N-Series Windowing Processor

An SVSI system is comprised of Encoders, Decoders, and other available accessories including Network Video Recording (NVR) solutions, Window Processing (WP) units, and Audio Transceivers (ATRs). The system allows you to distribute HD video and audio across a Gigabit Ethernet network. Each device is controllable via TCP/IP direct socket using device IP addresses and port 50002. Port 50002 supports a single connection at one time and rejects all other connection attempts until the established connection is closed.

Refer to this document to find the commands needed for your Windowing Processor application.

NOTE: This information is considered current as of the date of publication. AMX reserves the right to add/modify/remove commands and change the standard response packet as needed.

NOTE: Window numbers index at 0.

NOTE: In the Example sections of this document, <CR> indicates a carriage return as defined by your control method (e.g., \r, \x0d, $0d, 00x0d, 0x0d, 0dH). <CRLF> is also supported, but not required.

API Command List

| Command	Description	Variables	Example
winset	Set coordinates for window arrangement.	• Window number (0-3). • xUL, yUL: x, y coordinates (in pixels) for upper-left corner of window. • xLR, yLR: x, y coordinates (in pixels) for lower-right corner of window.	winset:1:0,0,960,540<CR>
cropwinset	Set crop parameters.	• Window number (0-3). • xUL, yUL: x, y crop coordinates (in pixels) for upper-left corner of window. • xLR, yLR: x, y crop coordinates (in pixels) for lower-right corner of window.	cropwinset:1:0,0,959,540<CR>
cropref	Set crop parameters (based on 1080p reference).	• Window number (0-3). • xUL, yUL: x, y crop coordinates (in pixels) for upper-left corner of window. • xLR, yLR: x, y crop coordinates (in pixels) for lower-right corner of window.	cropref:1:963,542,1920,1080<CR>
set	Set stream number for designated window.	• Window number (0-3). • Stream number (1-254).	set:1:240<CR>
setz	Set layering/priority order of the windows.	• Window number (0-3). • Z settings (1-4, with 4 being the top-most).	setz:1:1<CR>
setbord	Set window border.	• Window number (0-3). • Vertical border width (in pixels). • Horizontal border width (in pixels).	setbord:1:8,8<CR>
setbordcol	Set window border color.	• Window number (0-3). • RGB values (0-255).	setbordcol:1:124,168,205<CR>
bordon	Turn on border for window.	Window number (0-3).	bordon:1<CR>
bordoff	Turn off border for window.	Window number (0-3).	bordoff:1<CR>
winon	Turn on window.	Window number (0-3).	winon:1<CR>
winoff	Turn off window.	Window number (0-3).	winoff:1<CR>
preset	Load preset settings.	Window number (0-3).	preset:1<CR>
seta	Set output audio source stream.	Audio source stream number (1-254).	seta:1<CR>
mute	Mute audio.		mute<CR>
unmute	Unmute audio.		unmute<CR>
setbkgd	Set background image.	Background number (1-4).	setbkgd:2<CR>

| Command	Description	Variables	Example
bkgndloaded	Refresh the window to the newly uploaded background.	Window number (0-3).	bkgndloaded:1<CR>
lploaded	Refresh the window to the newly uploaded local play image.	Window number (0-3).	lploaded:1<CR>
modeset	Set output resolution of Windowing Processor.	Mode name. 1024x768	1080p	1080p59.94 |1080p60 1080p_24hz	1360x768	1366x768	1600x1200	1680x1050	480p	720p	720p59.94	720p60	800x600	modeset:1080p<CR>
windowReset	Restart a window.	Window number (0-3).	windowReset:1<CR>
getStatus	Returns current device status string in XML form.		getStatus<CR>
setSettings:name	Set a unit name for the Windowing Processor.	Serial string (255 character max).	name:Conf WP 2<CR>
setSettings:quality	Set compression level of stream.	Quality value (1-100). The higher the value, the better the quality.	quality:80<CR>
setSettings: motionQuality	Set the motion quality of stream.	Quality value (1-100). The higher the value, the better the quality.	motionQuality:80<CR>
setSettings: extremeMode	Enable or disable extreme quality mode.	on	off	extremeMode:on<CR>
setSettings: audioDelay	Set an audio delay (in milliseconds).	Delay value in milliseconds (1-255).	setSettings:audioDelay 50<CR>
setSettings: setStream	Set the stream number for the Windowing Processor.	Stream number (1-32767).	setSettings:setStream 240<CR>
setSettings: mode	Enable or disable output stream.	on	off	setSettings:mode off<CR>
setSettings: mediaPort0	Allow or disallow multicast on the P0 port.	on	off	setSettings:mediaPort0 on<CR>
setSettings: mediaPort1	Allow or disallow multicast on the P1 port.	on	off	setSettings:mediaPort1 off<CR>
setSettings: mediaPort2	Allow or disallow multicast on the P2 port.	on	off	setSettings:mediaPort2 on<CR>

API Command Discovery

Follow these steps to discover API commands using the web interface's **Log** page.

NOTE: This example features an SVSI system Decoder, but the steps also apply to most SVSI system products.

1. Log in to your unit's web interface and click the **Logs** link at the top of the page.
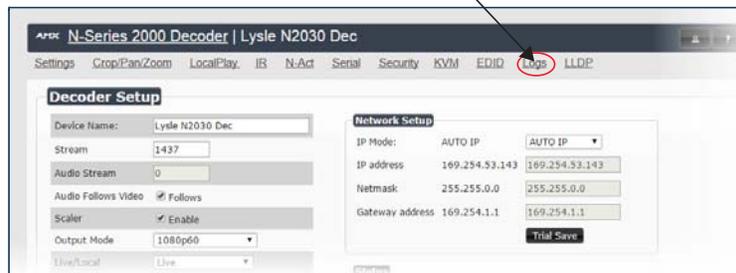
2. Click the **Reset Logs** button.
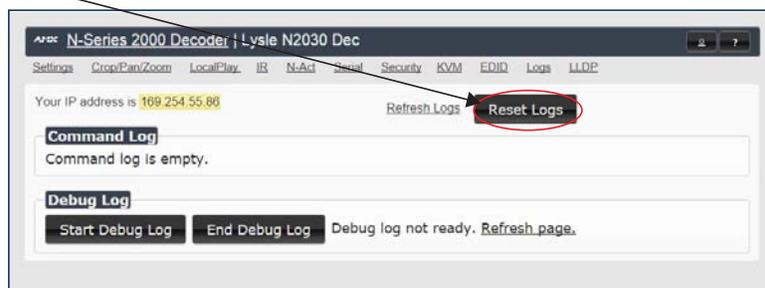
3. Change a setting. For this example, we are discovering the API command used to change the **Stream** setting.
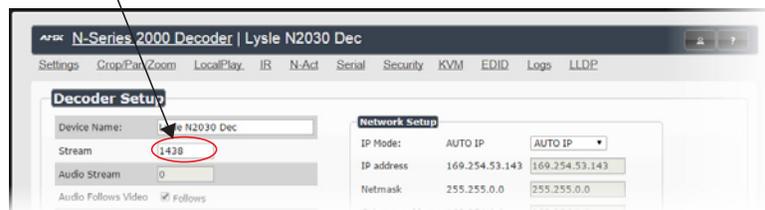
4. Return to the **Logs** page. The API command for the change displays here.
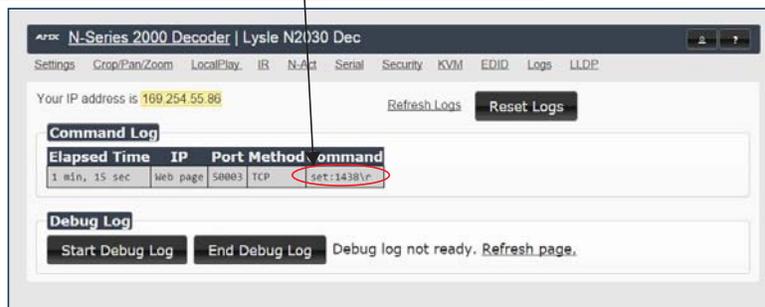
Please contact SVSI technical support at svsisupport@harman.com or 256.461.7143 x9900 for any installation issues. Visit our support webpage at support.svsiav.com.

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