

Check HDA State Guide

W: C High-Definition Audio

Check HDA State Guide





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Check HDA State Guide

Gathering HDA Audio Logs with the Check HDA State Tool

When experiencing audio issues with an HDA system, it is important to run the "**Check HDA State v1653**" logging tool on the network when you hear audio issues and **when you** <u>do not</u> hear audio issues. Follow the steps listed below. Please **USE WIRED ETHERNET ON YOUR PC** for the best results. This tool must be run onsite with the HDA system.

1. Verify that the HDA-SW5 switches are running firmware v150. If not, please update the HDA-SW5 AVB switches with the firmware linked below.

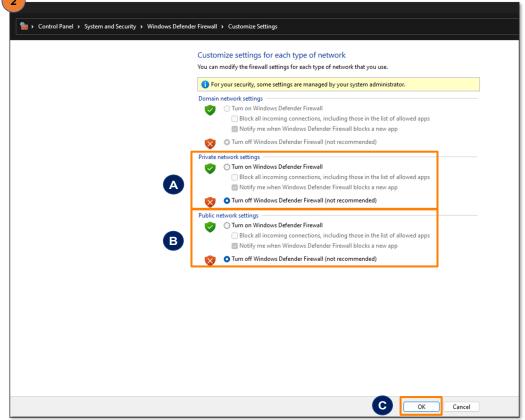
HDA-SW5 Firmware

(Do not unzip this file).



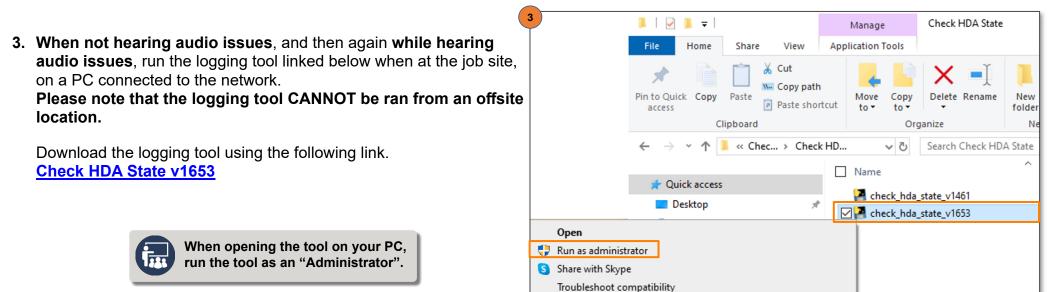
Run Accelerator as an "Administrator" and use the HDA-SW5 update tool (Tools -> HDA-SW5 Update) to check the firmware of the HDA-SW5 switch or to load the new v150 firmware into the switch if necessary.

- 2. Go into "Windows Defender" on your PC and Turn off the following options to allow the logging tool to gather the logs.
 - **A.** Private network settings.
 - **B.** Public network settings.
 - C. Click OK.





Gathering HDA Audio Logs with the Check HDA State Tool (cont'd)





Gathering HDA Audio Logs with the Check HDA State Tool (cont'd)

- Make sure you are on a wired network and not wifi. Please don't make changes to the system, run a scanning tool like "Wireshark", download from Accelerator or reboot devices during the scan.
- When executed a terminal window will appear. It will collect information about all HDA devices on the network. This will take about 10 minutes (note: this greatly depends on the number of HDA devices on the network).
- The window will print out "ALL DONE, press Enter to exit". Please take a screenshot of the data in the window.
- Press"enter" to exit and a file labeled something similar to the following, hda_state_20231121_162545.raw will be created in the same directory

as the *check_hda_state* executable.Please provide this file to tech

support

4. While the logging tool is running, you will see a debug window open, as shown below. Please take a screenshot of the below information for each log captured and provide it to URC Tech Support.

itches: 4													
	1.144 db	co:1 v150	HDA-SHS	() MAC: 00	01fb846002b SN	43 HM	0.9						
					01fb84603b1 SN								
					01fb8460070 SN								
					01fb8460c2c SN								
							06 HW: 3, AS: 1, PTP:						
							36 HW: 2, AS: 1, PTP:						
							1: 46 HW: 3, AS: 1, PTP						
						0040 CN-	72 HW: 3, AS: 1, PTP:	aate koee en		AVE			
: 192.168	.1.37 dhc	p:0 v1653	HDA_4100	(HDA-4106) MAC: 001fb8	43002e SN	1: 46 HW: 3, AS: 1, PTP	: 001f b8ff	fe44 002e,	SLAVE			
192.168 192.168	.1.37 dhc .1.4 dhcp	p:0 v1653	HDA_4100 IDA_1600	(HDA-4106 (HDA-1600-) MAC: 001fb8 70V) MAC: 001	43002e SN fb842005a	1: 46 HW: 3, AS: 1, PTP SN: 90 HW: 3, AS: 1,	: 001f b8ff PTP: 001f b8	fe44 002e, 1 ff fe44 002	SLAVE e, SLAVE			
192.168 192.168	.1.37 dhc .1.4 dhcp	p:0 v1653	HDA_4100 IDA_1600	(HDA-4106 (HDA-1600-) MAC: 001fb8 70V) MAC: 001	43002e SN fb842005a	1: 46 HW: 3, AS: 1, PTP	: 001f b8ff PTP: 001f b8	fe44 002e, 1 ff fe44 002	SLAVE e, SLAVE			
: 192.168 : 192.168 : 192.168	.1.37 dhc .1.4 dhcp .1.7 dhcp	p:0 v1653	HDA_4100 IDA_1600	(HDA-4106 (HDA-1600-) MAC: 001fb8 70V) MAC: 001	43002e SN fb842005a	1: 46 HW: 3, AS: 1, PTP SN: 90 HW: 3, AS: 1,	: 001f b8ff PTP: 001f b8	fe44 002e, 1 ff fe44 002	SLAVE e, SLAVE			
192.168 192.168 192.168 Diagnosti	.1.37 dhc .1.4 dhcp .1.7 dhcp	p:0 v1653	HDA_4100 IDA_1600	(HDA-4106 (HDA-1600-) MAC: 001fb8 70V) MAC: 001	43002e SN fb842005a	1: 46 HW: 3, AS: 1, PTP SN: 90 HW: 3, AS: 1,	: 001f b8ff PTP: 001f b8	fe44 002e, 1 ff fe44 002	SLAVE e, SLAVE	lt_ann	lt_sync	lt_pd_r
192.168 192.168 192.168 Diagnosti ce	.1.37 dhc .1.4 dhcp .1.7 dhcp ics: role	p:0 v1653 :0 v1653) :0 v1653) as_cap	HDA_4100 HDA_1600 (HDA_IO (HO state	(HDA-4100 (HDA-1600- DA-I/O) M/ pdval	<pre>>) MAC: 001fb8 70V) MAC: 001 AC: 001fb84500 pdelay </pre>	43002e SN fb842005a 37 SN: 55 lostr	I: 46 HW: 3, AS: 1, PTP 5 SN: 90 HW: 3, AS: 1, 5 HW: 3, AS: 1, PTP: 00 ex	: 001f b8ff PTP: 001f b8 1f b8ff fe44 lr_ann_v	fe44 002e, 5 ff fe44 002 002e, SLAV	SLAVE e, SLAVE E ltr_sync			
192.168 192.168 192.168 Diagnosti ce 168.1.37	.1.37 dhc .1.4 dhcp .1.7 dhcp ics: role 2,2,2	p:0 v1653) 0 v1653) 0 v1653) as_cap 1,1,1	HDA_4100 HDA_1600 (HDA_IO (HU state 2,2,2	(HDA-4100 (HDA-1600- DA-I/O) M/ pdval 1,1,1	<pre>)) MAC: 001fb8 70V) MAC: 001 AC: 001fb84500 pdelay 218,218,218</pre>	43002e SN fb842005a 37 SN: 55 lostr 0,0,0	1: 46 HM: 3, AS: 1, PTP 1 SN: 90 HM: 3, AS: 1, 1 HN: 3, AS: 1, PTP: 00 0: 0: 0: 0: 0: 0: 0: 0: 0:	: 001f b8ff PTP: 001f b8 1f b8ff fe44 lr_ann_v 1,1,1	fe44 002e, 5 ff fe44 002 002e, SLAV	SLAVE e, SLAVE E ltr_sync 1251,1126	0,0	0,0	1000,10
192.168 192.168 192.168 Diagnosti ce 168.1.37 168.1.21	.1.37 dhc .1.4 dhcp .1.7 dhcp ics: role 2,2,2 0,0,0	p:0 v1653 } 0 v1653 } 0 v1653 } as_cap 1,1,1 1,1,1	HDA_4100 HDA_1600 H HDA_IO (HI state 2,2,2 0,0,0	(HDA-4106 (HDA-1600- DA-I/O) M# pdval 1,1,1 1,1,1	<pre>>) MAC: 001fb8 70V) MAC: 001 hC: 001fb84500 pdelay 218,218,218 213,212,212</pre>	43002e SN fb842005a 37 SN: 55 lostr 0,0,0 0,0,0	I: 46 HWI: 3, AS: 1, PTP SN: 90 HMI: 3, AS: 1, HWI: 3, AS: 1, PTP: 00 ex 2464,2465,2466 2484,2486,2487	: 001f b8ff PTP: 001f b8 1f b8ff fe44 lr_ann_v 1,1,1 0,0,0	fe44 002e, 5 ff fe44 002 002e, SLAV ltr_ann 1000,1000 0,0	SLAVE e, SLAVE E ltr_sync 1251,1126 0,0	0,0 2000,1000	0,0 1251,1251	1000,10
192.168 192.168 192.168 Diagnostice 168.1.37 168.1.21 168.1.32	.1.37 dhc .1.4 dhcp .1.7 dhcp ics: role 2,2,2 0,0,0 2,2,2	p:0 v1653 :0 v1653 :0 v1653 :0 v1653 as_cap 1,1,1 1,1,1 1,1,1	HDA_4100 IDA_1600 I IDA_IO (HI state 2,2,2 0,0,0 2,2,2	(HDA-4106 (HDA-1600- DA-I/O) M/ pdval 1,1,1 1,1,1 1,1,1	<pre>D) MAC: 001fb8 70V) MAC: 001 hC: 001fb84500 pdelay 218,218,218 213,212,212 222,222,222</pre>	43002e SN fb842005a 37 SN: 55 lostr 0,0,0 0,0,0 0,0,0	I: 46 HN: 3, AS: 1, PTP I SN: 90 HN: 3, AS: 1, HN: 3, AS: 1, PTP: 00 ex 2464,2465,2466 2484,2486,2487 2442,2443,2445	: 001f b8ff PTP: 001f b8 1f b8ff fe44 lr_ann_v 1,1,1 0,0,0 1,1,1	fe44 002e, 5 ff fe44 002 002e, SLAV ltr_ann 1000,1000 0,0 999,2000	SLAVE e, SLAVE E ltr_sync 1251,1126 0,0 1251,1251	0,0 2000,1000 0,0	0,0 1251,1251 0,0	1000,10 2000,10 1000,20
192.168 192.168 192.168 Diagnosti ce 168.1.37 168.1.21 168.1.32 168.1.12	.1.37 dhc .1.4 dhcp .1.7 dhcp ics: role 2,2,2 0,0,0 2,2,2 2,2,2	p:0 v1653 :0 v1653 + :0 v1653 + as_cap 1,1,1 1,1,1 1,1,1 1,1,1	HDA_4100 HDA_1600 HDA_IO (HO state 2,2,2 0,0,0 2,2,2 2,2,2	(HDA-4100 (HDA-1600)A-I/O) M pdval 1,1,1 1,1,1 1,1,1 1,1,1	<pre>b) MAC: 001fb8 70V) MAC: 001 10C: 001fb84500 pdelay 218,218,218 213,212,212 222,222,222 229,229,229</pre>	43002e SN fb842005a 37 SN: 55 lostr 	1: 46 HWI 3, AS: 1, PTP 5N: 90 HWI 3, AS: 1, HWI 3, AS: 1, PTP: 00 ex 2464,2465,2466 2464,2487 2442,2443,2445 703166,703167,703168	: 001f b8ff PTP: 001f b8 1f b8ff fe44 lr_ann_v 1,1,1 0,0,0 1,1,1 1,1,1	fe44 002e, 5 ff fe44 002 002e, SLAV ltr_ann 1000,1000 0,0 999,2000 1000,1000	SLAVE e, SLAVE E 1tr_sync 1251,1126 0,0 1251,1251 1126,1251	0,0 2000,1000 0,0 0,0	0,0 1251,1251 0,0 0,0	1000,10 2000,10 1000,20 1000,10
192.168 192.168 192.168 Diagnosti ce 168.1.37 168.1.21 168.1.32 168.1.22 168.1.12	.1.37 dhc .1.4 dhcp .1.7 dhcp ics: role 2,2,2 0,0,0 2,2,2 2,2,2 2,2,2 2,2,2	p:0 v1653 ; v0 v1653 ; v1653 ; v1653 ; as_cap 1,1,1 1,1,1 1,1,1 1,1,1 1,1,1	HDA_4100 HDA_1600 H HDA_IO (HI state 2,2,2 0,0,0 2,2,2 2,2,2 2,2,2	(HDA-4100 (HDA-1600))A-I/O) M pdval 1,1,1 1,1,1 1,1,1 1,1,1 1,1,1	<pre>D) MAC: 001fb8 70V) MAC: 001 1C: 001fb84500 pdelay </pre>	43002e SN fb842005a 37 SN: 55 lostr 0,0,0 0,0,0 0,0,0 0,0,0 0,0,0 0,0,0	I: 46 HW: 3, AS: 1, PTP SN: 90 HM: 3, AS: 1, HW: 3, AS: 1, PTP: 00 ex 2464,2465,2466 2484,2486,2487 2442,2443,2445 703166,703167,703168 2482,2483,2484	: 001f b8ff PTP: 001f b8 1f b8ff fe44 1.1.1 0,0,0 1.1.1 1.1.1 1.1.1	fe44 002e, 5 ff fe44 002 002e, 5LAV ltr_ann 1000,1000 0,0 999,2000 1000,1000	SLAVE e, SLAVE e 1tr_sync 1251,1126 0,0 1251,1251 1126,1251 1251,1251	0,0 2000,1000 0,0 0,0 0,0	0,0 1251,1251 0,0 0,0 0,0	1000,10 2000,10 1000,20 1000,10 1000,10
192.168	.1.37 dhc .1.4 dhcp .1.7 dhcp ics: role 2,2,2 0,0,0 2,2,2 2,2,2 2,2,2 2,2,2	p:0 v1653 :0 v1653 + :0 v1653 + as_cap 1,1,1 1,1,1 1,1,1 1,1,1	HDA_4100 HDA_1600 HDA_IO (HO state 2,2,2 0,0,0 2,2,2 2,2,2	(HDA-4100 (HDA-1600)A-I/O) M pdval 1,1,1 1,1,1 1,1,1 1,1,1	<pre>b) MAC: 001fb8 70V) MAC: 001 10C: 001fb84500 pdelay 218,218,218 213,212,212 222,222,222 229,229,229</pre>	43002e SN fb842005a 37 SN: 55 lostr 0,0,0 0,0,0 0,0,0 0,0,0 0,0,0 0,0,0 0,0,0	1: 46 HWI 3, AS: 1, PTP 5N: 90 HWI 3, AS: 1, HWI 3, AS: 1, PTP: 00 ex 2464,2465,2466 2464,2487 2442,2443,2445 703166,703167,703168	: 001f b8ff PTP: 001f b8 1f b8ff fe44 lr_ann_v 1,1,1 0,0,0 1,1,1 1,1,1	fe44 002e, 5 ff fe44 002 002e, SLAV ltr_ann 1000,1000 0,0 999,2000 1000,1000	SLAVE e, SLAVE E 1tr_sync 1251,1126 0,0 1251,1251 1126,1251	0,0 2000,1000 0,0 0,0	0,0 1251,1251 0,0 0,0	1000,10 2000,10 1000,20 1000,10

ting log to: C:\Users\ppittner\Desktop\Virtual Desktop\HDA Test Tools\Check HDA State v1653 010324\hda_state_20240118_150556.

LL DONE, press Enter to exit



Total Control

Interpreting the Important Data in the Log

A. dhcp:0 means the device is set to a Static IP. URC recommends that all HDA amplifiers and HDA-IO devices are set to a Static IP. This does not apply to an HDA-SW5 AVB Switch which should be left as a DHCP device (without any type of MAC reservation in the router).

dhcp:1 means the device is set to DHCP.

S	witches: 4
HD	DA: 192.168.1.144 dhcp:1 v150 HDA-SW5 () MAC: 001fb846002b SN: 43 HW: 0.9
н	DA: 192.168.1.195 dhcp:1 v150 HDA-SW5 () MAC: 001fb84603b1 SN: 945 HW: 0.9
HD	DA: 192.168.1.213 dhcp:1 v150 HDA-SW5 () MAC: 001fb8460070 SN: 112 HW: 0.9
HC	DA: 192.168.1.241 dhcp:1 v150 HDA-SW5 () MAC: 001fb8460c2c SN: 3116 HW: 0.9
	NAs: 7
HD	A: 192.168.1.1 dhcp:0 v1653 HDA_IO (HDA-I/O) MAC: 001fb84502c2 SN: 706 HW: 3, AS: 1, PTP: 001f b8ff fe44 002e, SLAVE
HD	DA: 192.168.1.12 dhcp:0 v1653 HDA_130 (HDA-130) MAC: 001fb8410024 SN: 36 HW: 2, AS: 1, PTP: 001f b8ff fe44 002e, SLAVE
HD	MA: 192.168.1.2↓ dhcp:0 v1653 HDA_8100 (HDA-8100) MAC: 001fb844002e SN: 46 HW: 3, AS: 1, PTP: 001f b8ff fe44 002e, MASTER
HD	MA: 192.168.1.3⊉ dhcp:0 v1653 HDA_130 (HDA-130) MAC: 001fb8410048 SN: 72 HW: 3, AS: 1, PTP: 001f b8ff fe44 002e, SLAVE
HD	MA: 192.168.1.3♥ dhcp:0 v1653 HDA_4100 (HDA-4100) MAC: 001fb843002e SN: 46 HW: 3, AS: 1, PTP: 001f b8ff fe44 002e, SLAVE
HD)A: 192.168.1.4 dhcp:0 v <mark>1</mark> 653 HDA_1600 (HDA-1600-70V) MAC: 001fb842005a SN: 90 HW: 3, AS: 1, PTP: 001f b8ff fe44 002e, SLAV
HD	MA: 192.168.1.7 dhcp:0 v1653 HDA IO (HDA-I/O) MAC: 001fb8450037 SN: 55 HW: 3, AS: 1, PTP: 001f b8ff fe44 002e, SLAVE

 B. Firmware version: The minimum firmware version for HDA amplifiers and HDA-IOs should be v1653. The minimum firmware version for HDA-SW5 switches is v150.

The following devices responded:
······································
Switches: 4
HDA: 192.168.1.144 dhcp:1 v150 HDA-SW5 () MAC: 001fb846002b SN: 43 HW: 0.9
HDA: 192.168.1.195 dhcp:1 v150 HDA-SW5 () MAC: 001fb84603b1 SN: 945 HW: 0.9
HDA: 192.168.1.213 dhcp:1 v150 HDA-SW5 () MAC: 001fb8460070 SN: 112 HW: 0.9
HDA: 192.168.1.241 dhcp:1 v150 HDA-SW5 () MAC: 001fb8460c2c SN: 3116 HW: 0.9
HDAs: 7
HDA: 192.168.1.11 dhcp: V1653 HDA_IO (HDA-I/O) MAC: 001fb84502c2 SN: 706 HW: 3, AS: 1, PTP: 001f b8ff fe44 002e, SLAVE
HDA: 192.168.1.12 dhcp: V1653 HDA_130 (HDA-130) MAC: 001fb8410024 SN: 36 HW: 2, AS: 1, PTP: 001f b8ff fe44 002e, SLAVE
HDA: 192.168.1.21 dhcp: 41653 HDA_8100 (HDA-8100) MAC: 001fb844002e SN: 46 HW: 3, AS: 1, PTP: 001f b8ff fe44 002e, MASTER
HDA: 192.168.1.32 dhcp: 41653 HDA_130 (HDA-130) MAC: 001fb8410048 SN: 72 HW: 3, AS: 1, PTP: 001f b8ff fe44 002e, SLAVE
HDA: 192.168.1.37 dhcp: 41653 HDA_4100 (HDA-4100) MAC: 001fb843002e SN: 46 HW: 3, AS: 1, PTP: 001f b8ff fe44 002e, SLAVE
HDA: 192.168.1.4 dhcp:0 v1653 HDA_1600 (HDA-1600-70V) MAC: 001fb842005a SN: 90 HW: 3, AS: 1, PTP: 001f b8ff fe44 002e, SLAVE
HDA: 192.168.1.7 dhcp:0 v1653 HDA_IO (HDA-I/O) MAC: 001fb8450037 SN: 55 HW: 3, AS: 1, PTP: 001f b8ff fe44 002e, SLAVE



Total Control

Interpreting the Important Data in the Log (cont'd)

- C. AS:1 means that the HDA amplifier or HDA-IO is seeing a gigabit network connection. This is required for HDA audio streaming to work. If the "AS" parameter is showing a value other than "1", the HDA amplifier or HDA-IO is not seeing a gigabit connection and HDA audio streaming will not work or can possibly be distorted. Check your CAT5e/Cat6 cabling and endpoints. The "AS" parameter does not apply to the HDA-SW5 switches. Using some non-AVB fiber transceivers, patch bays and improperly shielded Cat5e/6 cable can cause the failure of a gigabit connection.
- D. MASTER/SLAVE: In a system where multiple HDA amplifiers and HDA-IOs are being used, only one HDA unit should be listed as a MASTER. All other HDA units in the installation should be listed as a SLAVE. This applies when using an HDA-SW5 AVB switch, and other third-party AVB switches. Inform URC Tech support if you are using a third-party AVB switch.

TDAs: 7 HDA: 192.168.1.11 dhcp:0 v1653 HDA_IO (HDA-I/O) MAC: 001fb84502c2 SN: 706 HN: 3, AS: 1, PTP: 001f b8ff fe44 002e, SLAVE HDA: 192.168.1.12 dhcp:0 v1653 HDA_130 (HDA-130) MAC: 001fb8410024 SN: 36 HN: 2, AS: 1, PTP: 001f b8ff fe44 002e, SLAVE HDA: 192.168.1.21 dhcp:0 v1653 HDA_8100 (HDA-8100) MAC: 001fb8410024 SN: 46 HN: 2, AS: 1, PTP: 001f b8ff fe44 002e, MASTER HDA: 192.168.1.32 dhcp:0 v1653 HDA_130 (HDA-130) MAC: 001fb8410048 SN: 72 HN: 3, AS: 1, PTP: 001f b8ff fe44 002e, SLAVE HDA: 192.168.1.37 dhcp:0 v1653 HDA_1400 (HDA-1400) MAC: 001fb843002e SN: 46 HN: 3, AS: 1, PTP: 001f b8ff fe44 002e, SLAVE HDA: 192.168.1.37 dhcp:0 v1653 HDA_1600 (HDA-1600-70V) MAC: 001fb843002e SN: 90 HN: 3, AS: 1, PTP: 001f b8ff fe44 002e, SLAVE HDA: 192.168.1.7 dhcp:0 v1653 HDA_100 (HDA-1600-70V) MAC: 001fb843002F SN: 55 HN: 3, AS: 1, PTP: 001f b8ff fe44 002e, SLAVE HDA: 192.168.1.7 dhcp:0 v1653 HDA_10 (HDA-17/O) MAC: 001fb843007 SN: 55 HN: 3, AS: 1, PTP: 001f b8ff fe44 002e, SLAVE

HDAs: 7 HDAs: 7 HDA: 192.168.1.11 dhcp:0 v1653 HDA_IO (HDA-I/O) MAC: 001fb84502c2 SN: 706 HW: 3, AS: 1, PTP: 001f b8ff fe44 002e, SLAVE HDA: 192.168.1.12 dhcp:0 v1653 HDA_130 (HDA-130) MAC: 001fb8410024 SN: 36 HW: 2, AS: 1, PTP: 001f b8ff fe44 002e, SLAVE HDA: 192.168.1.21 dhcp:0 v1653 HDA_8100 (HDA-8100) MAC: 001fb8410024 SN: 46 HW: 3, AS: 1, PTP: 001f b8ff fe44 002e, SLAVE HDA: 192.168.1.32 dhcp:0 v1653 HDA_130 (HDA-130) MAC: 001fb8410048 SN: 72 HW: 3, AS: 1, PTP: 001f b8ff fe44 002e, SLAVE HDA: 192.168.1.37 dhcp:0 v1653 HDA_130 (HDA-130) MAC: 001fb8410048 SN: 72 HW: 3, AS: 1, PTP: 001f b8ff fe44 002e, SLAVE HDA: 192.168.1.37 dhcp:0 v1653 HDA_4100 (HDA-4100) MAC: 001fb843002e SN: 46 HW: 3, AS: 1, PTP: 001f b8ff fe44 002e, SLAVE HDA: 192.168.1.4 dhcp:0 v1653 HDA_1600 (HDA-1600 PV) MAC: 001fb84205a SN: 90 HW: 3, AS: 1, PTP: 001f b8ff fe44 002e, SLAVE HDA: 192.168.1.4 dhcp:0 v1653 HDA_100 (HDA-1/O) MAC: 001fb8450037 SN: 55 HW: 3, AS: 1, PTP: 001f b8ff fe44 002e, SLAVE

D



Total Control

PTP Diagnostics

PTP diagnostics will give us valuable PTP information when troubleshooting audio issues in an HDA system.

Each HDA device is sampled three times for every run (and there will be three runs in total). Each device (that has firmware v1653 or later) should have some PTP diagnostics presented in a table.

We sample once every second. Each sample is separated by a comma, so all three samples are shown in each cell of the table.

- **A.** In the accompanying image notice how the MASTER unit (192.168.1.21) does not have any values for *Ir_ann_v*, *Itr_ann*, *Itr_sync*, and how the rest doesn't have values for *It_ann* and *It_sync* this is expected, see the description for each field below.
- **B. role**: Current PTP role, see the accompanying table.

TP Diagnosti													
evice	role	as_cap	state	pdval	pdelay	lostr	ex	lr_ann_v	ltr_ann	ltr_sync	lt_ann	lt_sync	lt_pd_req
92.168.1.37	2,2,2	1,1,1	2,2,2	1,1,1	218,218,218	0,0,0	2464,2465,2466	1,1,1	1000,1000	1251,1126	0,0	0,0	1000,1000
2.168.1.21	0,0,0	1,1,1	0,0,0	1,1,1	213,212,212	0,0,0	2484,2486,2487	0,0,0	0,0	0,0	2000,1000	1251,1251	2000,1000
2.168.1.32	2,2,2	1,1,1	2,2,2	1,1,1	222,222,222	0,0,0	2442,2443,2445	1,1,1	999,2000	1251,1251	0,0	0,0	1000,2000
2.168.1.12	2,2,2	1,1,1	2,2,2	1,1,1	229,229,229	0,0,0	703166,703167,703168	1,1,1	1000,1000	1126,1251	0,0	0,0	1000,1000
2.168.1.11	2,2,2	1,1,1	2,2,2	1,1,1	217,217,217	0,0,0	2482,2483,2484	1,1,1	1000,1000	1251,1251	0,0	0,0	1000,1000
2.168.1.7	2.2.2	1.1.1	2.2.2	1,1,1	224,224,224	0,0,0	703207,703208,703209	1.1.1	1002,998	1251,1126	0,0	0,0	1000,1000
2.168.1.4	2.2.2	1,1,1	2.2.2	1,1,1	215,215,215	0.0.0	2520,2521,2522	1,1,1	1000,1000	1126,1251	0.0	0,0	1000,1000

ing log to: C:\Users\ppittner\Desktop\Virtual Desktop\HDA Test Tools\Check HDA State v1653 010324\hda_state_2024

L DONE, press Enter to exit

В													
IP Diagnosti													
device	role	as_cap	state	pdval	pdelay	lostr	ex	lr_ann_v	ltr_ann	ltr_sync	lt_ann	lt_sync	lt_pd_req
192.168.1.37	2,2,2	1,1,1	2,2,2	1,1,1	218,218,218	0,0,0	2464,2465,2466	1,1,1	1000,1000	1251,1126	0,0	0,0	1000,1000
192.168.1.21	0,0,0	1,1,1	0,0,0	1,1,1	213,212,212	0,0,0	2484,2486,2487	0,0,0	0,0	0,0	2000,1000	1251,1251	2000,1000
192.168.1.32	2,2,2	1,1,1	2,2,2	1,1,1	222,222,222	0,0,0	2442,2443,2445	1,1,1	999,2000	1251,1251	0,0	0,0	1000,2000
192.168.1.12	2,2,2	1,1,1	2,2,2	1,1,1	229,229,229	0,0,0	703166,703167,703168	1,1,1	1000,1000	1126,1251	0,0	0,0	1000,1000
192.168.1.11	2,2,2	1,1,1	2,2,2	1,1,1	217,217,217	0,0,0	2482,2483,2484	1,1,1	1000,1000	1251,1251	0,0	0,0	1000,1000
192.168.1.7	2,2,2	1,1,1	2,2,2	1,1,1	224,224,224	0,0,0	703207,703208,703209	1,1,1	1002,998	1251,1126	0,0	0,0	1000,1000
192.168.1.4	2,2,2	1,1,1	2,2,2	1,1,1	215,215,215	0,0,0	2520,2521,2522	1,1,1	1000,1000	1126,1251	0,0	0,0	1000,1000

Value	Role
0	PTP MASTER
1	PTP UNCERTAIN
2	PTP SLAVE
3	PTP DISABLED



Total Control

PTP Diagnostics (cont'd)

C. as_cap: 802.1AS capable. Is 1 if we con the network to be capable of PTP or 0 otherwise.

P Diagnosti	cs:												
vice	role	as_cap	state	pdval	pdelay	lostr	ex	lr_ann_v	ltr_ann	ltr_sync	lt_ann	lt_sync	lt_pd_re
2.168.1.37	2,2,2	1,1,1	2,2,2	1,1,1	218,218,218	0,0,0	2464,2465,2466	1,1,1	1000,1000	1251,1126	0,0	0,0	1000,10
2.168.1.21	0,0,0	1,1,1	0,0,0	1,1,1	213,212,212	0,0,0	2484,2486,2487	0,0,0	0,0	0,0	2000,1000	1251,1251	2000,10
2.168.1.32	2,2,2	1,1,1	2,2,2	1,1,1	222,222,222	0,0,0	2442,2443,2445	1,1,1	999,2000	1251,1251	0,0	0,0	1000,20
2.168.1.12	2,2,2	1,1,1	2,2,2	1,1,1	229,229,229	0,0,0	703166,703167,703168	1,1,1	1000,1000	1126,1251	0,0	0,0	1000,10
2.168.1.11	2,2,2	1,1,1	2,2,2	1,1,1	217,217,217	0,0,0	2482,2483,2484	1,1,1	1000,1000	1251,1251	0,0	0,0	1000,10
2.168.1.7	2,2,2	1,1,1	2,2,2	1,1,1	224,224,224	0,0,0	703207,703208,703209	1,1,1	1002,998	1251,1126	0,0	0,0	1000,10
2.168.1.4	2.2.2	1,1,1	2,2,2	1,1,1	215,215,215	0,0,0	2520,2521,2522	1,1,1	1000,1000	1126,1251	0,0	0,0	1000,10

D. state: Same as **role** but from a different part of the system. Value should match up with the role.

levice	role	as_cap	state	pdval	pdelay	lostr	ex	lr_ann_v	ltr_ann	ltr_sync	lt_ann	lt_sync	lt_pd_req
92.168.1.37	2,2,2	1,1,1	2,2,2	1,1,1	218,218,218	0,0,0	2464,2465,2466	1,1,1	1000,1000	1251,1126	0,0	0,0	1000,100
92.168.1.21	0,0,0	1,1,1	0,0,0	1,1,1	213,212,212	0,0,0	2484,2486,2487	0,0,0	0,0	0,0	2000,1000	1251,1251	2000,100
92.168.1.32	2,2,2	1,1,1	2,2,2	1,1,1	222,222,222	0,0,0	2442,2443,2445	1,1,1	999,2000	1251,1251	0,0	0,0	1000,200
92.168.1.12	2,2,2	1,1,1	2,2,2	1,1,1	229,229,229	0,0,0	703166,703167,703168	1,1,1	1000,1000	1126,1251	0,0	0,0	1000,100
92.168.1.11	2,2,2	1,1,1	2,2,2	1,1,1	217,217,217	0,0,0	2482,2483,2484	1,1,1	1000,1000	1251,1251	0,0	0,0	1000,100
92.168.1.7	2,2,2	1,1,1	2,2,2	1,1,1	224,224,224	0,0,0	703207,703208,703209	1,1,1	1002,998	1251,1126	0,0	0,0	1000,100
92.168.1.4	2,2,2	1,1,1	2,2,2	1,1,1	215,215,215	0,0,0	2520,2521,2522	1,1,1	1000,1000	1126,1251	0,0	0,0	1000,100

E. pdval: Peer delay valid, 0 or 1.

F.	pdelay : Peer delay (in nanoseconds). This figure is of importance, we wouldn't expect this to be 800 or more. If that is the case it could for	
	instance be that the device has been connected to a non-PTP capable switch.	

TP Diagnosti	cs:												
evice	role	as_cap	state	pdval	pdelay	lostr	ex	lr_ann_v	ltr_ann	ltr_sync	lt_ann	lt_sync	lt_pd_req
92.168.1.37	2,2,2	1,1,1	2,2,2	1,1,1	218,218,218	0,0,0	2464,2465,2466	1,1,1	1000,1000	1251,1126	0,0	0,0	1000,1000
92.168.1.21	0,0,0	1,1,1	0,0,0	1,1,1	213,212,212	0,0,0	2484,2486,2487	0,0,0	0,0	0,0	2000,1000	1251,1251	2000,1000
92.168.1.32	2,2,2	1,1,1	2,2,2	1,1,1	222,222,222	0,0,0	2442,2443,2445	1,1,1	999,2000	1251,1251	0,0	0,0	1000,2000
92.168.1.12	2,2,2	1,1,1	2,2,2	1,1,1	229,229,229	0,0,0	703166,703167,703168	1,1,1	1000,1000	1126,1251	0,0	0,0	1000,1000
92.168.1.11	2,2,2	1,1,1	2,2,2	1,1,1	217,217,217	0,0,0	2482,2483,2484	1,1,1	1000,1000	1251,1251	0,0	0,0	1000,1000
92.168.1.7	2,2,2	1,1,1	2,2,2	1,1,1	224,224,224	0,0,0	703207,703208,703209	1,1,1	1002,998	1251,1126	0,0	0,0	1000,1000
92.168.1.4	2,2,2	1,1,1	2.2.2	1,1,1	215,215,215	0,0,0	2520,2521,2522	1,1,1	1000,1000	1126,1251	0,0	0,0	1000,1000

levice	role	as_cap	state	pdval	pdelay	lostr	ex	lr_ann_v	ltr_ann	ltr_sync	lt_ann	lt_sync	lt_pd_red
92.168.1.37	2,2,2	1,1,1	2,2,2	1,1,1	218,218,218	0,0,0	2464,2465,2466	1,1,1	1000,1000	1251,1126	0,0	0,0	1000,100
92.168.1.21	0,0,0	1,1,1	0,0,0	1,1,1	213,212,212	0,0,0	2484,2486,2487	0,0,0	0,0	0,0	2000,1000	1251,1251	2000,100
92.168.1.32	2,2,2	1,1,1	2,2,2	1,1,1	222,222,222	0,0,0	2442,2443,2445	1,1,1	999,2000	1251,1251	0,0	0,0	1000,200
92.168.1.12	2,2,2	1,1,1	2,2,2	1,1,1	229,229,229	0,0,0	703166,703167,703168	1,1,1	1000,1000	1126,1251	0,0	0,0	1000,100
92.168.1.11	2,2,2	1,1,1	2,2,2	1,1,1	217,217,217	0,0,0	2482,2483,2484	1,1,1	1000,1000	1251,1251	0,0	0,0	1000,100
92.168.1.7	2,2,2	1,1,1	2,2,2	1,1,1	224,224,224	0,0,0	703207,703208,703209	1,1,1	1002,998	1251,1126	0,0	0,0	1000,100
92.168.1.4	2.2.2	1.1.1	2.2.2	1.1.1	215,215,215	0.0.0	2520,2521,2522	1.1.1	1000,1000	1126,1251	0,0	0,0	1000,100



PTP Diagnostics (cont'd)

G. lostr: Lost responses.

IP Diagnosti													
evice	role	as_cap	state	pdval	pdelay	lostr	ex	lr_ann_v	ltr_ann	ltr_sync	lt_ann	lt_sync	lt_pd_req
2.168.1.37	2,2,2	1,1,1	2,2,2	1,1,1	218,218,218	0,0,0	2464,2465,2466	1,1,1	1000,1000	1251,1126	0,0	0,0	1000,1000
2.168.1.21	0,0,0	1,1,1	0,0,0	1,1,1	213,212,212	0,0,0	2484,2486,2487	0,0,0	0,0	0,0	2000,1000	1251,1251	2000,1000
2.168.1.32	2,2,2	1,1,1	2,2,2	1,1,1	222,222,222	0,0,0	2442,2443,2445	1,1,1	999,2000	1251,1251	0,0	0,0	1000,2000
2.168.1.12	2,2,2	1,1,1	2,2,2	1,1,1	229,229,229	0,0,0	703166,703167,703168	1,1,1	1000,1000	1126,1251	е,е	0,0	1000,1000
2.168.1.11	2,2,2	1,1,1	2,2,2	1,1,1	217,217,217	0,0,0	2482,2483,2484	1,1,1	1000,1000	1251,1251	0,0	0,0	1000,1000
2.168.1.7	2,2,2	1,1,1	2,2,2	1,1,1	224,224,224	0,0,0	703207,703208,703209	1,1,1	1002,998	1251,1126	0,0	0,0	1000,1000
2.168.1.4	2,2,2	1,1,1	2,2,2	1,1,1	215,215,215	0,0,0	2520,2521,2522	1,1,1	1000,1000	1126,1251	0,0	0,0	1000,1000

H. ex: Number of peer delay exchanges.

Н	TP Diagnosti	cs:												
	evice	role	as_cap	state	pdval	pdelay	lostr	ex	lr_ann_v	ltr_ann	ltr_sync	lt_ann	lt_sync	lt_pd_req
1	92.168.1.37	2,2,2	1,1,1	2,2,2	1,1,1	218,218,218	0,0,0	2464,2465,2466	1,1,1	1000,1000	1251,1126	0,0	0,0	1000,1000
1	92.168.1.21	0,0,0	1,1,1	0,0,0	1,1,1	213,212,212	0,0,0	2484,2486,2487	0,0,0	0,0	0,0	2000,1000	1251,1251	2000,1000
1	92.168.1.32	2,2,2	1,1,1	2,2,2	1,1,1	222,222,222	0,0,0	2442,2443,2445	1,1,1	999,2000	1251,1251	0,0	0,0	1000,2000
1	92.168.1.12	2,2,2	1,1,1	2,2,2	1,1,1	229,229,229	0,0,0	703166,703167,703168	1,1,1	1000,1000	1126,1251	0,0	0,0	1000,1000
1	92.168.1.11	2,2,2	1,1,1	2,2,2	1,1,1	217,217,217	0,0,0	2482,2483,2484	1,1,1	1000,1000	1251,1251	0,0	0,0	1000,1000
1	92.168.1.7	2,2,2	1,1,1	2,2,2	1,1,1	224,224,224	0,0,0	703207,703208,703209	1,1,1	1002,998	1251,1126	0,0	0,0	1000,1000
1	92.168.1.4	2,2,2	1,1,1	2,2,2	1,1,1	215,215,215	0,0,0	2520,2521,2522	1,1,1	1000,1000	1126,1251	0,0	0,0	1000,1000

- I. Ir_ann_v: Last received PTP announce valid. Is 1 if the last announce was valid. Note that only the MASTER, or devices aspiring to become MASTER will send out announce messages. That means that it is expected and normal for this to be 0 for the MASTER.
- J. Itr_ann: Last time *received*, PTP announce. All values are sampled three times. This will show the difference in time (in milliseconds) between the [second first], and [third second] samples. Expected periodicity around 1000 ms, but only if PTP SLAVE. A value of 0 means that the value did not change between samples.

PTP Diagnost													
device	role	as_cap	state	pdval	pdelay	lostr	ex	lr_ann_v	ltr_ann	ltr_sync	lt_ann	lt_sync	lt_pd_req
192.168.1.37	2 2 2		2.2.2	1,1,1	218,218,218		2464,2465,2466	1,1,1	1000 1000	1251,1126	0,0	0,0	1000,1000
192.168.1.21		1,1,1	0,0,0	1,1,1	213,212,212		2484,2486,2487	0,0,0	0.0	0.0			2000,1000
192.168.1.32			2,2,2	1,1,1	222,222,222		2442,2443,2445	1,1,1		1251,1251	0,0	0,0	1000,2000
192.168.1.12	2,2,2	1,1,1	2,2,2	1,1,1	229,229,229	0,0,0	703166,703167,703168	1,1,1	1000,1000	1126,1251	0,0	e,e	1000,1000
192.168.1.11	2,2,2	1,1,1	2,2,2	1,1,1	217,217,217	0,0,0	2482,2483,2484	1,1,1	1000,1000	1251,1251	0,0	0,0	1000,1000
192.168.1.7	2,2,2	1,1,1	2,2,2	1,1,1	224,224,224	0,0,0	703207,703208,703209	1,1,1	1002,998	1251,1126	0,0	0,0	1000,1000
192.168.1.4	2,2,2	1,1,1	2,2,2	1,1,1	215,215,215	0,0,0	2520,2521,2522	1,1,1	1000,1000	1126,1251	0,0	0,0	1000,1000

levice	role	as_cap	state	pdval	pdelay	lostr	ex	lr_ann_v	ltr_ann	ltr_sync	lt_ann	lt_sync	lt_pd_red
92.168.1.37	2,2,2	1,1,1	2,2,2	1,1,1	218,218,218	0,0,0	2464,2465,2466	1,1,1	1000,1000	1251,1126	0,0	0,0	1000,100
92.168.1.21	0,0,0	1,1,1	0,0,0	1,1,1	213,212,212	0,0,0	2484,2486,2487	0,0,0	0,0	0,0	2000,1000	1251,1251	2000,100
92.168.1.32	2,2,2	1,1,1	2,2,2	1,1,1	222,222,222	0,0,0	2442,2443,2445	1,1,1	999,2000	1251,1251	0,0	0,0	1000,200
92.168.1.12	2,2,2	1,1,1	2,2,2	1,1,1	229,229,229	0,0,0	703166,703167,703168	1,1,1	1000,1000	1126,1251	0,0	0,0	1000,100
92.168.1.11	2,2,2	1,1,1	2,2,2	1,1,1	217,217,217	0,0,0	2482,2483,2484	1,1,1	1000,1000	1251,1251	0,0	0,0	1000,100
92.168.1.7	2,2,2	1,1,1	2,2,2	1,1,1	224,224,224	0,0,0	703207,703208,703209	1,1,1	1002,998	1251,1126	0,0	0,0	1000,100
92.168.1.4	2,2,2	1,1,1	2,2,2	1,1,1	215,215,215	0,0,0	2520,2521,2522	1,1,1	1000,1000	1126,1251	0,0	0,0	1000,100



Total Control

PTP Diagnostics (cont'd)

- **K. Itr_sync**: Last time *received*, PTP sync. All values are sampled three times. This will show the difference in time (in milliseconds) between the [second first], and [third second] samples. Expected periodicity around 125 ms, but only if PTP SLAVE. A value of 0 means that the value did not change between samples.
- L. It_ann: Last time *sent*, PTP announce. All values are sampled three times. This will show the difference in time (in milliseconds) between the [second - first], and [third - second] samples. Expected periodicity around 1000 ms, but only if PTP MASTER. A value of 0 means that the value did not change between samples.
- **M. It_sync**: Last time *sent*, PTP sync. All values are sampled three times. This will show the difference in time (in milliseconds) between the [second first], and [third second] samples. Expected periodicity around 125 ms, but only if PTP MASTER. A value of 0 means that the value did not change between samples.
- N. Itr_pd_req: Last time *sent*, PTP peer delay request. All values are sampled three times. This will show the difference in time (in milliseconds) between the [second first], and [third - second] samples. Expected periodicity around 1000 ms. A value of 0 means that the value did not change between samples.

TP Diagnosti													
evice	role	as_cap	state	pdval	pdelay	lostr	ex	lr_ann_v	ltr_ann	ltr_sync	lt_ann	lt_sync	lt_pd_req
92.168.1.37	2,2,2	1,1,1	2,2,2	1,1,1	218,218,218	0,0,0	2464,2465,2466	1,1,1	1000,1000	1251,1126	0,0	0,0	1000,1000
92.168.1.21	0,0,0	1,1,1	0,0,0	1,1,1	213,212,212	0,0,0	2484,2486,2487	0,0,0	0,0	0,0	2000,1000	1251,1251	2000,100
92.168.1.32	2,2,2	1,1,1	2,2,2	1,1,1	222,222,222	0,0,0	2442,2443,2445	1,1,1	999,2000	1251,1251	0,0	0,0	1000,200
92.168.1.12	2,2,2	1,1,1	2,2,2	1,1,1	229,229,229	0,0,0	703166,703167,703168	1,1,1	1000,1000	1126,1251	0,0	0,0	1000,100
92.168.1.11	2,2,2	1,1,1	2,2,2	1,1,1	217,217,217	0,0,0	2482,2483,2484	1,1,1	1000,1000	1251,1251	0,0	0,0	1000,100
92.168.1.7	2,2,2	1,1,1	2,2,2	1,1,1	224,224,224	0,0,0	703207,703208,703209	1,1,1	1002,998	1251,1126	0,0	0,0	1000,100
92.168.1.4	2.2.2	1,1,1	2,2,2	1,1,1	215,215,215	0.0.0	2520,2521,2522	1,1,1	1000,1000	1126,1251	0.0	0,0	1000,100

TP Diagnosti													
evice	role	as_cap	state	pdval	pdelay	lostr		lr_ann_v	ltr_ann	ltr_sync	lt_ann	lt_sync	lt_pd_r
92.168.1.37	2,2,2	1,1,1	2,2,2	1,1,1	218,218,218	0,0,0	2464,2465,2466	1,1,1	1000,1000	1251,1126	0,0	0,0	1000,1
92.168.1.21	0,0,0	1,1,1	0,0,0	1,1,1	213,212,212	0,0,0	2484,2486,2487	0,0,0	0,0	0,0	2000,1000	1251,1251	2000,1
92.168.1.32	2,2,2	1,1,1	2,2,2	1,1,1	222,222,222	0,0,0	2442,2443,2445	1,1,1	999,2000	1251,1251	0,0	0,0	1000,2
92.168.1.12	2,2,2	1,1,1	2,2,2	1,1,1	229,229,229	0,0,0	703166,703167,703168	1,1,1	1000,1000	1126,1251	0,0	0,0	1000,1
2.168.1.11	2,2,2	1,1,1	2,2,2	1,1,1	217,217,217	0,0,0	2482,2483,2484	1,1,1	1000,1000	1251,1251	0,0	0,0	1000,1
92.168.1.7	2,2,2	1,1,1	2,2,2	1,1,1	224,224,224	0,0,0	703207,703208,703209	1,1,1	1002,998	1251,1126	0,0	0,0	1000,1
92.168.1.4	2.2.2	1.1.1	2.2.2	1,1,1	215,215,215	0,0,0	2520,2521,2522	1,1,1	1000,1000	1126,1251	0,0	0.0	1000,1

TP Diagnosti evice	role	as_cap	state	ndual.	pdelay	lostr		lr ann v	ltr_ann	Ite sues	lt ann	lt sync	lt_pd_re
vice	Fore	as_cap	scace	buyar	pueray	TOSCH	ex	TL-aun-A	TCL-ann	rei-Tahue	rc_ann	rc_sync	rc_pu_re
2.168.1.37			2,2,2	1,1,1	218,218,218	0,0,0	2464,2465,2466	1,1,1	1000,1000	1251,1126		0,0	1000,10
2.168.1.21	0,0,0	1,1,1	0,0,0	1,1,1	213,212,212	0,0,0	2484,2486,2487	0,0,0	0,0	0,0	2000,1000	1251,1251	2000,10
2.168.1.32	2,2,2	1,1,1	2,2,2	1,1,1	222,222,222	0,0,0	2442,2443,2445	1,1,1	999,2000	1251,1251	0,0	0,0	1000,26
2.168.1.12	2,2,2	1,1,1	2,2,2	1,1,1	229,229,229	0,0,0	703166,703167,703168	1,1,1	1000,1000	1126,1251	0,0	0,0	1000,10
2.168.1.11	2,2,2	1,1,1	2,2,2	1,1,1	217,217,217	0,0,0	2482,2483,2484	1,1,1	1000,1000	1251,1251	0,0	0,0	1000,10
2.168.1.7	2,2,2	1,1,1	2,2,2	1,1,1	224,224,224	0,0,0	703207,703208,703209	1,1,1	1002,998	1251,1126	0,0	0,0	1000,10
2.168.1.4			2.2.2	1,1,1	215,215,215		2520,2521,2522	1,1,1	1000,1000	1126,1251		0,0	1000,10

device	role	as_cap	state	pdval	pdelay	lostr	ex	lr_ann_v	ltr_ann	ltr_sync	lt_ann	lt_sync	lt_pd_re
92.168.1.37	2,2,2	1,1,1	2,2,2	1,1,1	218,218,218	0,0,0	2464,2465,2466	1,1,1	1000,1000	1251,1126	0,0	0,0	1000,100
92.168.1.21	0,0,0	1,1,1	0,0,0	1,1,1	213,212,212	0,0,0	2484,2486,2487	0,0,0	0,0	0,0	2000,1000	1251,1251	2000,100
92.168.1.32	2,2,2	1,1,1	2,2,2	1,1,1	222,222,222	0,0,0	2442,2443,2445	1,1,1	999,2000	1251,1251	0,0	0,0	1000,200
92.168.1.12	2,2,2	1,1,1	2,2,2	1,1,1	229,229,229	0,0,0	703166,703167,703168	1,1,1	1000,1000	1126,1251	0,0	0,0	1000,100
92.168.1.11	2,2,2	1,1,1	2,2,2	1,1,1	217,217,217	0,0,0	2482,2483,2484	1,1,1	1000,1000	1251,1251	0,0	0,0	1000,100
92.168.1.7	2,2,2	1,1,1	2,2,2	1,1,1	224,224,224	0,0,0	703207,703208,703209	1,1,1	1002,998	1251,1126	0,0	0,0	1000,100
92.168.1.4	2,2,2	1,1,1	2,2,2	1,1,1	215,215,215	0,0,0	2520,2521,2522	1,1,1	1000,1000	1126,1251	0,0	0,0	1000,100



Working with the .raw File

When the log window closes, a "**.raw**" file is created in the same folder you placed the logging tool. URC Tech Support will need to view the ".raw" files created by the logging tool when no static is heard, and when static is heard. It wouldn't hurt to run 2 or 3 logging sessions when you hear audio issues.

HDA Test Tools > Check HDA State v1653 010324			
Name	Date modified	Туре	Size
🗐 check_hda_state_v1653.docx	1/17/2024 5:24 PM	Microsoft Word D	153 KB
🚰 check_hda_state_v1653.exe	1/3/2024 12:15 PM	Application	6,411 KB
🔁 check_hda_state_v1653.pdf	1/3/2024 12:15 PM	PDF Document	81 KB
hda_state_20240103_122801.raw	1/3/2024 12:38 PM	RAW File	293 KB
hda_state_20240118_145813.raw	1/18/2024 3:04 PM	RAW File	149 KB
hda_state_20240118_150556.raw	1/18/2024 3:15 PM	RAW File	295 KB
📚 xupimg_hw_2_v1653_20240103_1428.zip	1/3/2024 12:15 PM	WinRAR ZIP archive	1,745 KB



Network Setup Notes

- Always connect the HDA-SW5 AVB Switches directly to the router, not to another network switch.
- Equally important is that "VLAN 2" is not used anywhere in the network. VLAN 2 should not be set to be used in the router or any managed switch. VLAN 2 should be reserved for HDA audio streaming. This VLAN is created by the HDA-SW5 AVB Switches.
- Do not use a MAC reservation with your HDA-SW5 switches. Let these switches run as pure DHCP devices.
- Verify IGMP snooping is disabled.



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