

APPLICATION NOTE# 45

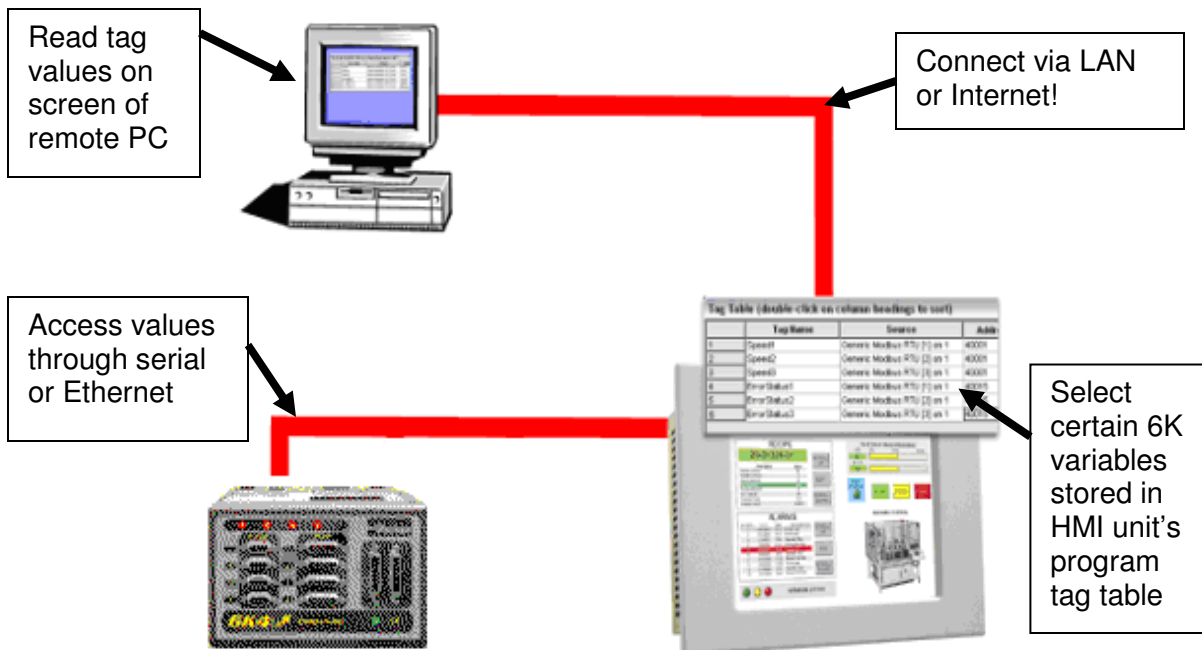
Accessing Compumotor 6K variables On a host PC through ET5000LX ActiveX

BACKGROUND

The Compumotor 6K Ethernet can only allow one connected device at a time, even when using Ethernet communications. This can be a problem if the user wishes to remotely view or monitor the 6K from a host PC, and adjust project data variables.

SOLUTION

When an ET5000LX HMI is used to communicate and access the Compumotor 6K, the HMI unit can "map" Compumotor variables into its own tag table. Using ESA Technology's ActiveX components, you can then connect to the unit and access these variables from anywhere.



EXAMPLE PROJECT

Download the .ZIP file with example files from the web:
<http://www.esatechnology.com/appnotes/an45.htm>

In the .ZIP file you will find:

- 6K_example.frm : Visual Basic Project File
- 6K_example.frx : Visual Basic Project File

- 6K_example.vbp : Visual Basic Project File
- 6K_example.eas : Winbuild 5000 Project File

The Visual Basic program files will show you how to access data variables in the ET HMI project.

Load the Winbuild 5000 project into your ET5000LX HMI, and connect the HMI via Ethernet to your Compumotor 6K.

Then run the Visual Basic application. You will see that you can access "VAR1" in the Compumotor, with the ActiveX control, through the ET terminal. You can also write values back to it!

The example also shows how to transfer a string value- in this case "TER". This is not a variable you can access easily with the standard ESA Tech Compumotor 6K driver, so a simple background task was placed in the ET's program to go and request the value of "TER" from the Compumotor. This response string is held in the variable "ErrorStatus" that the ActiveX control example then accesses.

Also included in the example is how to place the HMI into restart/transfer mode. This is handy when developing/debugging and want to place things offline or restart your program.

Note: the above Visual Basic program does require a full copy of Winbuild 5000 to be installed on the host PC, or a copy of "ESA Technology Utilities" installed. (This sets up the appropriate files required for ESA Tech's ActiveX onto your PC.)

Further ActiveX documentation will be on your PC's drive:
C:\Program Files\Common Files\ESA Technology