Partner: Clearone
Model: ViewPro
Device Type: Network Streaming

GENERAL INFORMATION

SIMPLWINDOWS NAME:	Clearone ViewPro Command Processor IP v1.0
CATEGORY:	Network Streaming
VERSION:	1.0
SUMMARY:	This module controls all TCP/IP communication with the ClearOne ViewPro.
GENERAL NOTES:	This module is the core IP communication module for a suite of modules. The suite of modules utilizes the SIMPL# technology and will only work on the 3-Series Controller. Up to 16 instances of this module can be used in a single program slot. The module has a parameter that allows you to choose one of the 16 instance IDs. Each instance ID can only be used once. The other modules in this suite are control modules. The control modules are responsible for providing the actual control interface in SIMPL. With the SIMPL# technology, the control modules no longer need to be physically “connected” to the command processor. They register themselves automatically behind the scenes. Each of the control modules also has a command processor ID parameter that you assign to the instance of the command processor to which they report to. You can have a virtually unlimited number of control modules report to a single instance of a command processor. The only limitation is that of memory and processing of the 3-Series controller. Because of that, the decision to go with more than one command processor is unlikely, but the availability is there if needed. Once the processing module has determined that it is communicating with the device, it will initialize any individual control modules that are registered to it. Once a control module receives all the responses it is looking for, it will instruct the processing module that its initialization has been completed. The processing module will then request the next control modules initialization. Once all control modules are initialized that are registered with the processing module, the Is_Initialized output on the processing module will go high. At this point, you will have full control of all functionality on the registered control modules. In order for the module suite to work correctly ALL control modules must be configured correctly and be reachable over the network by the Crestron processor. Once this happens the command processor module will have its Is_Initialized signal asserted. Each control module has an Is_Initialized signal that will indicate when it is ready for control. You can use this for debugging purposes. The initialization process may take several seconds to several minutes depending on how many control modules are linked to a particular command processor.
CRESTRON HARDWARE REQUIRED:	3-series processor **only**
SETUP OF CRESTRON HARDWARE:	N/A
VENDOR FIRMWARE:	3.2.54

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PARAMETER:	
Command_Processor_ID	Setting to indicate the ID for a particular processing module. Up to 16 separate processing modules may be used in a single program, each one operating independently. Note that if multiple processing modules are to be used in a single program, they **must** each have different ID's set.
IP_Address	Setting to indicate the IP address of the device to be used as the primary communication device. Any decoder or encoder in the system can be used as a primary communication device.
IP_Port	Setting to indicate the IP port on which to communicate with the primary device. The default communication port is 15000.

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CONTROL:

Connect	D	Pulse to connect to the device. Once connected, the “heartbeat” process will be started which is used to maintain communication with the device by periodically sending status requests to confirm the device is still communicating with the control system.
Disconnect	D	Pulse to disconnect from the device and stop the module “heartbeat” process.
Reinitialize	D	Pulse to disconnect then reconnect to the device. This signal is provided as a convenience should it be desired to reinitialize at any point. Initialization will automatically occur shortly after the program starts.
Enable_Debug	D	Set high to enable internal SIMPL# messages to be printed in SIMPL Debugger. These messages may be useful while debugging to see what processes are occurring within the module. Note it is highly recommended to leave this signal low unless actively debugging as it causes much additional signal traffic in Debugger.

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FEEDBACK:

Is_Communicating	D	High when communication has been established with the device. Once communication has been established, the module will attempt to initialize automatically.
Is_Initialized	D	High when all registered control modules have successfully indicated that they have received the required responses to all their queries.
Connect_Status	A	Value indicating the connection status to the device.

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TESTING:

OPS USED FOR TESTING:	CP3: 1.501.2867.24563
SIMPL WINDOWS USED FOR TESTING:	4.07.03.00
CRES DB USED FOR TESTING:	63.06.002.00
DEVICE DATABASE:	86.05.003.00
SYMBOL LIBRARY USED FOR TESTING:	1038
SAMPLE PROGRAM:	Clearone ViewPro v1.0 Demo IP.smw
REVISION HISTORY:	v1.0 – Initial Release

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