SIMPLWINDOWS NAME:	Polycom VS4000+FX v415 Video Switching
CATEGORY:	Codec
VERSION:	1.0
SUMMARY:	Provides source selection for transmitted and received video
GENERAL NOTES:	This module is for control of the Polycom VS4000 and ViewStation FX models only.It will work with Polycom Software version 4.15 FX only. Other releases of Polycom software may cause some functions to stop working.

You can communicate with these systems over RS232 or over TCP/IP. If using TCP/IP, follow the instructions below:

You must open up a Telnet session with the Polycom system. Therefore, you must have a CNXENET+ card installed in your control system to enable communications.

When programming the system in SimplWindows, you should insert a TCP/IP Client object into the ethernet portion of the control system, in the configuration manager. In the program view, use 24D for the PORT parameter field. When it is desired to establish the Telnet session with the Polycom system, assert the CONNECT input on the TCP/IP Client. When the session has been sucessfully established, the CONNECT-F output will go high. It will then be possible to send commands to the Polycom system. When it is desired to end the Telnet session, de-assert the CONNECT input, and the connection will be dropped.

Commands should only be sent to the TCP/IP Client TX$ input when the connection is active. Therefore, you should connect the output of this module to the input of a Serial Buffer symbol, which is enabled by the CONNECT-F output of the TCP/IP Client. The output of the Serial Buffer should be connected to the TX$ input of the TCP/IP Client. See the demo program for an example of this implementation.

Note that before resetting the Crestron system (as happens when you load a new program, power cycle the system , etc), you should end the Telnet session with the Polycom system. If the session is active when the Crestron system resets, the session will not be closed properly, and the Polycom system may need to be rebooted to recover properly.

This module will allow any of the four available near end sources to be sent to the far end, and it will allow any of the five aviailable far end sources to be received. True feedback from the Polycom system is provided indicating the currently transmitted near and fae end sources. For this feedback to work properly, you must have used the Polycom VS4000+FX Initialization Module

CRESTRON HARDWARE:	CNXENET+, CNMSX, CNXCOM, ST-COM
SETUP OF CRESTRON HARDWARE:	**For TCP/IP:** Install a TCP/IP Client Use port 23D Be sure to set up the IP table to specify the IP address of the Polycom system for the IP ID of the TCP/IP

Client. You must do a cold reboot of the control system after changing these parameters.

For RS232:
Baud Rate - 9600
Parity - None
Data Bits - 8
Stop Bits - 1

VENDOR FIRMWARE:	Release 4.15 FX
VENDOR SETUP:	None
CABLE DIAGRAM:	For VS4000 - CNSP-123 For ViewStation FX - T.B.D.

CONTROL:

NEAR-CAM-*	D	Pulse to select any of the near end sources
FAR-CAM-*	D	Pulse to select any of up to five available far end sources
From_Device$	S	Serial signal to be routed from the Polycom system

FEEDBACK:

NEAR-CAM-*-FB	D	True feedback indicating the currently transmitted near end source
FAR-CAM-*-FB	D	True feedback indicating the currently transmitted far end source
To_Device$	S	Serial signal to be routed to the Polycom system

.UPZ FILE USED FOR TESTING:	5.12.57x.upz, v2.004.cuz
COMPILER USED FOR TESTING:	SimplWindows Ver 2.02.11
SAMPLE PROGRAM:	Polycom VS4000+FX v415 Demo Program
REVISION HISTORY:	v40 - Added commands to process camera status feedback v415 - Identical to v40