APPLICATION NOTE

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Product Family: **GS Drives**

Number: AN-GS-012

Date Issued: 8/20/03

Revision: Original

Subject: An Automation Direct GS-EDRV (GS series AC drive Ethernet Interface) is to be used to gain access to drive parameters for monitoring and control via KEPdirect software.

Specifications:

Drive network:	1 x GS2-XXXX 1 x GS-EDRV
PC's:	standard network pc
Software:	PC-KEPEBC-3

Application:

KEPdirect now allows the user a direct line into the drive parameter group just like an Ethernet field I/O drop. Control or monitor from any OPC/DDE compliant third party software like Wonderware, iFix, Cimplicity, NI Lookout, and NI Labview to name just a few of the endless connectivity possibilities.

Imagine installing a drive on a piece of machinery new or old and being able to pipe information directly into your condition monitoring portion of CMMS or Asset management software. Take a look at the following application note for more information.
http://support.automationdirect.com/docs/an-dsd-004.pdf

The automatic tag generation with intuitive drive tag names takes the guess work out of mapping. This will cut down development and deployment time.

Basic Drive Communication parameter setting:

GS2-43P0	DEFAULT	NEW	COMMENTS
P3.00	0	3	RS485 operation control enabled
P4.00	0	5	RS485 speed reference control
P9.00	1	X(1)	Communication address
P9.01	1	1	9600 Baud rate
P9.02	0	5	MODBUS RTU 8 data bits, odd parity, 1 stop bit

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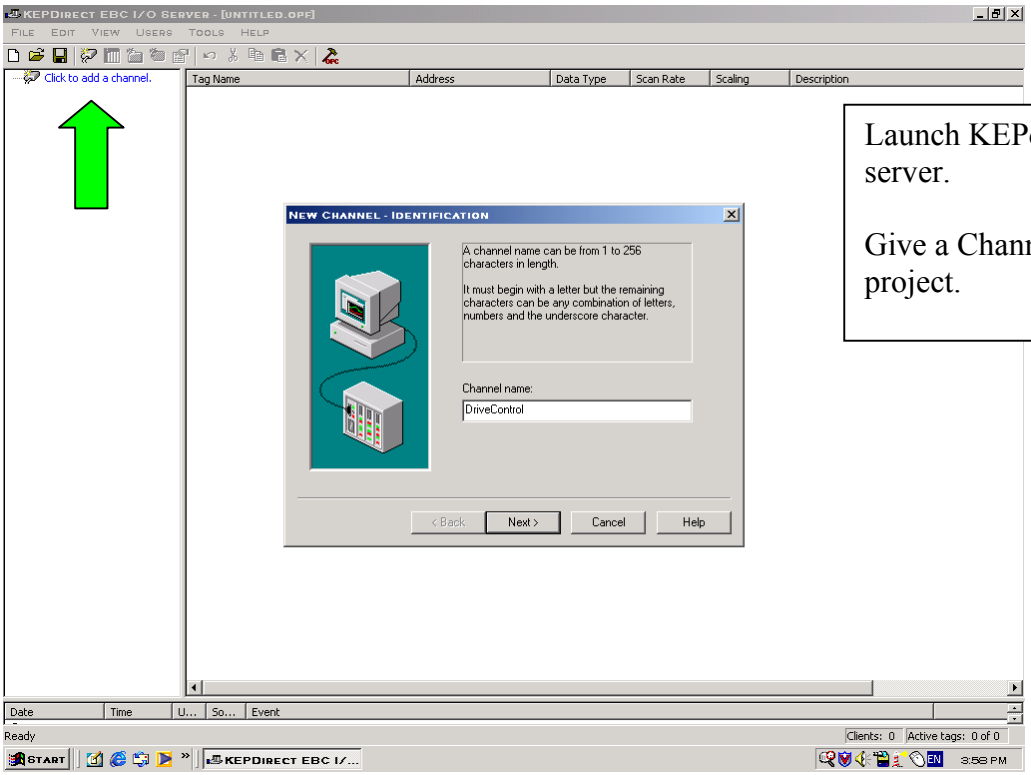
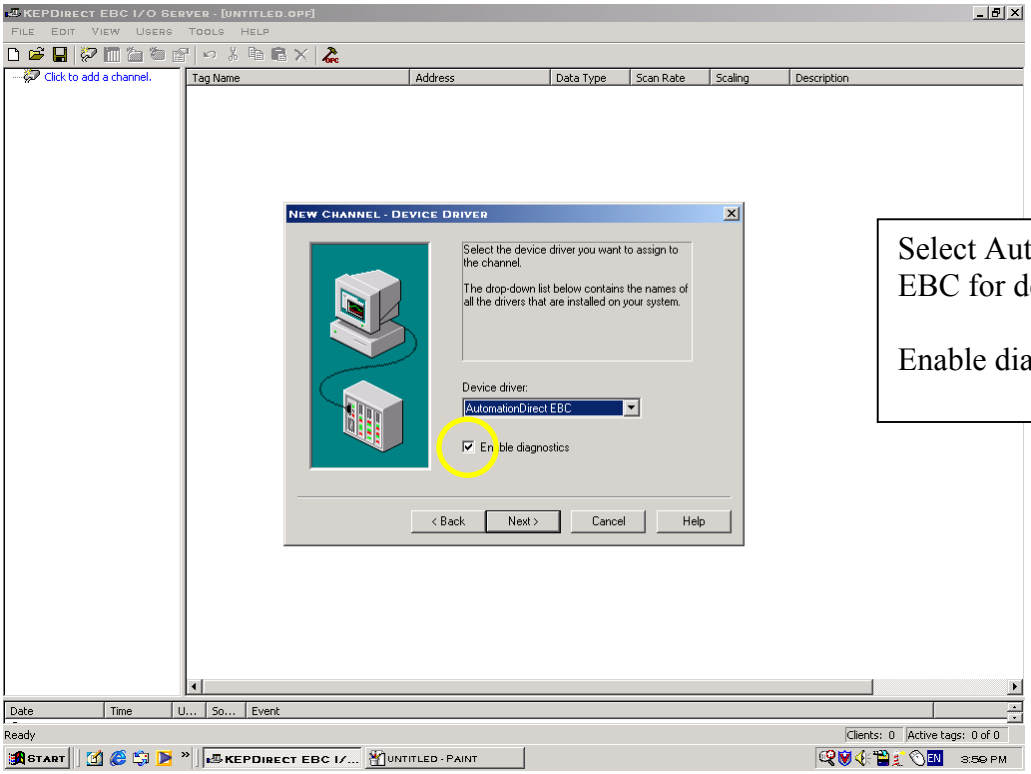


Launch KEPdirect EBC I/O server.

Give a Channel name for your project.



Select AutomationDirect EBC for device driver.

Enable diagnostics.

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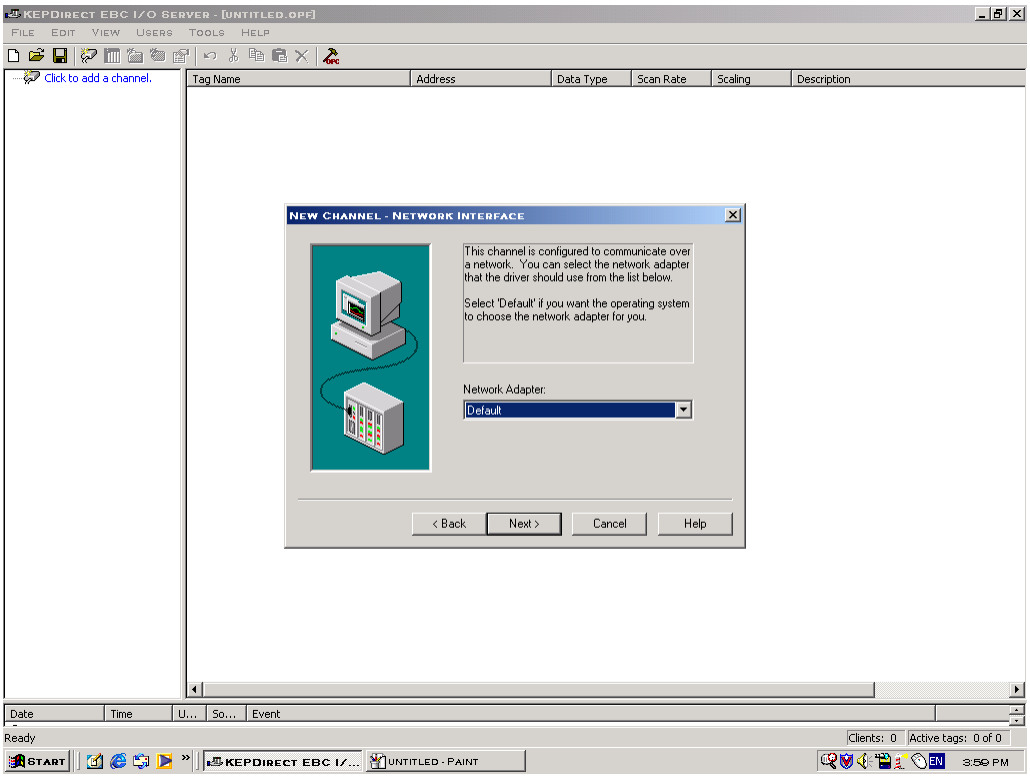

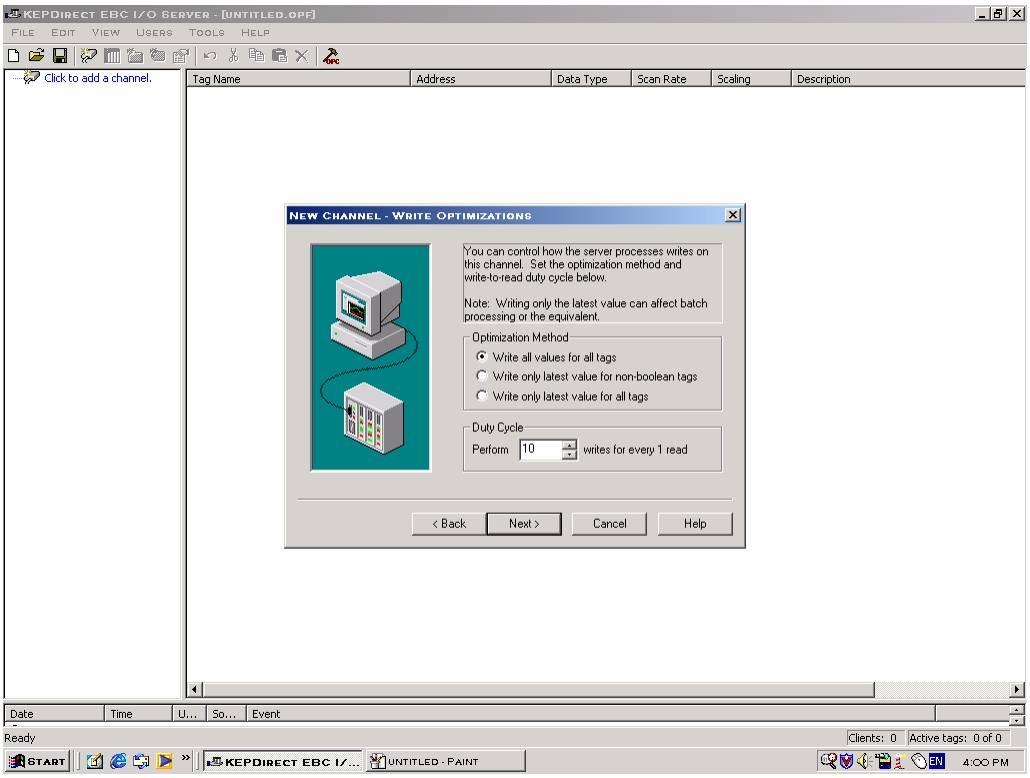

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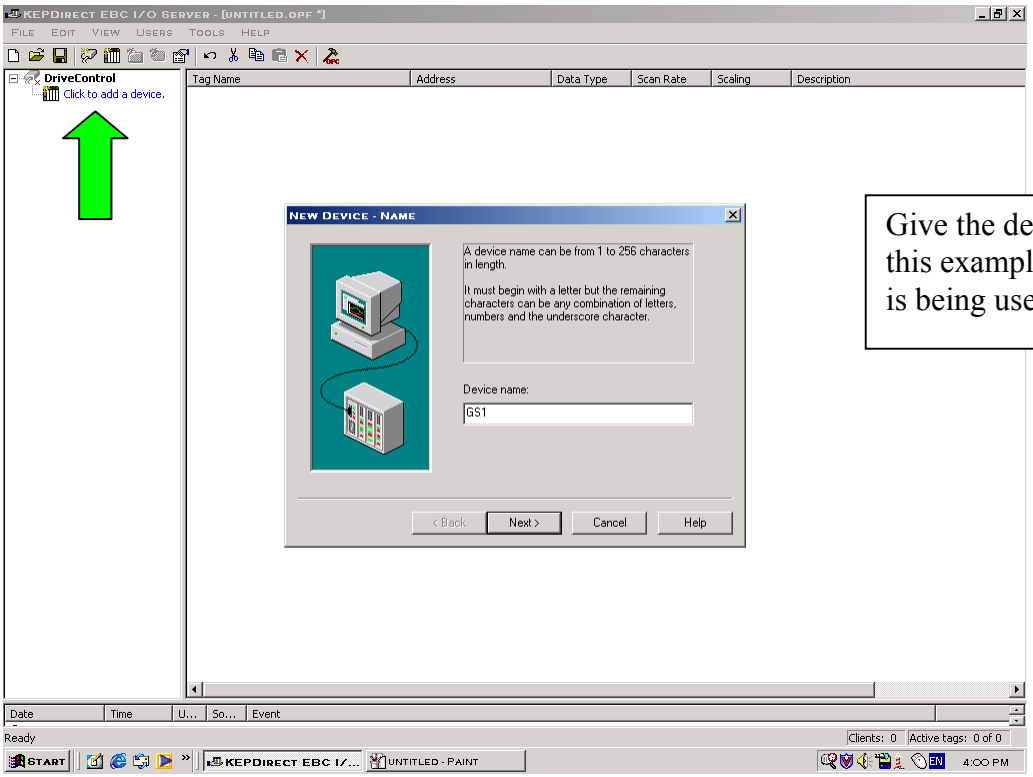
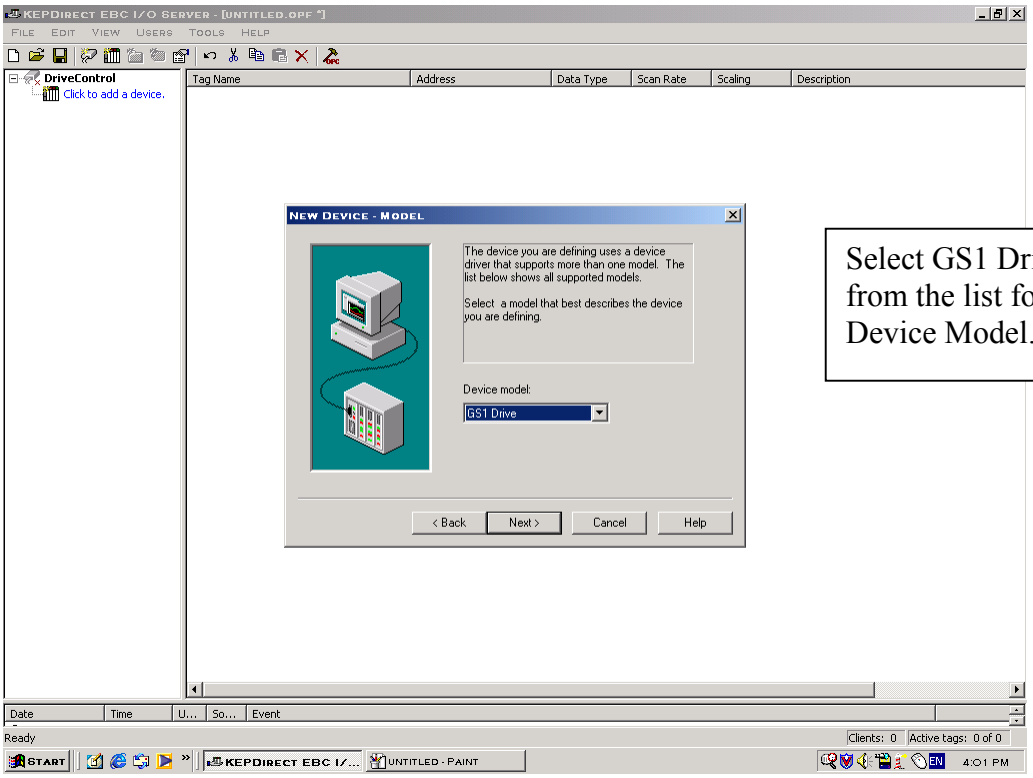


Give the device a name. In this example a GS1 drive is being used.



Select GS1 Drive from the list for Device Model.

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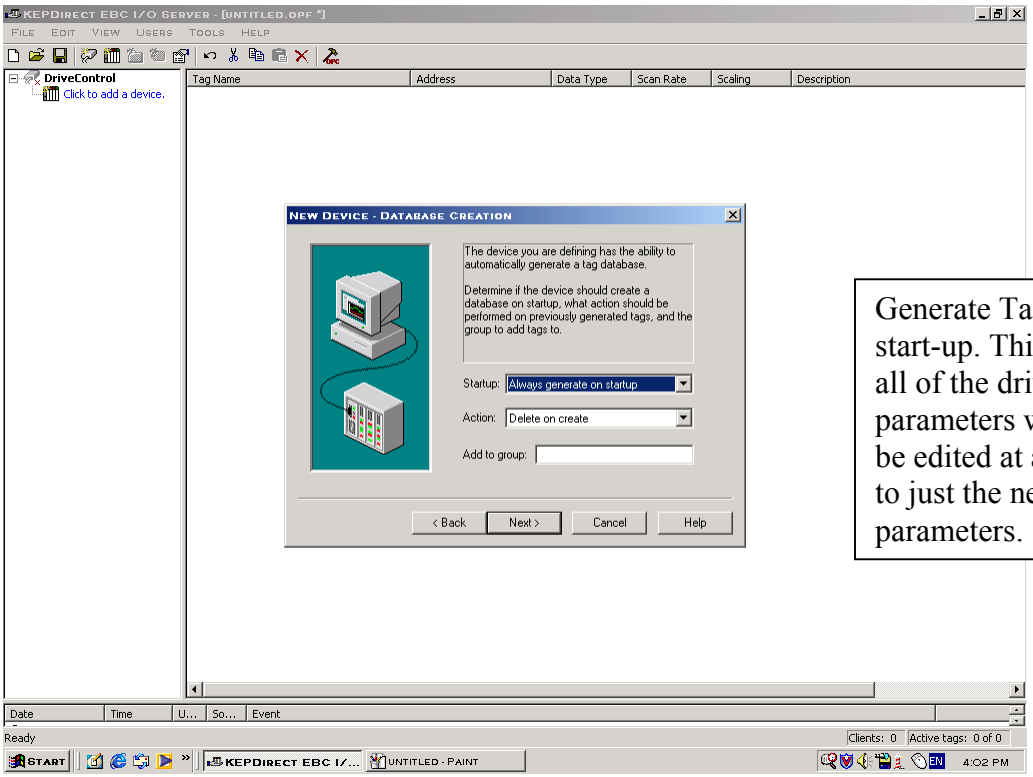
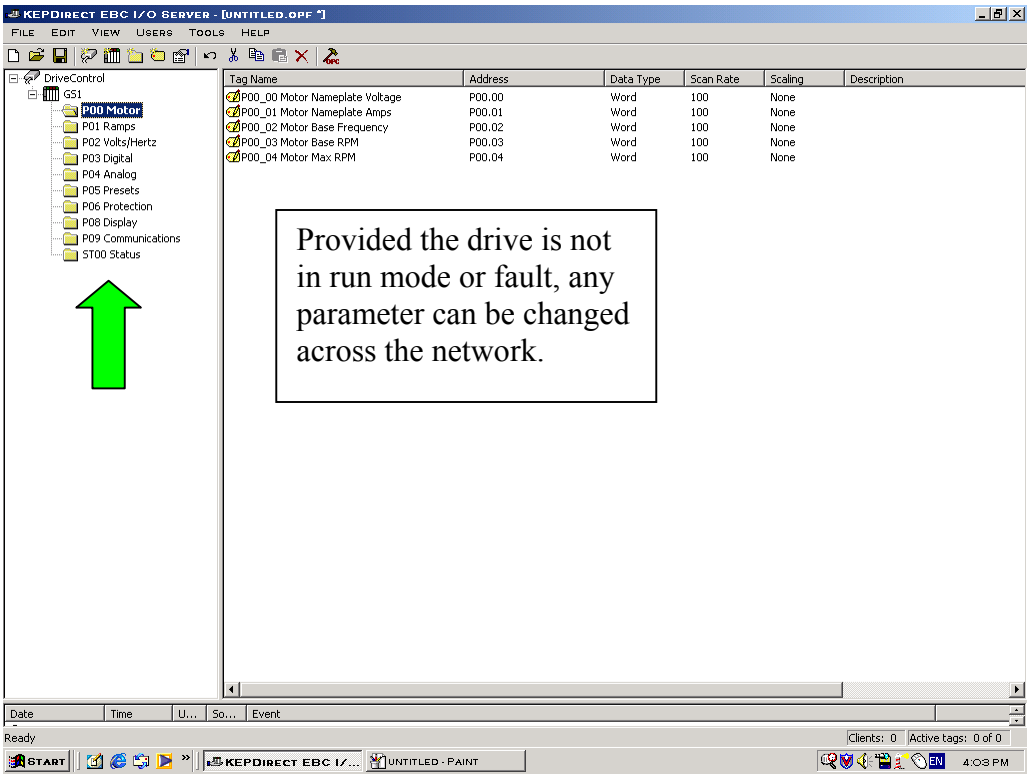


Generate Tag names on start-up. This will map all of the drive parameters which can be edited at a later time to just the necessary parameters.



Provided the drive is not in run mode or fault, any parameter can be changed across the network.

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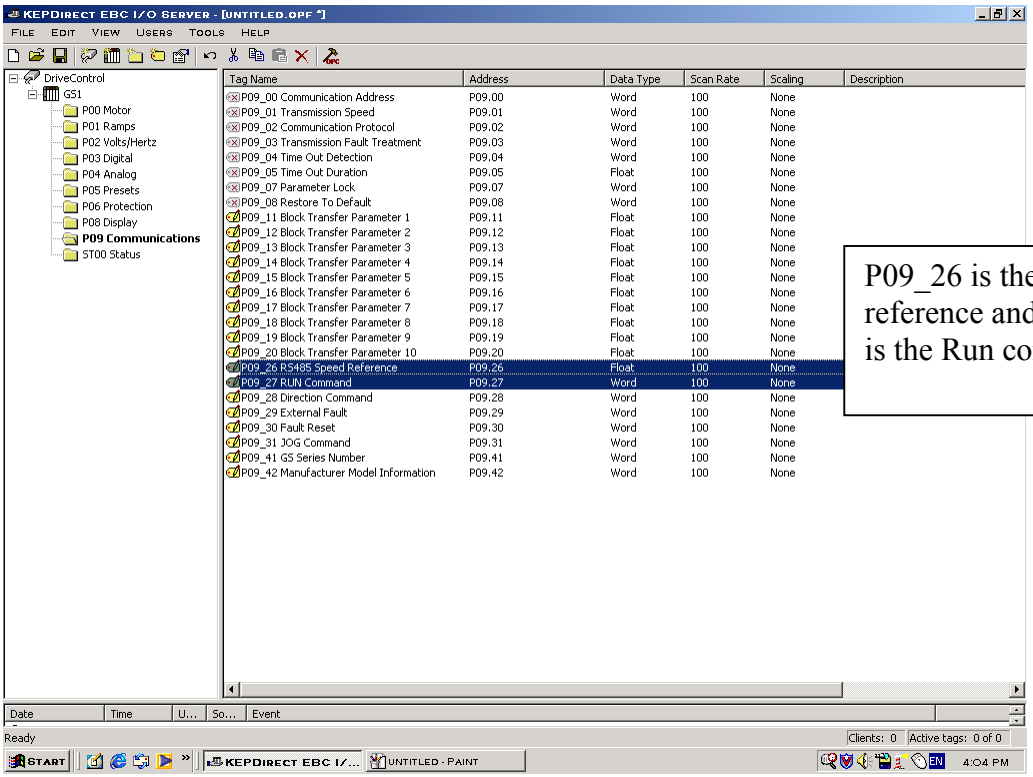
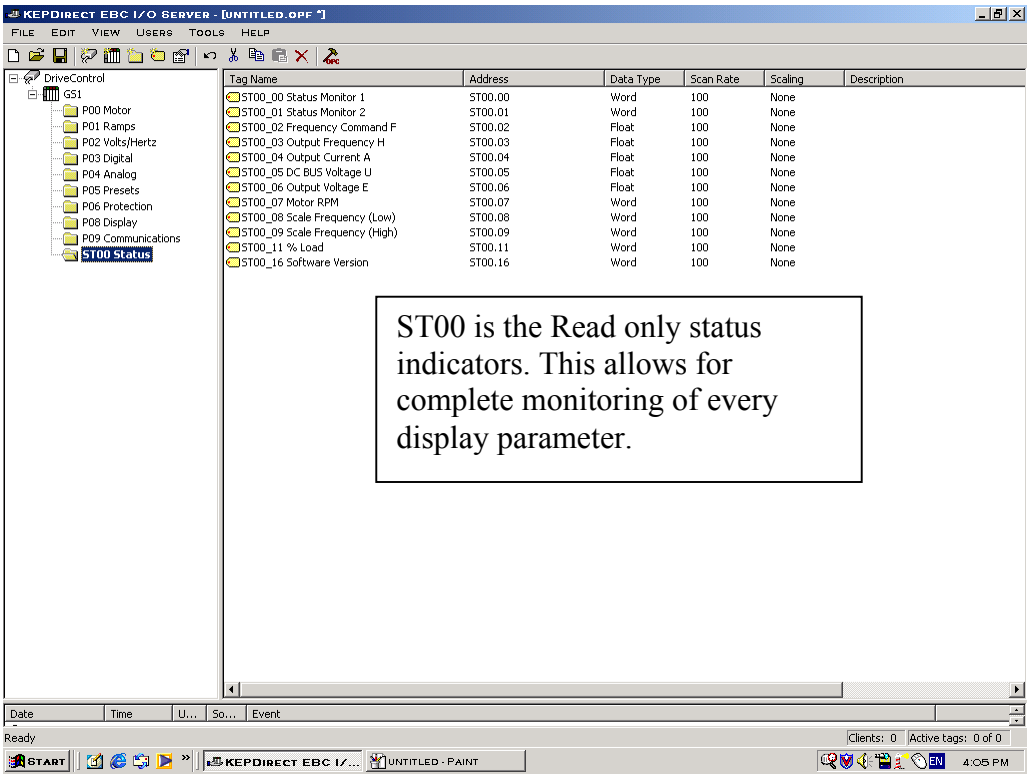


P09_26 is the Speed reference and P09_27 is the Run command.



ST00 is the Read only status indicators. This allows for complete monitoring of every display parameter.

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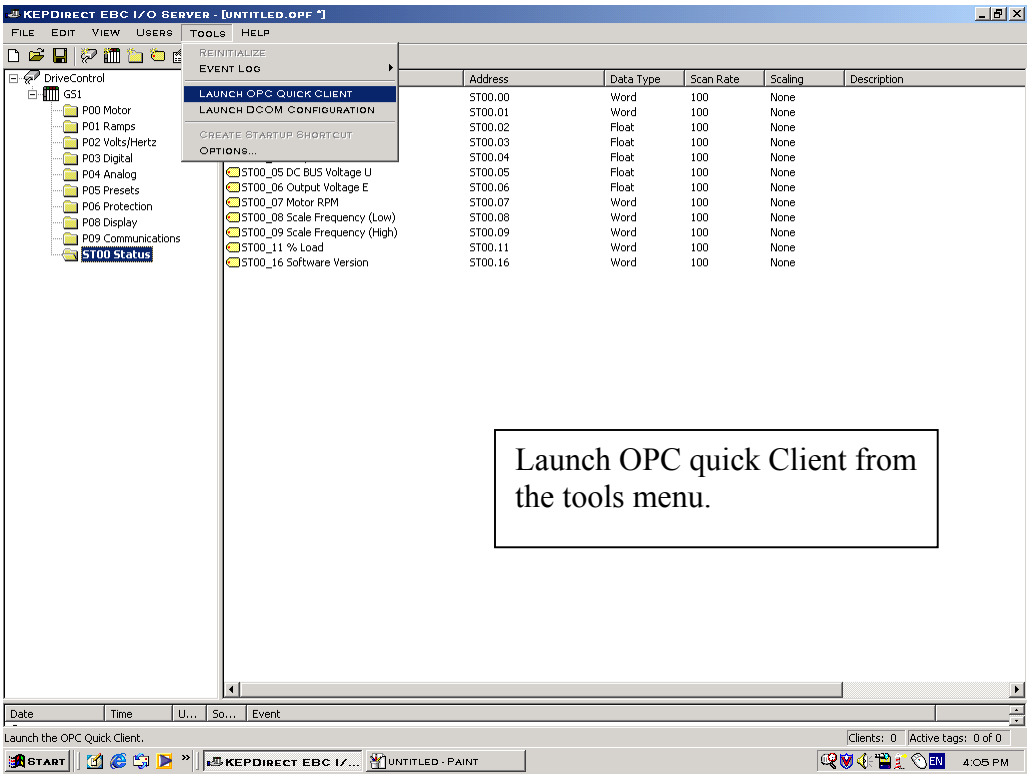

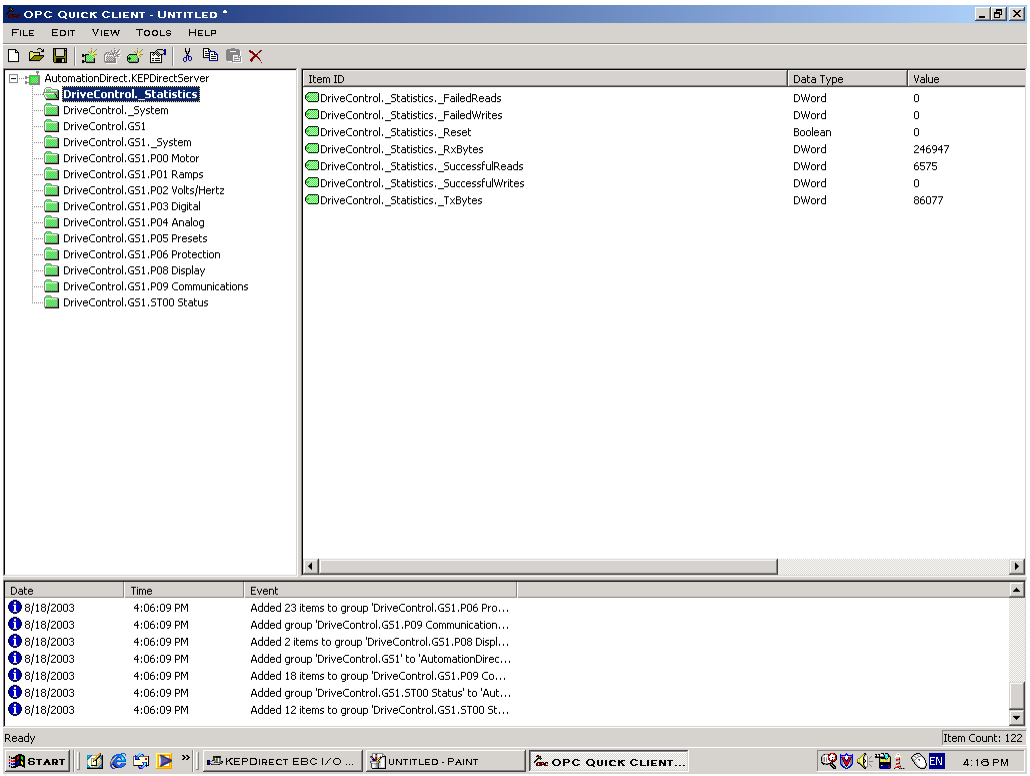

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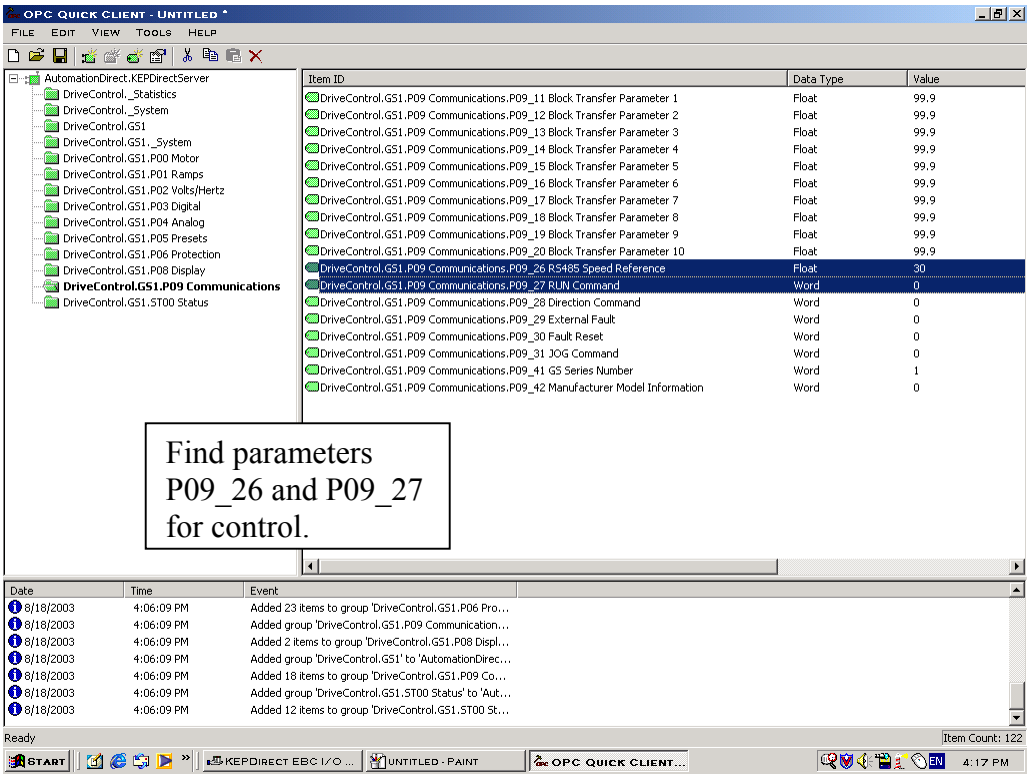

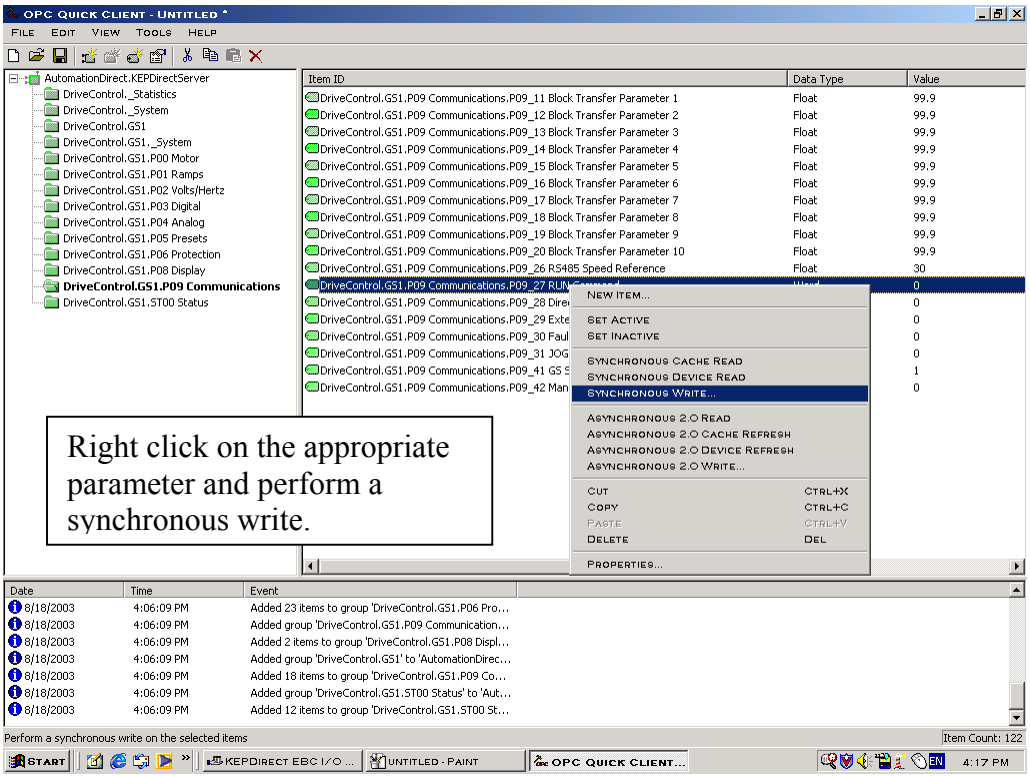

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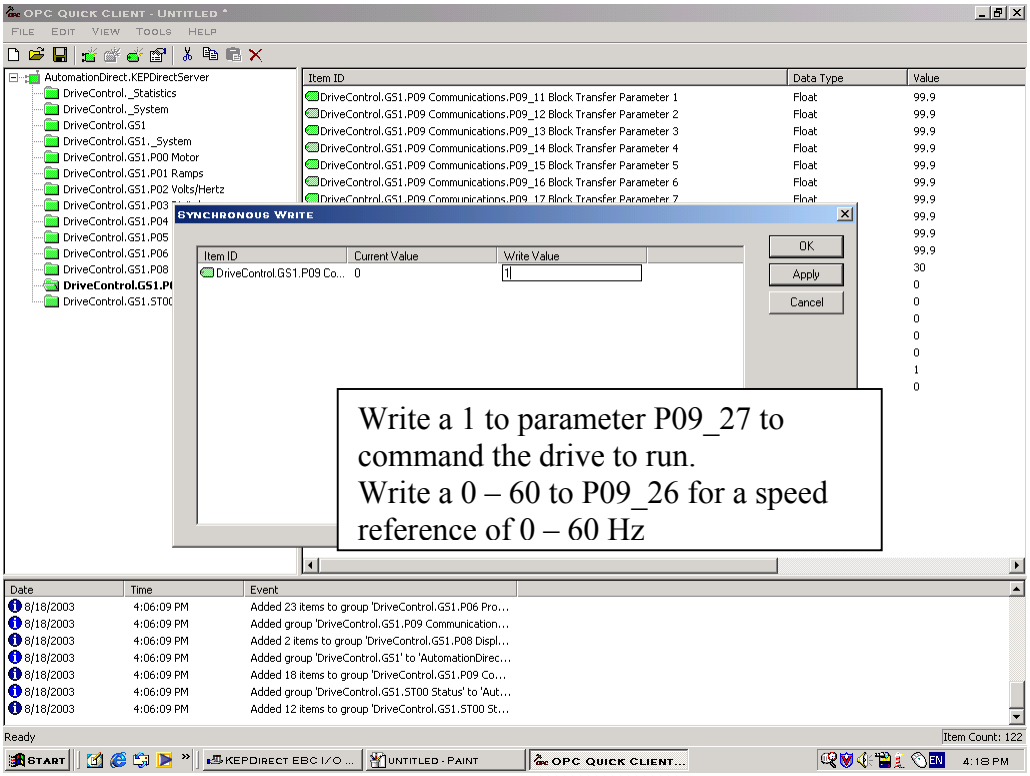

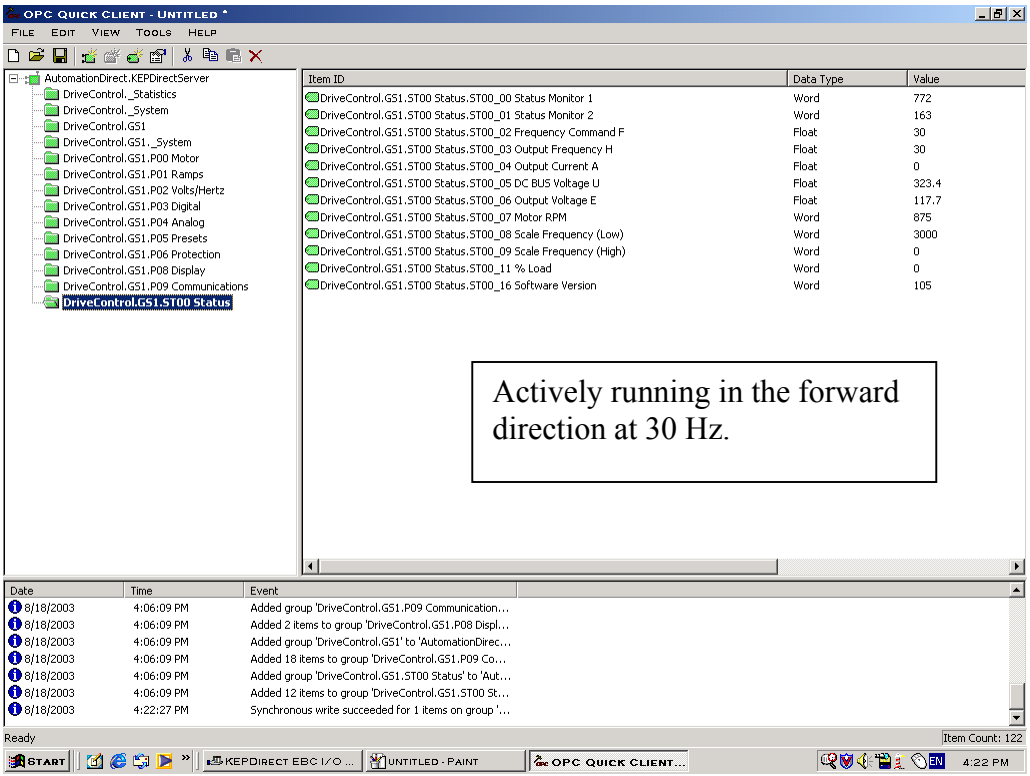

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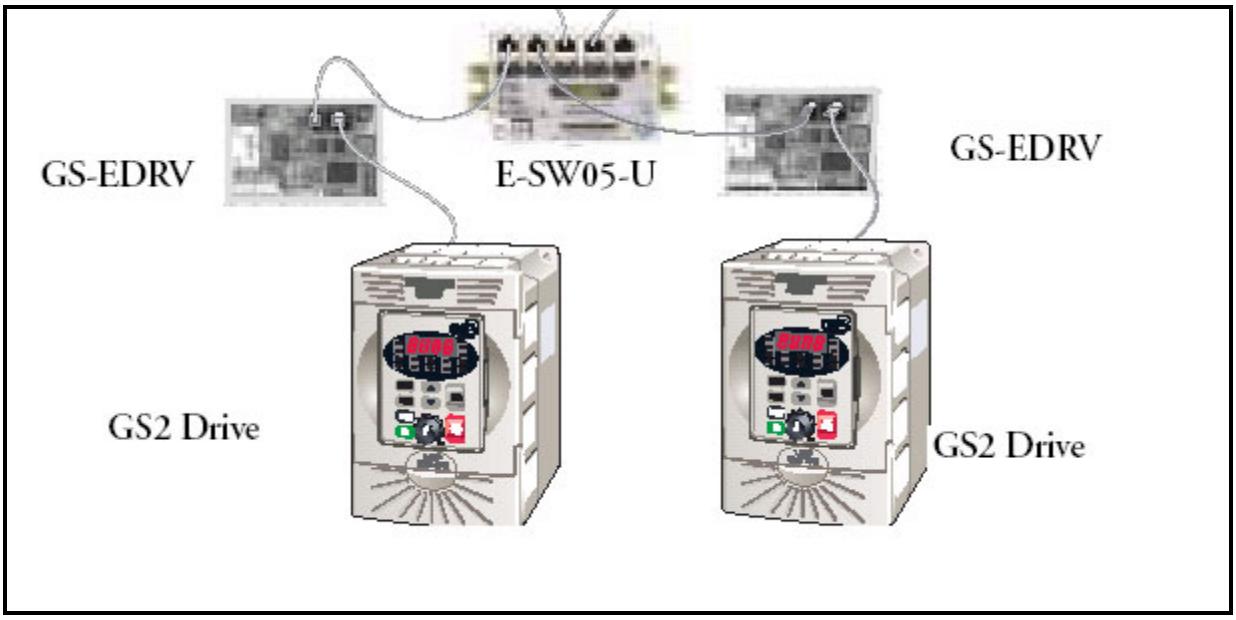
Basic connection of Drives:



Technical Assistance: If you have questions regarding this Application Note, please contact us at 770-844-4200 for further assistance.