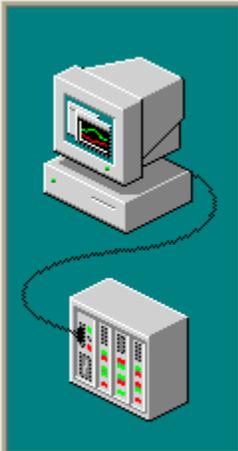


In This application we have an EQ7000 EDH+ with IP address 192.168.2.180

1st using the AB Ethernet driver to read from Integer file7 in PLC5 node address 7.

New Channel - Identification

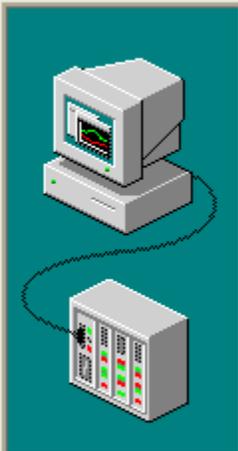


A channel name can be from 1 to 256 characters in length.
Names can not contain periods, double quotations or start with an underscore.

Channel name:
EQ7000-ABETH

< Back Next > Cancel Help

New Channel - Device Driver



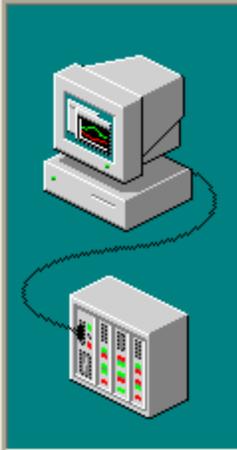
Select the device driver you want to assign to the channel.
The drop-down list below contains the names of all the drivers that are installed on your system.

Device driver:
Allen-Bradley Ethernet

Enable diagnostics

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New Channel - Network Interface



This channel is configured to communicate over a network. You can select the network adapter that the driver should use from the list below.

Select 'Default' if you want the operating system to choose the network adapter for you.

Network Adapter:

Default

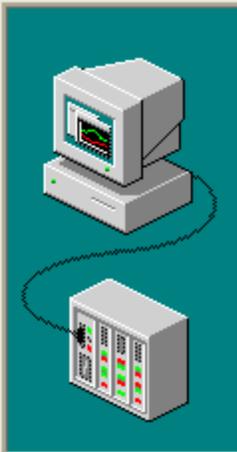
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Cancel

Help

New Channel - Write Optimizations



You can control how the server processes writes on this channel. Set the optimization method and write-to-read duty cycle below.

Note: Writing only the latest value can affect batch processing or the equivalent.

Optimization Method

- Write all values for all tags
- Write only latest value for non-boolean tags
- Write only latest value for all tags

Duty Cycle

Perform 10 writes for every 1 read

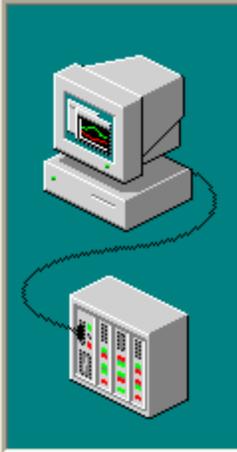
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Help

New Channel - Summary



If the following information is correct click 'Finish' to save the settings for the new channel.

Name: EQ7000-ABETH
Device Driver: Allen-Bradley Ethernet
Diagnostics: Disabled

Network Adapter:
Default

Write Optimization:
Write only latest value for all tags
10 writes per read

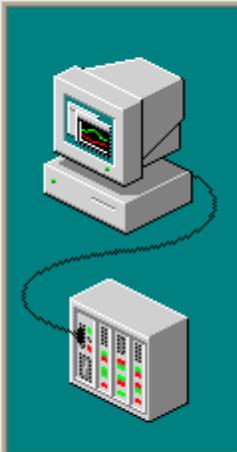
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Finish

Cancel

Help

New Device - Name



A device name can be from 1 to 256 characters in length.

Names can not contain periods, double quotations or start with an underscore.

Device name:

EQ7000 to PLC5 ABETH

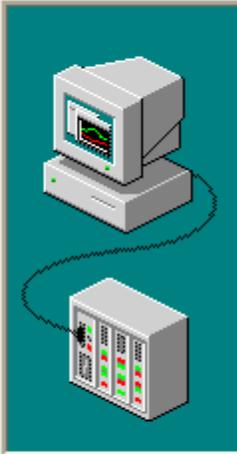
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Help

New Device - Model



The device you are defining uses a device driver that supports more than one model. The list below shows all supported models.

Select a model that best describes the device you are defining.

Device model:

PLC-5 Family

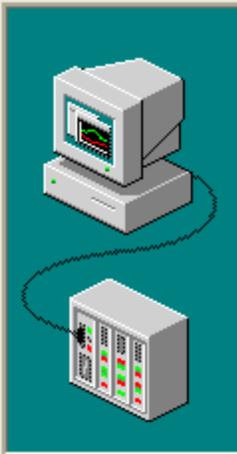
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Help

New Device - ID



The device you are defining may be multidropped as part of a network of devices. In order to communicate with the device, it must be assigned a unique ID.

Your documentation for the device may refer to this as a "Network ID" or "Network Address."

Device ID:

192.168.2.180

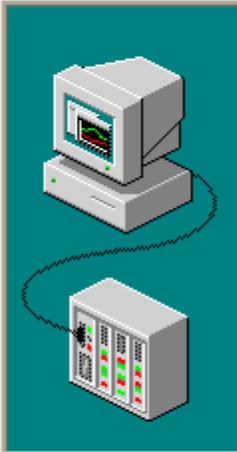
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Help

New Device - Timing



The device you are defining has communications timing parameters that you can configure.

Connect timeout: seconds

Request timeout: milliseconds

Fail after successive timeouts

Inter-request delay: milliseconds

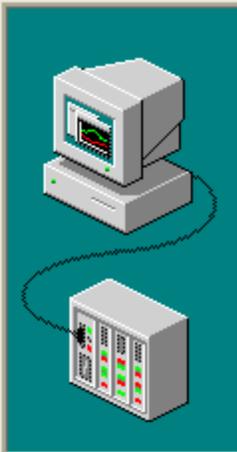
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Help

New Device - Auto-Demotion



You can demote a device for a specific period upon communications failures. During this time no read request (writes if applicable) will be sent to the device. Demoting a failed device will prevent stalling communications with other devices on the channel.

Enable auto device demotion on communication failures

Demote after successive failures

Demote for milliseconds

Discard write requests during the demotion period

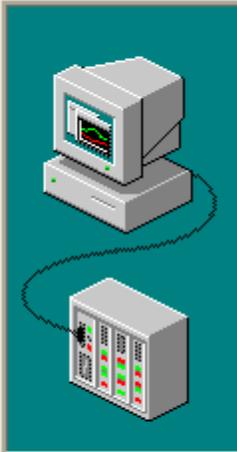
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Help

New Device - Communications Parameters



Set the TCP/IP port number the device is configured to use. The default port is 2222.

Select the ethernet protocol used by the device.

Set the request size in bytes. This determines the maximum number of bytes the driver can request in a transaction.

Port Number:

Protocol:

Request Size: Bytes

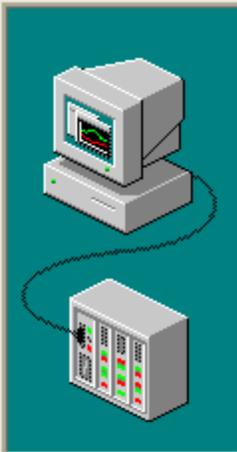
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Help

New Device - Protocol Parameters



For DF1 gateway applications, specify the node address of the destination device in question (e.g. DH+ or DH-485 node).

For non-DF1 gateway applications, enter 0 (Default).

Destination Node Address (DST):

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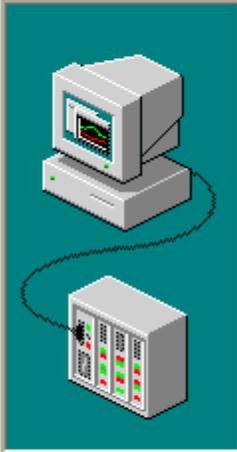
Next >

Cancel

Help

New Device - Summary

If the following settings are correct click 'Finish' to begin using the new device.



Name: EQ7000 to PLC5.ABETH
 Model: PLC-5 Family
 ID: 192.168.2.180

Connect Timeout: 3 Sec.
 Request Timeout: 1000 ms
 Fail after 3 attempts

Auto-Demotion: Disabled

Port Number: 2222
 Protocol: TCP/IP
 Request size in bytes: 512

Tag Properties

General | Scaling

Identification

Name: 

Address:  

Description: 

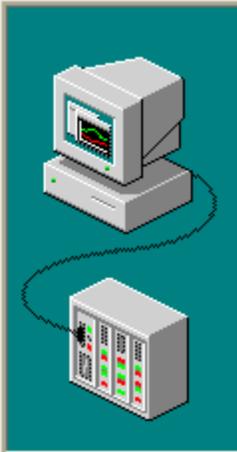
Data properties

Data type:

Client access:

Scan rate: milliseconds

New Channel - Identification



A channel name can be from 1 to 256 characters in length.

Names can not contain periods, double quotations or start with an underscore.

Channel name:

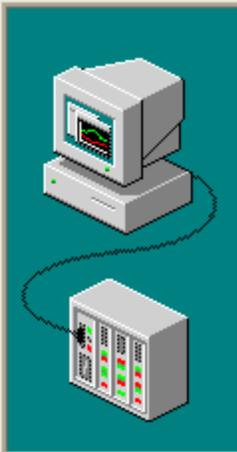
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Help

New Channel - Device Driver



Select the device driver you want to assign to the channel.

The drop-down list below contains the names of all the drivers that are installed on your system.

Device driver:

Enable diagnostics

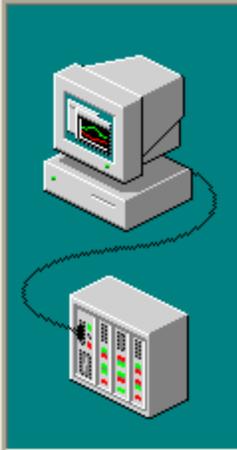
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Help

New Channel - Network Interface



This channel is configured to communicate over a network. You can select the network adapter that the driver should use from the list below.

Select 'Default' if you want the operating system to choose the network adapter for you.

Network Adapter:

Default

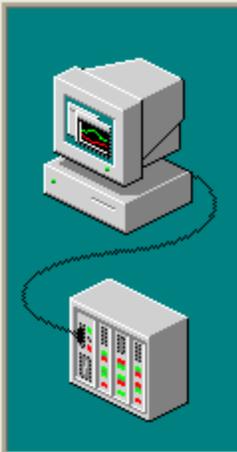
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Help

New Channel - Write Optimizations



You can control how the server processes writes on this channel. Set the optimization method and write-to-read duty cycle below.

Note: Writing only the latest value can affect batch processing or the equivalent.

Optimization Method

- Write all values for all tags
- Write only latest value for non-boolean tags
- Write only latest value for all tags

Duty Cycle

Perform 10 writes for every 1 read

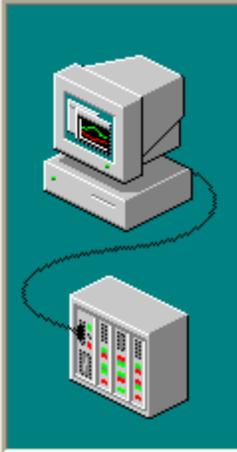
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Help

New Channel - Optimization Suggestions



To achieve maximum performance, there are a number of optimizations that must be employed when designing your server and controller application:

- Establish multiple connections with a single device by referencing this device from multiple channels
- Select the proper Protocol Mode
- Alias sub-structures
- Select the proper SOTS
- Use Logix Arrays whenever possible.

[Click Here For More Information](#)

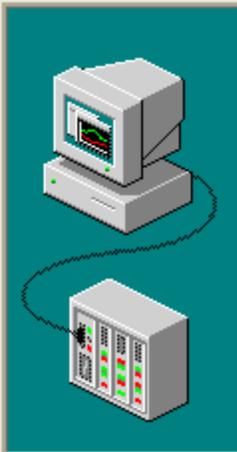
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Help

New Channel - Summary



If the following information is correct click 'Finish' to save the settings for the new channel.

Name: ControlLogix
Device Driver: ControlLogix Ethernet
Diagnostics: Disabled

Network Adapter:
Default

Write Optimization:
Write only latest value for all tags
10 writes per read

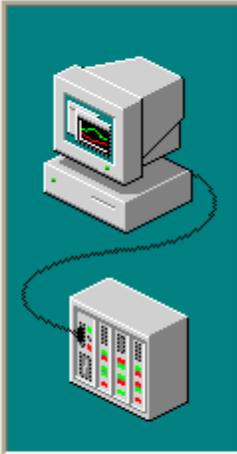
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Finish

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Help

New Device - Name



A device name can be from 1 to 256 characters in length.

Names can not contain periods, double quotations or start with an underscore.

Device name:

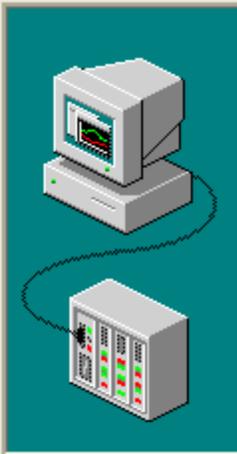
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Help

New Device - Model



The device you are defining uses a device driver that supports more than one model. The list below shows all supported models.

Select a model that best describes the device you are defining.

Device model:

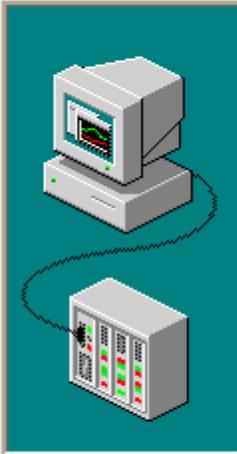
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Help

New Device - ID



The device you are defining may be multidropped as part of a network of devices. In order to communicate with the device, it must be assigned a unique ID.

Your documentation for the device may refer to this as a "Network ID" or "Network Address."

Device ID:

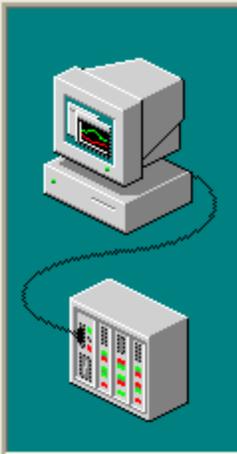
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Help

New Device - Timing



The device you are defining has communications timing parameters that you can configure.

Connect timeout: seconds

Request timeout: milliseconds

Fail after successive timeouts

Inter-request delay: milliseconds

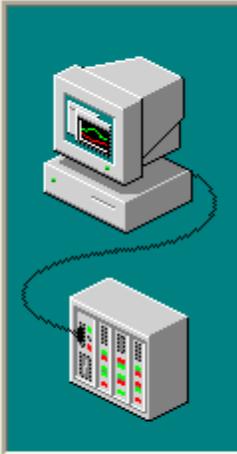
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Help

New Device - Auto-Demotion



You can demote a device for a specific period upon communications failures. During this time no read request (writes if applicable) will be sent to the device. Demoting a failed device will prevent stalling communications with other devices on the channel.

Enable auto device demotion on communication failures

Demote after successive failures

Demote for milliseconds

Discard write requests during the demotion period

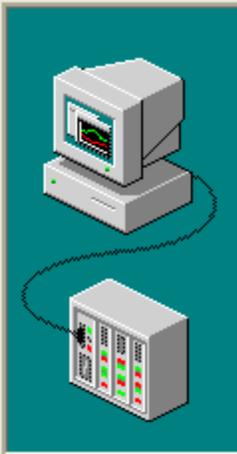
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Help

New Device - Database Creation



The device you are defining has the ability to automatically generate a tag database.

Determine if the device should create a database on startup, what action should be performed on previously generated tags, group to add tags to, and allowing subgroups.

Startup:

Action:

Add to group:

Allow automatically generated subgroups

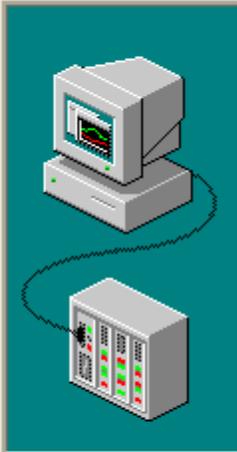
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Help

New Device - ENI DF1/DH+/CN Gtwy Communications Parameters



Set the TCP/IP port number the Logix gateway or ENI device is configured to use. Default port is 44818.

The Request Size determines the max number of bytes the driver can request in a transaction.

See Help for FF supporting Block Writes.

CL ENET Port Number:

Request Size: Bytes

Perform Block Writes for Function Files supporting Block Writes.

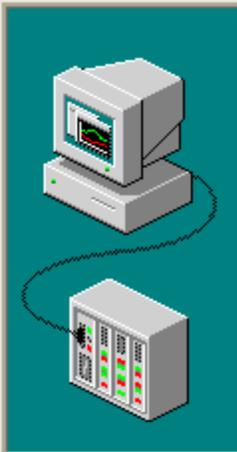
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Help

New Device - Summary



If the following settings are correct click 'Finish' to begin using the new device.

Name: CLX to PLC5 ETH IP
Model: DH+ Gateway: PLC-5
ID: 192.168.2.80,1,2.A.7

Connect Timeout: 3 Sec.
Request Timeout: 1000 ms
Fail after 3 attempts
Inter-Request Delay: 0 ms

Auto-Demotion: Disabled

Tag database startup: Do not generate on startup
Tag database action: Do not overwrite

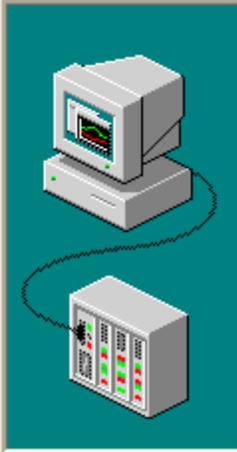
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Finish

Cancel

Help

New Channel - Identification



A channel name can be from 1 to 256 characters in length.

Names can not contain periods, double quotations or start with an underscore.

Channel name:

EQ7000 ETH IP

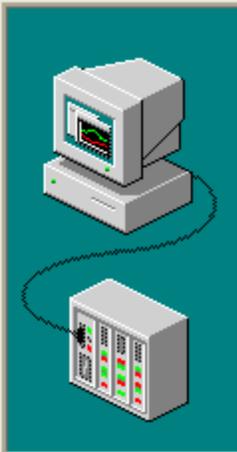
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Help

New Channel - Device Driver



Select the device driver you want to assign to the channel.

The drop-down list below contains the names of all the drivers that are installed on your system.

Device driver:

ControlLogix Ethernet

Enable diagnostics

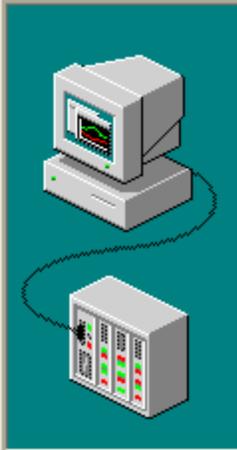
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Help

New Channel - Network Interface



This channel is configured to communicate over a network. You can select the network adapter that the driver should use from the list below.

Select 'Default' if you want the operating system to choose the network adapter for you.

Network Adapter:

Default

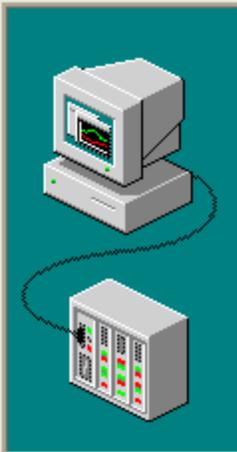
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Help

New Channel - Write Optimizations



You can control how the server processes writes on this channel. Set the optimization method and write-to-read duty cycle below.

Note: Writing only the latest value can affect batch processing or the equivalent.

Optimization Method

- Write all values for all tags
- Write only latest value for non-boolean tags
- Write only latest value for all tags

Duty Cycle

Perform 10 writes for every 1 read

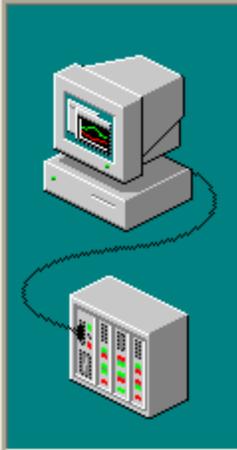
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Help

New Channel - Optimization Suggestions



To achieve maximum performance, there are a number of optimizations that must be employed when designing your server and controller application:

- Establish multiple connections with a single device by referencing this device from multiple channels
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- Alias sub-structures
- Select the proper SOTS
- Use Logix Arrays whenever possible.

[Click Here For More Information](#)

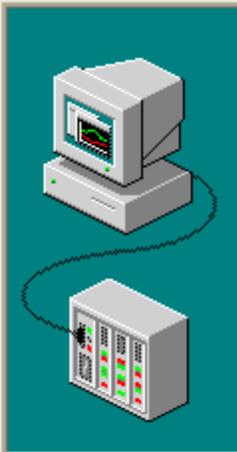
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Help

New Channel - Summary



If the following information is correct click 'Finish' to save the settings for the new channel.

Name: EQ7000 ETH IP
Device Driver: ControlLogix Ethernet
Diagnostics: Disabled

Network Adapter:
Default

Write Optimization:
Write only latest value for all tags
10 writes per read

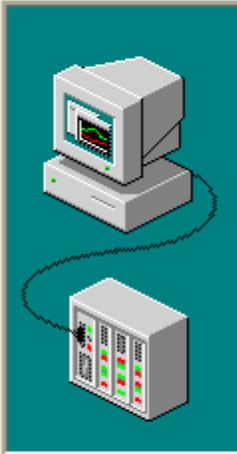
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Finish

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Help

New Device - Name



A device name can be from 1 to 256 characters in length.

Names can not contain periods, double quotations or start with an underscore.

Device name:

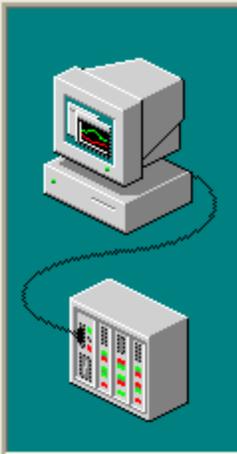
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New Device - Model



The device you are defining uses a device driver that supports more than one model. The list below shows all supported models.

Select a model that best describes the device you are defining.

Device model:

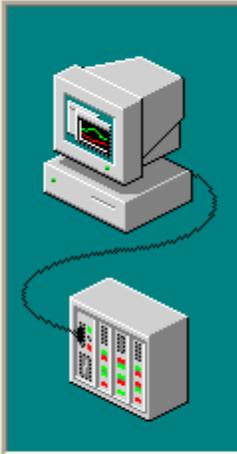
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New Device - ID



The device you are defining may be multidropped as part of a network of devices. In order to communicate with the device, it must be assigned a unique ID.

Your documentation for the device may refer to this as a "Network ID" or "Network Address."

Device ID:

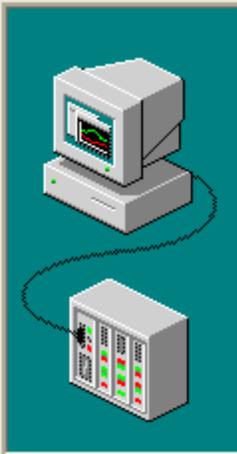
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New Device - Timing



The device you are defining has communications timing parameters that you can configure.

Connect timeout: seconds

Request timeout: milliseconds

Fail after successive timeouts

Inter-request delay: milliseconds

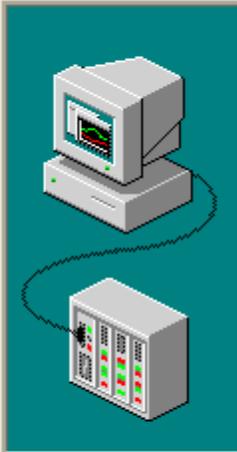
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Help

New Device - Auto-Demotion



You can demote a device for a specific period upon communications failures. During this time no read request (writes if applicable) will be sent to the device. Demoting a failed device will prevent stalling communications with other devices on the channel.

Enable auto device demotion on communication failures

Demote after successive failures

Demote for milliseconds

Discard write requests during the demotion period

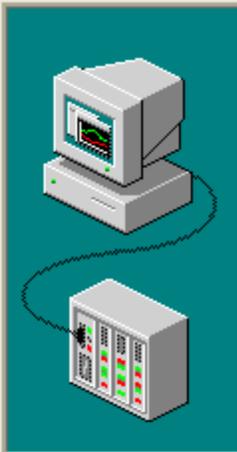
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Help

New Device - Database Creation



The device you are defining has the ability to automatically generate a tag database.

Determine if the device should create a database on startup, what action should be performed on previously generated tags, group to add tags to, and allowing subgroups.

Startup:

Action:

Add to group:

Allow automatically generated subgroups

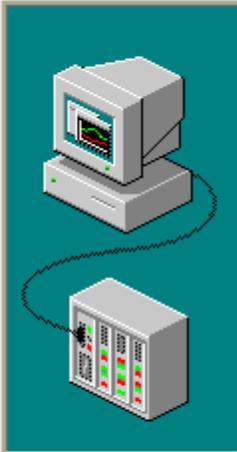
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Help

New Device - ENI DF1/DH+/CN Gtwy Communications Parameters



Set the TCP/IP port number the Logix gateway or ENI device is configured to use. Default port is 44818.

The Request Size determines the max number of bytes the driver can request in a transaction.

See Help for FF supporting Block Writes.

CL ENET Port Number:

Request Size: Bytes

Perform Block Writes for Function Files supporting Block Writes.

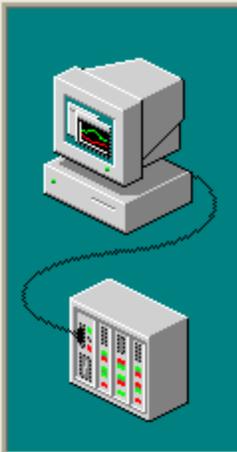
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Help

New Device - Summary



If the following settings are correct click 'Finish' to begin using the new device.

Name: EQ7000 to PLC5 ETH IP
Model: DH+ Gateway: PLC-5
ID: 192.168.2.180,0,0.A.7

Connect Timeout: 3 Sec.
Request Timeout: 1000 ms
Fail after 3 attempts
Inter-Request Delay: 0 ms

Auto-Demotion: Disabled

Tag database startup: Do not generate on startup
Tag database action: Do not overwrite

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Finish

Cancel

Help

