SIMPLWINDOWS NAME: Polycom ViewStation v60 Video Dialing

CATEGORY: Codec

VERSION: 1.0

SUMMARY: Allows video calls to be placed

GENERAL NOTES:

This module is for control of any Polycom ViewStation systems except for the VS4000 and ViewStation FX. It will work with Polycom Software version 6.0.1 only. Future releases of Polycom software my cause some functions to stop working.

The only method available for communications with these systems is over TCP/IP, opening 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 successfully 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 allows video calls to be placed. The phone number can be entered manually, or speed dial presets can be set up on the Crestron system.

For each call placed, a call speed can be selected. This module provides for 20 different call speeds. Since the Polycom system supports so many different call speeds, parameter fields are provided where you can type in the 20 call speeds you want to use. So for a speed of 384, enter 384 in the parameter field. For a speed of 2x56, enter 2x56 in the parameter field.

When storing the speed dial presets on the Crestron system, you can either store a selected speed with the telephone numbers, or you can just store the telephone number. If you would like to store the speed with the preset, you should put a 1 on the STORE-SPEED-WITH-PRESET-? input. If you do not want to store the speed, you should put a 0 on this input.

	The macro allows one or two number calls to be placed manually, as well as store those numbers in up to 100 preset locations. Phone numbers are entered, dialed and stored as follows: 1. Select a call speed. 2. Select SELECT-NUM-1, and type in the first phone number 3. If there is a second number, select SELECT-NUM-2 and type in the second number. Otherwise leave this field blank. You have the option of copying the first number to the second number. You can always preselect either number and reenter it. 4. When both number fields are displaying the correct numbers, press DIAL. Your call will be placed 5. If you were storing the number into a preset, you would first press the preset - the old numbers stored there would be displayed. You would then type in the new numbers. When finished, press STORE. The numbers you entered will be stored into the previously selected preset.
CRESTRON HARDWARE:	CNXENET+
SETUP OF CRESTRON HARDWARE:	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.
VENDOR FIRMWARE:	Release 6.0.1 - 30 Aug 2000
VENDOR SETUP:	None
CABLE DIAGRAM:	None

CONTROL:

SELECT-NUM1,NUM2	D	Pulse to select the first or second number for entry
KEY-0-9,*,#	D	Keypad to enter standard digits
KEY-DOT	D	Allows a decimal point to be entered for IP calls
KEY-CLEAR	D	Clears the currently selected number field
KEY-BACK	D	Erases the last digit entered
COPY-NUM1-NUM2	D	Copies the first number into the second number
CLEAR-NUM1-NUM2	D	Clears both the first and second numbers
KEY-ENTER	D	If pressed while Num1 is active, it wills elect num2. If pulsed while num2 is active, it will dial
DIAL	D	Dials the numbers currently entered immediately
SPEED-1-20	D	Selects any of the 20 speeds that were entered in the corresponding parameter fields
PRESET-1-100	D	Selects any of the available speed dial presets
PRESET-CLEAR	D	Clears the speed dial preset selection
STORE	D	Stores the currently entered numbers into the previously selected preset
STORE-SPEED-WITH-PRESET	D	If held high, will store the call speed with the preset. If low, will not store the speed with the preset

DISCONNECT	D	Disconnects any currently active video calls
INITIALIZE-PSETS	D	Erases all of the speed dial presets
SPEED-*	P	Used to specify which call speeds are desired. Only enter speeds which your Polycom system supports. Enter 0 for any unused fields
FEEDBACK:		
SELECT-NUM*-FB	D	Indicates which number field has been selected for entry
NUM*$	S	Serial signals containing the numbers currently entered. Should be routed to the serial portion of a touchpanel definition
SPEED-*-FB	D	Indicates which speed has been selected for the call
PRESET-*-FB	D	Indicates which speed dial preset is currently active
POLYCOM-TX$	S	Serial signal to be routed to the Polycom system

.UPZ FILE USED FOR TESTING:	5.12.01x.upz
COMPILER USED FOR TESTING:	SimplWindows Version 1.51.08
SAMPLE PROGRAM:	Polycom ViewStation v60 Demo Program
REVISION HISTORY:	None