

GE Fanuc SRTP Driver for JMobile

This Technical Note contains the information needed to connect the system to GE Fanuc controllers using the SRTP Ethernet communication protocol.

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GE Fanuc SRTP Ethernet Driver

The GE Fanuc SRTP Ethernet driver can be used to connect the HMI device to the GE controllers using the native and proprietary SRTP communication protocol.

Settings

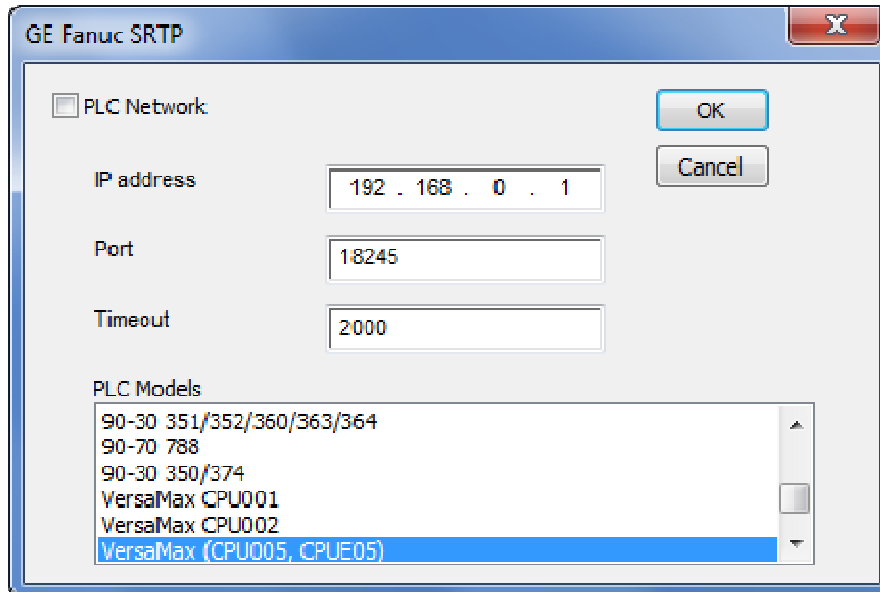


Figure 1

IP Address	The IP address of the Ethernet interface of the controller
Port	Communication Port number for the Ethernet interface
Timeout	The time the protocol waits the answer from the controller before issuing a new retry.
PLC Models	List of compatible controller models. Make sure to select the right model in this list when configuring the protocol.

The protocol supports connection to multiple controllers.

To enable this, check the "PLC Network" check box and provide the configuration per each node.

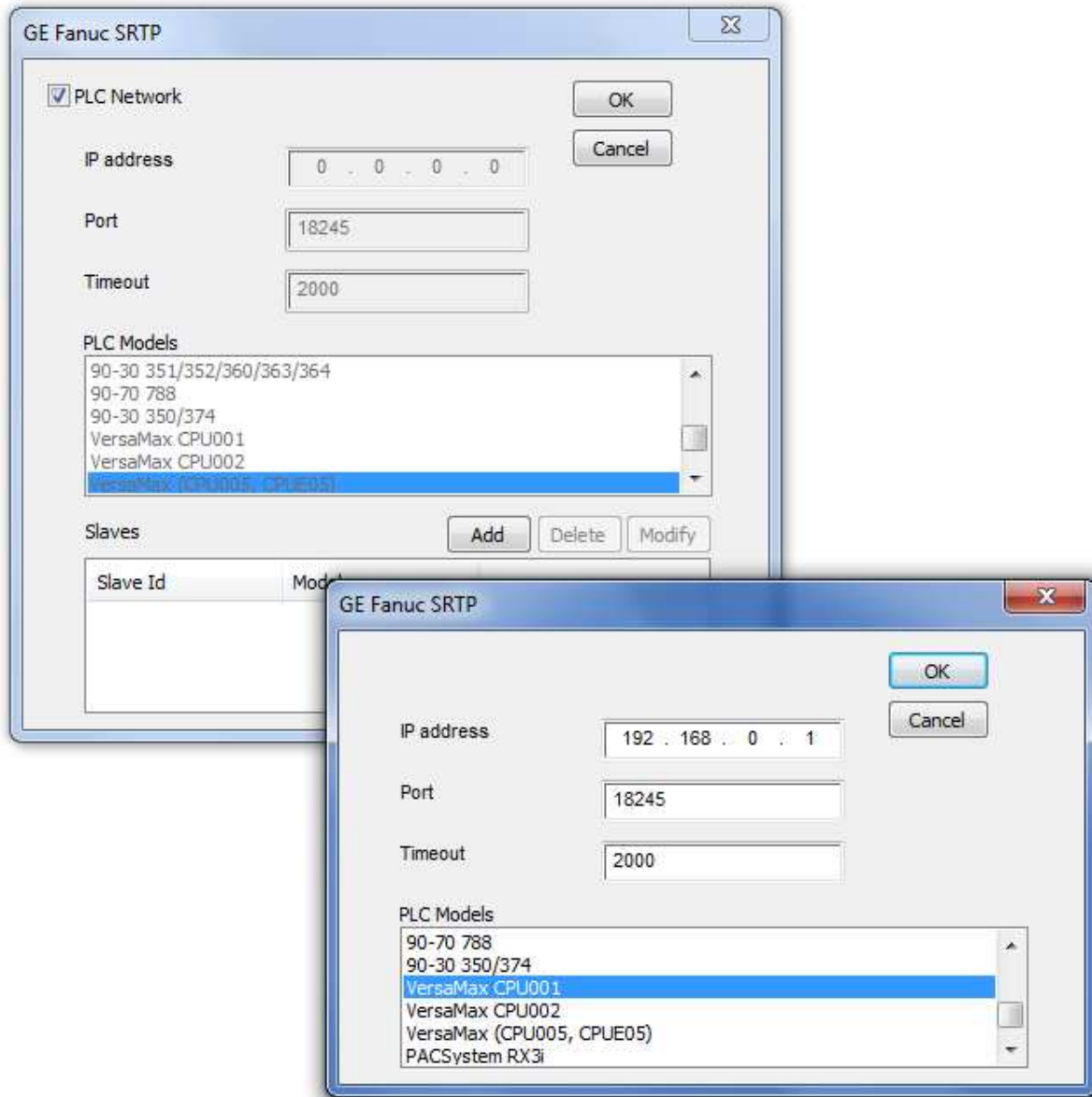


Figure 2

Tag Editor and Tag Import

The GE Fanuc SRTP Ethernet driver support the Tag Import facility.

The import filter accepts symbol files with extension “.csv”.

The Tag import can be launched from the icon indicated in the following figure.

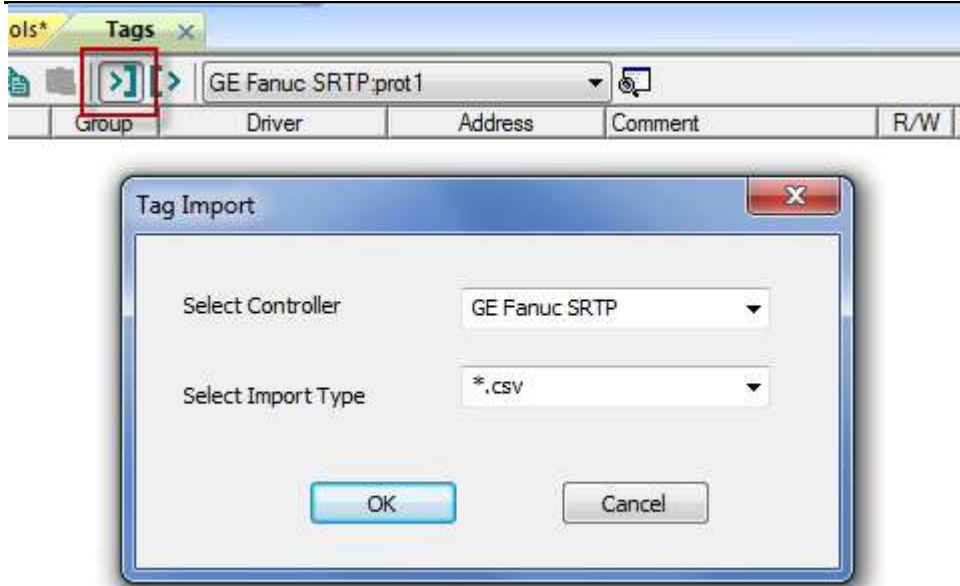


Figure 3

The actual version of the driver supports the import of the standard data types as per the following list:

- BOOL
- BYTE (8-bits unsigned integers)
- DINT (32-bits signed integers)
- DWORD (32-bit bit strings, displayed as unsigned integers)
- INT (16-bit signed integers)
- REAL (32-bit floating point data)
- STRING (character string)
- UINT (16-bit unsigned integers)
- WORD (16-bit bit strings, displayed as unsigned integers)

Note: User defined structure and predefined structures are not supported. 64-bit data are also not supported.

The symbol file can be exported by the controller programming software (Proficy Machine Edition from GE Intelligent Platforms).

In the Proficy Software, click on the "Variables" tab and then from the right mouse click select the Export option from the contextual menu as shown from the following figure.

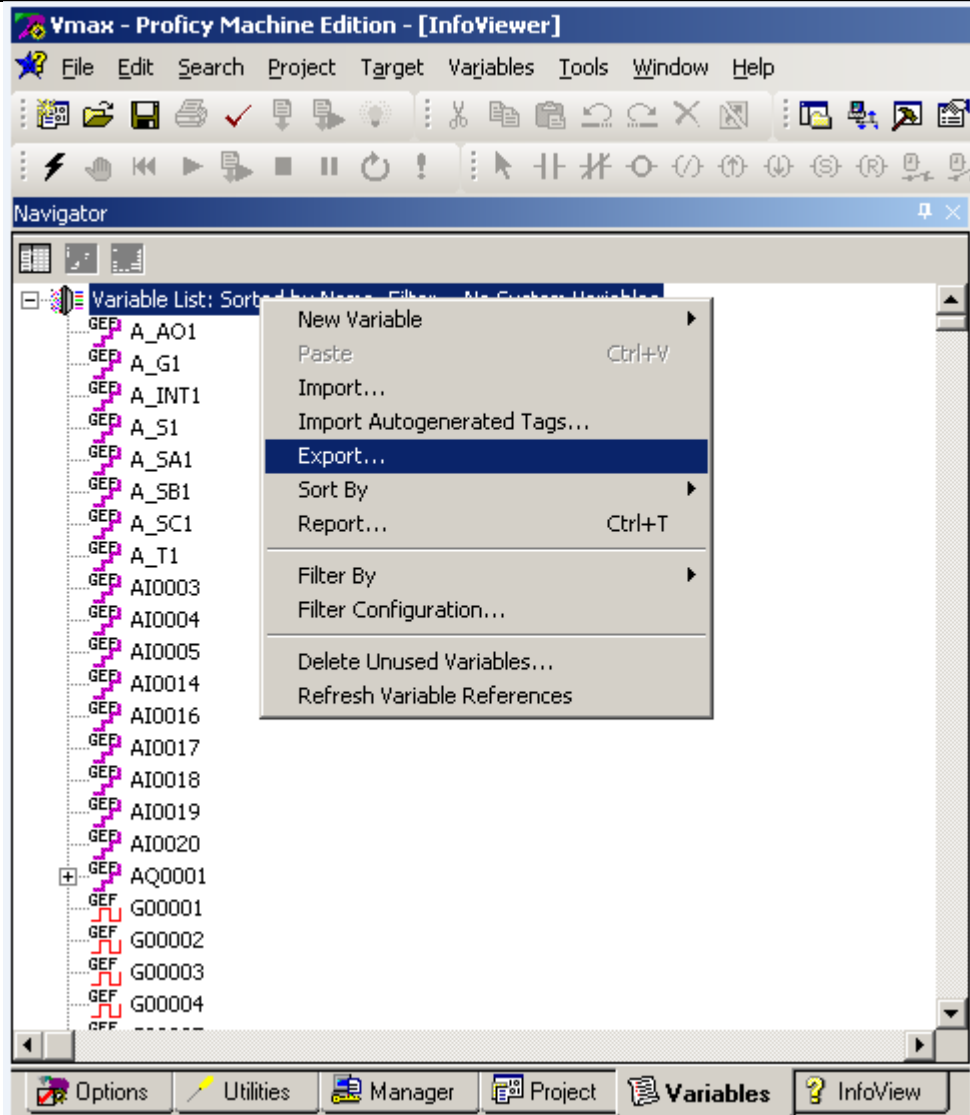


Figure 4

In the following dialog select then the file name and the file location on the computer.

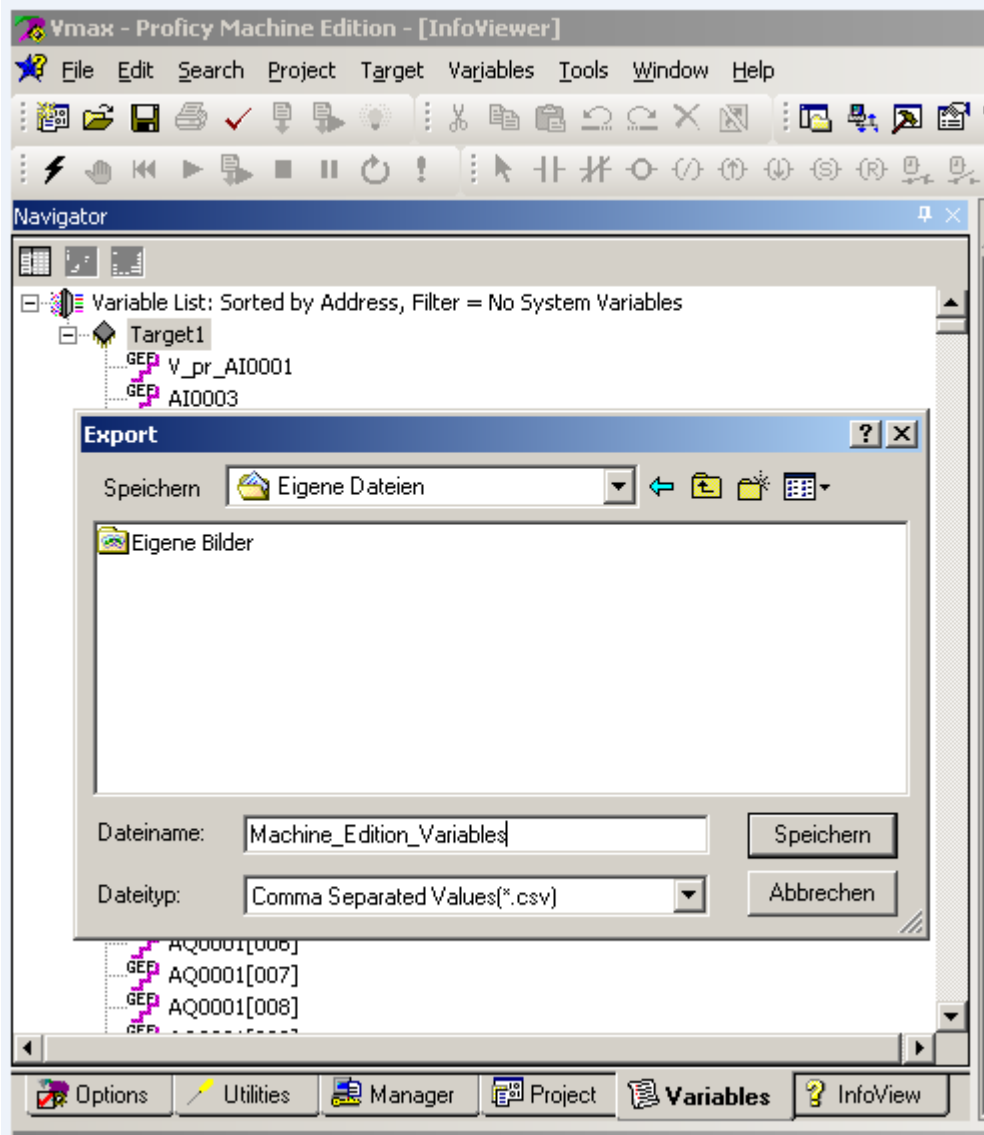


Figure 5

Communication Status

The communication status can be displayed using the dedicated system variables. Please refer to the User Manual for further information about available system variables and their use.

The status codes supported for this communication driver are:

Error	Notes
NAK	Controller replies with a not acknowledge.
Timeout	Request is not replied within the specified timeout period; ensure the controller is connected and properly configured for network access
Invalid response	The panel did receive from the controller a response, but its format or its contents or its length is not as expected; ensure the data programmed in the project are consistent with the controller resources.
General Error	Error cannot be identified; should never be reported; contact technical support