



v1.0

SVSI / BSS AES-67 Configuration Guide

14-Feb-20

Relevant Equipment

BSS Blu-806DA (or other BSS model ending in "DA")

SVSI encoders & decoders (Not all models support AES67; models ending with an "A" typically support AES67, however check the specs to be certain or open up the web configuration and check if It has an AES67 tab at the top.) **Audio Architect**

Dante Controller

Step 1: Download

I) Audio Architect 2.0 or later

- 2) Latest SVSI Firmware
- 3) Dante Controller Application (<u>https://www.audinate.com/products/software/dante-controller</u>)
- 4) Dante Firmware Updater (<u>https://www.audinate.com/products/firmware-update-manager</u>)

Step 2: Updates

- 1) Update BSS Device Application firmware as needed in Audio Architect.
- 2) Update the Brooklyn II chips as needed with Audinate Updater, and the file contained within the AA file path. Typical File Path: "C:\Program Files\Harman Pro\Audio Architect (version #)\Eirmwarel Indates\SoundWebl ondonDante dpt"
 - #)\FirmwareUpdates\SoundWebLondonDante.dnt"
 - a. Note, this may require physically connected the host PC to the primary Dante/AES port on the Soundweb device.
- 3) Update SVSI Device(s) as needed to latest firmware that supports AES67
- 4) Update Switch Configuration the following configuration is for Cisco SG300 series switch, and can be utilized as well within the 500 series switch. Other switches may or may not require this configuration change. Check with HARMAN SVSI Technical Support for additional details.

Switch needs to be configured to statically route multicast groups: 224.0.0.230 224.0.0.231 224.0.0.232 224.0.0.233 To all ports within the network switch. Example from VSW300-28 Below:

ip igmp snooping vlan 999 static 224.0.0.230 interface gil-28

ip igmp snooping vlan 999 static 224.0.0.231 interface gil-28

ip igmp snooping vlan 999 static 224.0.0.232 interface gil-28

ip igmp snooping vlan 999 static 224.0.0.233 interface gil-28

5) Install Dante Controller and open the controller.

Step 3: Configuration of BSS:

Once the firmware updates are completed, and the unit rebooted after the Brooklyn II Chipset update, open Audio Architect and begin normal configuration of your program.

Once the Soundweb devices have been added, in the device view click and highlight your Soundweb to show the device properties. Select the 'Dante' Tab and verify that:

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- 1) AES67 Enabled = Yes
- 2) AES67 Multicast Prefix = 69

The prefix can be changed, but the standard is 69. This is what generates the appropriate Multicast streams, and end up generating streams of 239.69.XX.YY from the unit. Changing 69, will result in a different multicast scheme and can disable connections to other sending and receiving devices.

Route Audio

Add a Dante Input Block, and click the grey 'CH' Button. In the following window, add channels the block by clicking the "add" button. 32 is the Maximum amount of channels. Renaming the channels in the block will populate to Dante Controller Later as "Block ID – Channel ID"

Add a Dante Output Block, and click the grey 'CH' Button. Repeat the same steps for the input block above.

On both blocks, change "Routing Type" in the blocks properties to Dante Controller:



Send the file to the Sound Web device and go online with it.

In Dante Controller

Open Dante Controller, and click **Device > Device View.**

In Device View, Select the Sound Web Device, and then Click the Transmit Tab, then select from the top menu Device > Create Multicast Flow

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In Multicast Flow:

Check the AES67 Flow

Then click to add the appropriate channels to the New Flow and then click Create This will create the flow, and show the Multicast Address of the new flow.



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🥺 Dante Controlle	er - Device View (BLU-806-1)					_		×	
File Device View	Help								
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Receive Transmit	Status Latency Device Confi	g Network Config	AES67 Config						
	Transmit Chan	nels			Transmit Flows				
Channel	Signal	Channel Label			Unicast: 0				
01	a (0)	BSS-OUT-1		~	Total: 1 of 32				
02	a (0)	BSS-OUT-2			Multicast Flow 32: BSS-OLT-1 BSS-OLT-2 (239	69 126 1	60)		
03	u(1)				AES67 Session Id=74639648	.00.120.1			
04	u(1)								
05	u(1)								
06	u(1)								
07	u(1)								
08	u(0)								
09	u(0)								
10	ul[0)								
11	u(1)								
12	u(0)								
13	u(1)								
14	u(1)								
15	u(0)								
16	C((0)								
17	u(0)								
18	u[[4]								
19	u[[4]								
20	C[[4]								
21	C[[4]								
22	CI(0)								
23	CI(0)								
24	C[[0]								
25	u[[4]								
26	u[[4]								
27	u[[4]								
28	u[[4]			~	Delete				
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The AES67 Stream will now be available to other AES Devices. This process creates a SAP/SDP message that other devices can be listening for. If the Dante Controller Application goes offline, the SAP messages will cease to be broadcast, but audio still routed WILL continue to function.

Return to the primary routing table of Dante Controller.

Click the top left icon to show the filter options, and verify that in

Tx Multicast Flows = Active AES67 Enabled = Checked

In the routing table, the input/rx of the BSS Devices will appear in the table, but the SVSI devices will not. If the receiving device is available, click the cross point between the sources (top) and receivers (left) to route the audio.

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In the SVSI Device (Encoder or Decoder):

Open the unit's web page, and navigate to the AES67 Tab along the top.

Check the box to Enable AES67 – NOTE – this disables the PCM audio functionality of the unit and it will no longer send/receive from a standard Non-AES67 device, unless AES67 Mode is disabled. This functionality is controllable.

In the SVSi Encoder:

Enter a multicast address for the desired outgoing stream. The address should have the same multicast prefix as the Sound web devices. You may wish to verify on the switch that any desired multicast address is not already in use by another device. Set the address to 239.69.XX.YY as needed. The Audio port is **5004**.

Settings	HostPlay	IR	N-Aot	<u>Serial</u>	Seourity	<u>KVM</u>	EDID	Logs	LLDP	<u>NetLinx</u>	AES67
AES	57 Audi	o Co	nfigu	ration							
AES6	7 Audio			Enable	e						
AES6	7 Audio	Add	ress 2	39.69.	13.10]				
AES6	7 Audio	Port	5	004							
				Save							

In the SVSi Decoder:

Enter in the Audio IP address found in the Dante Controller when setting up the multicast flow. The Audio Port is 5004. Select the number of channels being output of the Encoding source. *NOTE* – *this is key, as the channel-count must match for proper audio output!*





Click Save. The Unit should now be receiving the audio from the Sound Web Device.

ettings	Crop/Pan/Zoom	LooalP	lay	IR	N-Aot	Serial	Seourity	<u>KVM</u>	EDID	Logs	LLDP	NetLinx	AES67	
AES	67 Audio Cor	nfigu	rati	on										
AES	57 Audio		V EI	nabl	е									
AES	57 Audio Addro	ess	239	. <mark>6</mark> 9.	12.39									
AES	57 Audio Port		500	4										
AES67	57 <mark>Audio Ch</mark> an	inels	2 -											
			Sa	ive										