

VIPEDIA-12-PRO / INTEGRA-PRO

Dante Configuration



ASL Document Ref.: U-0641-3466.docx Issue: 01 complete, approved - Date: 25/03/22 Please refer to ASL's downloads page for latest revisions of all user documentation.



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Document Change History

	lssue	Amendment Summary	Date
I	1	First release	25/03/22

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1 Introduction

1.1 Document Purpose

This Configuration Guide provides and overview of VIPEDIA-12-PRO / INTEGRA-PRO units and describes the specific steps required to configure Dante audio routing in VIPEDIA-12-PRO and/or INTEGRA-PRO based systems. It also provides instructions on how to update the firmware on Dante modules.

This guide does not provide:

- Instructions on how to configure, set up and commission ASL devices in the PAVA system.
- Details on non-Dante features on VIPEDIA-12-PRO / INTEGRA-PRO units.
- Details on external network switches used in the system.

Please see additional information in Sections "1.2 Prerequisites" (page 5) and "3 Configuration Overview" (page 11).

1.2 Prerequisites

This Configuration Guide assumes that:

- The user is familiar with the configuration of VIPEDIA-12 and/or INTEGRA systems (non-Dante), including the use of the PAVA System Configuration Tool (PAVA SCT), VIPA Config Tool (VCT) and the setup of VIPEDIA-12, INTEGRA and VIPEDIA-NET devices.
- The user is familiar with the use of the Dante Controller to configure Dante devices.
- The configuration PC has the required tools:
 - PAVA System Configuration Tool (PAVA SCT) and VIPA Config Tool (VCT): available from ASL or an appointed ASL distributor.
 - Dante Controller: available from Audinate.
- ASL devices in the PAVA system have the required firmware version.

1.3 Software/Firmware Versions and This Configuration Guide

The operation and features described here are correct for:

- VIPEDIA-12-PRO / INTEGRA-PRO / VIPEDIA-12 / INTEGRA V4.2.0.6P
- PAVA System Configuration Tool (PAVA SCT) V4.2.0.5P
- Dante Brooklyn II firmware version V4.1.1.4
- Dante Controller V4.4.2.2

If the VIPEDIA-12-PRO / INTEGRA-PRO, PAVA SCT or Dante module in your system has a later (or earlier) version of software, then it may mean that some aspects of the operation and configuration are subtly different from the operation described in this document, or that enhanced features have been added.

If any difficulties are encountered, contact ASL or an appointed ASL distributor, quoting the:

• Serial number of your VIPEDIA-12-PRO / INTEGRA-PRO unit

See location and example of serial number label in "APPENDIX C - Serial Number Label" (page 100).

• VIPEDIA-12-PRO / INTEGRA-PRO software version

The version number is available from the unit's front panel menu option:

Configuration > Router > Identity > S/Ware > Host CP

- Dante Brooklyn II firmware version
 See "APPENDIX B Getting the firmware version on a Dante Brooklyn II module" (page 99).
- PAVA System Configuration Tool (PAVA SCT) version
 The version number is available in the title of the main window.
- Dante Controller version
 The version number is available in Help > About window.

1.4 Conventions Used in This Document

ADT:	refers to the Amplifier Dynamic Configuration Tool
FTT:	refers to the File Transfer Tool
PAVA SCT:	refers to the PAVA System Configuration Tool
PRO:	refers to VIPEDIA-12-PRO and INTEGRA-PRO units
RDT:	refers to the Router Dynamic Configuration Tool
VCT:	refers to the VIPA Config Tool
Vipedia	refers to VIPEDIA-12, INTEGRA, VIPEDIA-12-PRO and/or INTEGRA-PRO

2 VIPEDIA-12-PRO / INTEGRA-PRO Overview

2.1 Non-Dante Features

VIPEDIA-12-PRO / INTEGRA-PRO units provide the same functionalities as VIPEDIA-12 / INTEGRA units. However, note that PRO units cannot be used in DBB groups (i.e. VIPEDIA-24, VIPEDIA-36, VIPEDIA-48 and VIPEDIA-12-AB configurations) and do not support Active Standby (AS) redundancy.

For details of non-Dante features, please refer to:

- PAVA SCT User's Manual (Table 2:[1] on page 94): Configuration of VIPEDIA-12 / INTEGRA units, VIPEDIA-NET devices, amplifier mainframes and peripherals.
- INTEGRA User's Manual (Table 2:[3] on page 94): Configuration of INTEGRA units.

2.2 Dante Features

A VIPEDIA-12-PRO / INTEGRA-PRO unit is a VIPEDIA-12 / INTEGRA unit fitted with a VIPEDIA-NET Network Card with integrated Dante Brooklyn II module¹.

In a system with VIPEDIA-12-PRO / INTEGRA-PRO units, 32 sources can be routed between devices using Dante. Currently, only analogue audio input (including microphones) can be routed using Dante.

Emergency microphones routed using Dante can be used in EN 54-16 systems.

DVA messages are always routed to remote units using ASL's Portable Media Carrier (PMC) format.

ASL's PMC is also used for routing audio sources between VIPEDIA-12-PRO / INTEGRA-PRO and VIPEDIA-12 / INTEGRA units.

All VIPEDIA-12-PRO / INTEGRA-PRO units in the system should be equally configured to subscribe to all Dante sources. This ensures that audio is always routed over IP using the correct transport method (Dante or PMC).

2.3 Dante Outputs

All audio inputs and outputs of a VIPEDIA-12-PRO / INTEGRA-PRO unit are always available on the Dante network with no configuration required.

Any of the Dante outputs (transmitter channels) can easily be routed to Dante enabled devices (e.g. amplifiers) using the Dante Controller.

Table 1 (page 8) contains the allocation of Dante transmitter channels to VIPEDIA-12-PRO / INTEGRA-PRO audio inputs and outputs.

¹ The VIPEDIA-NET Network Card with integrated Dante Brooklyn II module is factory fit only.

Dante Transmitter Channel (Tx)	VIPEDIA-12-PRO / INTEGRA-PRO	No	tes
1	Input 1		
2	Input 2		
3	Input 3		
4	Input 4		
5	Input 5	1)	Input tapping point:
6	Input 6		AFTER channel processing
7	Input 7		Compressor > Limiter > Fader >
8	Input 8		Chime Generator > Mute).
9	Input 9		
10	Input 10		
11	Input 11		
12	Input 12		
13	Output 1		
14	Output 2		
15	Output 3		
16	Output 4	2)	Output tapping point:
17	Output 5 (do not use)		AFTER output processing (EQ > Delay > Fader > Mute > Limiter)
18	Output 6 (do not use)		but PRE addition of surveillance
19	Output 7 (do not use)	3)	Tx Channels 17 to 24 (Outputs 5 to
20	Output 8 (do not use)	,	12) should not be used as there
21	Output 9 (do not use)		sources.
22	Output 10 (do not use)		
23	Output 11 (do not use)		
24	Output 12 (do not use)		
25	Reserved		
26	Reserved		
27	Reserved		
28	Reserved	4)	Tx Channels 25 to 32 appear in
29	Reserved		RESERVED.
30	Reserved		
31	Reserved		
32	Reserved		

Table 1 VIPEDIA-12-PRO / INTEGRA-PRO Dante transmitter channel allocation

2.4 Third-Party Dante Sources

Third-party Dante sources can be routed unprocessed or processed:

- Unprocessed:
 - No dynamic processing (EQ, gate, compressor and limiter) or gain adjustment is applied to the Dante source.
 - If required, processing must be applied at the output stage of the third-party transmitting device.
 - Can only be routed using Dante to outputs on VIPEDIA-12-PRO / INTEGRA-PRO units.
 - Configuration details in Section "4.5 Third-Party Dante Device to VIPEDIA-12-PRO / INTEGRA-PRO (Unprocessed)" (page 40).
- Processed:
 - An audio input is used for each third-party Dante source.
 - Input dynamic processing (EQ, gate, compressor and limiter) and gain adjustment can be applied to the processed Dante input using the Router Dynamic Configuration Tool (RDT).
 - Can be routed using PMC to remote units.
 - Can also be routed using Dante to outputs on VIPEDIA-12-PRO / INTEGRA-PRO units.
 - Can be used as VOX gate route trigger.
 - Configuration details in Section "4.6 Third-Party Dante Device to VIPEDIA-12-PRO / INTEGRA-PRO VIPEDIA-12 / INTEGRA (Processed)" (page 58).

Third-party Dante sources (unprocessed or processed) can be routed using contacts, microphone buttons, permanent routes, VOX routes, and as VIPA BGM; see Section "4.7 Configuration of Dante Audio in PAVA Routes" (page 80) for further details.

2.5 Dante and ASL PAVA Networks

ASL's PAVA devices operate in 100 Mbit/s Ethernet, whereas Dante devices operate in 100 Mbit/s and Gigabit Ethernet.

This section provides an overview of the Dante and ASL PAVA network. If required, please refer to ASL for further information on requirements for Dante and ASL PAVA networks.

2.5.1 IP Address Ranges

Dante and VIPEDIA-12 / INTEGRA operate on separate IP networks:

- Dante devices operate using link-local addressing, with devices automatically assigned an address in the 169.254.0.0/16 range.
- VIPEDIA-12 / INTEGRA units and other ASL devices operate using statically assigned IP address (by default, in the 192.168.1.0/24 range).

It is, therefore, recommended to connect to the Dante device network through a dedicated network interface, which must be set to 'obtain an IP address automatically'.

"APPENDIX A – PC Requirements for ASL Configuration Tools and Dante Controller" (page 95) provides details of the required settings.

2.5.2 Group Management Protocol (IGMP)

As standard, the Brooklyn II module on VIPEDIA-12-PRO / INTEGRA-PRO units are configured to transmit audio using multicast flows. Each unit will be configured with up to two multicast flows, each multicast flow with up to eight channels. Unlike unicast routing, multicast flows consume network bandwidth even if there are no receivers, but do not require additional bandwidth to add more receivers. To manage the multicast traffic on the network traffic, IGMP-enabled network switches may be required.

2.5.3 Loop Networks

VIPEDIA-12-PRO / INTEGRA-PRO only supports a single network connection. It cannot, therefore, support loop network topology which is normally required for Voice Alarm applications.

External switches that support Rapid Spanning Tree Protocol (RSTP) should be used where VIPEDIA-12-PRO / INTEGRA-PRO units are required to be connected in a loop network.

For networks using Hirschmann or ASL network switches, refer to:

- Hirschmann Network Switch RS20/30/40 Configuration Guide (Table 2:[5] on page 94)
- NETWORK-SWITCH-LP01 Configuration Guide (Table 2:[6] on page 94)

2.5.4 Isolated Dante Network

For flexibility and network performance, VIPEDIA-12-PRO / INTEGRA-PRO V4.1.x.x (or newer) allows Dante traffic to be routed in the same network as the ASL's PAVA traffic or in a separate 1G network. Refer to Section "4.2 Adding VIPEDIA-12-PRO / INTEGRA-PRO to the PAVA System Configuration" (page 15) for configuration details.

2.6 Limitations

- Maximum of 32 Dante channels per system.
- Dante sample rate must be 48 kHz.
- Dante outputs for outputs 5 to 12 (Tx Channels 17 to 24) should not be used by third-party Dante devices as there may be used for internal routing.
- VIPEDIA-12-PRO units cannot be used in DBB groups (i.e. VIPEDIA-24, VIPEDIA-36, VIPEDIA-48 and VIPEDIA-12-AB configurations).
- VIPEDIA-12-PRO units do not support Active Standby (AS) redundancy.
- External switches that support Rapid Spanning Tree Protocol (RSTP) should be used in loop network applications.
- IP microphones cannot be routed using Dante.
- DVA messages are always transmitted using PMC.
- Limited route validation in the PAVA SCT: allows unprocessed third-party Dante sources to be routed to non-Dante units.
- Not possible to import Dante Controller configuration files into the PAVA SCT.
- Third-party device configuration is not included in the Dante Controller configuration generated by the PAVA SCT.
- Generated Dante XML configurations might not match other tools.
- Configuration PC needs two network interfaces: one with fixed IP address (for the PAVA network) and the other with dynamic IP address (for the Dante network).

A single network interface can be used for both networks, but it must be reconfigured for each network.

3 Configuration Overview

The basic configuration process is outlined in the diagram in Figure 1 (page 12).

Important:

It is assumed that:

- The user is already familiar with configuration and setup of non-Dante based VIPEDIA-12 / INTEGRA systems. If required, reference material is listed in the diagram in Figure 1 (page 12).
- The Dante Brooklyn II module is configured using the Dante configuration generated by the PAVA SCT. You can always manually configure the Dante devices using the Dante Controller as long as the Dante channel subscriptions on Dante Brooklyn II modules fitted to VIPEDIA-12-PRO / INTEGRA-PRO match the configuration shown on the **Dante** page of the PAVA SCT; see examples in Figure 3 (page 31), Figure 4 (page 44) and Figure 5 (page 62).
- The configuration PC has the required tools:
 - PAVA System Configuration Tool (PAVA SCT) and VIPA Config Tool (VCT): available from ASL or an appointed ASL distributor.
 - Dante Controller: available from Audinate.
- The configuration PC's network interface(s) used to connect to ASL's PAVA devices and/or Dante devices is(are) correctly configured; see "APPENDIX A – PC Requirements for ASL Configuration Tools and Dante Controller" (page 95) for further details.

Figure 1 VIPEDIA-12-PRO / INTEGRA-PRO and Dante Audio Routing Configuration process

		Refer to
(1)	Create the system configuration using the PAVA System Configuration Tool (PAVA SCT).	
	a) VIPEDIA-12 / INTEGRA units including the Network Card (if any)	[1]
	b) VIPEDIA-12-PRO / INTEGRA-PRO units including the Network Card and Amplifier Frame	[1] [2]
	c) V2000 Amplifier Frames	[1] [4]
	 Miscellaneous inputs and peripherals (such as microphones, BMB01 Remote I/O Units and WMC01 Wall-Mount Controllers) 	[1]
	e) Dante routing on VIPEDIA-12-PRO / INTEGRA-PRO units	[2]
	f) Third-party Dante devices (if any)	[2]
	g) Routes (contact inputs, microphone buttons, permanent routes, VOX routes and/or BGM streams)	[1] [2]
	$\hat{\nabla}$	_
(2)	If any, set-up and configure the network switches.	[5] [6]
	$\hat{\nabla}$	
(3)	Set-up the unit ID and IP addresses of ASL's PAVA devices using the system configuration.	[1]
	$\hat{\nabla}$	_
(4)	Load the system configuration into ASL's PAVA devices using the File Transfer Tool (FTT).	[1]
	$\overline{\mathbf{v}}$	_
(5)	Configure Dante devices by loading the Dante Controller XML configuration using the Dante Controller.	[2]
	$\hat{\nabla}$	_
(6)	Commission the V2000 and INTEGRA Amplifier Frames using the Amplifier Dynamic Configuration Tool (ADT) as required.	[4]
<u> </u>	$\mathbf{\hat{\nabla}}$	
(7)	Test audio is correctly routed and commission the dynamics settings using the Router Dynamic Configuration Tool (RDT) as required.	[2] [3]

Reference documentation/section:

- [1] PAVA SCT User's Manual (Table 2:[1] on page 94) and/or INTEGRA User's Manual (Table 2:[3] on page 94) for configuration tasks not specific to VIPEDIA-12-PRO / INTEGRA-PRO and Dante
- [2] Section "4 Configuration Tasks Specific to VIPEDIA-12-PRO / INTEGRA-PRO and Dante" (page 13)
- [3] VIPEDIA-12 User's Manual (Table 2:[2] on page 94)
- [4] V2000 User's Manual (Table 2:[4] on page 94): for configuration and commissioning V2000 and INTEGRA amplifier frames
- [5] Hirschmann Network Switch RS20/30/40 Configuration Guide (Table 2:[5] on page 94)
- [6] NETWORK-SWITCH-LP01 Configuration Guide (Table 2:[6] on page 94)

4 Configuration Tasks Specific to VIPEDIA-12-PRO / INTEGRA-PRO and Dante

4.1 Getting the MAC Address of a Dante Brooklyn II Module

Important:

- a) Dante MAC addresses will always be of the format: **00:1D:C1**:xx:xx:xx
- b) The Dante MAC address is not essential but will simplify the Dante Brooklyn II module configuration.

4.1.1 DANTE MAC Address Label on VIPEDIA-12-PRO

Rear panel (left side)



(A QR code scanner can be used to load the MAC address directly into the PAVA SCT.)

4.1.2 DANTE MAC Address Label on INTEGRA-PRO



Top of Router (left side)

(A QR code scanner can be used to load the MAC address directly into the PAVA SCT.)

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4.1.3 MAC Address on the Dante Controller

Important:

Ensure that the configuration PC's network interface used to connect to the Dante devices is correctly configured to dynamic IP address; see "APPENDIX A – PC Requirements for ASL Configuration Tools and Dante Controller" (page 95) for further details.

- **1.** Launch the Dante Controller.
- 2. Select the Routing tab in Dante Controller Network View main window.
- 3. Double-click the required device name in matrix to open the **Device View** window.
- 4. Select the Status tab.

The firmware versions are shown in the **Dante Information** box.

The MAC address is shown in the Interfaces box.

Note:

The default name contains the MAC address and is of the format **BKLYN-II-xxxxxx**, where xxxxxx are the last three blocks of the MAC address **00:1D:C1**:xx:xx:xx.

🙆 Danta Cantallar, Natural Mari							
Dante Controller - Network View							
		Q			Grand Master Clock: ITG23-Lo	fault name contains the MAC address:	
Routing Device Info Clock Status Network S	tatus	s Fi	vent	8		BKLYN-II-xxxxxx	
	Ξ	÷ 🗄	1 🕀	÷			
@Dante [®]	- do Col	uezeba tion-23	ixer-01	tion-22		00:1D:C1:xx:xx:xx	
Filter Transmitters		+-II-	Σ	Loca			
		23-1		22-1	~		
Filter Receivers	•	• E		4I A	2 Dante Controller - Device View (BKLYN-II-0e2eba)	- 0	×
					Eile <u>D</u> evice <u>V</u> iew <u>H</u> elp	¥	
	2				🔗 🛒 💿 🔜 🕀 🔓	BKLYN-II-0e2eba 🗸	2
	3				Pereive Transmit Status Latency Device Config Net	work Config	
					Receive Transmit Status Eatency Device Coming Net	work coming	
🗄 🖃 Dante Receivers							
+ BKLYN-II-0e2eba	H	+ +	+	÷			
ITG23-Location-23) E	+ +	+	÷			
🗄 Mixer-01		+ +	+	+			
± VIP22-Location-22) E	+ +	+	+			
					Clock Synchronisation Clock Synchronisation Clock Synchronisation Mute Status: Sync Status: External Word Cloc Preferred: Frequency Offset:	Dante Model: Brooklyn II mware Version: 4.1.1.4 rdware Version: 4.0.2.10 M/Boot Version: 1.3.71 Unmuted Locked k: No No -3 ppm	
					Interfaces		
P: 🖬 S: 🛄				Unma	P IG Rx Utilisatio Rx Utilisatio	es: 2001/bc:C1:0E:2E:BA es: 2014/bc: Encounters es: 2014/bc: Encounters es: 2014/bc: Encounters	

4.2 Adding VIPEDIA-12-PRO / INTEGRA-PRO to the PAVA System Configuration

Important:

- a) The following procedure describes the configuration of features applicable to VIPEDIA-12-PRO / INTEGRA-PRO units only.
- b) For general configuration, refer to the PAVA SCT User's Manual (Table 2:[1] on page 94) and/or INTEGRA User's Manual (Table 2:[3] on page 94).
 - 1. On the PAVA SCT device tree, right-click the PA/VA Cluster node.
 - 2. Select Add > Ins, and then the required PRO node type: VIPEDIA-12-PRO or INTEGRA-PRO.
 - 3. Expand the node and select the required VIPEDIA-12-PRO or INTEGRA-PRO unit.
 - 4. Enter the unit's Name.

The Name will also be assigned to the unit's Dante Brooklyn II module.

5. Enter the **Dante Module MAC Address**; see Section "4.1 Getting the MAC Address of a Dante Brooklyn II Module" (page 13).

The Dante MAC address is not essential but will simplify the Dante Brooklyn II module configuration.



6. Select the **PA/VA Cluster** node to load the **PA/VA Cluster Options** configuration pane and select whether the Dante traffic is to be isolated from the ASL's PAVA traffic in a separate 1G network.

This feature is available on VIPEDIA-12-PRO / INTEGRA-PRO V4.1.x.x (or newer).

PAVA System Configuration To Sile Edit Tools Performance	ol - V4.2.0.5P PAVASyster	n_05.pava_sct	
	нер		
Device System System System System System Rack Node Rack Node Rack Node Rack Node Rack Node Rack Node Rode Rode Node Cluster Globals Cluster Overview	Name ID Node A Node B Node C Node D O] Node E	General Information Name: PAVA Cluster Time Zone: Britain (JK) [Europe,London] AC Voltage: High Range (220V-250V) ▼ Network Configuration Device Configuration VUPEDIA-NET Network Card Options □ Sec ☑ Override Default Audio Latency — Audio Latency (ms): ▲ Audio Latency (ms): 67 □ Isolate Dante Network (ETH 5/6) from Secure Loop Network	PA/VA Cluster Options If isolated, the SFP ports ETH5 and ETH6 are disconnected from the internal switch and exclusively used by the Dante module. And copper ports ETH1, ETH2, ETH3 and ETH4 are used by the PAVA network (i.e., Vipedias and Network Cards) as standard. Dante network (ETH5 and ETH6) should not be isolated from the PAVA network where Dante is used for VA applications.
Configure the V microphones, G	IPEDIA-12-I PIO contact	PRO / INTEGRA-PRO unit and periphes, etc.).	ierals (Amplifier Frames,
At this stage, al ASL's PMC tecl	hough the c nology, not	configuration is valid, audio would still using Dante (where applicable).	be routed between devices using
Follow the confi	guration sec	tions below for audio routing by Dant	e as required:
• "4.3 VIPED	A-12-PRO /	INTEGRA-PRO to Third-Party Dante	Devices" (page 17)
• "4.4 VIPED	A-12-PRO /	INTEGRA-PRO to VIPEDIA-12-PRO	/ INTEGRA-PRO" (page 28)
• "4.5 Third-F	arty Dante [Device to VIPEDIA-12-PRO / INTEGR	A-PRO (Unprocessed)" (page 40)

- "4.6 Third-Party Dante Device to VIPEDIA-12-PRO / INTEGRA-PRO VIPEDIA-12 / INTEGRA (Processed)" (page 58)
- "4.7 Configuration of Dante Audio in PAVA Routes" (page 80)

4.3 VIPEDIA-12-PRO / INTEGRA-PRO to Third-Party Dante Devices

This section describes the configuration of third-party Dante devices to listen to inputs and outputs of VIPEDIA-12-PRO / INTEGRA-PRO units.



Important:

- a) Table 1 (page 8) contains the allocation of Dante transmitter channels to VIPEDIA-12-PRO / INTEGRA-PRO audio inputs and outputs.
- b) Dante transmit channels Tx17 to 24 on VIPEDIA-12-PRO / INTEGRA-PRO (outputs 5 to 12) should not be used by third-party Dante devices as there may be overlap with other audio sources.

4.3.1 PAVA SCT Configuration (PRO to Third-Party)

All audio inputs and outputs of a VIPEDIA-12-PRO / INTEGRA-PRO unit are always available on the Dante Network. No configuration is required in the PAVA SCT.

Any of the Dante outputs (transmitter channels) can easily be routed to Dante enabled devices (e.g. Dante amplifiers) using the Dante Controller as described below.

4.3.2 Dante Brooklyn II Module Configuration (PRO to Third-Party)

Important:

- a) Although the Dante configuration file generated by the PAVA SCT does not contain the configuration of the third-party Dante devices, it is recommended that the configuration is loaded into all Brooklyn II modules fitted to VIPEDIA-12-PRO / INTEGRA-PRO units in the system. This will simplify the configuration of third-party devices. Also, any subscriptions between VIPEDIA-12-PRO / INTEGRA-PRO units will also be automatically configured in the same process.
- b) The Dante page on the PAVA SCT shows the allocation of Dante transmitter channels to VIPEDIA-12-PRO / INTEGRA-PRO audio inputs and outputs; see example in Figure 2 (page 18).

1. On the PAVA SCT, select the **Dante** page and check Tx channel allocation for the required audio inputs and/or outputs.



2. If all you want to do is use Dante to listen to ASL's Dante devices, then you can skip the configuration using the Dante Controller XML generated by the PAVA SCT, and go to step 10 (page 23).

Note that the Dante Controller XML configuration generated by the PAVA SCT can be installed to set the device and channel labels as seen on the PAVA SCT.

3. On the PAVA SCT, export the Dante Controller XML configuration using the menu option:

File > Export Dante Controller File





Or click the Export Dante Controller File button on the Dante page.

ce N	lame ID	Dante	
System ✓	lode A	* VIP03: Location 03 * VIP04: Location 04 🖪 TTG05: Location 05	Export Dante Control
> 🔎 Rack Node 🛛 N > 📲 Rack Node [PRO] 🔹 N	lode B lode C		
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Dante		Dante Receivers / Dante Transmitters	
PMC Streams		:Rx01	
NTP Servers		:Rx02	
VAVE Instances		:Rx03	
Cluster Overview		:Rx05	
		: Rx06	
		:Rx07	
		: Rx08	
		:Rx09	
		:Rx10	
		:RX11	
		:Rx13	
		:Rx14	
		:Rx15	
		:Rx16	
		:Rx17	

4. Launch the Dante Controller.

Important:

Ensure that the configuration PC's network interface used to connect to the Dante devices is correctly configured to dynamic IP address; see "APPENDIX A – PC Requirements for ASL Configuration Tools and Dante Controller" (page 95) for further details.

- 5. Select the **Routing** tab in **Dante Controller Network View** main window and ensure that all required devices are present on the network.
- 6. Load the Dante XML configuration using the menu option:

File > Load Preset

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- **7.** The **Preset Elements** list shows the elements that can be imported from the configuration. It is recommended to select all available elements.
 - **a.** If the MAC addresses are present in the configuration, it should automatically identify and apply the role to the correct device.

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- **b.** If the MAC addresses are not present in the configuration, assign the roles to the Dante devices on the network.
 - i. The **Preset Roles** list shows the devices in the configuration and the **Target Devices** list shows the devices found on the network.
 - ii. Select a device in the **Preset Roles** list and its equivalent device the **Target Devices** list, and then click the **Apply Role** button.

Alternatively, select a device in the **Preset Roles** list, and drag and drop it on top of its equivalent device in the **Target Devices** list.

iii. Repeat the above steps for all devices in the **Preset Roles** list.

Important:

To simplify identifying the correct device on the network amongst various devices with default name, it is recommended that each Dante module is configured whilst it is the only device with default name on the network.



Click the Ok button to apply the configuration. It may take a while depending on the number of devices. Once completed, click the Ok button. Device and channel names will have been updated and routes between Dante Brooklyn II module fitted VIPEDIA-12-PRO / INTEGRA-PRO units will be made (if any). Preset Progress Preset Dante_Config Preset Dante_Config Preset Dante_Config Preset Complete Config Preset Complete Config Preset Config Preset Config Pr		apply the configuration
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13. Position the mouse on the intersection of the correct receive (Rx) and transmit (Tx) channels.

In the example below, Rx10 of Mixer-01 is to be connected to Tx13 (output 1 of Vipedia VIP03).

Note:

All audio inputs and outputs of a VIPEDIA-12-PRO / INTEGRA-PRO unit are always available on the Dante Network in pre-defined transmit channels:

- Input 1 on Tx01, input 2 on Tx02, ..., and input 12 on Tx12
- Output 1 on Tx13, output 2 on Tx14, and output 12 on Tx24

Tx17 to Tx24 (outputs 5 to 12) should not be used as there may be overlap with other audio sources.

See Table 1 (page 8) for further details on Dante transmit channel usage on VIPEDIA-12-PRO / INTEGRA-PRO units.



- **14.** Click on the intersection to create a subscription between the receive and transmit channels.
- **15.** A green tick will appear in the intersection. You may initially see a grey hourglass icon (usually very briefly) to indicate that the subscription is in progress.

In the example below, third-party device Mixer-01:Rx10 is connected to Vipedia VIP03:Tx13.

Important:

Subscriptions between third-party devices and Brooklyn II modules on VIPEDIA-12-PRO / INTEGRA-PRO units may be erased when the PAVA SCT configuration is updated and reapplied using the Dante Controller.



4.4 VIPEDIA-12-PRO / INTEGRA-PRO to VIPEDIA-12-PRO / INTEGRA-PRO

This section describes the configuration of audio inputs of VIPEDIA-12-PRO / INTEGRA-PRO units routed over Dante, where the input source can be miscellaneous audio (e.g. BGM) or microphone audio.



4.4.1 PAVA SCT Configuration (PRO to PRO)

- 1. On the PAVA SCT, select the required VIPEDIA-12-PRO or INTEGRA-PRO node.
- 2. Expand the node down to Audio Inputs.
- 3. Right-click the required Audio Input, and then select Add > Ins >Misc. Input to add a miscellaneous input or Add > Ins > <serial microphone>.

The examples in this section show a Miscellaneous Input.



C	on the Audio Input configuration page, tick Route over Dante for ASL PRO devices.
Т (he PAVA SCT automatically allocates a Dante receive channel (Rx) to the Dante transmit channel Γx) associated with this audio input.
T tı	his tells all VIPEDIA-12-PRO and INTEGRA-PRO units in the system to listen to the this Dante ansmit channel when this input is routed.
N	lotes:
а) Up to 32 Dante receive channels are available system wide.
b) The PAVA SCT automatically assigns the lowest available receive channel (Rx).
С	All audio inputs of a VIPEDIA-12-PRO / INTEGRA-PRO unit are always available on the Dante Network in pre-defined transmit channels: input 1 on Tx01, input 2 on Tx02,, and input 12 on Tx12.
	See Table 1 (page 8) for further details on transmit channel usage.
d) The Dante page shows the Dante channel allocation for each VIPEDIA-12-PRO / INTEGRA-PRO unit and third-party Dante device in the system; see an example in Figure 3 (page 31).
е) If Route over Dante for ASL PRO devices is not selected, the input will be routed using PMC as normal.

In the example below, input 5 of Vipedia VIP03 is configured to route over Dante using Rx01.





6. The **Dante** page shows the Dante channel allocation for each VIPEDIA-12-PRO / INTEGRA-PRO unit and third-party Dante device in the system.

The **Dante** page for the transmitter unit will show a tick in the intersection of the transmit channel (Tx) used by the audio input and the configured receive channel (Rx). For receiver units (remote units), it will show the receive channel (Rx) assigned to the audio input.

In the example below, the **Dante** page for Vipedia VIP03 (transmitter) shows a tick in the intersection of receive channel Rx01 and transmit channel Tx05 (which is always used by audio input 5). For receiver units, the **Dante** page shows receive channel Rx01 assigned to input 5 of Vipedia VIP03.



Figure 3 Dante page example (audio input over Dante)

- 7. Repeat the above steps for all required audio inputs.
- 8. Configure routes as normal: contact inputs, microphone buttons, permanent routes, program/source selectors, wall-mount controllers, VOX routes (as source), and/or as BGM streams.

If a Miscellaneous Input is routed over Dante, the input will be identified as **[DANTE]** in the **Source** list of routing configuration dialogs; see example below for contact input routing.

Refer to the following sections for further details:

- "4.7.1 Dante Audio as Source in Contact / Microphone Button / Permanent / Source Selector / Wall-Mount Controller / VOX Routes" (page 80)
- "4.7.2 DANTE Audio as VIPA BGM Sources" (page 82)
- "4.7.3 Processed Third-Party Dante Source as VOX Route Trigger" (page 83)

Notes:

- a) The **Transport** column in routing configuration dialogs identifies the transport methods for voice over IP that the receiver can handle (PMC and/or Dante), not necessarily the transport method that will used when the route is made. The audio source type will determine the transport method that will be used when the route is made.
- b) Although routes are allowed in the configuration, unprocessed third-party Dante sources will not be routed over PMC to standard VIPEDIA-12 / INTEGRA units. Unprocessed third-party Dante sources can be routed to VIPEDIA-12-PRO / INTEGRA-PRO units only (over Dante).
- c) Although the system configuration is correct, Dante routes will not route audio until the Dante Brooklyn II modules are correctly configured using the Dante Controller; see Section "4.4.2 Dante Brooklyn II Module Configuration (PRO to PRO)" (page 33).

		[DANTE] Sources:
	Play V 10]	 Sources from a PAVA Router (VIPxx or ITGxx) will be routed over Dante to VIPEDIA-12-PRO and INTEGRA-PRO units, and over PMC to standard VIPEDIA-12 / INTEGRA units.
Source: VIP03/IP05 V03-CD Player Unit Audi ⊕ VIP01: Location 01 ⊕ VIP02: Location 02 Outp ⊕ VIP03: Location 03 Outp ⊕ VIP04: Location 04 ⊕ ITG05: Location 05	r [DANTE] io Outputs Transport PMC put(s) 1, 2, 3 PMC put(s) 1, 2, 3 Dante/PMC Dante/PMC Dante/PMC	 Sources from third-party devices (DNTxx) are unprocessed and will be routed over Dante to VIPEDIA-12-PRO and INTEGRA-PRO units. Although allowed in the configuration, they will not be routed to VIPEDIA-12 / INTEGRA units.
		Transport methods for voice over IP that the receiver can handle, not necessarily the method used when the route is made.

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4.4.2 Dante Brooklyn II Module Configuration (PRO to PRO)

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4 PAVASystem_03.pava_sct		
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2. Launch the Dante Controller.

Important:

Ensure that the configuration PC's network interface used to connect to the Dante devices is correctly configured to dynamic IP address; see "APPENDIX A – PC Requirements for ASL Configuration Tools and Dante Controller" (page 95) for further details.

- 3. Select the **Routing** tab in **Dante Controller Network View** main window and ensure that all required devices are present on the network.
- 4. Load the Dante XML configuration using the menu option:

File > Load Preset

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- **5.** The **Preset Elements** list shows the elements that can be imported from the configuration. It is recommended to select all available elements.
 - **a.** If the MAC addresses are present in the configuration, it should automatically identify and apply the role to the correct device.

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- **b.** If the MAC addresses are not present in the configuration, assign the roles to the Dante devices on the network.
 - i. The **Preset Roles** list shows the devices in the configuration and the **Target Devices** list shows the devices found on the network.
 - ii. Select a device in the **Preset Roles** list and its equivalent device the **Target Devices** list, and then click the **Apply Role** button.

Alternatively, select a device in the **Preset Roles** list, and drag and drop it on top of its equivalent device in the **Target Devices** list.

iii. Repeat the above steps for all devices in the Preset Roles list.

Important:

To simplify identifying the correct device on the network amongst various devices with default name, it is recommended that each Dante module is configured whilst it is the only device with default name on the network.


 b. Click the Ok button to apply the comingulation. It may take a while depending on the number of devices. 7. Once completed, click the Ok button. Device and channel names will have been updated and routes between Dante Brooklyn II modules fitted VIPEDIA-12-PRO / INTEGRA-PRO units will be made (if any). Prest Progress Applying Prest Dante_Config Prest Config Prest Config	6	Click the Ok button to a	anly the configuration
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Delete Rx Subscriptions Applying Preset Dante_Config Preset complete Image: Config Image: Controller - Network View Image: Controller - Network View File Device View Help Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View File Device Info Cock Status Network Status Events Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View Imag			🔮 Preset Progress 🛛 🗙
Image: Controller - Network View Set Controller - Network View File Device Urew Help Image: Controller - Network Status		Delete Rx Subscriptions	Applying Preset Dante_Config
8. On the Routing tab, ensure that all required devices are present on the network. 8. On the Routing tab, ensure that all required devices are present on the network. 9. Dente Controller - Network View 9. On the Status Tevents To out the Status Tevents Teo out the Status		Ok	Preset complete
Routing tab, ensure that all required devices are present on the network. 8. On the Routing tab, ensure that all required devices are present on the network. Image: Controller - Network View Image: Controller - Network Status Image: Control Ima			
8. On the Routing tab, ensure that all required devices are present on the network. 8. On the Routing tab, ensure that all required devices are present on the network. 9. Intercontroller - Network View 9. Int			Ok
8. On the Routing tab, ensure that all required devices are present on the network. Image: Controller - Network View Image: Controller - Network View File Device View Help Image: Controller - Network Status Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View Image: Controller - Network View Image: Control - Status Image: Control - Status			
	8.	On the Routing tab, ens	sure that all required devices are present on the network.
Pante Controller - Network View File Device View Help Crand Master Clock: VIP04Location-04 Routing Device Info Clock Status Network Status Events Filter Transmitters			
File Device Yiew Help		💇 Dante Controller - Network View	- D X
Crand Master Clock: VIP04Location-04		<u>File Device View Help</u>	
Routing Device Info Clock Status Network Status Events Filter Transmitters Filter Receivers Filter Receivers TIG05-Location-05 H H H H Nixer-01 H H H H H H <th></th> <th></th> <th>Image: Second state of the se</th>			Image: Second state of the se
Filter Transmitters Filter Transmitters Filter Receivers		Routing Device Info Clock Status Ne	twork Status Events
Filter Transmitters Filter Receivers Filter Receivers Filter Receivers Filter Receivers TIG05-Location-05 Mixer-01 WIP03-Location-03		(Dante [®]	20 0 0 ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ±
Filter Transmitters So o to			
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→ → → →			
Histor-totation-05 Image: The time time Histor-01 Image: The time Image: VIP03-Location-03 Image: The time		Dante Receivers	
+ VIP03-Location-03		Hixer-01	
		+ VIP03-Location-03	
			×
· · · · · · · · · · · · · · · · · · ·		P: 🔲 S: 🗔	Unmanaged Multicast Bandwidth: 2Mbos Event Log: 🧧 Clock Status Monitor: 🦷
P: S: Clock Status Monitor:			

- 9. Routes can be confirmed by the green ticks inside the matrix.
 - a. Along the top, expand the transmitter device.
 - b. Along the left side, expand each receiver device fitted to VIPEDIA-12-PRO / INTEGRA-PRO units.

A green tick in the intersection of the configured Rx and Tx channels indicate that the subscription is OK and audio should be flowing.

In the example PAVA SCT configuration on page 29, Input 5 of Vipedia 03 is configured to route over Dante using Rx01. All Dante Brooklyn II modules fitted to VIPEDIA-12-PRO / INTEGRA-PRO units show a green tick in the intersection of **Rx01** and **Vipedia 03:Tx05**.

- a) The Rx channels of all Dante Brooklyn II modules fitted to VIPEDIA-12-PRO / INTEGRA-PRO units in the system configuration should subscribe to the same Tx channels across the system. This ensures that audio is always routed over IP using the correct transport method.
- b) The Dante channel subscriptions on Dante Brooklyn II modules fitted to VIPEDIA-12-PRO / INTEGRA-PRO should match the configuration shown on the **Dante** page of the PAVA SCT; see example in Figure 3 (page 31).

🧕 Dante Controller - Network View																		-			×
<u>File D</u> evices <u>V</u> iew <u>H</u> elp																					
🛯 🤣 🖿 ★ 🛋 🖻 🗄			8				Prin	nary L	eade	er Clo	ock:	VIP04	HLoc	ation	-04						6
Routing Device Info Clock Status Netwo	ork Sta	tus	Ev	ents																	
Filter Transmitters	Transmitters (4)	ITG05-Location-05 +	Mixer-01	VIP03-Location-03	000 1P05-V03-CD-Player-05 1P06-V03-MISC-06-06 1P06-V03-MISC-06-06	IP08-V03-CEN-209-09	911	Zone-01-13	Zone-03-15 0-22016-02-11	0002-11-00 0002-12	0006-18 U - 0007-19 U -	OP08-20 D	OP10-22	OP11-23 U	ក	00 % %	3 8	00	32 O 0	VIP04-Location-04 +	
Receivers (4) ITG05-Location-05 ∩ 01-VIP03-IP05-V03-CD-Player ∩ 02 ∩ 03 ∩ 04 04	٢	Ŧ	Ŧ		Ø															Ŧ	
Operation O3 ○ 01-VIP03-IP05-V03-CD-Player ○ ○ 02 ○ ○ 03 ○	۷	Ŧ	+		0															÷	
YIP04-Location-04 ∩ 01-VIP03-IP05-V03-CD-Player ∩ 02 ∩ 03 ∩ 04 ∩ 05 ∩ 06 ∩ 07 ∩ 08 ∩ 09 ∩ 11 ∩ 12 ∩ 13 ∩ 14	0	Ŧ	Ŧ		٢															+	
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P: 📃 S: 📃			4	devices		Audi	o Multi	cast I	Band	widt	h: 19	Mbps	Ev	ent L	og:		Clo	ck St	atus	Monitor	:

4.5 Third-Party Dante Device to VIPEDIA-12-PRO / INTEGRA-PRO (Unprocessed)

This section describes the configuration of unprocessed third-party Dante sources that can be routed to VIPEDIA-12-PRO / INTEGRA-PRO units.

Important:

- a) Unprocessed third-party Dante sources can only be routed using Dante to outputs on VIPEDIA-12-PRO / INTEGRA-PRO units.
- b) If routing to standard VIPEDIA-12 / INTEGRA units is required, the third-party Dante source must be processed by a VIPEDIA-12-PRO / INTEGRA-PRO unit first as described in Section "4.6 Third-Party Dante Device to VIPEDIA-12-PRO / INTEGRA-PRO VIPEDIA-12 / INTEGRA (Processed)" (page 58).
- c) No dynamic processing (EQ, gate, compressor and limiter) or gain adjustment is applied to the Dante source.
- d) If required, processing must be applied at the output stage of the third-party transmitting device.



4.5.1 PAVA SCT Configuration (Third-Party to PRO - Unprocessed)

- 1. On the PAVA SCT device tree, right-click the Dante item.
- 2. Select Add > Ins, and then External Dante Device.

The PAVA SCT automatically assigns the lowest available Unit ID (1 to 63 range).



- 3. Select the required **Dante Device** in the device tree to load the configuration page.
- 4. Enter the device's Name.
- 5. Enter the Dante Module MAC Address; see Section "4.1.3 MAC Address on the Dante Controller" (page 14)

The Dante MAC address of a third-party device is not essential. It is not currently used but may be useful in the future.

6. Select the number of Dante transmit channels from the **Number of Dante Feeds** drop-down menu (8, 16, 32 or 64).

ice Name ID			
🛄 System		External Dante Device	
PA/VA Cluster	Name: Mixer-01		
> B Rack Node Node A	Dante Module MAC Address: 00:1D:C1:0	E:31:2E	
> 🖼 Rack Node [PRO] Node C	Number of Dante Feeds: 32 💌		
> PM Rack Node [PRO] Node D > PM INTEGRA Node [PRO] Node E			
 Cluster Globals 	SRC01:	Rx: SRC17:	Rx
Zones DVA Messages	SRC02:	Rx: SRC18:	Rx
Permanent Routes	SRC03:	Rx: SRC19:	Rx
Dante Dante Mixer 01 DNT06	SRC04:	Rx: SRC20:	Rx
PMC Streams	SRC05:	Rx: SRC21:	Rx
BGM Streams	SRC06:	Rx: SRC22:	Rx
VAVE Instances	SRC07:	Rx: SRC23:	R
Cluster Overview	SRC08:	Rx: SRC24:	Ra
	SRC09:	Rx: SRC25:	Rx
	SRC10:	Rx: SRC26:	Rx
	SRC11:	Rx: SRC27:	Rx
	SRC12:	Rx: SRC28:	R
	SRC13:	Rx: SRC29:	Rx
	SRC14:	Rx: SRC30:	Rx
	SRC15:	Rx: SRC31:	Rx
	SRC16:	Rx: SRC32:	Rx

7. Enter a name for each Dante stream (SRCxx) available from the device, where SRCxx equates to Transmit Channel xx on the third-party device

- a) Using names that are assigned to the transmit channel on the Dante Controller helps the configuration.
- b) The source name must be filled in for Rx channel and route configuration.

ile Edit Tools Preferences I	<u>Н</u> еір () (т			
evice	Name ID		External Dante Device	
AVA Cluster AvA Clust	Node A Node B Node C	Name: Mixer-01 Dante Module MAC Address: 00:1D:C1:0E:31	22	
> PB Rack Node [PRO]	Node D Node F	Dante Feeds		
 Cluster Globals 		SRC01: Input 01	Rx: SRC17: Player 07	Rx:
Zones		SRC02: Input 02	Rc: SRC18: Player 08	Rx:
Permanent Routes		SRC03: Input 03	Rx: SRC19:	Rx:
🛩 🛅 Dante		SRC04: Input 04	Rx: SRC20:	Rx:
Dante Device	Mixer-01 DNT06	SRC05: Input 05	Rx: SRC21:	Rx:
→ BGM Streams		SRC06: Input 06	□ Rx: SRC22:	Rx:
NTP Servers		SRC07: Input 07	Rx: SRC23:	Rx:
Cluster Overview		SRC08: Input 08	Rx: SRC24:	Rx:
		SRC09: Input 09	Rx: SRC25:	Rx:
		SRC10: Input 10	Rx: SRC26:	Rx:
		SRC11: Player 01	Rx: SRC27:	Rx:
		SRC12: Player 02	Rx: SRC28:	Rx:
		SRC13: Player 03	Rx: SRC29:	Rx:
		SRC14: Player 04	Rx: SRC30:	Rx:
		SRC15: Player 05	Rx: SRC31:	Rx:
		SRC16: Player 06	Rx: SRC32:	Rx:

8. Select the Dante streams that will be routed to VIPEDIA-12-PRO / INTEGRA-PRO units by ticking the **Rx** check box of the required stream (**SRCxx**).

The PAVA SCT automatically allocates a Dante receive channel (**Rx**) to the third-party Dante stream (**SRCxx**).

This tells all VIPEDIA-12-PRO and INTEGRA-PRO units in the system to listen to the this Dante stream when this source is routed.

Important:

- a) Only select an **Rx** channel for Dante streams that are routed to VIPEDIA-12-PRO / INTEGRA-PRO outputs (and inputs, if processed).
- b) Selecting an **Rx** channel for streams that are not routed within the PAVA system will reduce the number of Dante channels available for the PAVA system.

In the example below, 6 x Dante streams are selected on third-party device DNT06: SRC01<>Rx06, SRC02<>Rx07, SRC11<>Rx08, SRC12<>Rx09, and SRC18<>Rx10.

ice N	lame ID				
🚊 System			External Dant	te Device	
Y 🌼 PA/VA Cluster	Name:	Mixer-01			
> 19 Rack Node N	ode A Dante M	odule MAC Address: 00:1D:C1:0E:31:2E			
> 📲 Rack Node [PRO] N	lode C Number	of Dante Feeds: 32 👻			
> Marck Node [PRO] N	ode D Dante	Feeds			
 Cluster Globals 	SRCO	1: Input 01	✓ Rx:06 5	17: Player 07	Rx:
Zones	SRCO	2: Input 02	✓ Rx:07 5	18: Player 08	Rx:
DVA Messages Permanent Routes	SRCO	3: Input 03	Rx: SR	19:	Rx:
🗸 🚹 Dante	SRCO	4: Input 04	Rx: SR	20:	Rx
PMC Streams	fixer-01 DNT06 SRC0	5: Input 05	Rx: SR	21:	Rx
BGM Streams	SRCO	5: Input 06	Rx: SR	22:	Rx
NTP Servers	SRCO	7: Input 07	Rx: SR	23:	Rx
Cluster Overview	SRCO	8: Input 08	Rx: SR	24:	Rx
	SRCO	9: Input 09	Rx: SR	25:	Rx
	SRC1	D: Input 10	Rx: SR	26:	Rx
	SRC1	1: Player 01	🗹 Rx:08 SF	27:	Rx
	SRC1	2: Player 02	✓ Rx:09 SF	28:	Rx
	SRC1	3: Player 03	Rx: SR	29:	Rx
	SRC1	4: Player 04	Rx: SR	30:	Rx
	SRC1	5: Player 05	Rx: SR	31:	Rx
	SRC1	6: Player 06	Rx: SR	32:	Rx

9. The **Dante** page shows the Dante channel allocation for each PRO and third-party Dante unit in the system.

The **Dante** page for the transmitter unit (the third-party device) will show a tick in the intersection of the transmit channel (Tx) and the configured receive channel (Rx). For receiver units (VIPEDIA-12-PRO and INTEGRA-PRO units), it will show receive channels (Rx) assigned to the third-party Dante streams.

In the example below, the **Dante** page for Vipedia VIP03 (and all other VIPEDIA-12-PRO and INTEGRA-PRO units) shows receive channel Rx06 assigned to SCR01; Rx07 to SCR02, Rx08 to SRC11, Rx09 to SCR12, and Rx10 to SCR18 of third-party device DNT06.



Figure 4 Dante page example (third-party Dante sources)

10. Configure routes as normal: contact inputs, microphone buttons, permanent routes, program/source selectors, wall-mount controllers, VOX routes (as source) and/or BGM streams.

Dante sources will be identified as **[DANTE]** in the **Source** list of routing configuration dialogs, and the third-party device as **DNTxx**; see example below for contact input routing.

Refer to the following sections for further details:

- "4.7.1 Dante Audio as Source in Contact / Microphone Button / Permanent / Source Selector / Wall-Mount Controller / VOX Routes" (page 80)
- "4.7.2 DANTE Audio as VIPA BGM Sources" (page 82)
- "4.7.3 Processed Third-Party Dante Source as VOX Route Trigger" (page 83)

- a) The **Transport** column in routing configuration dialogs identifies the transport methods for voice over IP that the receiver can handle (PMC and/or Dante), not necessarily the transport method that will used when the route is made. The audio source type will determine the transport method that will be used when the route is made.
- b) Unprocessed third-party Dante sources can be routed to VIPEDIA-12-PRO / INTEGRA-PRO units only (over Dante). Although routes are allowed in the configuration, unprocessed third-party Dante sources will not be routed to standard units.
- c) Although the system configuration is correct, Dante routes will not route audio until the Dante Brooklyn II modules are correctly configured using the Dante Controller; see Section "4.5.2 Dante Brooklyn II Module Configuration (Third-Party to PRO)" (page 47).

Source ONTO6/SRC0	11 Input (V 10]	•	unprocessed and will be routed over Dante to VIPEDIA-12-PRO and INTEGRA-PRO units. Althou allowed in the configuration, they will not be routed VIPEDIA-12 / INTEGRA units.
Unit	Audio Outputs Audio Outputs Control Co	Transport PMC PMC Dante/PMC Dante/PMC Dante/PMC	 Sources from a PAVA Router (VIPxx or ITGxx) will routed over Dante to VIPEDIA-12-PRO and INTEGRA-PRO units, and over PMC to standard VIPEDIA-12 / INTEGRA units.
			Transport methods for voice over IP that the receiver can handle, not necessarily the method used when the route is made.

 Load the configuration to the ASL's PAVA devices using the File Transfer Tool (FTT). 	 File Transfer Tool - V4.2.0.5P -
	Preferred firmware version: v4.2.0.x About Exit

4.5.2 Dante Brooklyn II Module Configuration (Third-Party to PRO)

Important:

- a) Subscriptions (routes) to third-party devices will not be fully configured when the Dante configuration generated by the PAVA SCT is loaded into the Brooklyn II module fitted to VIPEDIA-12-PRO / INTEGRA-PRO units. The configuration must be completed using the Dante Controller.
- b) Any subscriptions between VIPEDIA-12-PRO / INTEGRA-PRO units will also be automatically configured in the same process.
- On the PAVA SCT, export the Dante Controller XML configuration using the menu option: File > Export Dante Controller File

Ed	it <u>I</u>	ools	Prefere	nces	<u>H</u> elp	
Ne	v				Ctrl+N	
<u>O</u> p	en				Ctrl+0	
<u>S</u> av	e				Ctrl+S	
Sav	e <u>A</u> s				Ctrl+Shift	+S
Exp	ort VI	PA Co	onfigurati	on		
Imp	ort V	IPA C	onfigurat	ion		
Res	et VIP	A Co	nfiguratio	n		
Exp	ort V	CP Co	mmands			
Exp	ort Cl	uster	Overview	,		
Exp	ort Da	ante C	Controller	File	No.	
<u>1</u> P	AVAS	ystem	_05.pava	sct	-0	
<u>2</u> P.	AVAS	/stem	_06.pava	sct		
<u>3</u> P	AVAS	/stem	_01.pava	sct		
<u>4</u> P	AVAS	/stem	_03.pava	sct		
<u>5</u> P.	AVAS	ystem	_05.pava	sct		
Exit					Ctrl+O	

Alternatively, right-click the **Dante** item in the device tree and select **Export Dante Controller File** option from the context menu.

				0	0		۴T			
Device						Name	ID			
× 🪊 :	System									
~	🄅 PA	/VA C	luster							
	> 🔚	Rack	Node	2		Node A				
	> 🔚	Rack	Node	2		Node B				
	> 📲	Rack	Node	PRO	1	Node C	:			
	> 📲	Rack	Node	e [PRO	1	Node D)			
	> Fe	INTE	GRA N	lode [PRO]	Node E				
	> 📲	Rack	Node	e [PRO]					
~ (🕘 <u>Cl</u> u	ister G	lobal	s						
	۲	Zone	s							
		DVA	Mess	ages						
	Þ	Perm	anen	t F	Ad	d			lns►	
	> 🕒	Dante	2		_					
	2	PMC	Strea	m	Ex	pand				
	್	BGM	Strea	m	Co	llapse				
	O	NTP :	Serve	rs	-					
		VAVE	Insta	n	Ex	port Dan	ite Conti	roller File		



2. Launch the Dante Controller.

Important:

Ensure that the configuration PC's network interface used to connect to the Dante devices is correctly configured to dynamic IP address; see "APPENDIX A – PC Requirements for ASL Configuration Tools and Dante Controller" (page 95) for further details.

- 3. Select the **Routing** tab in **Dante Controller Network View** main window, ensure that all required devices are present on the network.
- 4. Load the Dante XML configuration using the menu option:

File > Load Preset

Load Preset Ctrl+L	۵	Primary Leader Clocks: BKLYN-II-0e2eba, BKLYN-II-0e3024	0
★ Save Preset Ctrl+S	Status Events		
🚠 Interfaces	6 4 6 1 + + + +		
Exit Alt+F4	e2eb e302 e304 cer-0		
Filter Transmitters	-11-0 -11-0 -11-0 -11-0		
	(TYN CLYN		
Filter Receivers	a a a a		
	mitt		
	ans		
	±		
+ - Receivers (4)			
DVI VII TT O-D-b-			~
BKLYN-II-0e2eba BKLYN-II-0e3024			^
BKLYN-II-0e2eba BKLYN-II-0e3024 BKLYN-II-0e304a			^
BKLYN-II-0e2eba BKLYN-II-0e3024 BKLYN-II-0e304a Mixer-01			~
BKLYN-II-0e2eba BKLYN-II-0e3024 BKLYN-II-0e304a Mixer-01			~
BKLYN-II-0e2eba BKLYN-II-0e3024 BKLYN-II-0e304a Mixer-01			~
BKLYN-II-0e2eba BKLYN-II-0e3024 BKLYN-II-0e304a Mixer-01			^
BKLYN-II-0e2eba BKLYN-II-0e3024 BKLYN-II-0e304a Mixer-01			~
BKLYN-II-0e2eba BKLYN-II-0e3024 BKLYN-II-0e304a Mixer-01			^
BKLYN-II-0e2eba BKLYN-II-0e3024 BKLYN-II-0e304a Mixer-01			^
BKLYN-II-0e2eba BKLYN-II-0e3024 BKLYN-II-0e304a Mixer-01			~
BKLYN-II-0e2eba BKLYN-II-0e3024 BKLYN-II-0e304a Mixer-01			<

- The Preset Elements list shows the elements that can be imported from the configuration.
 It is recommended to select all available elements.
 - **a.** If the MAC addresses are present in the configuration, it should automatically identify and apply the role to the correct device.

🥺 Apply Preset			\times
Device parameters to be updated	Device Roles in this preset	Devices on the network	Do you care about these issues?
Preset Elements Name Redundancy Configuration Switch VLAN Preferred Master External Word Clock Setting Sample Rate Pull-up Sample Rate Encoding Device Latency HaRemote Bridge Mode Interface IPv4 Addresses Tx Channel Labels Tx Flows Rx Channel Subscriptions Codec	Preset Roles VIP03-Location-03 VIP04-Location-04 TIG05-Location-05	Target Devices ITG05-Location-05 ⇒ BKLYN-II-0e2024 VIP04-Location-04 ⇒ BKLYN-II-0e3024 VIP03-Location-03 ⇒ BKLYN-II-0e304a Mixer-01	
	L	Ok Cancel	

- **b.** If the MAC addresses are not present in the configuration, assign the roles to the Dante devices on the network.
 - i. The **Preset Roles** list shows the devices in the configuration and the **Target Devices** list shows the devices found on the network.
 - ii. Select a device in the **Preset Roles** list and its equivalent device the **Target Devices** list, and then click the **Apply Role** button.

Alternatively, select a device in the **Preset Roles** list, and drag and drop it on top of its equivalent device in the **Target Devices** list.

iii. Repeat the above steps for all devices in the Preset Roles list.

Important:

To simplify identifying the correct device on the network amongst various devices with default name, it is recommended that each Dante module is configured whilst it is the only device with default name on the network.



6. Click the C)k button to app	oly tl	he co	onfiguration.	
It may take	e a while depen	ding	g on t	the number of devices.	
7. Once com	pleted, click the	e Ok	butto	ion.	
Device and fitted VIPE	d channel name DIA-12-PRO /	es w INTI	ill ha EGR/	ave been updated and routes between Dante Brooklyn II r A-PRO units will be made (if any).	nodules
Preset Prov Applying Preset I Delete Rx Subso	gress Dante_Config riptions	×	ļ	Preset Progress × Applying Preset Dante_Config Preset complete Ok	
8. On the Ro	uting tab, ensu	ure t	hat a	all required devices are present on the network.	
Important					
a) Subsc Brookl (🕰). the ne	riptions (routes lyn II modules f The subscriptio xt steps.) to itted ons r	third- to V nust	-party devices will be partly configured (unresolved), and /IPEDIA-12-PRO / INTEGRA-PRO units will show a warni be completed (resolved) using the Dante Controller as de	the ing icon escribed in
b) You w config	ill need to com uration generat	olete ed b	e the by the	subscription to third-party devices every time the Dante e PAVA SCT is loaded into the devices.	
Ø Dante Controlle	r - Network View			_	
<u>♀</u> Dante Controlle <u>File</u> <u>D</u> evices <u>V</u> iev	er - Network View v <u>H</u> elp			_	
Image: Device of the second	er - Network View v <u>H</u> elp	۵ (□ × 2
Dante Controlle File Devices View Devices Routing Device	r - Network View <u>Help</u> Clock Status Network Sta	atus E	vents		□ × €
Dante Controlle File Devices View Routing Device Info	er - Network View v Help A A A A A A A A A A A A A A A A A A A	atus E + + 10-1a	vents + + + + + + 0u		□ × 2
Dante Controlle <u>File</u> <u>Devices</u> <u>Viev</u> <u>Device</u> Info <u>C</u> Dante Filter Transmitters	er - Network View v Help A A A A A A A A A A A A A A A A A A A	ocation-05 Mixer-01 + ∃	ocation-03 + +		□ × ?
Dante Controlle Eile Devices View Original Device Info Dante Filter Transmitters Filter Receivers	er - Network View v Help Clock Status Network Status	ITG05-Location-05 = state	VIP04-Location-03 + stuar	Primary Leader Clock: ITG05-Location-05	□ × €
Dante Controlle Eile Devices View Controlle Controlle Controlle Controlle Controlle Filter Transmitters Filter Receivers	er - Network View	ITG05-Location-05 + structure	VIP03-Location-03 + stuar	Primary Leader Clock: ITG05-Location-05	□ × ?
	r - Network View Help Clock Status Network Sta s (4)	ITG05-Location-05 ⊕ state	H VIP03-Location-03 + is used VIP04-Location-04 + stand	Primary Leader Clock: ITG05-Location-05	
Dante Controlle File Devices Viev Device Viev Device Info Device Info Device Info Filter Transmitters Filter Receivers TIG05-Location-0 Mixer-01	er - Network View v Help Clock Status Network Sta s (4) D5	ITG05-Location-05	Image: state	Primary Leader Clock: ITG05-Location-05	□ × 2
Dante Controlle File Devices View Device Info Device Info Device Info Device Info Filter Transmitters Ifiter Receivers TIG05-Location-0 Mixer-01 VIP03-Location-0	r - Network View	+ +	+ +	Primary Leader Clock: ITG05-Location-05	
Dante Controlle Eile Devices Viev Device Info Contect Info Device Info Device Info Device Info Ifler Transmitters Ifler Receivers ITG05-Location-C Mixer-01 VIP03-Location-C	r - Network View v Help Clock Status Network Sta s (4) 05 03 04 04	+ + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + +	+ + + + + + + + + + + + +	Primary Leader Clock: ITG05-Location-05	
Dante Controlle File Devices View Routing Device Info Fouring Device Info Fourier Transmitters Filter Transmitters Filter Receivers HITGO5-Location-C Mixer-01 VIP03-Location-C VIP04-Location-C	r - Network View v Help Clock Status Network Sta (*) (*) (*) (*) (*) (*) (*) (*)	► 11G05-Location-05+	Image: Control of the state	- Primary Leader Clock: ITG05-Location-05	

ile Devices View Help			~
ne <u>Devices view n</u> eip			
	🕀 🔕	Primary Leader Clock: ITG05-Location-05	0
Routing Device Info Clock Status Ne	etwork Status Events		
Contention Filter Transmitters Filter Receivers	Transmitters (4) ITG05-Location-05⊕ Mixer-01 = 0120-0200	VP03-Location-03⊞ VP03-Location-03 VP03-Location-04 VP04-Location-04 VP04-Location-04 VP04-Location-04 VP04-Location-04 VP04-Location-04 VP04-Location-04	
H - Receivers (4)		1 H	~
VIP03-Location-03			
VIP04-Location-04			

10. For each Dante Brooklyn II module fitted to VIPEDIA-12-PRO / INTEGRA-PRO units, connect the required receive channel to the correct transmit channel on the third-party device as described below.

Important:

You will need to repeat these steps every time the Dante configuration generated by the PAVA SCT is loaded into the devices.

a. Expand the required receiver device (VIPEDIA-12-PRO / INTEGRA-PRO) along the left side.

<u>F</u> ile <u>D</u> evices <u>V</u> iew <u>H</u> elp								
			Primary Leader Clock: ITG05-Location-05					?
Routing Device Info Clock Status Netwo	ork Sta	atus	vents					
Dante [®]	_	Location-05 +	00000000000000000000000000000000000000	32 D	Location-04 +			
Filter Receivers	+ Transmitters (4)	ITG05-		VID03-	VIP04-			
H - Receivers (4)	^							~
Miyor-01	<u> </u>							
YIP03-Location-03 ∩ 01-VIP03-IP05-V03-CD-Player ∩ 02-VIP03-IP06-V03-CD-Player ∩ 03-VIP03-IP06-V03-MISC-06 ∩ 04-VIP03-IP06-V03-MISC-07 ∩ 05-VIP03-IP08-V03-MISC-08 ∩ 05-VIP03-IP08-V03-MISC-08 ∩ 05-ONT06-SRC02-Input-01 ∩ 07-DNT06-SRC02-Input-02 ∩ 08-DNT06-SRC02-Input-02 ∩ 08-DNT06-SRC11-Player-01 ∩ 09-DNT06-SRC12-Player-02 ∩ 10-DNT06-SRC18-Player-08 ∩ 11 ∩ 12 ∩ 13 ∩ 14		+						~
		<						>
P: S:			4 devices Audio Multicast Bandwidth: 9Mbps E	ent Lo	og:	Clock Sta	tus Monito	or: 📃



- c. Click on the intersection to create a subscription between the transmit and receive channels
- **d.** A green tick will appear in the intersection. You may initially see a grey hourglass icon (usually very briefly) to indicate that the subscription is in progress.

In the example below, Integra ITG05:Rx06 is connected to third-party device Mixer-01:Tx01.





4.6 Third-Party Dante Device to VIPEDIA-12-PRO / INTEGRA-PRO VIPEDIA-12 / INTEGRA (Processed)

This section describes the configuration of processed third-party Dante sources that can be routed to VIPEDIA-12-PRO / INTEGRA-PRO units and standard VIPEDIA-12 / INTEGRA units.

Important:

- a) An audio input is used for each Dante source.
- b) Input dynamic processing (EQ, gate, compressor and limiter) and gain adjustment can be applied to the processed Dante input using the Router Dynamic Configuration Tool (RDT).
- c) Can be routed using PMC to remote outputs.
- d) Can also be routed using Dante to outputs on VIPEDIA-12-PRO / INTEGRA-PRO units.
- e) Can be used as VOX gate route trigger like miscellaneous inputs.



4.6.1 PAVA SCT Configuration (Third-Party to PRO - Processed)

- 1. On the PAVA SCT device tree, right-click the Dante item.
- 2. Select Add > Ins, and then External Dante Device.

The PAVA SCT automatically assigns the lowest available Unit ID (1 to 63 range).



- 3. Select the required **Dante Device** in the device tree to load the configuration page.
- 4. Enter the device's Name.
- 5. Enter the Dante Module MAC Address; see Section "4.1.3 MAC Address on the Dante Controller" (page 14)

The Dante MAC address of a third-party device is not essential. It is not currently used but may be useful in the future.

6. Select the number of Dante transmit channels from the **Number of Dante Feeds** drop-down menu (8, 16, 32 or 64).

levice Name ID			
🚊 System		External Dante Device	
✓ I PA/VA Cluster	Name: Mixer-01		
> 15年 Rack Node Node A	Dante Module MAC Address: 00:1D:C1:0	E:31:2E	
> 🖼 Rack Node [PRO] Node C	Number of Dante Feeds: 32 💌		
Rack Node [PRO] Node D Node INTEGRA Node [PRO] Node E	Conta Banda		
Cluster Globals	SRC01:	Rx: SRC17:	R
Zones DVA Mercagor	SRC02:	Rx: SRC18:	R
Permanent Routes	SRC03:	RDC SRC19:	R
V 🔝 Dante	SRC04:	RDC SRC20:	R
PMC Streams	SRC05:	RDC SRC21:	R
BGM Streams	SRC06:	Roc SRC22:	R
VAVE Instances	SRC07:	Roc SRC23:	R
📃 Cluster Overview	SRC08:	Roc SRC24:	R
	SRC09:	Rx: SRC25:	R
	SRC10:	Rx: SRC26:	R
	SRC11:	Rx: SRC27:	R
	SRC12:	Rx: SRC28:	R
	SRC13:	RDC SRC29:	R
	SRC14:	Roc SRC30:	R
	SRC15:	Roc SRC31:	R
	SRC16:	Ro: SRC32:	R

7. Enter a name for each Dante stream (SRCxx) available from the device, where SRCxx equates to Transmit Channel xx on the third-party device.

- a) Using names that are assigned to the transmit channel on the Dante Controller helps the configuration.
- b) The source name must be filled in for Rx channel and route configuration.

🗈 🖻 🗄 🔀 🕼 🕼	<u>н</u> еір () () (т			
evice System System PA/VA Cluster Rack Node Rack Node	Name ID Node A	Name: Mixer-01 Dante Module MAC Address: 00:1D:C1:0E:31:	External Dante Device	
Rack Node [PRO] Rack Node [PRO] Rack Node [PRO] INTEGRA Node [PRO Cluster Globals	Node D Node D)] Node E	Dante Feeds SRC01: Input 01	Rx: SRC17: [Player 07	C Rx:
Zones		SRC02: Input 02	Roc SRC18: Player 08	Rx:
DVA Messages Remanent Routes		SRC03: Input 03	□ Rxc SRC19:	Rx:
V 🚹 Dante		SRC04: Input 04	□ Roc SRC20:	Rx:
Dante Device	Mixer-01 DNT06	SRC05: Input 05	□ Rx: SRC21:	Rx:
→ BGM Streams		SRC06: Input 06	□ Rc SRC22:	Rx:
NTP Servers		SRC07: Input 07	□ Rxc SRC23:	Rx:
Cluster Overview		SRC08: Input 08	□ Rxc SRC24:	Rx:
		SRC09: Input 09	□ Rxc SRC25:	Rx:
		SRC10: Input 10	□ Rxc SRC26:	Rx:
		SRC11: Player 01	□ Rx: SRC27:	Rx:
		SRC12: Player 02	Rc SRC28:	Rx:
		SRC13: Player 03	Rc SRC29:	Rx:
		SRC14: Player 04	Rc SRC30:	Rx:
		SRC15: Player 05	Rx: SRC31:	Rx:
		SRC16: Player 06	Rxc SRC32:	Rx:

8. Select the Dante streams that will be routed to VIPEDIA-12-PRO / INTEGRA-PRO units by ticking the **Rx** check box of the required stream (**SRCxx**).

The PAVA SCT automatically allocates a Dante receive channel (**Rx**) to the third-party Dante stream (**SRCxx**).

This tells all VIPEDIA-12-PRO and INTEGRA-PRO units in the system to listen to the this Dante stream when this source is routed.

Important:

- a) Only select an **Rx** channel for Dante streams that are routed within the PAVA system.
- b) Selecting an **Rx** channel for streams that are not routed within the PAVA system will reduce the number of Dante channels available for the PAVA system.

In the example below, 5 x Dante streams are selected on third-party device DNT06: SRC01<>Rx06, SRC02<>Rx07, SRC11<>Rx08, SRC12<>Rx09, and SRC18<>Rx10.

System			
> 🐙 Rack Node Node A	Name: Mixer-01		
> 💹 Rack Node 🛛 Node B	Dante Module MAC Address: 00:1D:C1:0E:31:2E		
> MM Rack Node [PRO] Node C > MM Rack Node [PRO] Node D	Number of Dante Feeds: 32		
> F INTEGRA Node [PRO] Node E	Carcel		
Cluster Globals	SRC01: Input 01	Kx:06 5 17: Player 07	
DVA Messages	SRC02: Input 02	Kx:07 5 18: Player 08	Rx
Permanent Routes	SRC03: Input 03	Ro: SF 19:	
Dante Dante Device Mixer-01 DNT06	SRC04: Input 04	Spc SF 20:	Rx
MC Streams	SRC05: Input 05	Rx: SF 21:	Rx
BGM Streams	SRC06: Input 06	Rx: SF 22:	Rx
VAVE Instances	SRC07: Input 07	Rx: SF 23:	Ro
Cluster Overview	SRC08: Input 08	Rxc SF 24:	Rx
	SRC09: Input 09	Roc SF 25:	Rx
	SRC10: Input 10	□ Roc SF 26:	Rx
	SRC11: Player 01	Rx: 08 SF 27:	Rx
	SRC12: Player 02	✓ Rx:09 SF 28:	Rx
	SRC13: Player 03	Rx: SF 29:	Rx
	SRC14: Player 04	Rx: SF 30:	Rx
	SRC15: Player 05	Rx: SF 31:	Rx
	SRC16: Player 06	Rxc SF 32:	

9. The **Dante** page shows the Dante channel allocation for each PRO and third-party Dante unit in the system.

The **Dante** page for the transmitter unit (the third-party device) will show a tick in the intersection of the transmit channel (Tx) and the configured receive channel (Rx). For receiver units (VIPEDIA-12-PRO and INTEGRA-PRO units), it will show receive channels (Rx) assigned to the third-party Dante streams.

In the example below, the **Dante** page for Vipedia VIP03 (and all other VIPEDIA-12-PRO and INTEGRA-PRO units) shows receive channel Rx06 assigned to SCR01; Rx07 to SCR02, Rx08 to SRC11, Rx09 to SCR12, and Rx10 to SCR18 of third-party device DNT06.



Figure 5 Dante page example (third-party Dante sources)

- 10. Configure the audio input that will be used to process the third-party Dante source.
- **11.** Right-click the required Audio Input.
- 12. Select Dante Feed, the third-party Dante device, and then the Dante source.

In this example, Audio Input 9 is configured as processed Dante input, where DNT06:SRC01 is selected as the **Dante Feed**.



13. The processed Dante input will automatically be set to route over Dante if a receive channel (Rx) is available in the system.

Important:

If the processed Dante source is only for local outputs, then untick **Route over Dante for ASL PRO devices** option to free up a Dante receive channel (Rx).



14. Configure routes as normal: contact inputs, microphone buttons, permanent routes, program/source selectors, wall-mount controllers, VOX routes (as source), VOX route trigger, and/or as BGM streams.

Processed Dante inputs will be identified as **[Processed]** in the **Source** list of routing configuration dialogs; see example below for contact input routing. If the processed Dante input is routed over Dante, it will also be identified as **[DANTE]**; see example below for contact input routing

Refer to the following sections for further details:

- "4.7.1 Dante Audio as Source in Contact / Microphone Button / Permanent / Source Selector / Wall-Mount Controller / VOX Routes" (page 80)
- "4.7.2 DANTE Audio as VIPA BGM Sources" (page 82)
- "4.7.3 Processed Third-Party Dante Source as VOX Route Trigger" (page 83)

- a) The **Transport** column in routing configuration dialogs identifies the transport methods for voice over IP that the receiver can handle (PMC and/or Dante), not necessarily the transport method that will used when the route is made. The audio source type will determine the transport method that will be used when the route is made.
- b) Unprocessed third-party Dante sources can be routed to VIPEDIA-12-PRO / INTEGRA-PRO units only (over Dante). Although routes are allowed in the configuration, unprocessed third-party Dante sources will not be routed to standard units.
- c) Although the system configuration is correct, Dante routes will not route audio until the Dante Brooklyn II modules are correctly configured using the Dante Controller; see Section "4.6.2 Dante Brooklyn II Module Configuration (Third-Party Processed to PRO) (page 67).

	[Processed] [DANTE] Sources:
Source 1: VIP03/IP09 Input 01 [Processed] [10]	These processed inputs will be routed over Dante to VIPEDIA-12-PRO and INTEGRA-PRO units, and over PMC to standard VIPEDIA-12 / INTEGRA units.
Unit Audio Outputs Transport > VIP01: Location 01 PMC > VIP02: Location 02 PMC > VIP03: Location 03 Output(s) 1, 2, 3 > VIP04: Location 04 Dante/PMC > ITG05: Location 05 Output(s) 1, 2, 3	
	[Processed] Sources:
Source 1: VIP03/IP10 Input 02 rocessed] [10] Source: VIP03/IP10 Input 02 [Processed]	These processed inputs will be routed over PMC to VIPEDIA-12-PRO and INTEGRA- PRO units and standard VIPEDIA-12 / INTEGRA units.
Unit Audio Outputs Transport > VIP01: Location 01 PMC > VIP02: Location 02 PMC > VIP03: Location 03 Output(s) 1, 2, 3 Dante/PMC > VIP04: Location 04 Dante/PMC > VIP05: Location 05 Output(s) 1, 2, 3 Dante/PMC	
	Transport methods for voice over IP that the receiver can handle, not necessarily the method used when the route is made.

	Image: Second
15. Load the configuration to the ASL's PAVA devices using the File Transfer	Write Read Network Settings Image: All Devices Image: Write Config Override VIPEDIA-NET Network Card IP Address: 192,168,1.2
Tool (FTT).	Loading config file: C:/Configs/PAVASystem_05.pava_sct Listening to multicast address 239.1.0.111 on interface 192.168.1.63
	Preferred firmware version: v4.2.0.x About Exit

4.6.2 Dante Brooklyn II Module Configuration (Third-Party Processed to PRO)

Important:

- a) Subscriptions (routes) to third-party devices will not be fully configured when the Dante configuration generated by the PAVA SCT is loaded into the Brooklyn II module fitted to VIPEDIA-12-PRO / INTEGRA-PRO units. The configuration must be completed using the Dante Controller.
- b) Any subscriptions between VIPEDIA-12-PRO / INTEGRA-PRO units will also be automatically configured in the same process.
- On the PAVA SCT, export the Dante Controller XML configuration using the menu option: 1. File > Export Dante Controller File PAVA System Configuration Tool - V4.2.0.5P PAVASystem_(<u>File Edit Tools Preferences H</u>elp Ctrl+N New <u>O</u>pen... Ctrl+O Save Ctrl+S Ctrl+Shift+S Save <u>A</u>s... Export VIPA Configuration Import VIPA Configuration Reset VIPA Configuration Export VCP Commands Export Cluster Overview Export Dante Controller File 1 PAVASystem_05.pava_sct 2 PAVASystem_06.pava_sct 3 PAVASystem_01.pava_sct 4 PAVASystem_03.pava_sct

Alternatively, right-click the **Dante** item in the device tree and select **Export Dante Controller File** option from the context menu.



Ctrl+Q

5 PAVASystem_05.pava_sct

Exit



2. Launch the Dante Controller.

Important:

Ensure that the configuration PC's network interface used to connect to the Dante devices is correctly configured to dynamic IP address; see "APPENDIX A – PC Requirements for ASL Configuration Tools and Dante Controller" (page 95) for further details.

- 3. Select the **Routing** tab in **Dante Controller Network View** main window, ensure that all required devices are present on the network.
- 4. Load the Dante XML configuration using the menu option:

File > Load Preset

Load Preset Ctrl+L	E 🗄 🤇) 🗧	Ì		Primary Leader Clocks: BKLYN-II-0e2eba, BKLYN-II-0e3024	0
Save Preset Ctrl+S	atus Network Sta	tus E	Event	s		
Interfaces		+ + c	- + - + -	01 +		
EXIT AIT+F4		e2e	63 G	xer-		
Filter Transmitters		H H	ĬĬ	Σ		
	4	X X	ΞŚ			
Filter Receivers		¥ 9	5 X			
	tte					
	ran					
	–					
	+					
+ - Receivers (4)						
BKLYN-II-0e2eba						^
BKLYN-11-0e3024						
		<				> [×]

- The Preset Elements list shows the elements that can be imported from the configuration.
 It is recommended to select all available elements.
 - **a.** If the MAC addresses are present in the configuration, it should automatically identify and apply the role to the correct device.

🥝 Apply Preset				\times
Device parameters to be updated	Device Roles in this preset	Devices on the net	work 🗾 Do you car	e about these issues?
Preset Elements	Preset Roles VIP03-Location-03 VIP04-Location-04 TTG05-Location-05	Target Devices ITG05-Location-05 ÷ BKLYN-I VIP04-Location-04 ÷ BKLYN-I VIP03-Location-03 ÷ BKLYN-I Select All Select	I-0e2eba ^ I I-0e3024 I I-0e304a Mixer-01 I Mixer-01 I I Issues	
		Ok Cancel		

- **b.** If the MAC addresses are not present in the configuration, assign the roles to the Dante devices on the network.
 - i. The **Preset Roles** list shows the devices in the configuration and the **Target Devices** list shows the devices found on the network.
 - ii. Select a device in the **Preset Roles** list and its equivalent device the **Target Devices** list, and then click the **Apply Role** button.

Alternatively, select a device in the **Preset Roles** list, and drag and drop it on top of its equivalent device in the **Target Devices** list.

iii. Repeat the above steps for all devices in the Preset Roles list.

Important:

To simplify identifying the correct device on the network amongst various devices with default name, it is recommended that each Dante module is configured whilst it is the only device with default name on the network.



6. Click the Ok button to a	apply the configuration.				
It may take a while dep	ending on the number of devices.				
7. Once completed, click	the Ok button.				
Device and channel na fitted VIPEDIA-12-PRC	mes will have been updated and routes between Dante Brooklyn II modules 9 / INTEGRA-PRO units will be made (if any).				
Preset Progress Applying Preset Dante_Config Delete Rx Subscriptions Ok	X Preset Progress Applying Preset Dante_Config Preset complete Ok				
8. On the Routing tab, er	nsure that all required devices are present on the network.				
Important:					
 a) Subscriptions (rout Brooklyn II module (es) to third-party devices will be partly configured (unresolved), and the s fitted to VIPEDIA-12-PRO / INTEGRA-PRO units will show a warning icon otions must be completed (resolved) using the Dante Controller as described in				
 b) You will need to co configuration gene 	mplete the subscription to third-party devices every time the Dante rated by the PAVA SCT is loaded into the devices.				
Dante Controller - Network View <u>File D</u> evices <u>V</u> iew <u>H</u> elp	– 🗆 X				
Image: Controller - Network View File Devices View Help Image: Controller - Network View File Devices View Help Image: Controller - Network Image: Controller - Network View Image: Controller - Network Image: Controller - Network View Image: Controller - Network Image: Controller - Network Image: Controller - Network Image: Cont	- C X				
Image: Second controller - Network View File Devices View Help Image: Second control c	- C X				
Dante Controller - Network View File Devices View Help Pouting Device Info Clock Status Network Eiters Transmitters	- C X Primary Leader Clock: ITG05-Location-05 k Status Events t t t t t Store of t g t t t t Store of t g t t t Store of t g t t store of t storeo				
Dante Controller - Network View File Devices View Help Routing Device Info Clock Status Networ Contes Filter Transmitters	- C X Primary Leader Clock: ITG05-Location-05 k Status Events TO- 19 TO-				
Dante Controller - Network View File Devices View Help File Device Info Clock Status Network Dante* Filter Transmitters Filter Receivers	- C X Primary Leader Clock: ITG05-Location-05 K Status Events (e) Status Events (f) C-torganity (f) C-t				
Dante Controller - Network View File Devices View Help Outing Device Info Clock Status Network Dante [®] Filter Transmitters Filter Receivers Filter Receivers (4) TIGDS-Location 05	- C X Primary Leader Clock: ITG05-Location-05 k Status Events t To - sayty to - sayty to - to -				
Dante Controller - Network View File Devices View Help Nouting Device Info Clock Status Network Dante* Filter Transmitters Filter Receivers Image: Contemposition of the status of t	Primary Leader Clock: ITG05-Location-05				
Dante Controller - Network View File Devices View Help Routing Device Info Clock Status Network Contes Filter Transmitters Filter Receivers (4) TIG05-Location-05 Mixer-01 VIP03-Location-03 VIP04-Location-04	- C X Primary Leader Clock: ITG05-Location-05 & Status Events + T 0				
Dante Controller - Network View File Devices View Help Nouting Device Info Clock Status Network Contes Filter Transmitters Filter Receivers Hiter Receivers (4) TIG05-Location-05 Mixer-01 VIP03-Location-03 VIP04-Location-04	Primary Leader Clock: ITG05-Location-05				
Dante Controller - Network View File Devices View Help File Device Info Clock Status Network Conte Filter Transmitters Filter Receivers Nixer-01 VIP03-Location-03 VIP04-Location-04	Primary Leader Clock: ITG05-Location-05				
etwork Status	Events	Primary Leader Clock: ITG05-Location-05			0
-----------------------	---	--	--	---	---
etwork Status	Events	Primary Leader Clock: ITG05-Location-05			0
etwork Status	Events				0
±					
(4) 05-1 ocation-0	MXX XXX XXX XXX XXX XXX XXX XXX	00000000000000000000000 8 8 8 8 8 8 8 8	31 D 32 D 03-Location-04 04-Location-04		
Transmitters			414 ATA		
<u> </u>	■				
A +	E				
			+ +		
	 ▶ ▶ ₩ ₩ ■ ■			Image: Sector	

10. For each Dante Brooklyn II module fitted to VIPEDIA-12-PRO / INTEGRA-PRO units, connect the required receive channel to the correct transmit channel on the third-party device as described below.

Important:

You will need to repeat these steps every time the Dante configuration generated by the PAVA SCT is loaded into the devices.

a. Expand the required receiver device (VIPEDIA-12-PRO / INTEGRA-PRO) along the left side.

<u>F</u> ile <u>D</u> evices <u>V</u> iew <u>H</u> elp								
			Primary Leader Clock: ITG05-Location-05					?
Routing Device Info Clock Status Netwo	ork Sta	atus	vents					
Dante [®]	_	Location-05 +	00000000000000000000000000000000000000	32 D	Location-04 +			
Filter Receivers	+ Transmitters (4)	ITG05-		VID03-	VIP04-			
H - Receivers (4)	^							~
Miyor-01	<u> </u>							
YIP03-Location-03 ∩ 01-VIP03-IP05-V03-CD-Player ∩ 02-VIP03-IP06-V03-CD-Player ∩ 03-VIP03-IP06-V03-MISC-06 ∩ 04-VIP03-IP06-V03-MISC-07 ∩ 05-VIP03-IP08-V03-MISC-08 ∩ 05-VIP03-IP08-V03-MISC-08 ∩ 05-ONT06-SRC02-Input-01 ∩ 07-DNT06-SRC02-Input-02 ∩ 08-DNT06-SRC02-Input-02 ∩ 08-DNT06-SRC11-Player-01 ∩ 09-DNT06-SRC12-Player-02 ∩ 10-DNT06-SRC18-Player-08 ∩ 11 ∩ 12 ∩ 13 ∩ 14		+						~
		<						>
P: S:			4 devices Audio Multicast Bandwidth: 9Mbps E	ent Lo	og:	Clock Sta	tus Monito	or: 📃



- c. Click on the intersection to create a subscription between the transmit and receive channels
- **d.** A green tick will appear in the intersection. You may initially see a grey hourglass icon (usually very briefly) to indicate that the subscription is in progress.

In the example below, Integra ITG05:Rx06 is connected to third-party device Mixer-01:Tx01.





4.6.3 Processing Audio from Third-Party Dante Device

- 1. Launch the RDT from the PAVA SCT; refer to the VIPEDIA-12 User's Manual(Table 2:[2] on page 94).
- 2. Select the required VIPEDIA-12-PRO/INTEGRA-PRO from the drop-down menu located on the bottom-left corner of the main GUI.

The RDT shows the input type at the top of each control bar: **ANALOGUE** for miscellaneous and microphone inputs, and **DANTE** for processed Dante inputs. The **Sensitivity** and **Phantom Power** are hidden in the **Properties** dialog for processed Dante inputs.





4.7 Configuration of Dante Audio in PAVA Routes

Dante audio sources (unprocessed and processed) can be routed by all standard routing mechanisms:

 "4.7.1 Dante Audio as Source in Contact / Microphone Button / Permanent / Source Selector / Wall-Mount Controller / VOX Routes" (page 80)

Dante audio sources can also be configured as VIPA BGM sources:

• "4.7.2 DANTE Audio as VIPA BGM Sources" (page 82)

Processed external Dante inputs can be configured as VOX route triggers:

• "4.7.3 Processed Third-Party Dante Source as VOX Route Trigger" (page 83)

4.7.1 Dante Audio as Source in Contact / Microphone Button / Permanent / Source Selector / Wall-Mount Controller / VOX Routes

1. On the PAVA SCT device tree, select the required contact input, microphone button, permanent route entry, program/source selector, wall-mount controller or VOX route trigger input.

Please refer to the PAVA SCT User's Manual (Table 2:[1] on page 94) for details on how to configure the required route trigger.

2. Select the required Dante source from the **Source** drop-down list; see examples below.

Notes:

- a) The **Transport** column in routing configuration dialogs identifies the transport methods for voice over IP that the receiver can handle (PMC and/or Dante), not necessarily the transport method that will used when the route is made. The audio source type will determine the transport method that will be used when the route is made.
- b) Although routes are allowed in the configuration, unprocessed third-party Dante sources will not be routed over PMC to standard VIPEDIA-12 / INTEGRA units. Unprocessed third-party Dante sources can be routed to VIPEDIA-12-PRO / INTEGRA-PRO units only (over Dante).

Sourc V: VIP03/IP05 V0	3-CD Play 🗸 10]		
Source: VIP03/IP05 V03-CD	Player [DANTE]		Ŧ
Unit	Audio Outputs	Transport	
 □ VIPO1: Location 02 □ VIPO2: Location 02 □ VIPO2: Location 03 □ VIPO4: Location 04 □ ITG05: Location 05 	Output(s) 1, 2, 3 Output(s) 1, 2, 3	PMC Dante/PMC Dante/PMC Dante/PMC	

[DANTE] Sources:

Sources from a PAVA Router (**VIPxx** or **ITGxx**) will be routed over Dante to VIPEDIA-12-PRO and INTEGRA-PRO units, and over PMC to standard VIPEDIA-12 / INTEGRA units.



4.7.2 DANTE Audio as VIPA BGM Sources

VIPEDIA-12-PRO / INTEGRA-PRO and third-party Dante sources can be configured as BGM source routed by the Network Cards in the PAVA system; see routing details in Figure 6 (page 82).

On the PAVA SCT, open the BGM Streams page. 1. 2. Click the Add BGM Stream button. Select the required Dante source. 3. Figure 6 BGM Stream - Dante sources 1 PAVA System Configuration Tool - V4.2.0.5P PAVASystem_05.pava_sct × Edit Tools 🗋 🗀 🔚 🚼 🚺 🚯 🕼 🖛 Device Name ID BGM Streams ✓ <u>iii</u> System
 ✓ ⁽ⁱⁱⁱ⁾ PA/VA Cluster Note: BGM Streams are unaffected by Custom Fade Times (Fade Behaviour is "Urgent") Rack Node Rack Node Rack Node [PRO] Add BGM Stream ID Audio Source Description Priority PMC Dante Node A Node B Node C B Rack Node [PRO] Node D Delete Selected INTEGRA Node [PRO] Node E
 INTEGRA [PRO] Location 05 ITG05 Cluster Globals VA Messages
 Permanent Routes
 Dante PMC Streams 🚳 BGM Stream Configuration ? × VAVE Instances • Source: Cluster Overview VIP01/IP12V1:IP12 VIP02/IP06V2:IP6 ٠ Description: VIP03/IP05 V03-CD Player [DANTE] VIP03/IP06 V03-MISC-06 [DANTE] VIP03/IP07 V03-MISC-07 [DANTE] Priority: VIP03/IP08 V03-MISC-08 [DANTE] VIP03/IP09 Input 01 [Processed] [DANTE] VIP03/IP10 Input 02 Processed VIP04/IP10 V04-MISC-10 VIP04/IP11 V04-MISC-11 V [DANTE] BGM sources from a PAVA Router (VIPxx or ITGxx) will be routed over Dante to VIPEDIA-12-PRO and INTEGRA-PRO units, and over PMC to standard VIPEDIA-12 / INTEGRA units. Unprocessed [DANTE] BGM sources from third-party devices (DNTxx) will be routed over Dante to VIPEDIA-12-PRO and INTEGRA-PRO units. They will not be routed to VIPEDIA-12 / INTEGRA units. [Processed] [DANTE] BGM sources will be routed over Dante to . VIPEDIA-12-PRO and INTEGRA-PRO units, and over PMC to standard VIPEDIA-12 / INTEGRA units. [Processed] BGM sources will be routed over PMC to VIPEDIA-12-PRO . and INTEGRA-PRO units and standard VIPEDIA-12 / INTEGRA units.

4.7.3 Processed Third-Party Dante Source as VOX Route Trigger

PAVA System Configuration Tool - V4.2.0.5	5P PAVASystem_0	5.pava_sct	
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System			VIPUS: Location US > Audio Input 9 [PRO] > Processed Dante Feed Divitio/SRC01 (RX
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> 👼 Rack Node	Node B		
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VIPEDIA [PRO]	Location 03	VIP03	
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Y 🍠 Audio Input 9 [PRO	1	Rx02	
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4.	Load the configuration to the PAVA devices using the File Tool (FTT).	ASL's Transfer	Iversity - - × Local IP address: Ethernet 3 - PAVA (OK) - 192.168.1.63 • SCT Config C:/Configs/PAVASystem_05.pava_sct Write Read Network Settings Time Settings Image: Setting State Image: Setting State Image: Setting State Image: Setting State Image: Setting State Image: Setting State Image: Setting State Image: Setting State Image: Setting State Image: Setting State <t< th=""></t<>
			Preferred firmware version: v4.2.0.x About Exit
5.	Launch the RDT to enable, ar down menu located on the bo	nd select the re httom-left corne	quired VIPEDIA-12-PRO/INTEGRA-PRO from the drop-
6.	Open the Properties dialog for	or the required	processed Dante input that acts as VOX route trigger.
7.	Enable the Gate in the input processing.	Properties for 'DAN' Sensitivity Trim -74.6	TE3: INPUT 6Input 01
8.	Set the Threshold to a suitable level to trigger the route.	• 0dB	Band 4 (High Shelf): 0.0dB Gain Council and Band 4 (High Shelf): 0.0dB Gain Council and Band 4 (High Shelf): Council and Band 4 (High Shelf): Counci
9.	Set Attack to 0.1 ms (i.e. as fast as possible).	○ -20dB	Band 3: Gain Contraction Contr
10.	Set the Hold Time to suitably high level.	○ -60dB	Band 2:
	The Hold Time defines the amount of time required below the Threshold before the route is cleared.	Phase Invert Phantom Power Surveillance Threshold	Gain Freq Slope Reset
	Usually set between 5000 ms to 10000 ms to allow for breaks between songs in BGM, etc.	OdB J.C	-40dB 0.1ms 5000ms 1000ms
11.	Set Release to 1000 ms (or as required) so that the route fades out reasonably smoothly.		ORMS OdB 2.0:1 0.1ms S0ms 0.0dB 0.0dB Chime Limiter Level Dimensional Attack Hold Release Make Up Gain OdB OdB OdB OdB OddB OddB
12.	Commit the changes.		

5 Dante Brooklyn II Module Firmware Update



VIPEDIA-12-PRO / INTEGRA-PRO units out of the box are supplied with Dante firmware version that is approved for EN 54-16 applications.

For EN 54-16 compliance:

- a) Firmware update must be to a version of product firmware that is approved by ASL. If in doubt, please contact ASL.
- b) Change to product firmware can only be done at access level 4 which must be restricted to persons trained and authorised by ASL to alter the firmware.

Important:

a) You will need to install the Dante Firmware Update Manager on the configuration PC.

The Dante Firmware Update Manager is available on request from Audinate or ASL.

Note that it is not possible to update the Dante Firmware using the Dante Updater function on the Dante Controller. Dante modules on VIPEDIA-12-PRO / INTEGRA-PRO units will be listed under **CONSULT MANUFACTURER**.

Dante Updater 2.1.0				– 🗆 X
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UPD Dante Updater does no firmware for these de Please consult you manufacturer for sup CONSULT MANUFACTU	it have vices. Ir port RER			
DEVICE NAME	MANUFACTURER 🔻	MODEL NAME	PRODUCT VERSION	DANTE VERSION
VIP03-Location-03			0.0.0.0	4.1.1.4
▶ VIP04-Location-04			0.0.0.0	4.1.1.4
Mixer-01			0.0.0.0	4.1.1.4
▶ ITG05-Location-05			0.0.0.0	4.1.1.4
				UPDATE SELECTED DEVICES

b) The required Dante firmware image.

The Dante firmware image is available on request from Audinate or ASL.

c) If any difficulties are encountered, contact ASL.

- 1. Launch the Dante Firmware Update Manager.
- 2. Select the correct network interface and click the Next button.

Important:

Ensure that the configuration PC's network interface used to connect to the Dante devices is correctly configured to dynamic IP address; see "APPENDIX A – PC Requirements for ASL Configuration Tools and Dante Controller" (page 95) for further details.

Dante Firmware Update Manager v3.10.6.2	-		×
audin	ate		
i <u>Lioonn</u>			
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Select the network interface used for th	e primary Dante network		
Ethernet 2 - PAVA) ~		
	Next	Qu	it

3.	Click the Update Dante Firmware button.
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	<u><u>í</u>dudinate</u>
	Firmware Update Manager
	Choose Mode
	Update Dante Firmware
	Failsafe Recovery
	Back Ouit

4.	Browse to the required firmware image.	
	Important:	
	Firmware update must be to a version of product firmware that is approved by ASL. If in doubt, contact ASL.	please
	Mante Firmware Update Manager v3.10.6.2 — 🗆 🗙	
	<u><u>í</u>dudinate</u>	
	Firmware Update Manager	
	Select Firmware Update File	
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	Override Device Matching	
	Back Next	

5.	Tick the Override Device Matching .
	The Dante Firmware Update Manager v3.10.6.2 - 🗆 🗙
	<u><u>Audinate</u></u>
	Firmware Update Manager
	Select Firmware Update File
	fpga-4.0.2.10_vcxo-4.0.2.8.dnt Browse Noverride Device Matching Device Matching must be selected. Otherwise, the Firmware Updater will NOT find VIPEDIA-12-PRO / INTEGRA-PRO units.
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	_	Name	Manufacturer	Model	Version	IP			
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		Mixer-01	-	Brooklyn-II	4.1.1.4	169.254.228.15	Ready		
		VIP03-Location-03	-	Brooklyn-II	4.1.1.4	169.254.227.43	Ready		
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6 Acronyms

ADT	Amplifier Dynamic Configuration Tool (ASL)
AS	Active Standby (ASL)
ASL	Application Solutions (Safety and Security) Limited
BGM	BackGround Music
BMB01	Remote I/O Unit (ASL)
CP	Computer Processor
DBB	Digital BackBone (ASL)
DVA	Digital Voice Announcer
EQ	Equaliser
GPIO	General Purpose Inputs/Outputs
GUI	Graphical User Interface
ID	Identification
IGMP	Internet Group Management Protocol
INTEGRA	Wall-mount Voice Alarm System (ASL)
INTEGRA-PRO	Wall-mount Voice Alarm System (Integrated Dante™) (ASL)
IP	Internet Protocol
MAC	Media Access Control
NA	Not Available/Not Applicable
NIC	Network Interface Card
PA	Public Address
PA/VA	Public Address and Voice Alarm
PAVA	Public Address and Voice Alarm
PAVA SCT	PAVA System Configuration Tool (ASL)
PC	Personal Computer
PMC	Portable Media Carrier (ASL's audio over IP format)
PRO	VIPEDIA-12-PRO and INTEGRA-PRO (ASL)
QR	Quick Response code
RDT	Router Dynamic Configuration Tool (ASL)
RSTP	Rapid Spanning Tree Protocol
VA	Voice Alarm
VCT	VIPA Config Tool (ASL)
VIPA	Voice over IP Audio (ASL)
VIPEDIA-12	Professional Sound Life-Safety Digital Audio System (ASL)
VIPEDIA-12-PRO	Professional Sound Life-Safety Digital Audio System (Integrated Dante™) (ASL)
VIPEDIA-NET	VIPEDIA-12 Network Card
XML	Extensible Markup Language

7 Reference Documentation

Table 2 Reference documents

Ref. No	Title	Filename Ref	Origin
[1]	PAVA SCT User's Manual (V3.x)	U-0701-1583	ASL
[2]	VIPEDIA-12 User's Manual (V3.x)	U-0641-3283	ASL
[3]	INTEGRA User's Manual (V3.x)	U-0732-0051	ASL
[4]	V2000 User's Manual (V3.x)	U-0623-1005	ASL
[5]	Hirschmann Network Switch Configuration Guide	U-0641-3488	ASL
[6]	NETWORK-SWITCH-LP01 Configuration Guide	U-0641-3675	ASL

All latest revisions of all user documentation are available from ASL's downloads page.



www.asl-control.co.uk/downloads

APPENDIX A – PC Requirements for ASL Configuration Tools and Dante Controller

The PC used for firmware and configuration update should meet the following requirements for correct operation of ASL configuration tools and Dante Controller.

- 1. The operating system on the configuration PC should be Windows 10.
- 2. The configuration PC must have an Ethernet connection to the target unit.

Do not connect the configuration PC to a mirror port of network switch.

Alternatively, the configuration PC can be directly connected to an Ethernet port on target unit.

- **3.** Configure the settings of the PC's network interface that is used to connect to the system according to the target device (network):
 - ASL devices (e.g. VIPEDIA-12-PRO / INTEGRA-PRO): the network interface must have an static IP address in the same subnet as the target device.
 - Dante devices: the network interface must have a dynamic IP address

A single network interface can be used for both networks, but it must be reconfigured for each network.

To change the configuration PC's IP address settings:

- a. Click the **Start** button in the bottom-left corner of your screen.
- **b.** Enter "ncpa.cpl" in the Search box and double-click the ncpa.cpl program.
- c. The Network Connections window will be displayed.
- **d.** In the **Network Connections** window, right-click the interface that is used to connect to the target unit, and then select **Properties** from the popup menu.



VMware Network Adapter VMnet8 Unidentified network Bridge Connection:

Create Shortcut

Properties

- e. The **Properties** window for the interface card will be displayed.
- f. Select the **Networking** tab and then select **Internet Protocol Version 4 (TCP/IPv4)** in the connections list.
- g. Click the Properties button.
- h. The Internet Protocol Version 4 (TCP/IPv4) Properties window will be displayed.



For ASL devices:

 a. Click the Use the following IP Address option and enter the configuration PC's IP address.
 Ensure that the PC's IP address is in the same subnet as the target unit.

In the example on the right:

- Target units in a 192.168.1.0/24 network (factory default for ASL PA/VA equipment)
- Configuration PC on a free address in the same subnet (e.g. 192.168.1.63)
- **b.** Enter the required **Subnet mask** or press the TAB key on the keyboard (Windows will set the default subnet mask).
- c. Click the OK button to apply the changes.

Multiple IP addresses can be assigned to a single network interface. This is normally used when the configuration PC is required to connect to units in different subnets, for example, when new "out of the box" units are configured with IP address outside the factory default subnet (192.168.1.0/24).

To assign multiple IP addresses to a network interface:

- a. Re-load the Internet Protocol Version 4 (TCP/IPv4) Properties window.
- b. Click the Advanced button.
- c. Click the Add button on the Advanced TCP/IP Settings window.
- **d.** Enter the configuration PC's IP address in the new subnet.

In the example on the right:

- Target units in a 10.1.1.0/24 network
- Configuration PC on a free address in the same subnet (e.g. 10.1.1.100)
- e. Enter the required **Subnet mask** or press the TAB key on the keyboard (Windows will set the default subnet mask).
- f. Click the Add button.
- g. Repeat the procedure for all required subnets.

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General	
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IP add <u>r</u> esses	
IP address	Subnet mask
192.168.1.63	255.255.255.0
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8
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For Dante devices:

- a. Select the Obtain an IP Address automatically.
- b. Click the OK button to apply the changes.

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4. If the configuration PC has multiple network interfaces, ensure that the network interface used to connect to the target ASL unit has the highest priority by changing the metrics; see below.

Alternatively, the other network interfaces can be temporarily disabled.

To change the Interface Metrics:

a. In the **Network Connections** window, right-click the interface that is used to connect to the target unit, and then select **Properties** from the popup menu.

		Interface connected to the target unit	3
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- **b.** The **Properties** window for the interface card will be displayed.
- c. Select the **Networking** tab and then select **Internet Protocol Version 4 (TCP/IPv4)** in the connections list.
- d. Click the Properties button.



- e. The Internet Protocol Version 4 (TCP/IPv4) Properties window will be displayed.
- Click the Advanced button. f.

- The Advanced TCP/IP Settings window will be g. displayed; see example on the right.
- h. Select the IP Settings tab.
- If checked, uncheck the Automatic metric check box. i.
- Set the Interface metric to "1". j.
- k. Click the OK button to apply the changes.
- Repeat the above procedure for all other network I. interfaces ensuring that they are set to a lower priority (value > 1), and not set to automatic.
- 5. Ensure that the target unit is up running and connected to the network, for example, using the "ping" command in a Command Prompt.
 - Click the Start button in the bottom-left corner of your a. screen.
 - b. Enter "cmd" in the Search box and double-click the cmd.exe program.
 - In the Command Prompt, enter the "ping" command C. followed by the IP address of the target unit.

For example:

ping 192.168.1.10

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Preferred DNS server:				
Alternate DNS server:				
Validate settings upon exit	Ad <u>v</u> anced			
	OK Cancel			







is not connected to the network

APPENDIX B – Getting the firmware version on a Dante Brooklyn II module

Important:

Ensure that the configuration PC's network interface used to connect to the Dante devices is correctly configured to dynamic IP address; see "APPENDIX A – PC Requirements for ASL Configuration Tools and Dante Controller" for further details.

- **1.** Launch the Dante Controller.
- 2. Select the Routing tab in Dante Controller Network View main window.
- 3. Double-click the required device name in matrix to open the **Device View** window.
- 4. Select the Status tab.

The firmware versions are shown in the **Dante Information** box.



APPENDIX C – Serial Number Label

VIPEDIA-12 / VIPEDIA-12-PRO Serial Number and Build Standard

The serial number label of rack-mount units, such as the VIPEDIA-12 / VIPEDIA-12-PRO, is located on the rear or side of the unit; see example in Figure 7 (page 100).

Figure 7 VIPEDIA-12 serial number label example



The last section of the barcode after the second forward slash (/) indicates the unit's Build Standard (BS) version. Example: 1320/750640/02B \rightarrow BS Version = 02

INTEGRA / INTEGRA-PRO Serial Number and Build Standard

The serial number of an INTEGRA / INTEGRA-PRO unit is located on side of the unit; see example in Figure 8 (page 100).

 Figure 8
 INTEGRA's serial number label example



Serial Number Label Build Standard (BS) Version



(Actual label may differ from image shown.)

The last part of the serial number indicates the unit's Build Standard (BS) version. Example: 1635-000010-03 \rightarrow BS Version = 03