

DXD-16 QUICK GUIDE for DANTE®

Setting the DXD-16 as a Dante Primary Leader Clock

DANTE SYNC: PTP V1

Dante uses PTP v1 (IEEE 1588-2002) for sync. The PTP v1 option for the DXD-16 (**DXD16/PTPv1**) is required and needs to be installed in your unit. This quick guide is written for **firmware 2.15**.

In the following discussion the terms "Master" and "Leader" are synonymous, as are the terms "Slave" and "Follower".

SETTINGS (USING PORT 1)

• DXD-16 Settings

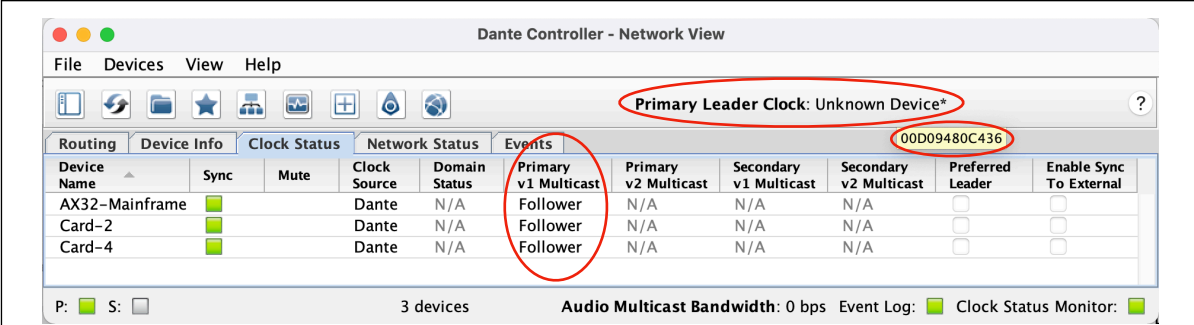
- Menu 1.1: REFERENCE > **Source = PTP Mode**
- Menu 4.1.1: NET 1 IP ADDRESS > Make sure port 1 has a **valid IP address**
- Menu 5.1: PORT MODES > **Port 1 Mode = Master/Slave Group** (for now, other Ports can be OFF)
- Menu 5.2: GRANDMASTER (GROUP) > **Priority 1 = 127 or lower** (equivalent to turning ON Dante 'Preferred Leader')
- Menu 5.3.1: PORT 1 CONTROL > **PTP Version = PTP Version 1** (When prompted, press the UP key to reset the timing values to the PTP v1 default values)

• Dante Settings

- Turn **OFF** 'Preferred Leader' on all Dante Devices.
- Turn **OFF** 'Enable Sync to External' on all Dante Devices.

DISPLAYS

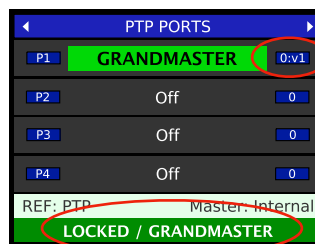
- Dante Controller indicates: **Primary Leader Clock: 'Unknown Device'** with the MAC address of the DXD-16. It also indicates that all Dante devices are now PTP v1 FOLLOWERS.



The screenshot shows the Dante Controller interface. At the top, it says "Primary Leader Clock: Unknown Device" with a question mark icon. Below that, the MAC address "00D09480C436" is displayed. A table lists devices: AX32-Mainframe, Card-2, and Card-4, all with "Follower" status under "Primary v1 Multicast". At the bottom, it shows "3 devices" and "Audio Multicast Bandwidth: 0 bps".

To view the MAC address of the 'Unknown Device', hover the mouse over the label.
Note that the first 6 characters of any DXD-16 MAC address or PTP Clock ID are always "00D094".

- The DXD-16 front panel indicates **LOCKED / GRANDMASTER** on the bottom line of the display; the PTP PORTS page indicates **Domain 0, PTP v1** to the right of the GRANDMASTER PTP state of port 1.



For additional information and troubleshooting tips, please refer to our DANTE Set Up Guide..