



# OPERATOR INTERFACE PRODUCTS APPLICATION NOTE

Subject: OpenHMI connecting to a GE90/30

AN# 1087A

Date: May 12, 1999

Name: Steve Vargo

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Description: How to set up the GE 90/30 serial driver for OpenHMI to talk to a GE90/30 PLC

This application note will give you general guidelines in setting up the GE Fanuc Series 90 Protocol OpenHMI I/O server to communicate with the OpenHMI Window viewer.

The following is the setup for the Communication Port Settings.

**Communication Port Settings**

Com Port:

Reply Timeout:  secs

Baud Rate

110  300  600  1200  2400

4800  9600  14400  19200  38400

Data Bits

7  8

Stop Bits

1  2

Parity

Even  Odd  None  Mark  Space

The following is the setup for the Topic Definition. Click on New to setup topic name GEPLC.

**Topic Definition**

Topics:



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The following is the setup for the Topic Name definition.

**GESNP Topic Definition**

Topic Name:

PLC Address:

Program Name:

Com Port:  ▼

Messages Per Cycle:

Update Interval:  msec

T4 Interval Timer:  msec

This can be a number or you can use your CPU ID name.

This can remain blank.

The PLC Address can be your CPU ID name. You must have a CPU ID assigned to have successful communications. Below shows the Server Settings.

**Server Settings**

Protocol Timer Tick:  msec

NetDDE being used

Configuration File Directory:

Start automatically as Windows NT Service

This is the default file where your server is located.



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The following is how you would define a tag in Window maker for our GE PLC.

Tagname Dictionary

Main Details Alarms Details & Alarms Members

New Restore Delete Save << Select... >> Cancel Close

Tagname: output Type: ... I/O Discrete

Group: ... \$System Read only Read Write

Comment:

Log Data  Log Events  Retentive Value

Initial Value Input Conversion On Msg: Off Msg:

On  Off  Direct  Reverse

Access Name: ... PLC

Item: R175

Use Tagname as Item Name

You click on  
Access Name to  
enter in PLC.

This is where you  
put your PLC  
address.

The following is how the Access Name is setup in Window maker.

Modify Access Name

Access Name: PLC OK

Node Name: Cancel

Application Name: GESNP

Topic Name: GEPLC

Which protocol to use

DDE  SuiteLink

When to advise server

Advise all items  Advise only active items

Node name can  
remain blank.

This is the executable  
file in the  
Configuration File  
Directory found in the  
server settings.