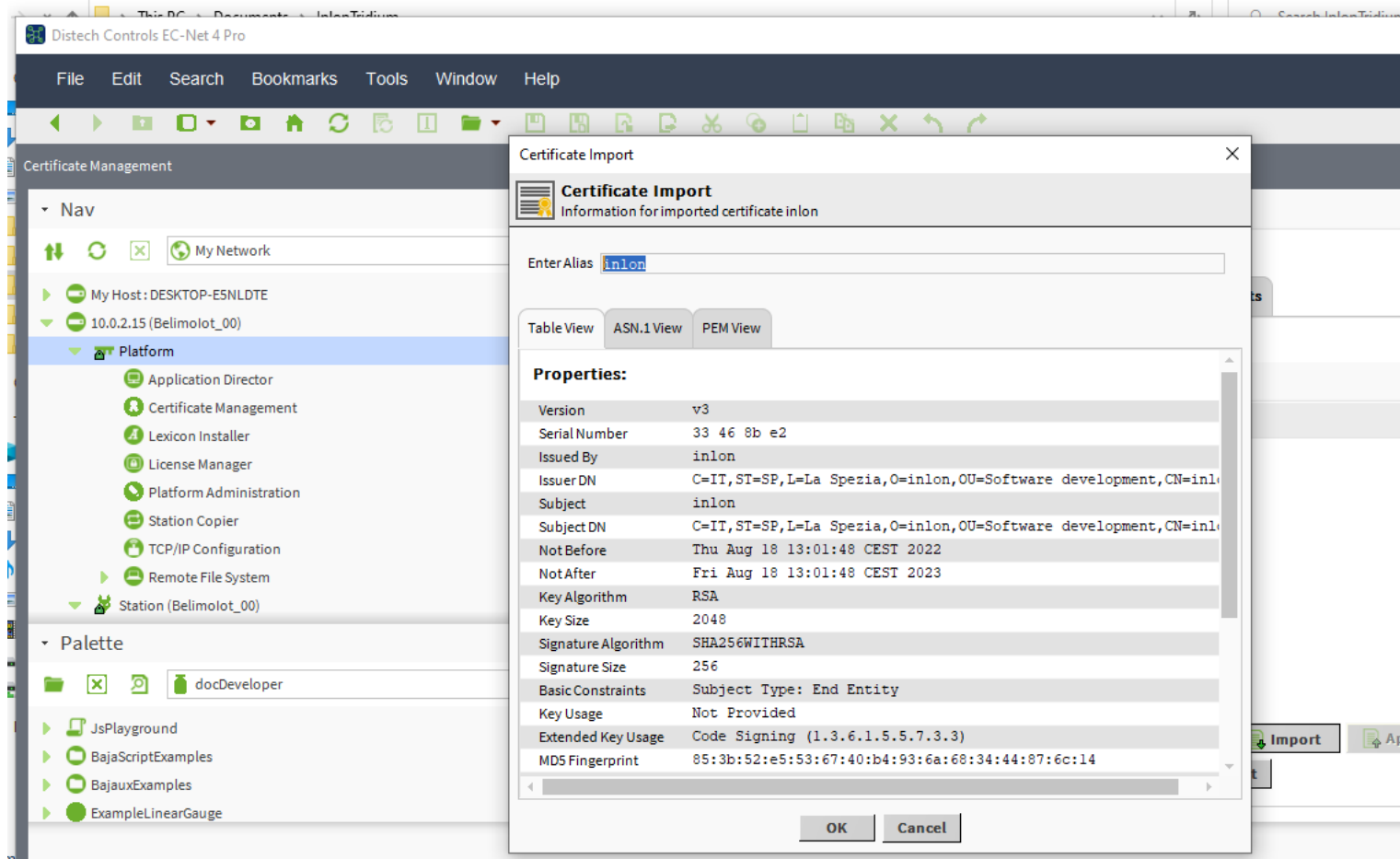
There are warnings, but they are acceptable for the current module verification mode.



Indicates that the module is signed with a Certificate Authority (CA).

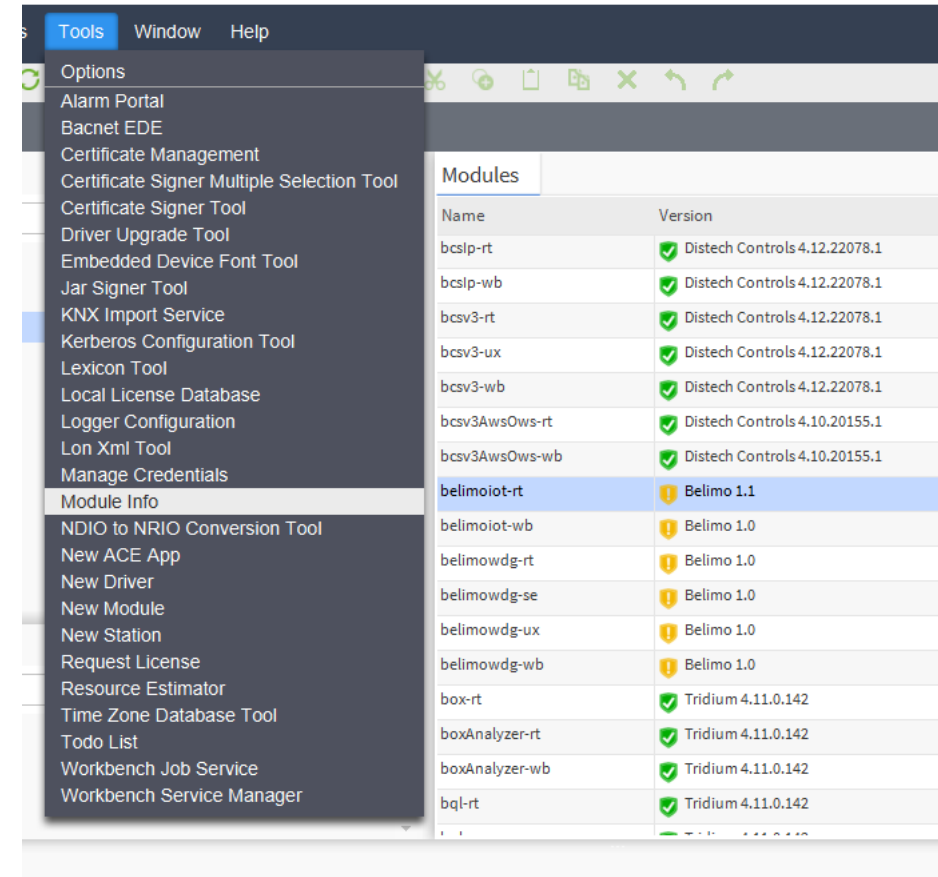
Import certificate to Workbench

Confirm the certificate data clicking ok button.



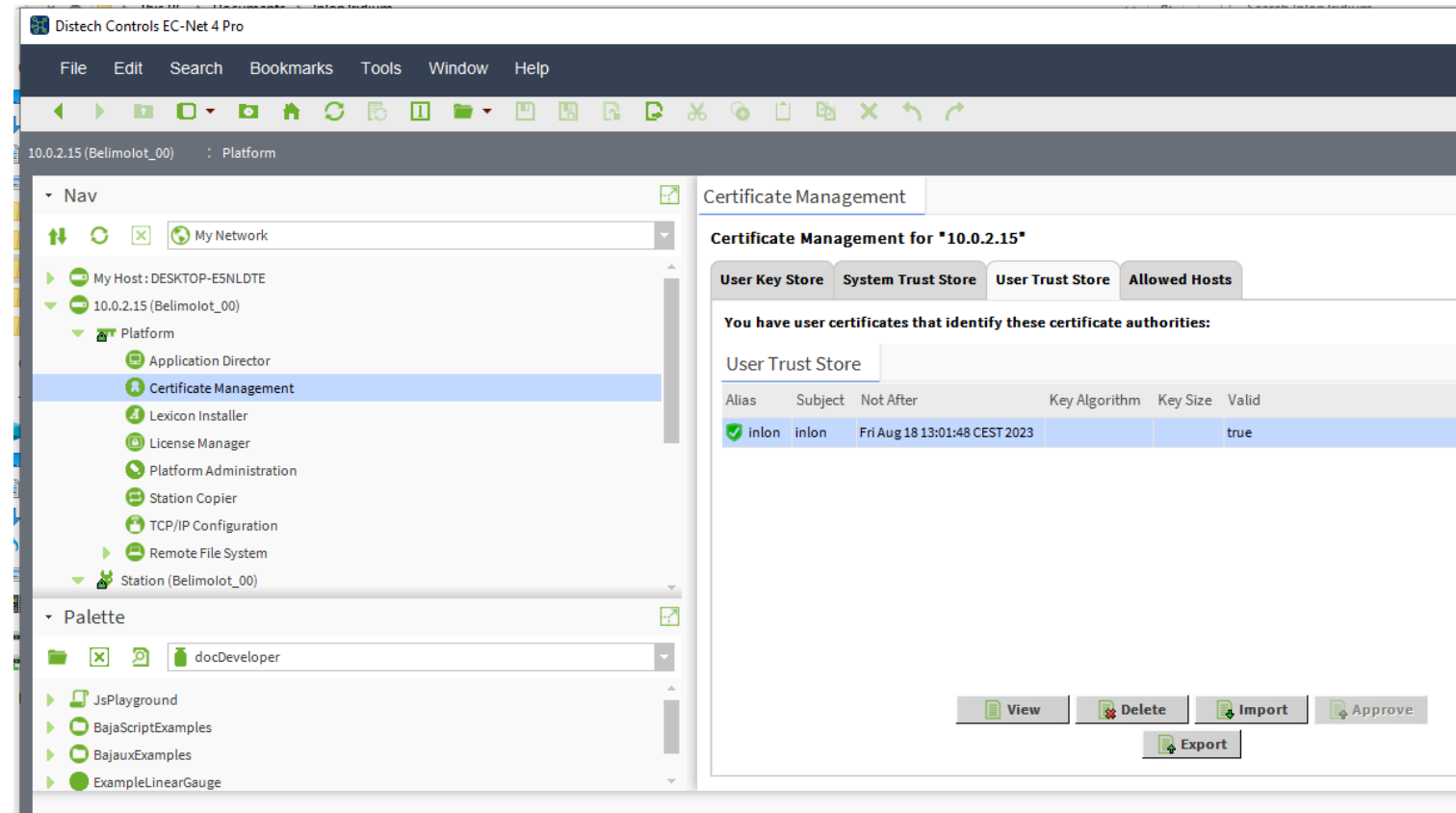
Check module sign again

Open the module info tool and now the belimowdg-xx is signed and can be used.



Import certificate to Platform

The certificate should be installed on stations too. Select the Platform station Certificate Management and perform same operation like for workbench. The Niagara Help describes deeply all the operations.

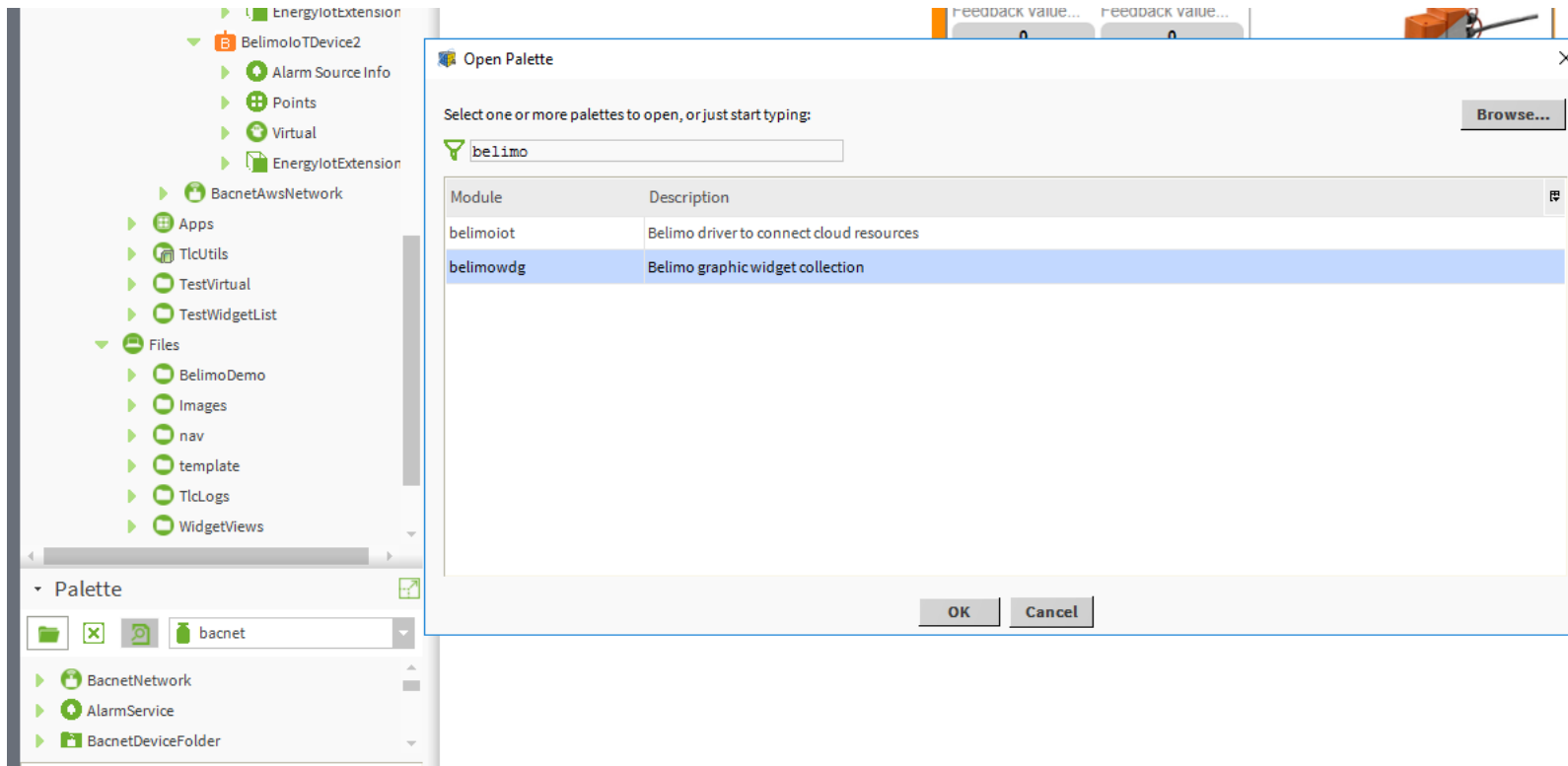


Using the module

Next steps require
a running station

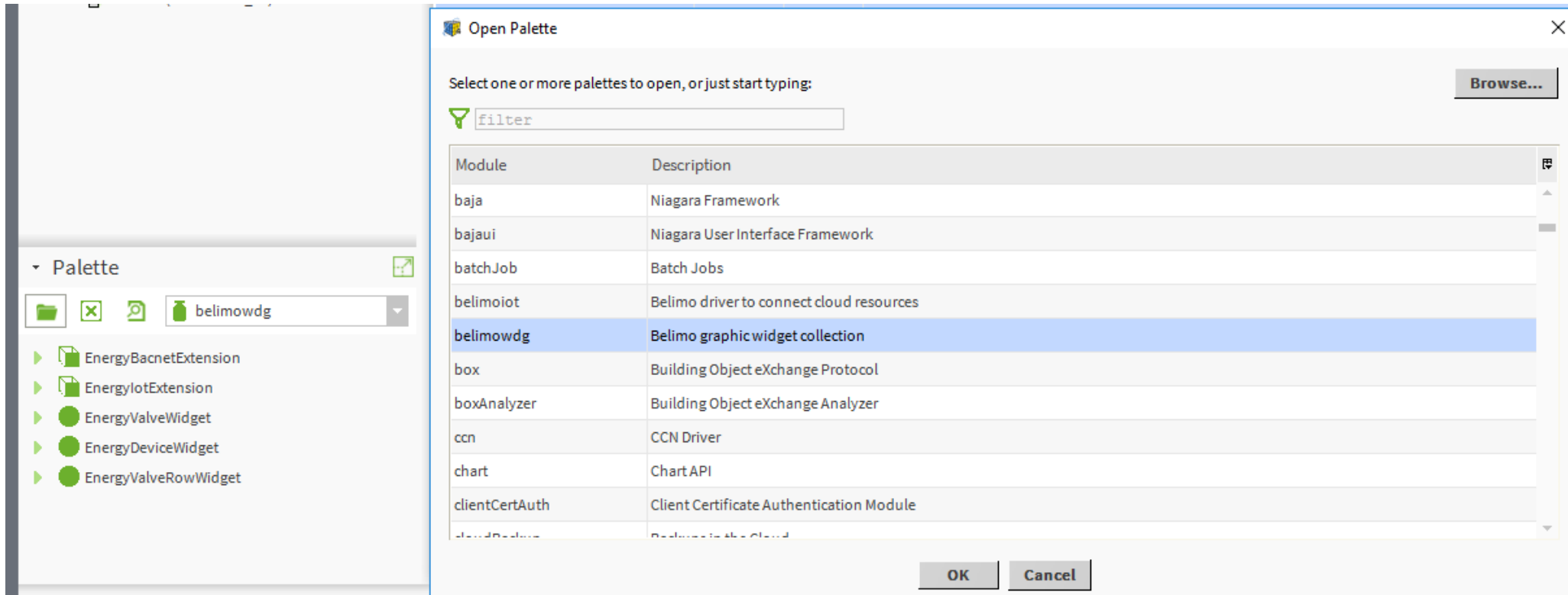
Load the palette

Open the palette view and select the belimowdg item.



Load the palette

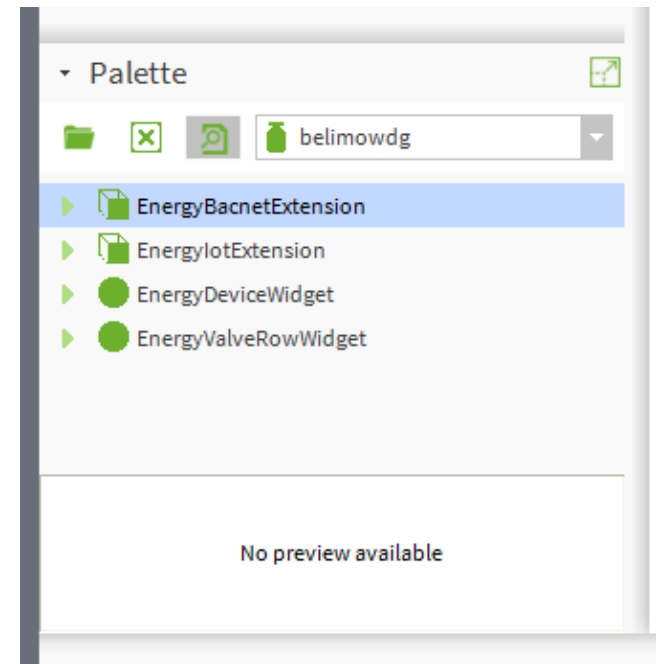
Open the palette view and select the belimowdg one.



The Belimo Widget palette

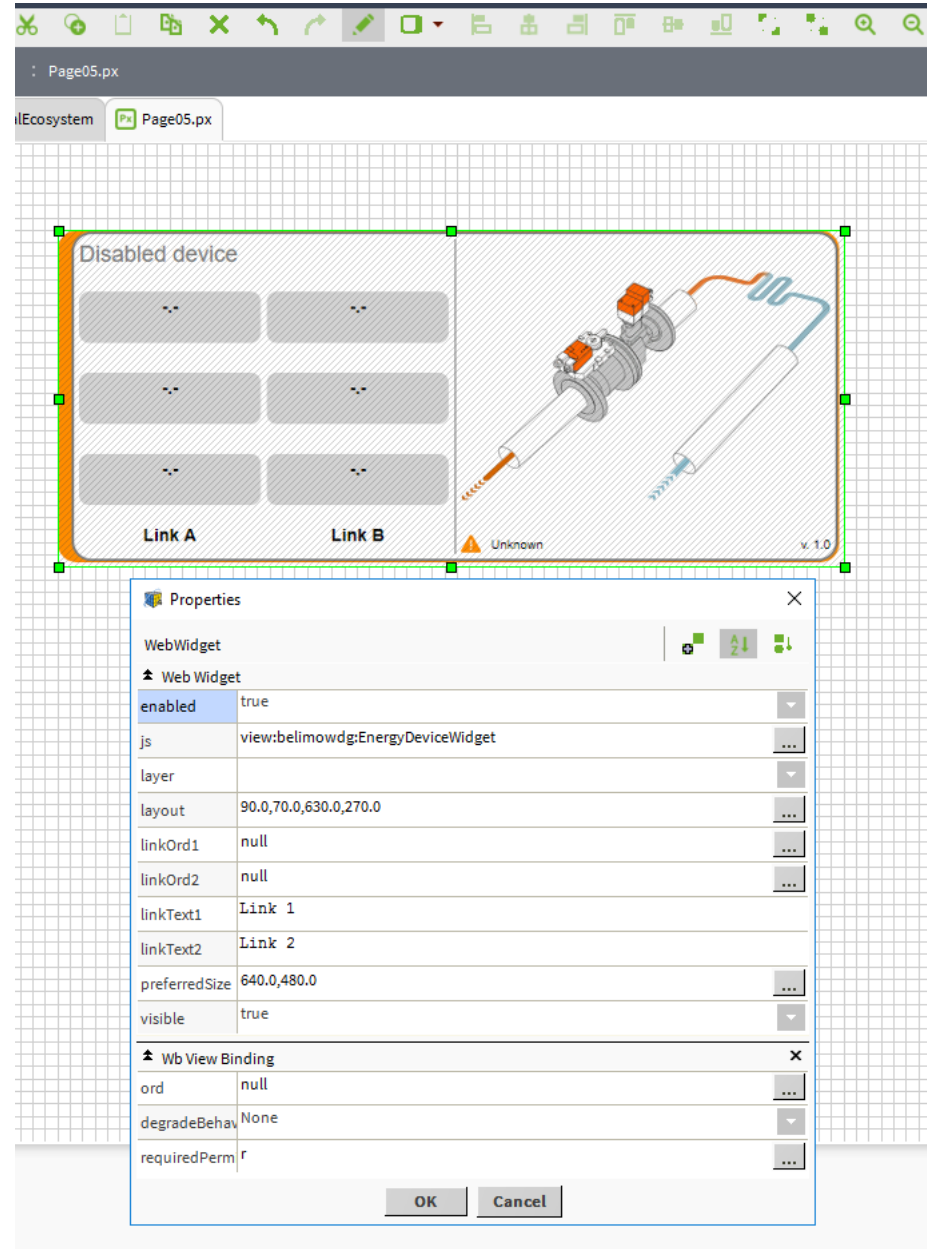
These are the items in the palette:

- EnergyBacnetExtension: it should be used with Bacnet devices.
- EnergylotExtension: it should be used with IoT devices of Belimo Cloud service.
- EnergyDeviceWidget: it is the widget to show device information.
- EnergyValveRowWidget: it is still a beta version of a widget to show summary information about devices.



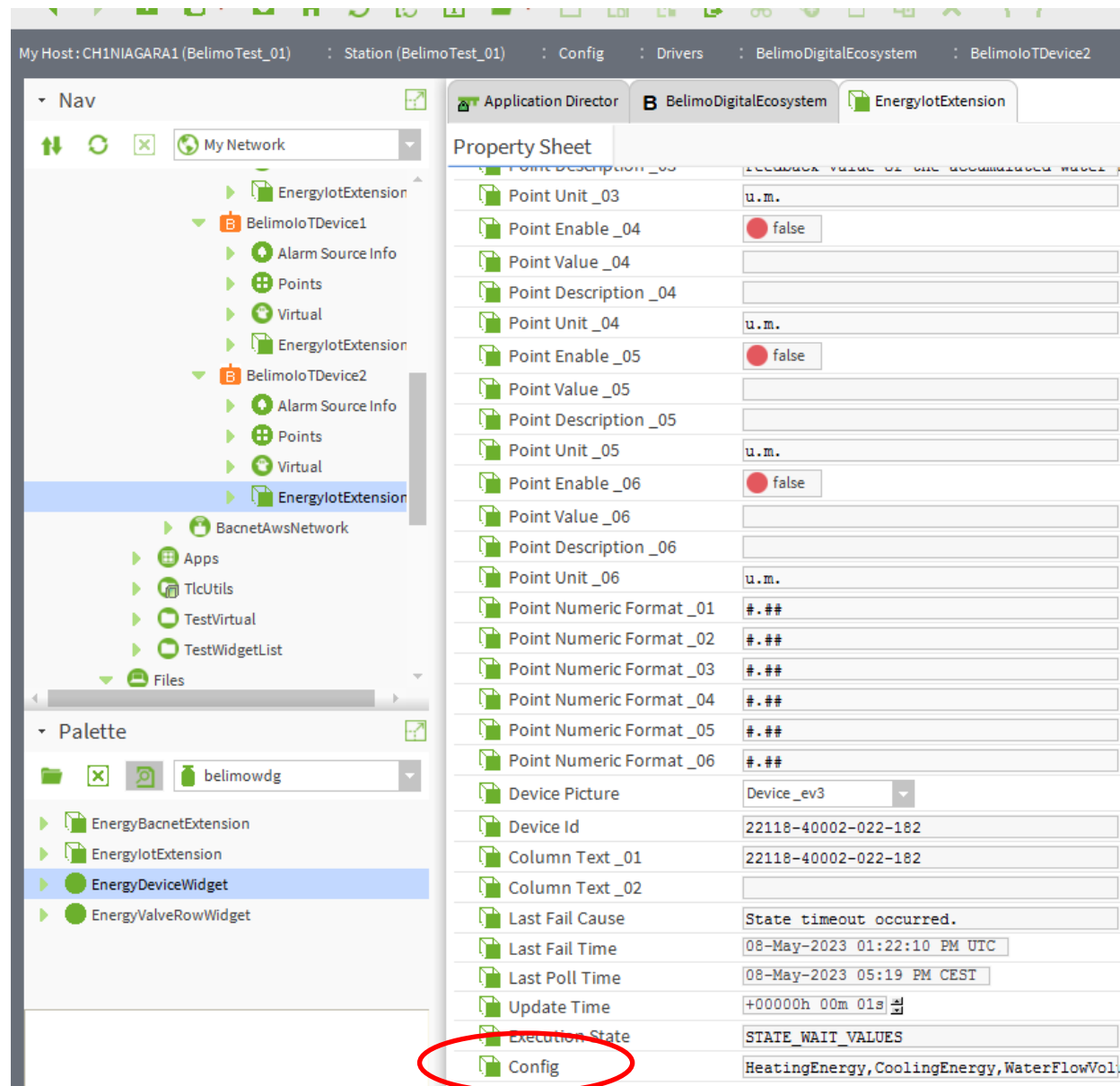
The widget

Drag and drop the widget on a px page then edit properties: select 'ord' properties to bind the widget to a compatible extension object (EnergyBacnetExtension or EnergyIotExtension). Next slides explain you how to manage extension objects.



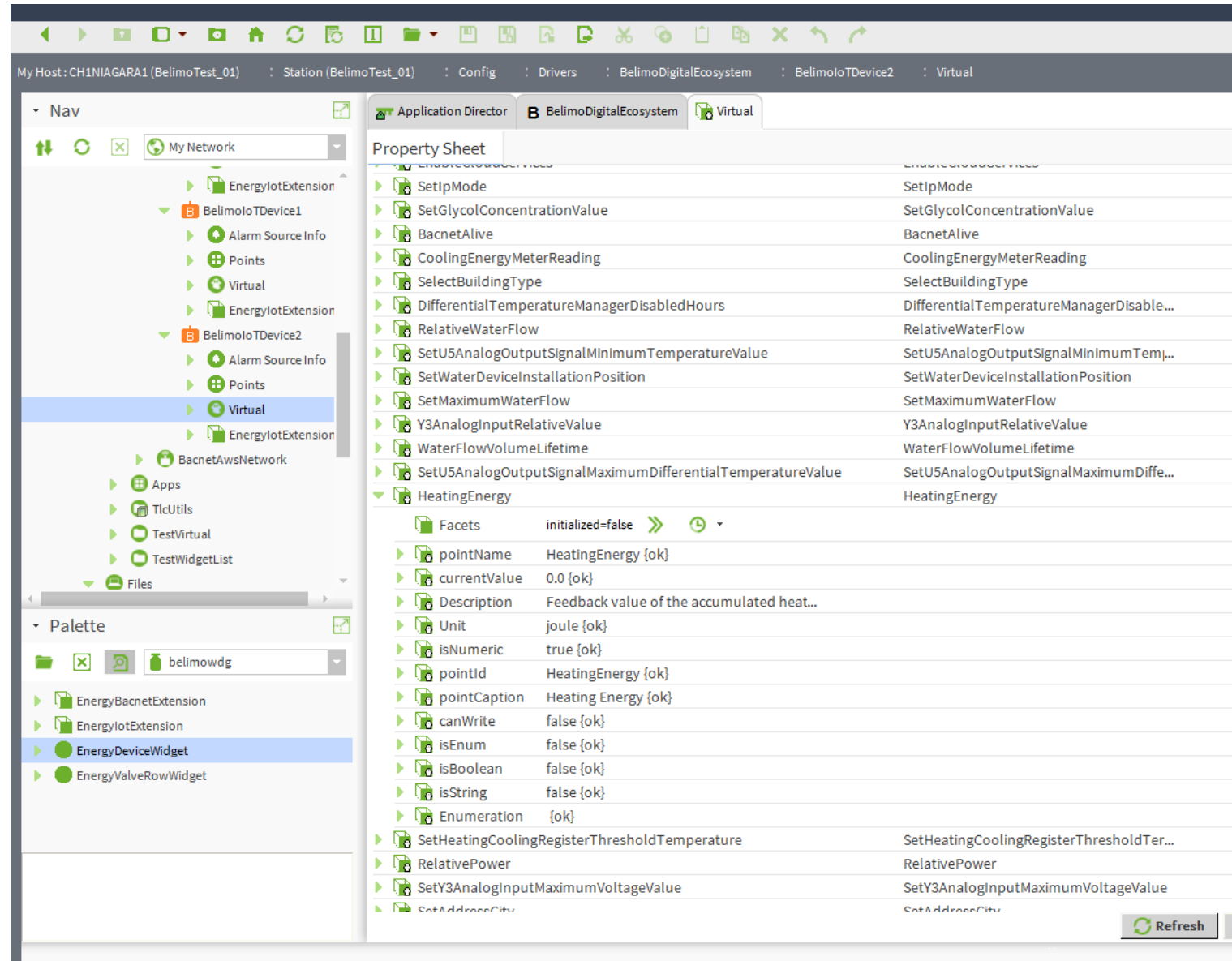
Extension for IoT devices

Drag and drop the EnergylotExtension to an IoT device then edit AX Properties of extension. The extension starts to show the device data if it is enabled. The first operation is writing in the Config field the name of points you would like to show. Names should be separated with commas. You get names from the list of virtual points.



IoT Virtual Points

IoT Belimo Driver supports Virtual Points feature, their use allows to save license credit points.



Widget Bind

Now you can bind the widget with the extension and data. Unit measure, numbers format and image can be selected with extension writable properties. The buttons link are used for navigation purposes, they can be configured with widget properties.

22118-40002-022-182

Feedback value of...	Feedback value of...
0 Kw	0 u.m.
Feedback value of...	
1.39 u.m.	

Link 1



Ready v. 1.0

Extension for Bacnet devices

Drag and drop the EnergyBacnetExtension to an Bacnet device then edit AX Properties of extension. The extension starts to show the device data if it is enabled. The first operation is writing in the Config field the points you would like to show. Point are identified by type and number. You can get information from the list of virtual points.

AV: analog value

AI: analog input

AO: analog output

BI: binary input

BO: binary output

N: not used, point number can be 0.

My Host: CH1NIAGARA1 (BelimoTest_01) : Station (BelimoTest_01) : Config : Drivers : BacnetAwsNetwork : EV050R2 MID : EnergyBacnetExtension

Nav

- My Network
 - EnergyBacnetExtension
 - E-Valve 52
 - EV050R2 MID
 - Alarm Source Info
 - Points
 - Virtual
 - Alarms
 - Schedules
 - Trend Logs
 - Config
 - EnergyBacnetExtension
 - Apps
 - TlcUtils
 - TestVirtual
 - TestWidgetList
 - Files
 - BelimoDemo

Palette

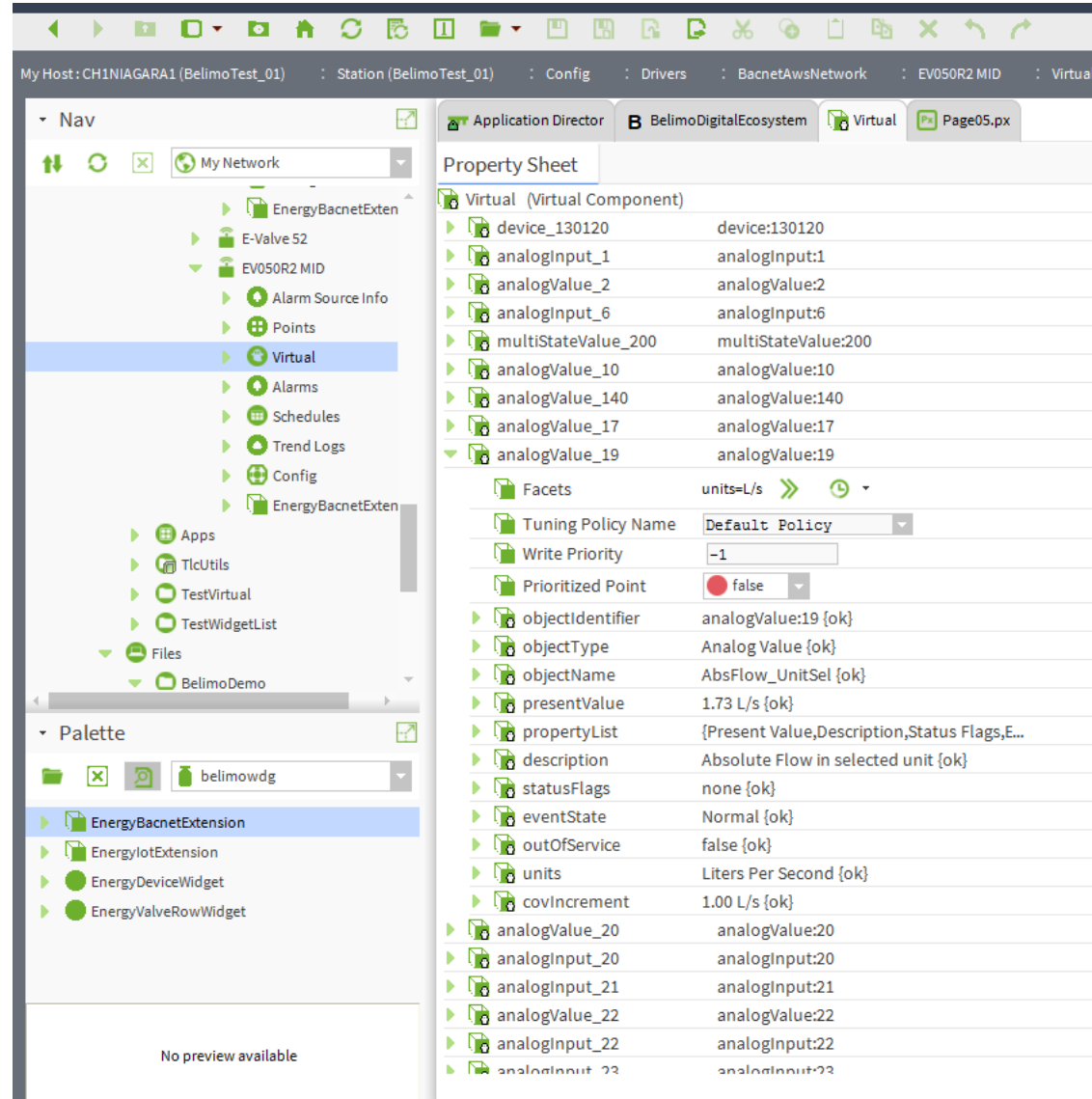
- belimowdg
 - EnergyBacnetExtension
 - EnergyIotExtension
 - EnergyDeviceWidget
 - EnergyValveRowWidget

Property Sheet

Point Enable_04	<input checked="" type="checkbox"/>
Point Value_04	-.-
Point Description_04	Point4
Point Unit_04	u.m.
Point Enable_05	<input type="checkbox"/>
Point Value_05	-.-
Point Description_05	Point5
Point Unit_05	u.m.
Point Enable_06	<input checked="" type="checkbox"/>
Point Value_06	-.-
Point Description_06	Point6
Point Unit_06	u.m.
Point Numeric Format_01	#.##
Point Numeric Format_02	#.##
Point Numeric Format_03	#.##
Point Numeric Format_04	#.##
Point Numeric Format_05	#.##
Point Numeric Format_06	#.##
Device Picture	Device_ev3
Device Id	22118-40002-022-182
Column Text_01	EV050R2 MID
Column Text_02	
Last Fail Cause	Point object not found
Last Fail Time	08-May-2023 03:43:10 PM UTC
Last Poll Time	08-May-2023 05:43 PM CEST
Update Time	+00000h 00m 01s
Execution State	STATE_WAIT_VALUES
Config	AV, 1, AV, 2, AI, 31, AI, 32, N, 0, AV, 54

Bacnet Virtual Points

Bacnet Driver supports Virtual Points feature, their use allows to save license credit points.



The widget has been developed by:
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Thanks to:
BELIMO Automation AG

