DL4500-EDH+ STD with IGS demo reading data from PLC5 using Ethernet Encapsulated DF1 driver.

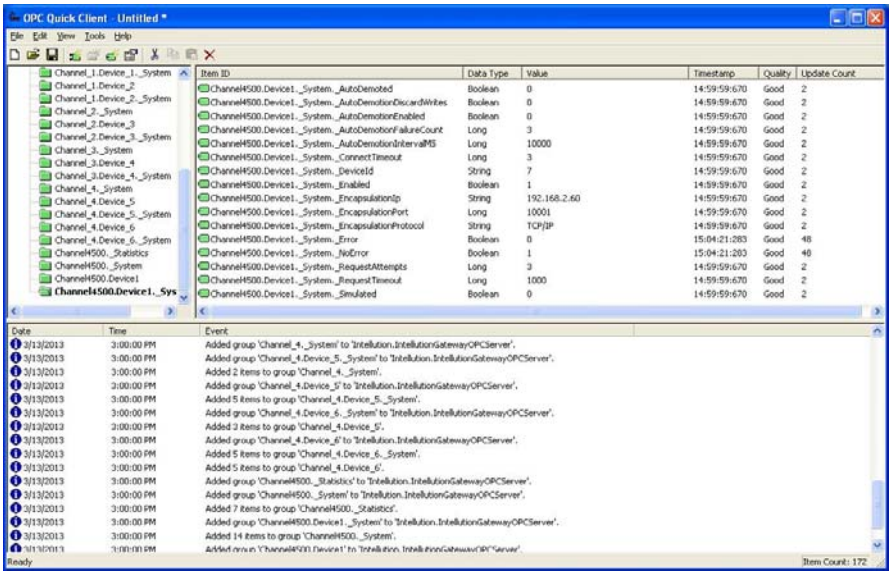
In this example we are reading 5 words from integer file 7 starting at word0

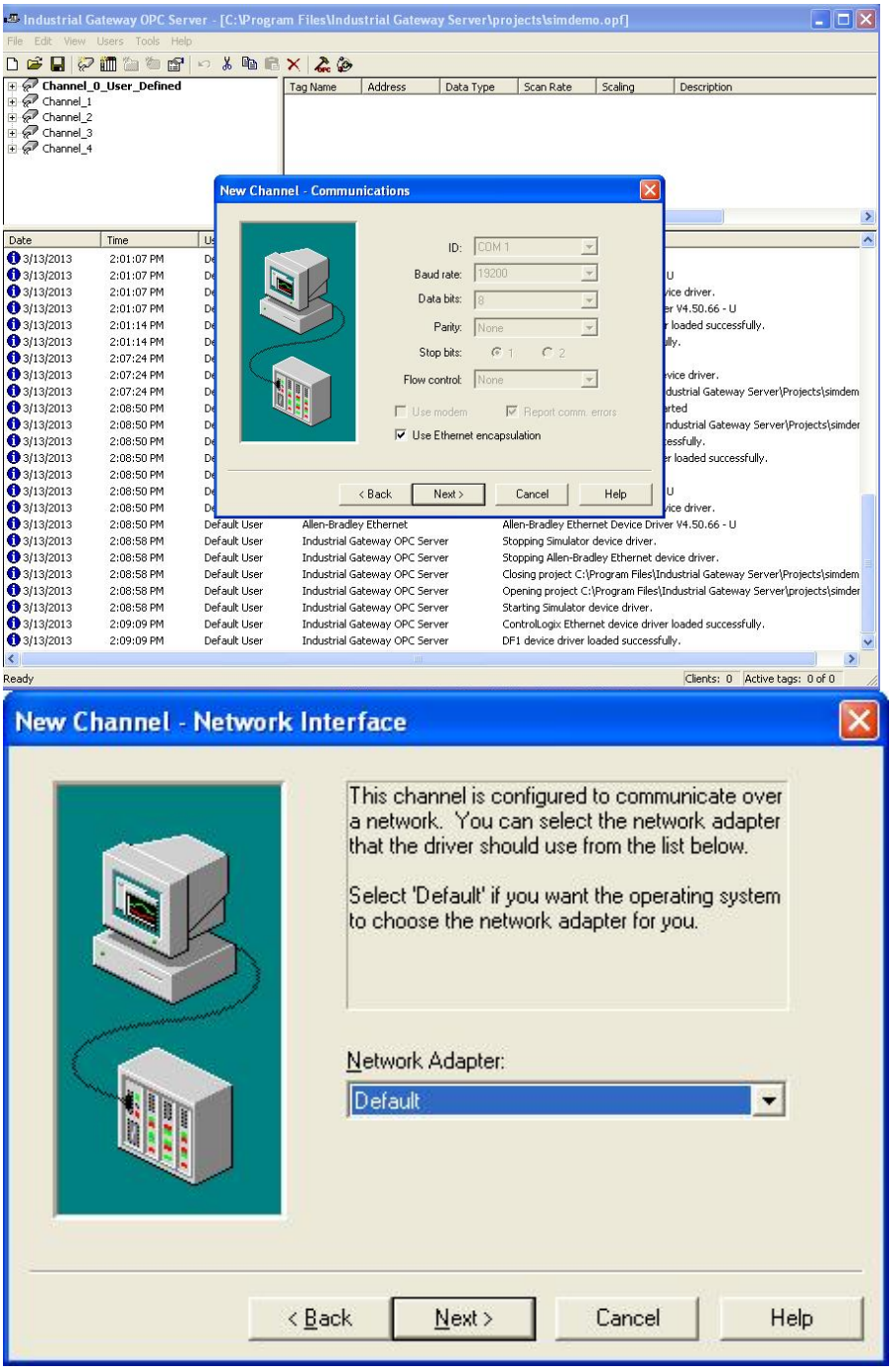
Also reading 5 words from floating file F8 starting at word 0.

IP address of the DL4500 is 192.168.2.60

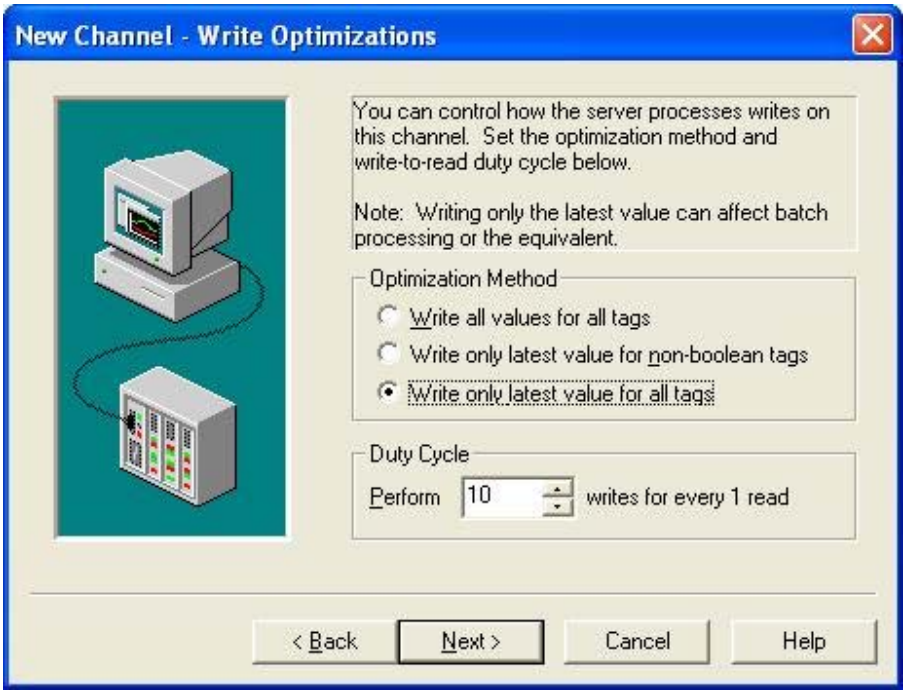
Node address of the DL4500 on DH+ is 60 decimal (last octet of the IP address).

Node address of the PLC5 on DH+ is 7 in this application need to be in decimal.

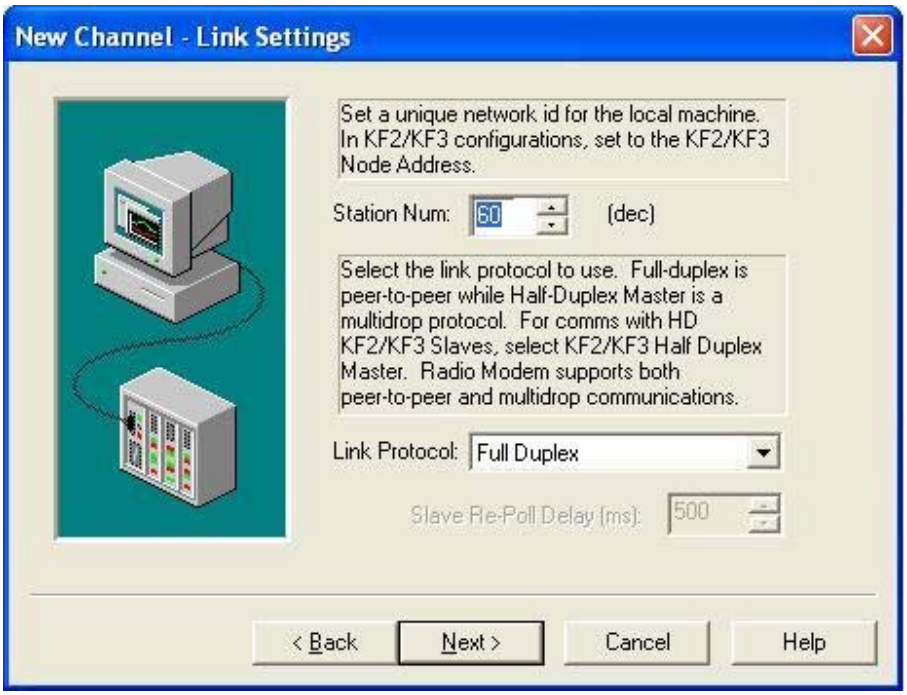


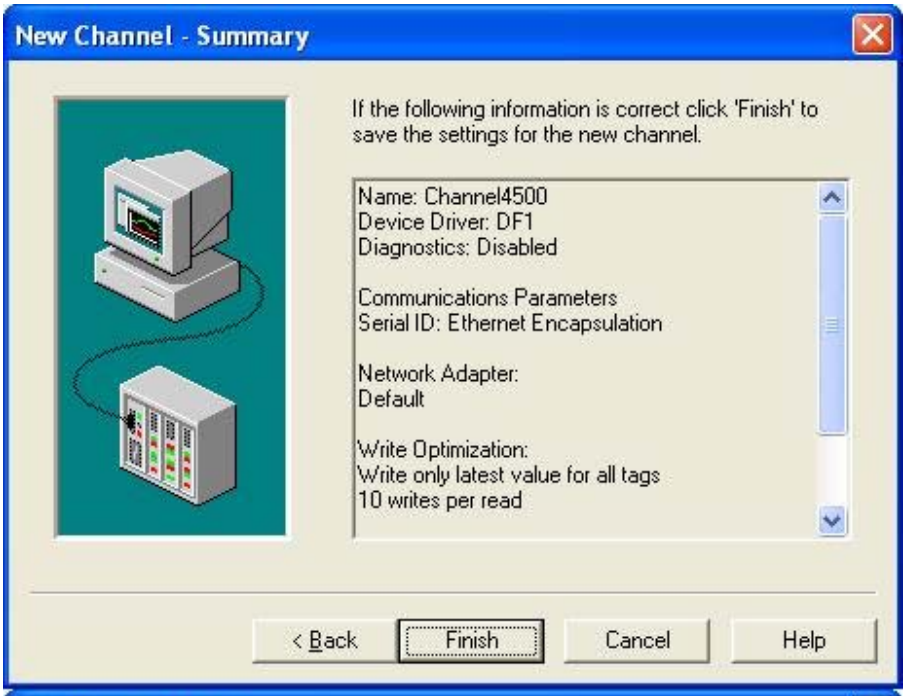

Industrial Gateway OPC Server - [C:\Program Files\Industrial Gateway Server\projects\simdemo.opf]
File Edit View Users Tools Help
Channel_0_User_Defined
Channel_1
Channel_2
Channel_3
Channel_4
Tag Name
Address
Data Type
Scan Rate
Scaling
Description
New Channel - Communications
ID: COM 1
Baud rate: 19200
Data bits: 8
Parity: None
Stop bits: 1 2
Flow control: None
Use modem
Report comm. errors
Use Ethernet encapsulation
< Back
Next >
Cancel
Help
Date
Time
3/13/2013 2:01:07 PM
3/13/2013 2:01:14 PM
3/13/2013 2:07:24 PM
3/13/2013 2:08:50 PM
3/13/2013 2:08:50 PM
3/13/2013 2:08:50 PM
3/13/2013 2:08:50 PM
3/13/2013 2:08:50 PM
3/13/2013 2:08:50 PM
3/13/2013 2:08:50 PM
3/13/2013 2:08:50 PM
3/13/2013 2:08:58 PM Default User Industrial Gateway OPC Server Stopping Simulator device driver.
3/13/2013 2:08:58 PM Default User Industrial Gateway OPC Server Stopping Allen-Bradley Ethernet device driver.
3/13/2013 2:08:58 PM Default User Industrial Gateway OPC Server Closing project C:\Program Files\Industrial Gateway Server\Projects\simdem
3/13/2013 2:08:58 PM Default User Industrial Gateway OPC Server Opening project C:\Program Files\Industrial Gateway Server\projects\simder
3/13/2013 2:08:58 PM Default User Industrial Gateway OPC Server Starting Simulator device driver.
3/13/2013 2:09:09 PM Default User Industrial Gateway OPC Server ControlLogix Ethernet device driver loaded successfully.
3/13/2013 2:09:09 PM Default User Industrial Gateway OPC Server DF1 device driver loaded successfully.
Default User Allen-Bradley Ethernet Allen-Bradley Ethernet Device Driver V4.50.66 - U
Ready
Clients: 0
Active tags: 0 of 0

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
< Back
Next >
Cancel
Help

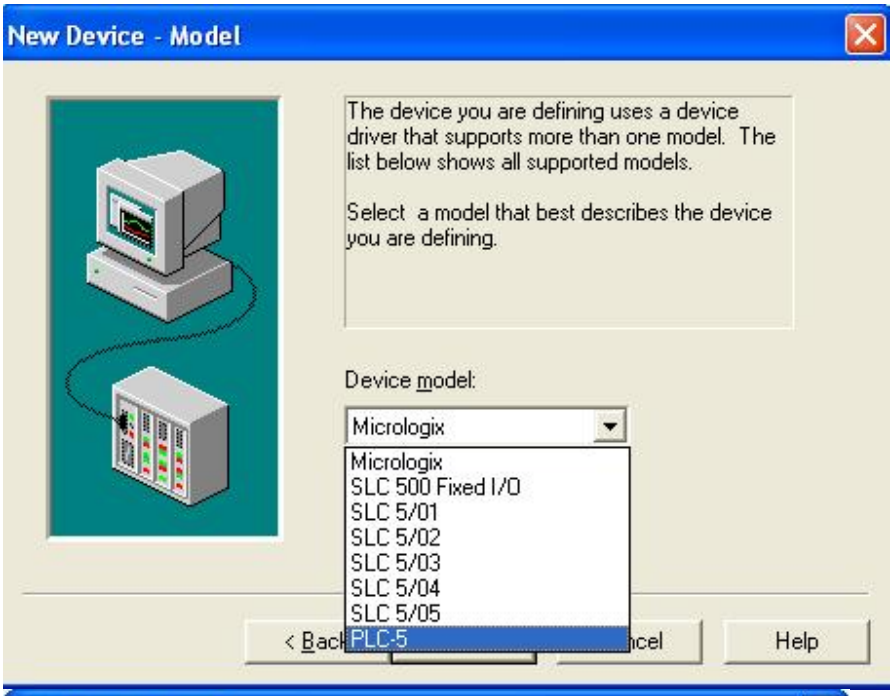


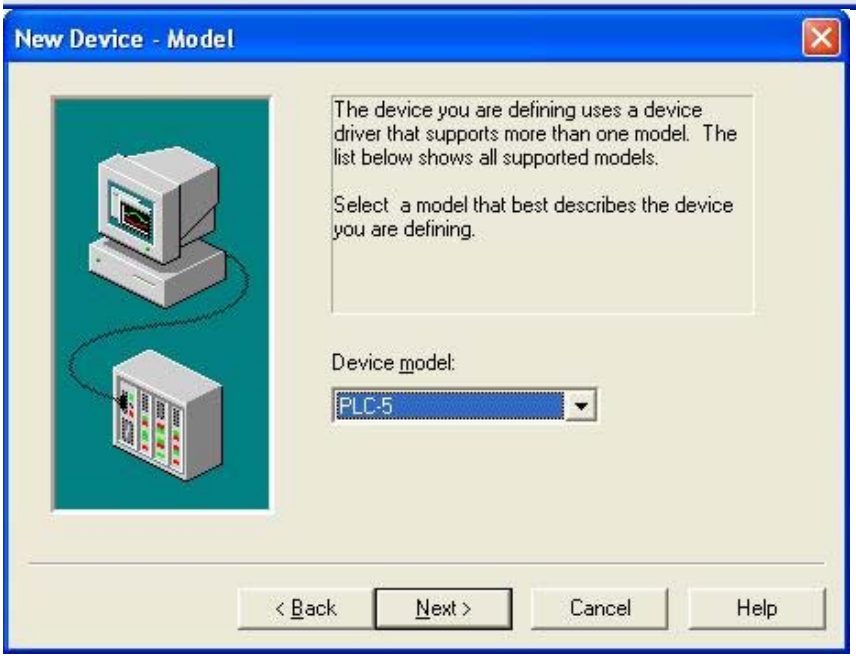
Node address of the DL4500 on DH+ network is its last Octet in decimal, here it is 60.



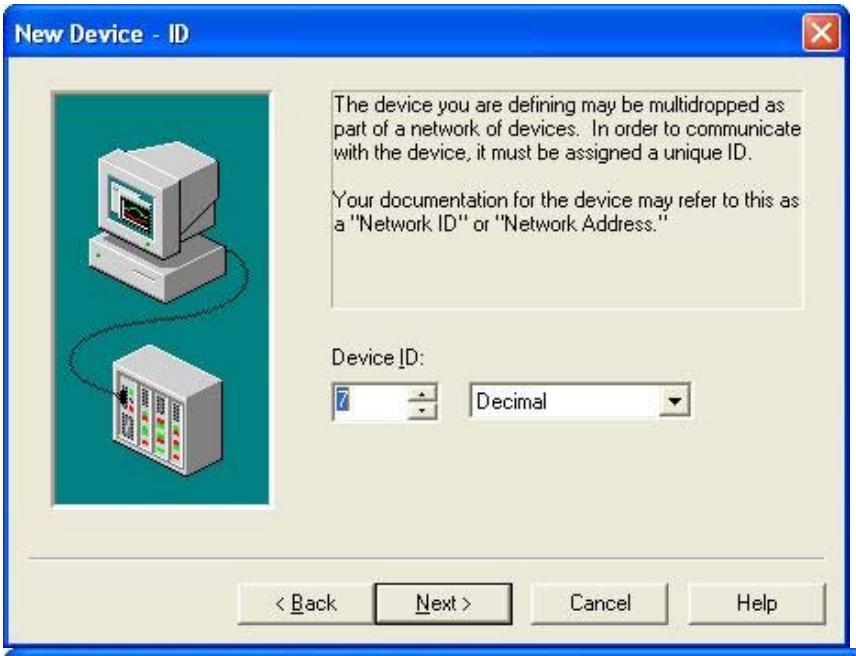

New Channel - Summary
If the following information is correct click 'Finish' to save the settings for the new channel.
Name: Channel4500
Device Driver: DF1
Diagnostics: Disabled
Communications Parameters
Serial ID: Ethernet Encapsulation
Network Adapter:
Default
Write Optimization:
Write only latest value for all tags
10 writes per read
< Back
Finish
Cancel
Help

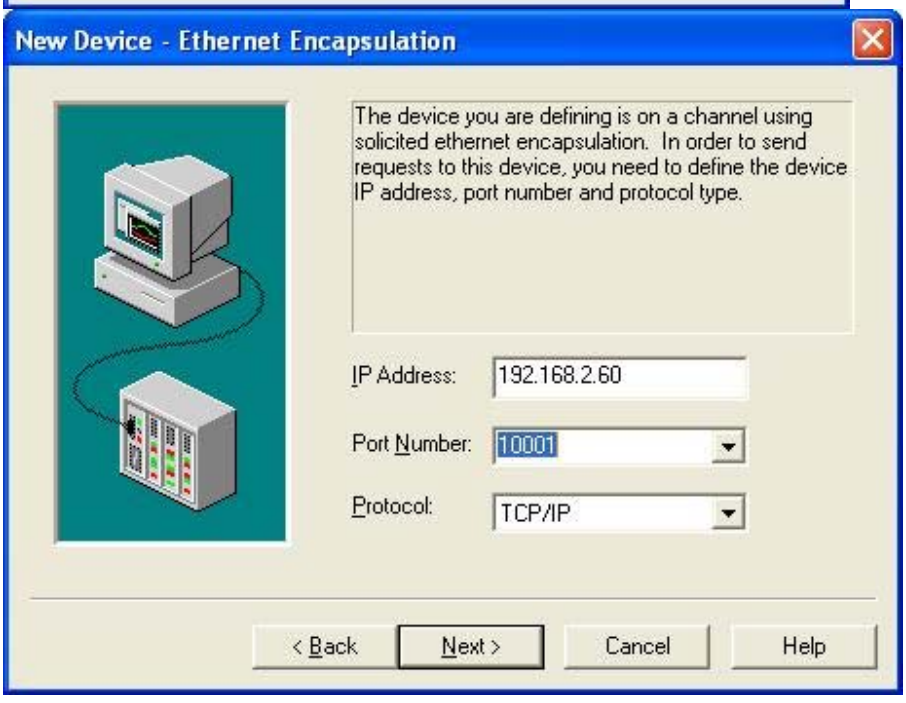
New Device - Name
A device name can be from 1 to 256 characters in length.
Names can not contain periods, double quotations or start with an underscore.
Device name:
Device1
< Back
Next >
Cancel
Help

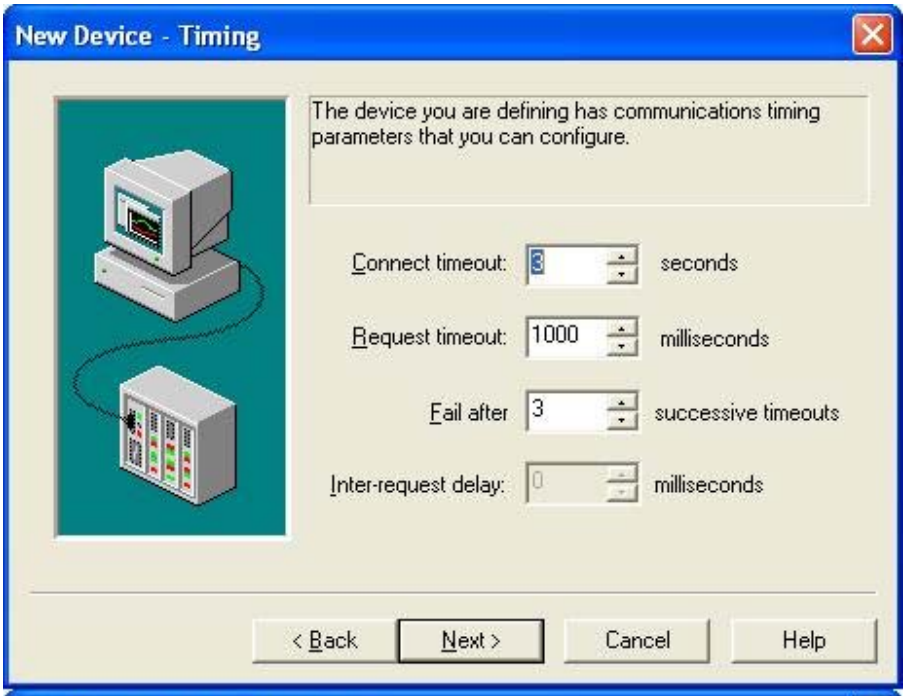

New Device - Model
The device you are defining uses a device driver that supports more than one model. The list below shows all supported models.
Select a model that best describes the device you are defining.
Device model:
Micrologix
Micrologix
SLC 500 Fixed I/O
SLC 5/01
SLC 5/02
SLC 5/03
SLC 5/04
SLC 5/05
PLC-5
Help

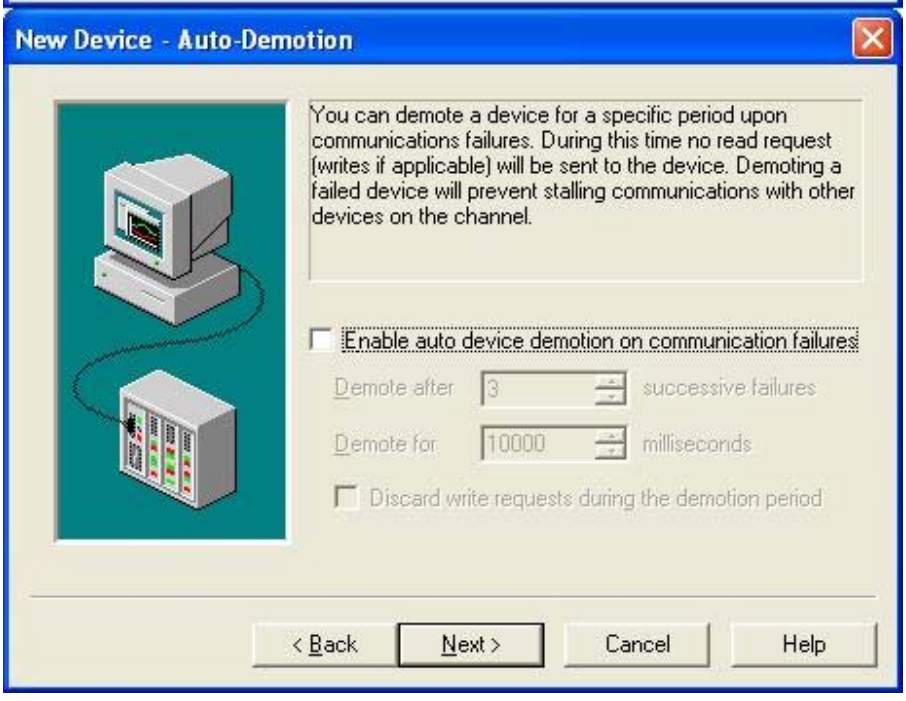

New Device - Model
The device you are defining uses a device driver that supports more than one model. The list below shows all supported models.
Select a model that best describes the device you are defining.
Device model:
PLC-5
< Back
Next >
Cancel
Help

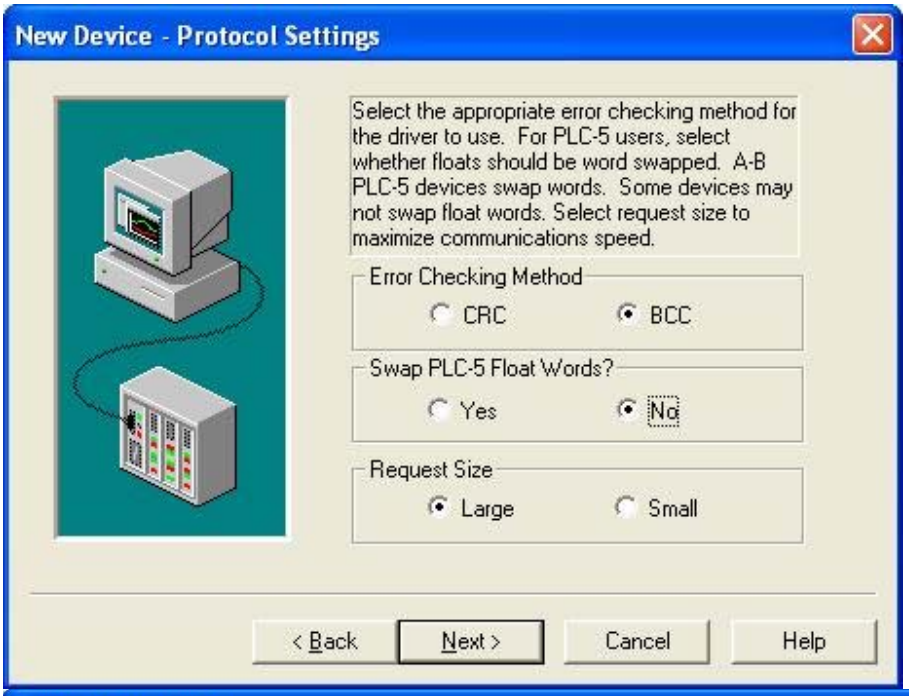
Here Node address of the PLC5 is 7 please note that this should be in decimal.

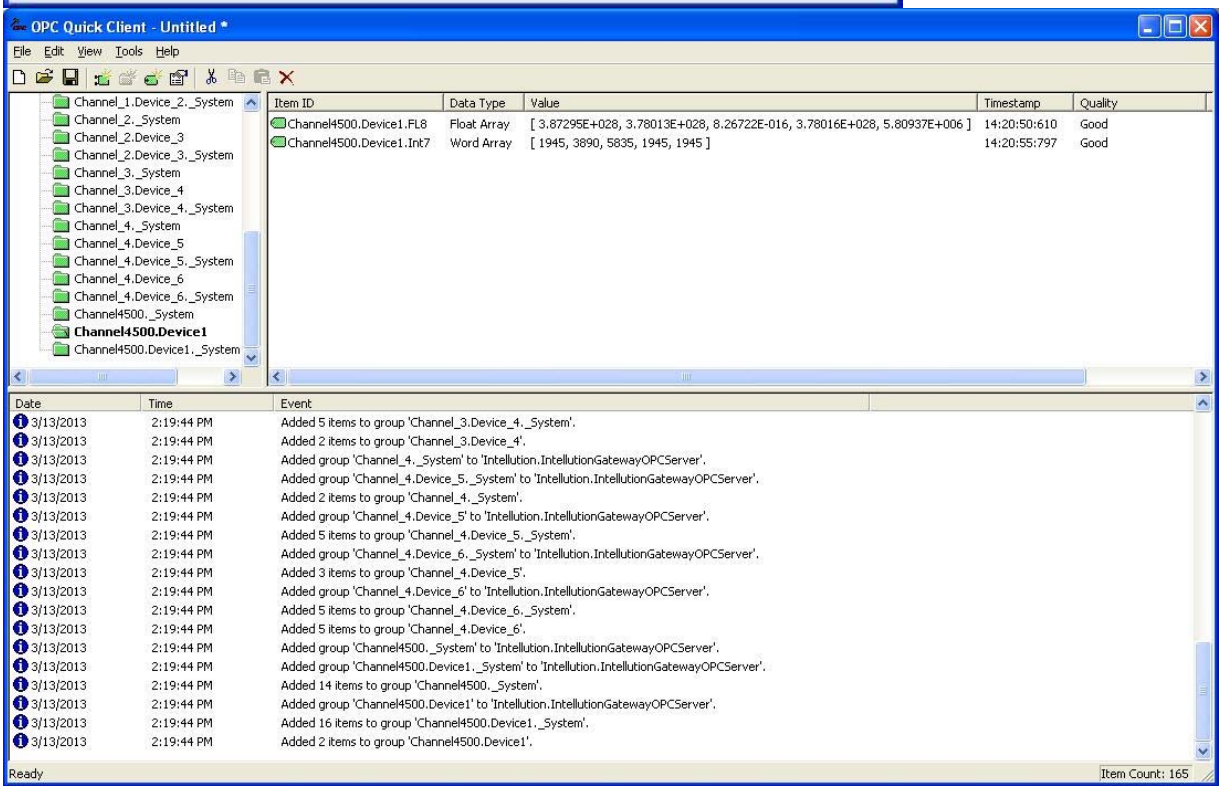


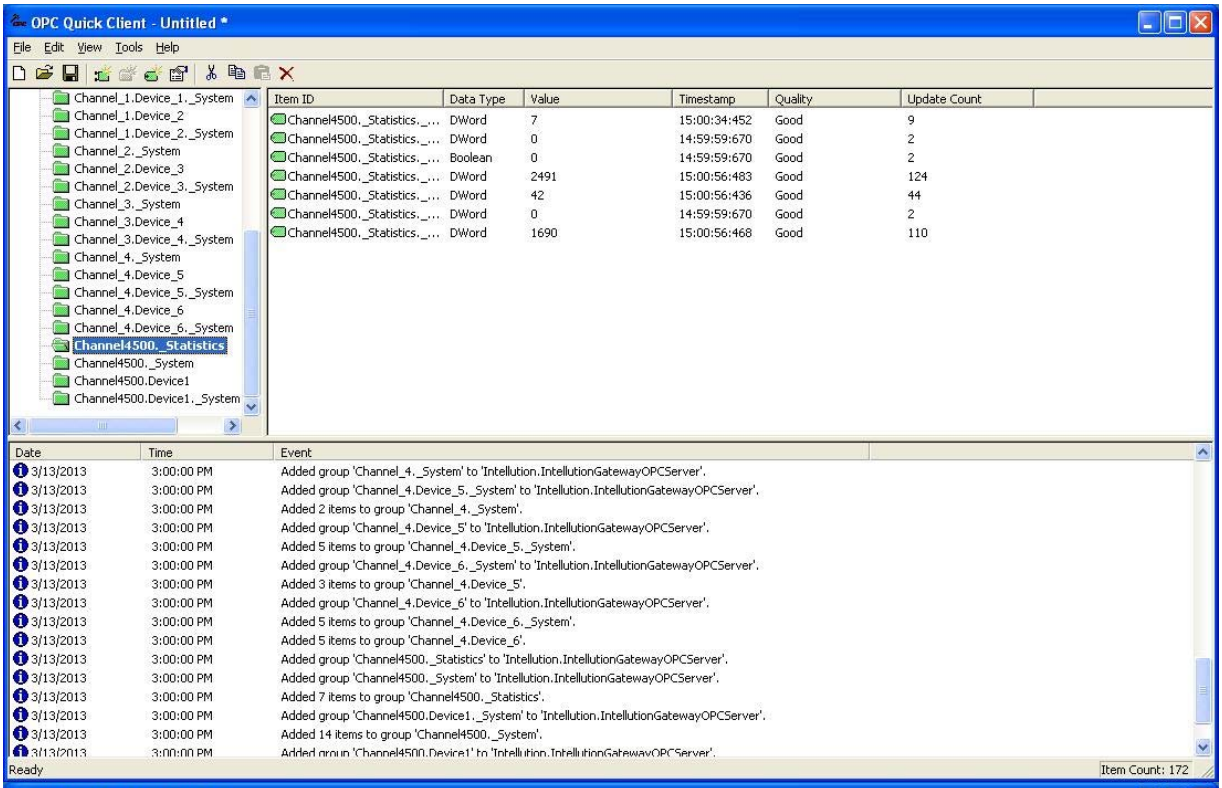


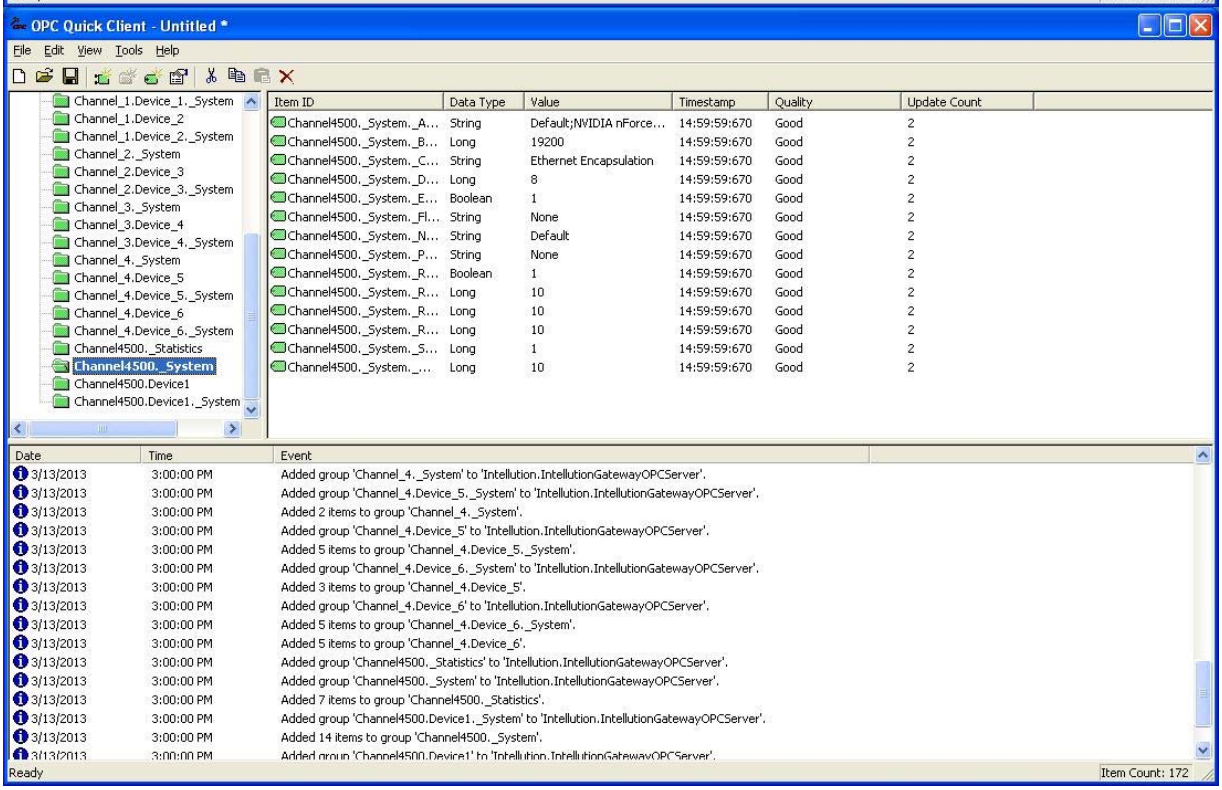

New Device - Timing
The device you are defining has communications timing parameters that you can configure.
Connect timeout:
3
seconds
Request timeout:
1000
milliseconds
Fail after
3
successive timeouts
Inter-request delay:
0
milliseconds
< Back
Next >
Cancel
Help

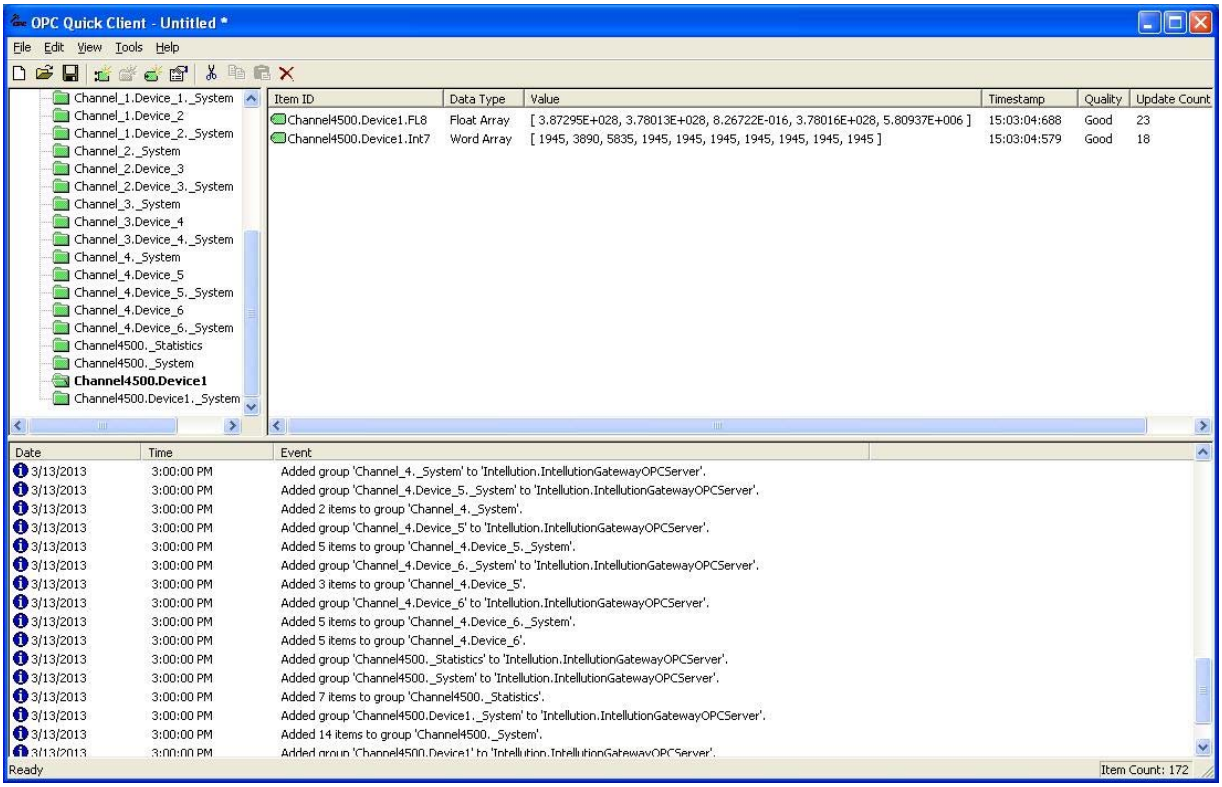

New Device - Auto-Demotion
You can demote a device for a specific period upon communications failures. During this time no read request (writes if applicable) will be sent to the device. Demoting a failed device will prevent stalling communications with other devices on the channel.
Enable auto device demotion on communication failures
Demote after
3
successive failures
Demote for
10000
milliseconds
Discard write requests during the demotion period
< Back
Next >
Cancel
Help


New Device - Protocol Settings
Select the appropriate error checking method for the driver to use. For PLC-5 users, select whether floats should be word swapped. A-B PLC-5 devices swap words. Some devices may not swap float words. Select request size to maximize communications speed.
Error Checking Method
CRC
BCC
Swap PLC-5 Float Words?
Yes
No
Request Size
Large
Small
< Back
Next >
Cancel
Help


OPC Quick Client - Untitled *
File Edit View Tools Help
Channel_1.Device_2._System
Channel_2._System
Channel_2.Device_3
Channel_2.Device_3._System
Channel_3._System
Channel_3.Device_4
Channel_3.Device_4._System
Channel_4._System
Channel_4.Device_5
Channel_4.Device_5._System
Channel_4.Device_6
Channel_4.Device_6._System
Channel4500._System
Channel4500.Device1
Channel4500.Device1._System
Item ID
Data Type
Value
Timestamp
Quality
Channel4500.Device1.FL8
Float Array
[3.87295E+028, 3.78013E+028, 8.26722E-016, 3.78016E+028, 5.80937E+006]
14:20:50:610
Good
Channel4500.Device1.Int7
Word Array
[1945, 3890, 5835, 1945, 1945]
14:20:55:797
Good
Date
Time
Event
3/13/2013 2:19:44 PM Added 5 items to group 'Channel_3.Device_4._System'.
3/13/2013 2:19:44 PM Added 2 items to group 'Channel_3.Device_4'.
3/13/2013 2:19:44 PM Added group 'Channel_4._System' to 'Intellution.IntellutionGatewayOPCServer'.
3/13/2013 2:19:44 PM Added group 'Channel_4.Device_5._System' to 'Intellution.IntellutionGatewayOPCServer'.
3/13/2013 2:19:44 PM Added 2 items to group 'Channel_4._System'.
3/13/2013 2:19:44 PM Added group 'Channel_4.Device_5' to 'Intellution.IntellutionGatewayOPCServer'.
3/13/2013 2:19:44 PM Added 5 items to group 'Channel_4.Device_5._System'.
3/13/2013 2:19:44 PM Added group 'Channel_4.Device_6._System' to 'Intellution.IntellutionGatewayOPCServer'.
3/13/2013 2:19:44 PM Added 3 items to group 'Channel_4.Device_5'.
3/13/2013 2:19:44 PM Added group 'Channel_4.Device_6' to 'Intellution.IntellutionGatewayOPCServer'.
3/13/2013 2:19:44 PM Added 5 items to group 'Channel_4.Device_6._System'.
3/13/2013 2:19:44 PM Added 5 items to group 'Channel_4.Device_6'.
3/13/2013 2:19:44 PM Added group 'Channel4500._System' to 'Intellution.IntellutionGatewayOPCServer'.
3/13/2013 2:19:44 PM Added group 'Channel4500.Device1._System' to 'Intellution.IntellutionGatewayOPCServer'.
3/13/2013 2:19:44 PM Added 14 items to group 'Channel4500._System'.
3/13/2013 2:19:44 PM Added group 'Channel4500.Device1' to 'Intellution.IntellutionGatewayOPCServer'.
3/13/2013 2:19:44 PM Added 16 items to group 'Channel4500.Device1._System'.
3/13/2013 2:19:44 PM Added 2 items to group 'Channel4500.Device1'.
Ready
Item Count: 165


OPC Quick Client - Untitled *
File Edit View Tools Help
Channel_1.Device_1._System
Channel_1.Device_2
Channel_1.Device_2._System
Channel_2._System
Channel_2.Device_3
Channel_2.Device_3._System
Channel_3._System
Channel_3.Device_4
Channel_3.Device_4._System
Channel_4._System
Channel_4.Device_5
Channel_4.Device_5._System
Channel_4.Device_6
Channel_4.Device_6._System
Channel4500._Statistics
Channel4500._System
Channel4500.Device1
Channel4500.Device1._System
Item ID | Data Type | Value | Timestamp | Quality | Update Count
Channel4500._Statistics._... | DWord | 7 | 15:00:34:452 | Good | 9
Channel4500._Statistics._... | DWord | 0 | 14:59:59:670 | Good | 2
Channel4500._Statistics._... | Boolean | 0 | 14:59:59:670 | Good | 2
Channel4500._Statistics._... | DWord | 2491 | 15:00:56:483 | Good | 124
Channel4500._Statistics._... | DWord | 42 | 15:00:56:436 | Good | 44
Channel4500._Statistics._... | DWord | 0 | 14:59:59:670 | Good | 2
Channel4500._Statistics._... | DWord | 1690 | 15:00:56:468 | Good | 110
Date | Time | Event
3/13/2013 | 3:00:00 PM | Added group 'Channel_4._System' to 'Intellution.IntellutionGatewayOPCServer'.
3/13/2013 | 3:00:00 PM | Added group 'Channel_4.Device_5._System' to 'Intellution.IntellutionGatewayOPCServer'.
3/13/2013 | 3:00:00 PM | Added 2 items to group 'Channel_4._System'.
3/13/2013 | 3:00:00 PM | Added group 'Channel_4.Device_5' to 'Intellution.IntellutionGatewayOPCServer'.
3/13/2013 | 3:00:00 PM | Added 5 items to group 'Channel_4.Device_5._System'.
3/13/2013 | 3:00:00 PM | Added group 'Channel_4.Device_6._System' to 'Intellution.IntellutionGatewayOPCServer'.
3/13/2013 | 3:00:00 PM | Added 3 items to group 'Channel_4.Device_5'.
3/13/2013 | 3:00:00 PM | Added group 'Channel_4.Device_6' to 'Intellution.IntellutionGatewayOPCServer'.
3/13/2013 | 3:00:00 PM | Added 5 items to group 'Channel_4.Device_6._System'.
3/13/2013 | 3:00:00 PM | Added 5 items to group 'Channel_4.Device_6'.
3/13/2013 | 3:00:00 PM | Added group 'Channel4500._Statistics' to 'Intellution.IntellutionGatewayOPCServer'.
3/13/2013 | 3:00:00 PM | Added group 'Channel4500._System' to 'Intellution.IntellutionGatewayOPCServer'.
3/13/2013 | 3:00:00 PM | Added 7 items to group 'Channel4500._Statistics'.
3/13/2013 | 3:00:00 PM | Added group 'Channel4500.Device1._System' to 'Intellution.IntellutionGatewayOPCServer'.
3/13/2013 | 3:00:00 PM | Added 14 items to group 'Channel4500._System'.
Ready
Item Count: 172


OPC Quick Client - Untitled *
File Edit View Tools Help
Channel_1.Device_1._System
Channel_1.Device_2
Channel_1.Device_2._System
Channel_2._System
Channel_2.Device_3
Channel_2.Device_3._System
Channel_3._System
Channel_3.Device_4
Channel_3.Device_4._System
Channel_4._System
Channel_4.Device_5
Channel_4.Device_5._System
Channel_4.Device_6
Channel_4.Device_6._System
Channel4500._Statistics
Channel4500._System
Channel4500.Device1
Channel4500.Device1._System
Item ID | Data Type | Value | Timestamp | Quality | Update Count
Channel4500._System._A... | String | Default;NVIDIA nForce... | 14:59:59:670 | Good | 2
Channel4500._System._B... | Long | 19200 | 14:59:59:670 | Good | 2
Channel4500._System._C... | String | Ethernet Encapsulation | 14:59:59:670 | Good | 2
Channel4500._System._D... | Long | 8 | 14:59:59:670 | Good | 2
Channel4500._System._E... | Boolean | 1 | 14:59:59:670 | Good | 2
Channel4500._System._Fl... | String | None | 14:59:59:670 | Good | 2
Channel4500._System._N... | String | Default | 14:59:59:670 | Good | 2
Channel4500._System._P... | String | None | 14:59:59:670 | Good | 2
Channel4500._System._R... | Boolean | 1 | 14:59:59:670 | Good | 2
Channel4500._System._R... | Long | 10 | 14:59:59:670 | Good | 2
Channel4500._System._R... | Long | 10 | 14:59:59:670 | Good | 2
Channel4500._System._R... | Long | 10 | 14:59:59:670 | Good | 2
Channel4500._System._S... | Long | 1 | 14:59:59:670 | Good | 2
Channel4500._System._... | Long | 10 | 14:59:59:670 | Good | 2
Date | Time | Event
3/13/2013 | 3:00:00 PM | Added group 'Channel_4._System' to 'Intellution.IntellutionGatewayOPCServer'.
3/13/2013 | 3:00:00 PM | Added group 'Channel_4.Device_5._System' to 'Intellution.IntellutionGatewayOPCServer'.
3/13/2013 | 3:00:00 PM | Added 2 items to group 'Channel_4._System'.
3/13/2013 | 3:00:00 PM | Added group 'Channel_4.Device_5' to 'Intellution.IntellutionGatewayOPCServer'.
3/13/2013 | 3:00:00 PM | Added 5 items to group 'Channel_4.Device_5._System'.
3/13/2013 | 3:00:00 PM | Added group 'Channel_4.Device_6._System' to 'Intellution.IntellutionGatewayOPCServer'.
3/13/2013 | 3:00:00 PM | Added 3 items to group 'Channel_4.Device_5'.
3/13/2013 | 3:00:00 PM | Added group 'Channel_4.Device_6' to 'Intellution.IntellutionGatewayOPCServer'.
3/13/2013 | 3:00:00 PM | Added 5 items to group 'Channel_4.Device_6._System'.
3/13/2013 | 3:00:00 PM | Added 5 items to group 'Channel_4.Device_6'.
3/13/2013 | 3:00:00 PM | Added group 'Channel4500._Statistics' to 'Intellution.IntellutionGatewayOPCServer'.
3/13/2013 | 3:00:00 PM | Added group 'Channel4500._System' to 'Intellution.IntellutionGatewayOPCServer'.
3/13/2013 | 3:00:00 PM | Added 7 items to group 'Channel4500._Statistics'.
3/13/2013 | 3:00:00 PM | Added group 'Channel4500.Device1._System' to 'Intellution.IntellutionGatewayOPCServer'.
3/13/2013 | 3:00:00 PM | Added 14 items to group 'Channel4500._System'.
Ready
Item Count: 172



For DL4500 STD Telnet settings please see in the link below or just search on YouTube DL4500.

http://www.youtube.com/watch?v=CiM_fG98drs