



N-SERIES WINDOWING PROCESSOR CONTROL SOLUTIONS PROTOCOL

Introduction:

An SVSi system is comprised of encoders, decoders, and potentially other accessories including NVR recording solutions, window processing units, and audio-only end points. The system allows you to distribute HD Video and Audio across a gigabit Ethernet network. The encoders accept DVI-I sources including HDMI, DVI-D, DVI-A, VGA, Component through the use of passive adaptors, and analog audio utilizing a 3.5mm connection. The decoders have DVI-D video output ports and will support digital audio (with DVI to HDMI cable or adaptor). The N2221 and N2211 Decoders also have Stereo Analog audio output jacks available.

Each device is controllable via TCP/IP direct socket using the devices' I.P. addresses and **port 50002**. Port 50002 will only support a single connection at a time; all other connection attempts are rejected until the established connection is closed.

Commands can be sent one at a time, or as a group of commands separated by a CRLF. Any changes in output mode will cause all other commands to be ignored while output settings are changed. SVSi recommends establishing output resolution during system commissioning, and not during normal system operations.

Example of multiple commands: <Command1><CRLF><Command2><CRLF>.....<CommandX><CRLF>

This document does not describe controlling a SVSi windowing processor when utilizing a N8002 or N8001. For control of devices utilizing the Conductor Platform for control, please refer to the document here: <http://svsiav.com/support/resources/programming-resources/>.

Products this document applies to: **Windowing Processors**

Global Controls:				
Action	Command	Response	Example	Notes
Change Presets	presetx	Change Presets	preset:10	Changes between pre-saved layouts. Presets can recall streams, positioning, cropping, and other details for individual windows. Presets are created/managed through the web interface of the WWP120.
Disable Audio	mute	Current Status	mute	
Disable Audio	mute	Current Status	mute	
Output:				
Action	Command	Response	Example	Notes
Enable Audio Output	unmute	Current Status	unmute	
Change Audio Stream	seta:<stream>	Current Status	seta:212	
Change Output Mode	modeset:<ValidResolution>	Current Status	modeset:720p	Changes output resolution of the WWP120. All other changes sent in same command are ignored. Processor will go black while resetting.

Supported Resolutions for Modeset Command:

800x600	modeset:800x600
1024x768	modeset:1024x768
1360x768	modeset:1360x768
1366x768	modeset:1366x768
1600x1200	modeset:1600x1200
1680x1050	modeset:1680x1050
480p	modeset:480p
720p	modeset:720p
1080p 24hz	modeset:1080p_24hz
1080p	modeset:1080p

Individual Window Controls:

Action	Command	Response	Example	Notes
Note: All commands have a <window> value as part of the command set. Window numbering starts at 0 and goes to 3. Window 1 = 0, Window 4 = 3. Values outside of the range 0-3 will generate an error. All examples below use window 1 (Window 0) for demonstration purposes.				
Change Video Streams	set:<window>:<Stream>	Current Status	set:0:212	Changes Video stream displayed
Set Window Priority	Setz:<window>:1-4	Current Status	set:0:4	4 is the highest, 1 is the lowest
Enable Window	winon:<window>	Current Status	winon:0	
Disable Window	winoff:<window>	Current Status	winoff:0	
Enable Border	bordon:<window>	Current Status	bordon:0	
Disable Border	bordoff:<window>	Current Status	bordoff:0	
Set Border Width	setbord:<window>: <topbottom>,<leftright>	Current Status	setbord:2,2	Sets border to 2 pixels wide, top/bottom and left/right
Set Border Color	setbordcol:<window>: <Color Value>	Current Status	setbordcol:0:Red	RGB Colors Supported. Use values or traditional keywords

Status:

Action	Command	Response	Example	Notes
Get Current Status	getStatus	Current Status	getStatus	

getStatus Returns:

UNIT ID & SERIAL NUMBER	SVSL_VWP120:<UNITSERIAL>
Name:	<Unit Name>
Mac:	<Unit Mac Address>
IP:	<Unit IP Address>
NM:	<Unit Netmask>
GW:	<unit Gateway>
SWVER:	<current software version> "MM/DD/YYYY"
WEBVER:	<current Web Version>
UPDATE:	
UPDTRY:	
UPDFAILED:	
MEDIASRC:	1 – Live Play
AUDIOSTATE:	0 – Disabled 1 – Enabled
OUTSTREAM:	Output Stream Number
AUDIOSTREAM:	Current Audio Stream receiving
W0Stream:	Current Video Stream for Window 1

getStatus Returns:

W1Stream:	Current Video Stream for Window 2
W2Stream:	Current Video Stream for Window 3
W3Stream:	Current Video Stream for Window 4
DIVASEN:	0 – Not Conductor Enabled 1 – Conductor Enabled
DIVASIP:	IP address of VDC108 or VDC208 communicating with
VIDEOMODE:	Current Resolution.mode (IE 720p.mode)

Additional Notes:

Additional information about the status of the N-Series Windowing Processor that is not part of the current status response packet is available at <http://<IPADDRESS>/wpGetParams.php>. This XML document can be imported and parsed and includes current status for: border on/off, window enabled/disabled and more. This XML document is another useful location to get the current status of the N-Series Windowing Processor.

ITSIMPLYWORKS

Distribution | Switching | Recording | Windowing | Wall Processing | Control