

Dante Connection Guide

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Dante Connection Guide

It is now possible to connect your 2wcom devices with Dante regardless whether you already use Dante or are just starting out.

We offer two options for connecting to Dante:

- If you want to connect your 2wcom devices with native Dante devices, please consider using our expansion module Dante card.
- If you do not want to integrate the expansion module, you can also use Dante in the AES67 compatibility mode. The following guide offers a step-by-step instruction to configure your devices to work with other Dante devices in AES67 compatibility mode.

Please note that you can currently only connect the 2wcom device IP-4c with Dante devices.

Connecting your 2wcom device with Dante



Connecting a 2wcom device with a Dante device is only possible if the right *Ravenna* is enabled.

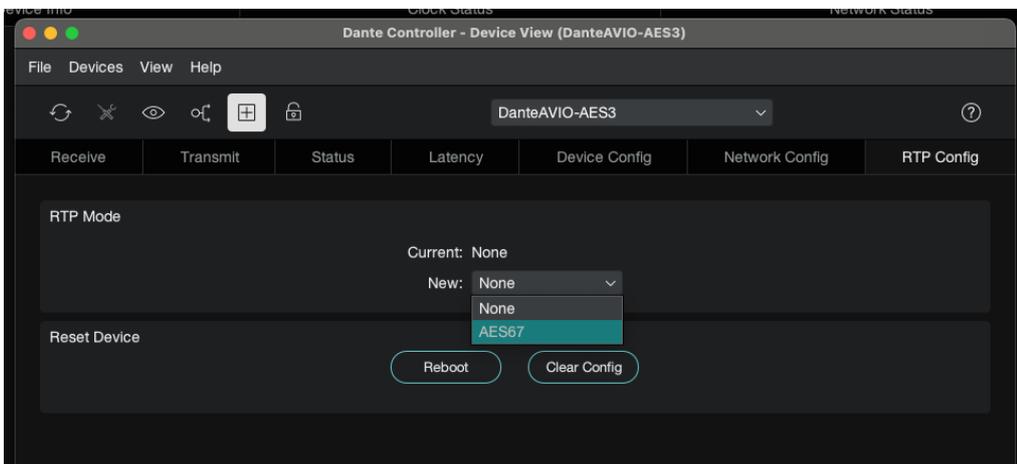
To connect your 2wcom device with a Dante Device via the Dante Controller:

- **Prerequisite:** A configured PTPv2 grandmaster clock is available in the network.
- **Prerequisite:** You have installed at least version 2.17.5 of the firmware for the IP-4c.
- **Prerequisite:** You have connected the port Data1 of your device with the Dante primary network. To configure redundancy, connect the port Data2 of your device with the Dante secondary network.

1. Reconfiguring the Dante device to AES67 mode

To reconfigure the Dante device via the Dante Controller:

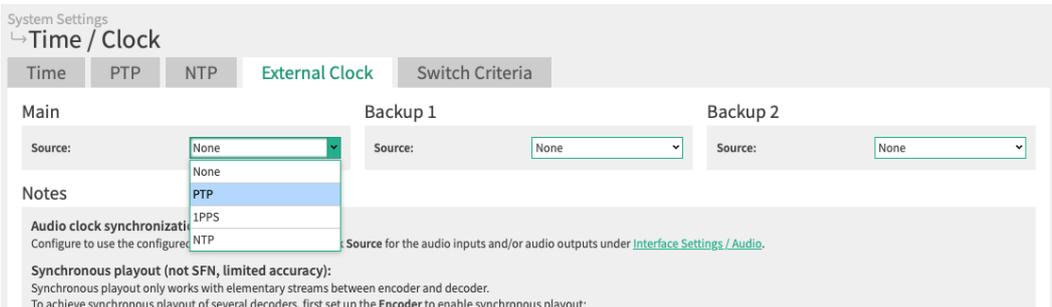
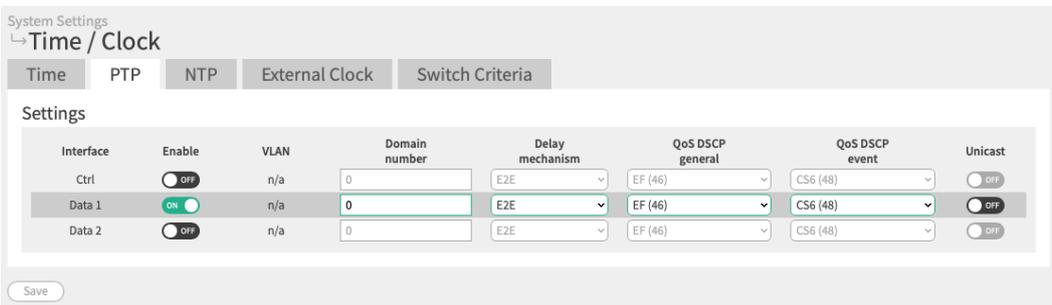
1. Open the Dante Controller.
 2. Double-click on the Dante device you want to connect with your 2wcom device.
 - The window **Device View** opens.
 3. Click on the tab **RTP Config**.
 4. In the block **RTP Mode** select **AES67** as the new mode from the drop-down menu.
 5. Click **Reboot**.
- ✓ You have reconfigured the Dante device.



2. Setting the clock sources

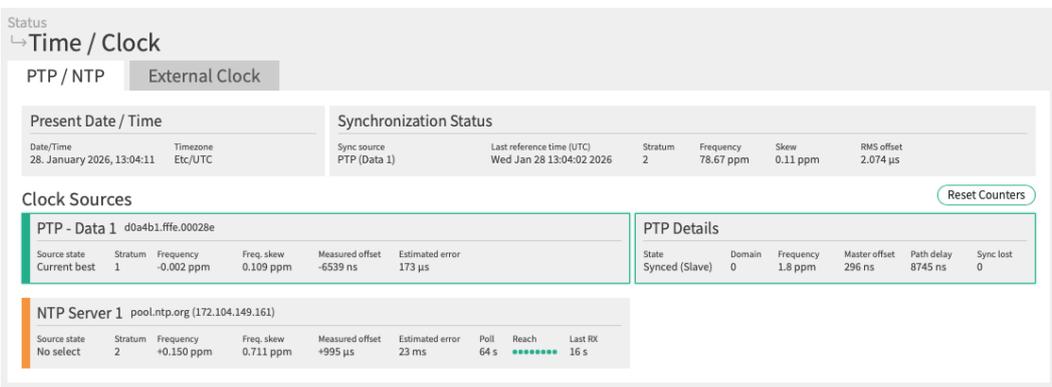
To set PTP as the main clock source:

1. Open the web interface of your 2wcom device.
 2. Navigate to the page **Time/Clock** in the section **System Settings**.
 3. Click on the tab **PTP**.
 4. To enable Data1 for PTP, toggle the switch next to **Data1** in the block **Settings**.
 5. Click **Save**.
 6. Click on the tab **External Clock**.
 7. In the block **Main** select **PTP** as the source from the dropdown menu.
 8. Click **Save**.
- ✓ You have set PTP as the main clock source.



To check the clock sources:

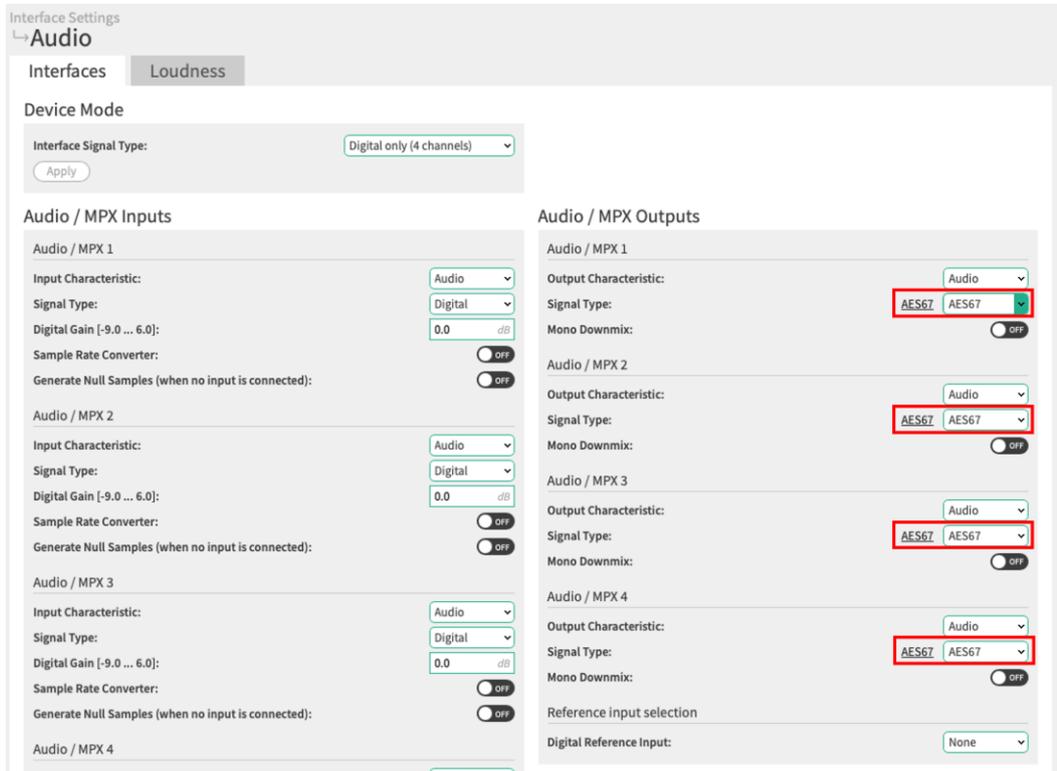
1. Navigate to the page **Time/Clock** in the section **Status**.
 2. In the tab **PTP/NTP** the current clock sources are displayed.
- Note:** The green frame around the source indicates the currently used source.
- ✓ You have checked the clock sources.



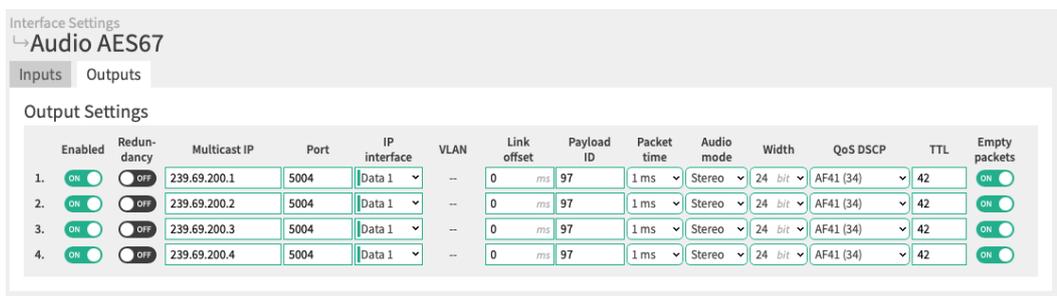
3. Configuring audio outputs for AES67

To configure the audio outputs for AES67:

1. Navigate to the page **Audio** in the section **Interface Settings**.
2. Click on the tab **Interfaces**.
3. In the block **Audio / MPX outputs** change the **Signal Type** of each output to AES67.
4. Click **Save**.



5. Navigate to the page **Audio AES67** in the section **Interface Settings**.
 6. Click on the tab **Outputs**.
 7. Configure the parameters.
 8. Click **Save**.
- ✓ You have configured the audio outputs for AES67.



Parameters

- Enabled** Toggle to switch to enable the output.
- Redundancy** Toggle the switch to enable redundancy.
- Multicast IP** Enter a multicast IP that starts with 239.69.
- Port** Set the port to 5004.

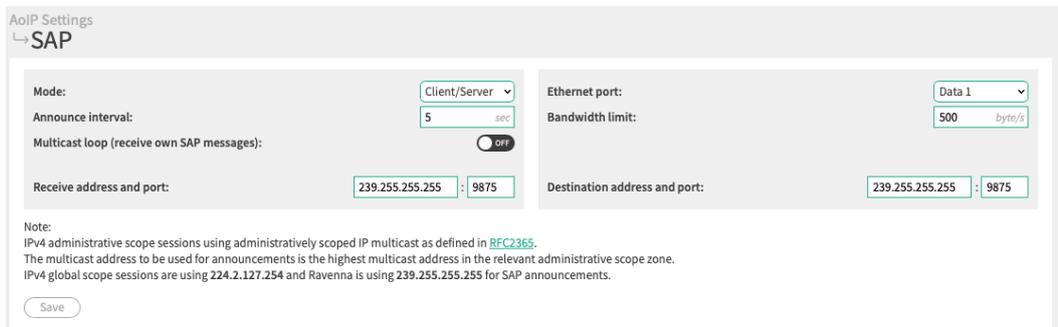
IP Interface	Set the IP interface to Data1.
Link offset	Set the link offset to 0. Note: If the parameter link offset is not visible in the web interface of your device, update the firmware of your device before continuing.
Payload ID	Set the payload ID to 97.
Packet time	Set the packet time to 1 ms.
Audio mode	Set the audio mode to stereo.
Width	Set the width to 24 bit.
QoS DSCP	Set the Differentiated Services Code Point (DSCP) for the Quality of Service (QoS) to EF46.
TTL	Set the Time to Live (TTL) to 42.
Empty packets	Toggle the switch to enable empty packets.

4. Setting up SAP

To ensure that your 2wcom device is available in the Dante Controller, the Session Announcement Protocol (SAP) needs to be set up.

To set up SAP:

1. Navigate to the page **SAP** in the section **AoIP Settings**.
 2. Set the announce interval to 5 s.
 3. Click **Save**.
- ✓ You have set up SAP.



AoIP Settings
↳ SAP

Mode: Client/Server

Announce interval: 5 sec

Multicast loop (receive own SAP messages): OFF

Ethernet port: Data 1

Bandwidth limit: 500 byte/s

Receive address and port: 239.255.255.255 : 9875

Destination address and port: 239.255.255.255 : 9875

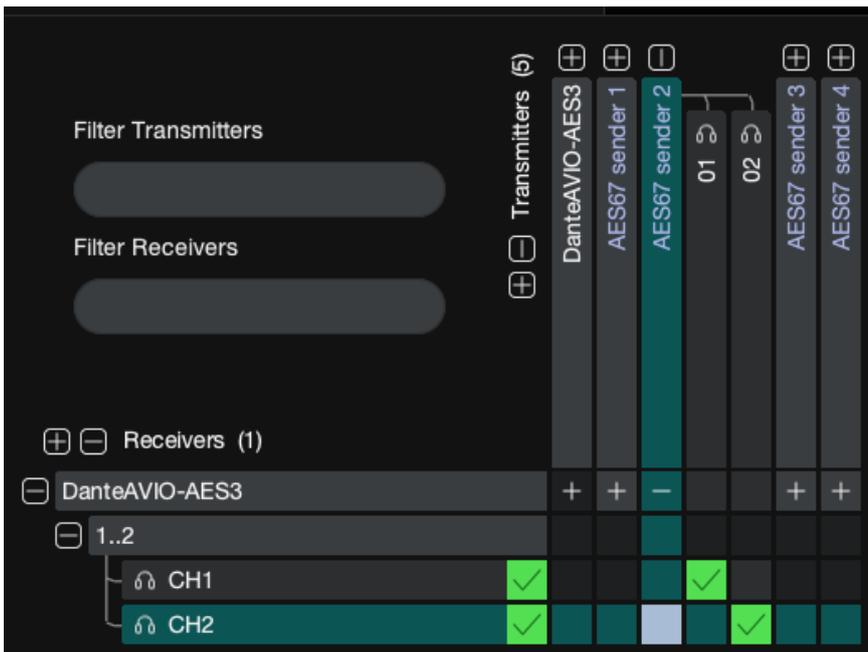
Note:
IPv4 administrative scope sessions using administratively scoped IP multicast as defined in [RFC2365](#).
The multicast address to be used for announcements is the highest multicast address in the relevant administrative scope zone.
IPv4 global scope sessions are using 224.2.127.254 and Ravenna is using 239.255.255.255 for SAP announcements.

Save

5. Routing channels to the Dante device

To route the signal of the channels from your 2wcom device to the Dante device:

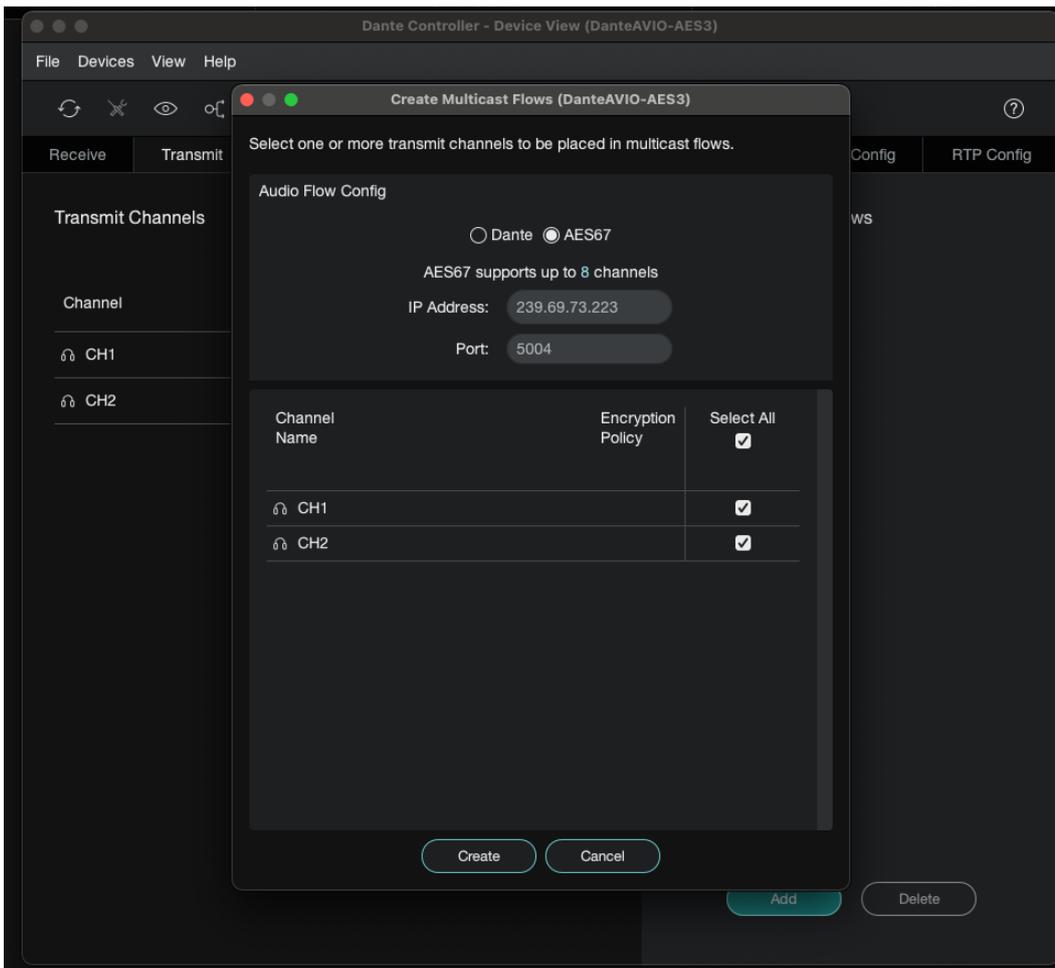
1. Open the Dante Controller.
 2. Navigate to the tab **Routing**.
 - ① Two channels are displayed for each available AES67 stream.
 3. Select all the channels you want to transmit.
 - ① The green check marks indicate which channels are selected.
- ✓ You have routed the selected channels from your 2wcom device to the Dante device.



6. Setting up a multicast stream

To set up a new multicast stream:

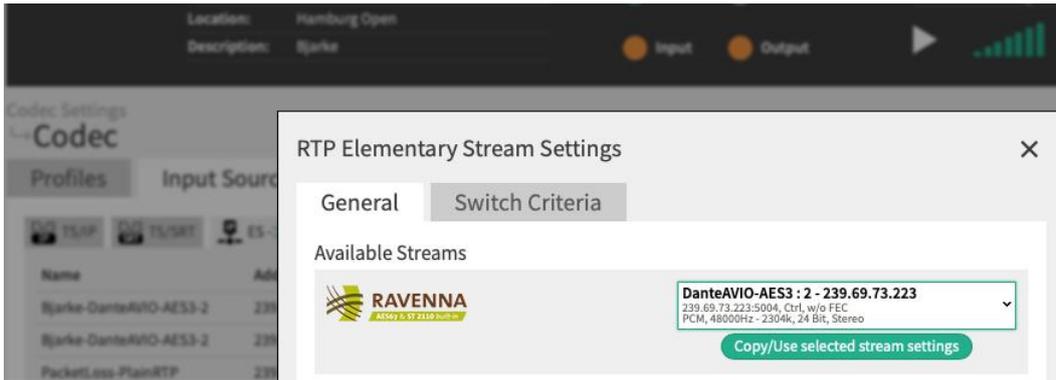
1. Open the Dante Controller.
2. Double-click on the Dante device you want to connect with your 2wcom device.
 - The window **Device View** opens.
3. Click on the tab **Transmit**.
4. Below **Multicast Flow** click on **Add**.
 - ⓘ The name Multicast Flow in the Dante web interface is equivalent to the name Multicast Stream in the 2wcom web interface.
 - The window **Audio Flow Config** opens.
5. Set the audio flow config to AES67.
6. Select all channels you want to transmit.
7. Click **Create**.
- ✓ You have set up a new multicast stream.



7. Configuring the input source to connect with the Dante device

To configure the input source of your 2wcom device:

1. Open the web interface of your 2wcom device.
 2. Navigate to the page **Codec** in the section **Codec Settings**.
 3. Click on the tab **Input Sources**.
 4. Click on the block **IP ES RIST**.
 5. To create an input source, click .
 6. Click on **Edit**.
 - The window **RTP Elementary Stream Settings** opens.
 7. In the tab **General** select the configured Dante multicast stream.
 8. Click **Copy/Use selected stream settings**.
 9. Click **Save**.
- ✓ You have configured the input source of your 2wcom device.



You have connected your 2wcom device with the Dante device in AES67 mode.