I/Net Driver User Guide

# I/Net Driver User Guide

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## Installation

Install <u>ifcInet-rt.jar and ifcInet-wb.jar</u> on the computer where Niagara N4 Workbench will run. To install, place a copy of the file in the modules directory of your Niagara N4 installation. This is typically C:\Niagara\Niagara-3.n.nn\modules.

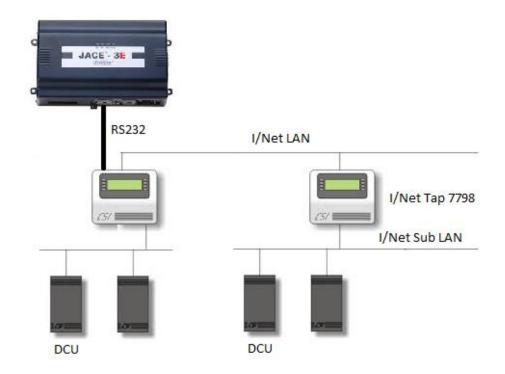
Install <u>ifcInet</u> module on the target station. Using a Niagara N4 workbench where the module has already been installed, connect to the stations platform service. Go to the software manager and install <u>ifcInet</u>.

## Requirement

- Niagara N4 workbench 4.0.22.xx or higher.
  - 1. Serial communication RS232 Port. (Required "serial" feature in the license).
- Niagara N4 platform JACE support:
  - 1. JACE-3E.
  - 2. JACE 6xx.
  - 3. JACE 7xx.
  - 4. JACE 8000 (Titan JACE).
- CSI I/Net Devices support:
  - 1. TAC I/Net 7801X
  - 2. TAC I/Inet 7798

Note : Driver can support 64 TAP address with 16 DCU address with 32 Point numbers of each DCU devices as defined in I/Net

- Maximum Inet Network support:-
  - Theoretical there is no limitation on mN4imum Inet Network in the single JACE, however the limitation is always base on JACE resource count. Whenever using the optional RS232 port in the JACE you may require to increase the Inet Network "Inter Message Delay" to solve the issue on the communication problem.



# **Quick Start**

This section provides a collection of procedures to use the Niagara N4 CSI I/Net drivers to build networks of devices with proxy points and other components. Like other Niagara N4 drivers, you can do most configurations from special "manager" views and property sheets using Workbench.

- For any of the I/Net networks:
  - "Configure the Inet network"
  - "Add Inet devices"
  - "Create Inet proxy points"

#### **Configure Inet Network**

To add and configure a Inet network, perform the following main tasks:

- Add the Inet network, as needed:
  - Add a InetNetwork

#### Add a InetNetwork

#### To add a InetNetwork in the station

Use the following procedure to add a InetNetwork component under the station's Drivers container.

Note : If the host JACE has multiple RS-232 ports to be used for client (master) access of Inet networks, add one InetNetwork for each physical port. Note that for each InetNetwork, you must Configure the serial port parameters.

To add a InetNetwork in the station:

- Double-click the station's **Drivers** container, to bring up the **Driver Manager**.
- Click the New button to bring up the New network dialog. For more details, see "Driver Manager New and Edit" in the *Drivers Guide*.
- Select "Inet Network," number to add: 1 (or more if multiple networks) and click **OK**. This brings up a dialog to name the network(s).
- Click **OK** to add the InetNetwork(s) to the station. You should have a InetNetwork named "InetNetwork" (or whatever you named it), under your Drivers folder, initially showing a status of "{fault}" and enabled as "true."

After you Configure the serial port parameters, status should change to "{ok}".

#### Configure the serial port parameters

In the InetNetwork property sheet for each network, you must set the serial port configuration to match the serial communications parameters used by other I/Net devices on the network.

#### To set the serial port parameters

To set the serial port parameters for a InetNetwork:

Right-click the InetNetwork and select Views > Property Sheet.

The **Property Sheet** appears.

Scroll down and expand the Serial Port Config slot.

Set the properties for the JACE serial port used, where defaults are:

- Port Name: none Enter the JACE port being used, like COM1.
- Baud Rate: Baud9600 Or choose different from selection list.
- Data Bits: Data Bits8 Or choose different from selection list.
- Stop Bits: Stop Bit1 Or choose different from selection list.
- Parity: none Or choose different from selection list.

• Flow Control Mode: none — Or choose different using checkbox.

*Note : You must determine the setup of the* Inet *network to correctly set the baud rate, data bits, stop bits, parity, and flow control settings.* 

• Click the **Save** button.

#### Add a Inet Devices

After adding a Inet network, you can use the network's default "device manager" view to add the appropriate Inet devices.

**Note:** You need the address information for each Inet device you are adding, as well as for later procedures to add proxy points under devices.

#### To add a Inet device in the network

Use the following procedure to add the correct type of Inet device in the network. To add a Inet device:

 In the Nav tree or in the Driver Manager view, double-click the client network, to bring up the device manager (Inet Device Manager). All of these device manager views operate in a similar fashion.

Note: For general device manager information, see the "About the Device Manager" section in the Drivers Guide.

- Click the **New** button to bring up the **New** device dialog.
- Select for number to add: 1 (or more, if multiple) and click OK. This brings up a dialog to name the device(s), enter Inet device Link address, Tap Address and DCU address.
  - Any *Inet Device* needs the unique address in use.
- Click OK to add the Inet device(s) to the network.
   You should see the device(s) listed in the Inet Device Manager view, showing a status of "{ok}" and enabled as "true."

If a device shows "down" check the configuration of the network and/or Inet device Link address, Tap Address and DCU address. You can simply double-click a device in the device manager to review settings in an **Edit** dialog, identical to the **New** dialog when you added it.

After making any address changes, click **Save**, then right-click the device and select **Actions > Ping**.

#### **Create Inet Proxy Point**

As with device objects in other drivers, each Inet device has a **Points** extension that serves as the container for proxy points. The default view for any Points extension is the Point Manager (and in this case, the "**Inet Point Manager**"). You use it to add Inet proxy points under any Inet device.

**Note:** Unlike the point managers in many other drivers, the **Inet Point Manager** does offer a "Learn mode" with a **Discover** button and pane. Otherwise you can simply use the **New** button to create proxy points, referring to the vendor's documentation for the addresses of data items in each Inet device.

#### To add Inet proxy points

Once a Inet device is added, you can add proxy points to read and write data. If programming online (and the device shows a status of "{ok}"), you can get statuses and values back immediately, to help determine if point configuration is correct. Use the following procedure:

To create Inet proxy points in a device:

■ In the **Device Manager**, in the **Exts** column, double-click the Points icon <sup>®</sup> in the row representing the device you wish to create proxy points.

This brings up the Inet Point Manager.

- Optional) Click the New Folder button to create a new points folder to help organize points, and give it a short name, such as "TempNo1", or whatever name works for your application. You can repeat this to make multiple points folders, or simply skip this step to make all proxy points in the root of Points. Note that all points' folders have their own Inet Point Manager view, just like Points. If making points folders, double-click one to move to its location (and see the point manager).
- At the location needed (**Points** root, or a points folder), click the **New** button. The **New** points dialog appears, in which you select a "Point Type," "Number to Add," "Address and Bit".

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For more details, see "About Inet proxy points"

• Click **OK** to add the proxy point(s) to the Points extension (or to the current points folder), where each shows as a row in the point manager.

If parameter correctly, each point should have a status of "{ok}" with a polled value displayed.

- If a point shows a "{fault}" status, check its ProxyExt "Fault Cause" property value, which typically includes a Inet "exception code" string, such as "Read fault: illegal data address". In such a case, re-check the address in the point against the documented address for the data item.
- Continue to add proxy points as needed under the **Points** extension of each Inet device. As needed, double-click one or more existing points for the **Edit** dialog, similar to the **New** dialog used to create the points. This is commonly done for re-editing items like data addresses, names, or facets.

# **I/Net View**

- Inet Device Manager
- Inet Point Manager

#### **Inet Device Manager**

The Inet Device Manager is the default view when you double-click on a Inet Network in the Nav tree. This manager view provides a quick and easy way to display.

The Inet Device Manager is the default view for any Inet Network container. The Inet Device Manager is a table-based view, where each row represents a unique device. When building a network in the station, you use this view to create, edit, and delete device-level components. Below is an example Inet Device Manager view.

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🗄 🗐 Drivers	-	🔜 AHU15	Inet Device	Ô	0	12	3	{ok}	Ok [11-Apr-15 1:44 PM EDT]	
🕀 🕮 NiagaraNetwork		CSection	Inet Device	Ô	0	20	5	{ok}	Ok [11-Apr-15 1:45 PM EDT]	
		Floor3VAV	Inet Device	Ô	1	8	18	{ok}	Ok [11-Apr-15 1:45 PM EDT]	
 ⊞_ AHU14		ConcologyVAV	Inet Device	Q	0	56	14	{ok}	Ok [11-Apr-15 1:44 PM EDT]	
⊕ 🗐 AHU15		RTU1	Inet Device	Q	0	40	10	{ok}	Ok [11-Apr-15 1:44 PM EDT]	
	Ξ	VAV11	Inet Device	Q	0	44	11	{ok}	Ok [11-Apr-15 1:44 PM EDT]	
Alarm Source Info		VAV12	Inet Device	Ô	0	0	12	{down}	Fail [11-Apr-15 1:45 PM EDT] no response	
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The view above shows a typical Inet Device Manager view.

The "New Folder", "New", and "Edit" buttons are not unique to the Inet Device Manager, and are explained in the "Niagara N4 User's Guide" in the "Driver Architecture" section. The "Match" button is not used for the Inet driver.

You can now add the devices to the station database by clicking the "Add" button. This will pop up the "Add" dialog box:

Inet Device 🔻
Cancel

The "Add" dialog box affords you the opportunity to tweak the display name, enabled state, and/or address of each of the selected devices. Click the "OK" button to add the devices to the database, or click "Cancel" to bail out.

The "Discover" button implements functionality that is unique and tailored to discovering Inet devices. By clicking the "Discover" button, the "learn" mode of the manager is invoked (the panes will be split, and a "discovery" table will be displayed in the top pane).

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	AHU15	Inet Device		0	12	3	{ok}	Ok [11-Apr-15 1:44 PM EDT]		
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Single or multiple Inet devices can be added as device by selecting the discovered row(s) in the top pane, and clicking add. Doing so will cause the "Add" dialog box to appear:

Once the device(s) are satisfactorily edited, click "OK" to create the device corresponding to the device property.

#### **Inet Point Manager**

The Inet Point Manager is the default view when you double-click on a "points" folder (a InetPointDeviceExt type folder) under a InetDevice in the Nav tree. This manager view provides a quick and easy way to display and learn Inet points in a Inet device.

The Inet Point Manager is the default view for any InetPointDeviceExt container. The Inet Point Manager is a table-based view, where each row represents a unique Inet address within a device.

Below is an example Inet Point Manager view.

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Station (inet)	<b>^</b>	Name	Туре	Out	Point Type	Address	Bit	Tuning Policy Name	
Config		FCU01 SAF S/S	Boolean Writable	true {ok} @ def	Discrete Output	0	0	defaultPolicy	
🗄 🐲 Services		FCU02 SAF S/S	Boolean Writable	true {ok} @ def	Discrete Output	0	1	defaultPolicy	
E Carlo Drivers		FCU09 SAF S/S	Boolean Writable	true {ok} @ def	Discrete Output	0	2	defaultPolicy	
🗉 🍋 NiagaraNetwork		FCU10 SAF S/S	Boolean Writable	true {ok} @ def	Discrete Output	0	3	defaultPolicy	
🖻 🍘 InetNetwork	Ξ	FCU22 SAF S/S	Boolean Writable	true {ok} @ def	Discrete Output	0	4	defaultPolicy	
🕀 🔜 Inet_0_56_14 🕀 🐥 Alarm Source Info		🔵 FCU22 EDH1 S/S 🗋	Boolean Writable	true {ok} @ def	Discrete Output	0	5	defaultPolicy	
		FCU22 EDH2 S/S	Boolean Writable	true {ok} @ def	Discrete Output	0	6	defaultPolicy	
E CU01 SAF S/S		FCU01 SAF STATUS	Boolean Point	true {ok}	Discrete Indicate	0	0	defaultPolicy	
E CU02 SAF S/S		FCU01 SA DMP STA	Boolean Point	true {ok}	Discrete Indicate	0	1	defaultPolicy	
E CU09 SAF S/S		FCU01 RA DMP STA	Boolean Point	true {ok}	Discrete Indicate	0	2	defaultPolicy	
		FCU01 S/A TEMP	Numeric Point	119.9 {ok}	Analog Input	0	3	defaultPolicy	
E G FCU22 SAF 5/5		FCU02 SAF STATUS	Boolean Point	true {ok}	Discrete Indicate	0	4	defaultPolicy	
E G FCU22 EDH1 S/S		FCU02 SA DMP STA	Boolean Point	true {ok}	Discrete Indicate	0	5	defaultPolicy	
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🕀 🔴 FCU01 SA DMP STA		UPS RM TEMP	Numeric Point	119.9 {ok}	Analog Input	1	0	defaultPolicy	
🕀 🔵 FCU01 RA DMP STA		MAIN SW RM TEM	Numeric Point	119.9 {ok}	Analog Input	1	1	defaultPolicy	
🕀 🔵 FCU01 S/A TEMP		FCU22 SAF STAT	Boolean Point	true {ok}	Discrete Indicate	1	2	defaultPolicy	
🕀 🔵 FCU02 SAF STATUS			Dealers Daish	Server Calif	Disease Tealinets	4	4	defender ber	

The "New Folder", "New", and "Edit" buttons are not unique to the Inet Device Manager, and are explained in the "Niagara N4 User's Guide" in the "Driver Architecture" section. The "Match" button is not used for the Inet driver.

The "Discover" button implements functionality that is unique and tailored to discovering Inet devices points. By clicking the "Discover" button, the "learn" mode of the manager is invoked (the panes will be split, and a "discovery" table will be displayed in the top pane).

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E O FCU22 EDH2 5/5		FCU09 SAF S/S	Boolean Writable	true {ok} @ del		0	2	defaultPolicy	
E O FCU01 SAF STATUS E O FCU01 SA DMP STA		FCU10 SAF S/S	Boolean Writable	true {ok} @ del		0	3	defaultPolicy	
E COUI SA DMP STA		FCU22 SAF S/S	Boolean Writable	true {ok} @ del		0	4	defaultPolicy	
E COUI RA DMP STA		FCU22 EDH1 S/S	Boolean Writable	true {ok} @ del		0	5	defaultPolicy	
		FCU22 EDH2 S/S	Boolean Writable	true {ok} @ del		0	6	defaultPolicy	
E CU02 SA DMP STA		FCU01 SAF STATUS	Boolean Point	true {ok}	Discrete Indicate	0	0	defaultPolicy	-
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Single or multiple points can be added as control points with InetProxyExt extensions by selecting the discovered row(s) in the top pane, and clicking add. Doing so will cause the "Add" dialog box to appear: Once the point(s) are satisfactorily edited, click "OK" to create the proxy points corresponding to the point property.

#### **Inet Proxy Ext Special Consideration**

Whenever a Inet proxy Ext is added or configured to have an point property value and the base Type is Writable Point as shown below, there is additional special behavior need to take note:

Some of the command point required to use override(priority 1-10) to change the value, as below when the "set" action is execute the output will not change unless user use override(priority 1-10) to change the value.

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Constructions	FCU02 SAF S/S	E Views	•	p def	Discrete Output	0	1	defaultPolicy			
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E Thetwerk	FCU22 SAF S/S	Ę		Eme	rgency Auto		4	defaultPolicy			
Alarm Source Info	FCU22 EDH1 S/S	00	⊂trl+X	Acti	ye		5	defaultPolicy			
	FCU22 EDH2 S/S	P/	Ctrl+C		twe		6	defaultPolicy			
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E FCU22 EDH1 S/S	FCU02 SA DMP S	TA E 🛱 Find		1	Discrete Indicate	0	5	defaultPolicy			
E FCU22 EDH2 S/S	FCU02 RA DMP S	TA B Link Mark		1	Discrete Indicate	0	6	defaultPolicy			
E FCU01 SAF STATUS	FCU02 S/A TEMP	N			Analog Input	0	7	defaultPolicy			
🕂 🔴 FCU01 SA DMP STA	UPS RM TEMP	Link From			Analog Input	1	0	defaultPolicy			
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E O FCU01 S/A TEMP	FCU22 SAF STAT		Ctrl+R		Discrete Indicate	1	2	defaultPolicy			
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🕀 🍈 FCU02 SA DMP STA	GEN FIRE TRIP	=+ 1.001.001			Discrete Alarm	2	4	defaultPolicy			
		New F		Edit	Discover	r 🕜 (	ancel	Add 🚬 Match			
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# Licensing

I/Net driver License is running independently, the license will not from issue by Tridium, it has no restriction to run to any of the existing license vendor.

The I/Net license provide 2 hour demo license without the unlock code. After the demo license expired the I/Net Driver communication will stop automatically and will show fault in the Inet Network level. "ifcInet license expired". To extend the demo period user required to restart the station or reboot the JACE station. The licensing count is per-JACE and will allow having multiple networks in single JACE's license.

To request the license please submit the JACE/Web Supervisor host ID, to unlock the driver simply go to the license property, and select at the word "License" right mouse click action and invoke command "License Update", the dialog "License Update" will appear. Place the unlock code at the "Unlock Code" property. Please take note the license only provide by authorize vendor. If the unlock code is successful enter the property "Mode" will automatically change to "registered" and user is required to reboot the JACE to applied the change.

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