



# Sneak Peek at the Future

*Aidan Williams*  
*CTO, Audinate*

# State of Dante

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RECENT EVENTS & REVIEW

# State of the Ecosystem

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## Numbers

- Over 300 manufacturers
- Over 750 Dante products available
- Product catalog at [audinate.com](http://audinate.com)

## Strong growth continues

- Over **2x** increase in the number of commercially available products since Infocomm last year



# Releases in 2015

## Dante Via released!

- Use computer audio ports in a Dante network
- Make a computer-only Dante network
- Monitor Dante channels



## AES67 support on Brooklyn II platform

# Standards Update

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AES67, SAP DISCOVERY, AVB & OTHER BUZZWORDS..

# AES67 status

## AES67 added to Brooklyn-II firmware

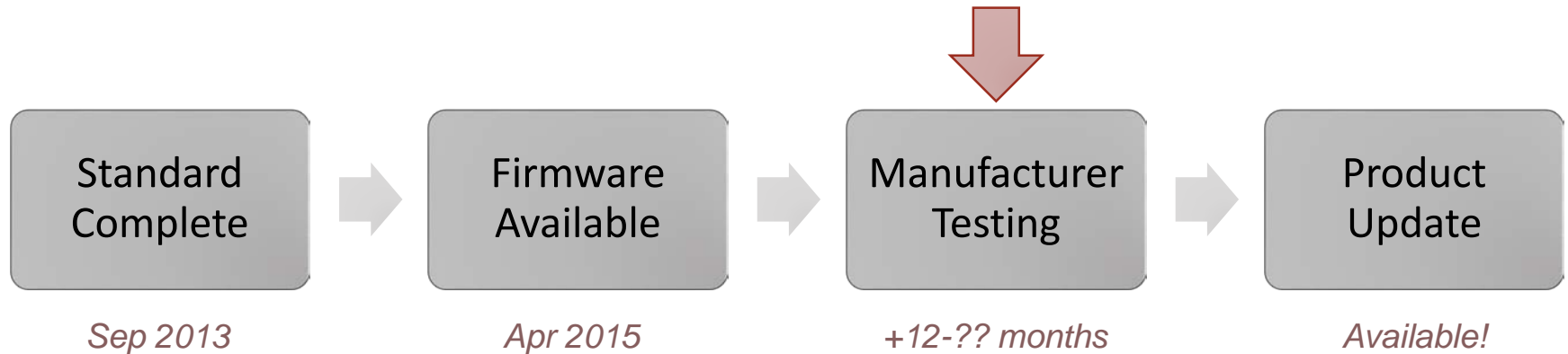
- Available to OEMs Apr 2015
- New AES67 transport option
- Update for existing products

Used at various plugfests  
and demos



# Steps to Availability

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# Is AES67 Plug & Play?

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No discovery mechanism is mandated by the AES67 standard

- Four *options* are listed in an appendix

Problem: people expect discovery to work

- Especially if they have used Dante
- But AES67 has no *required* discovery mechanism

Manufacturers worry about support calls..





# What to do about discovery?

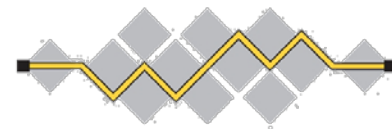
Simple answer: implement SAP

- SAP: Session Announcement Protocol
- One of the four options in AES67 appendix
- Mature standard from the IETF (RFC2974)

Dante has AES67 + SAP

- Makes AES67 plug & play

➤ *Want plug & play AES67? Ask for SAP.*



**I E T F**<sup>®</sup>

# What about AVB?

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## Last year's trends continue

- Declining ProAV interest
- Standards competition coming from AES67
- AVnu focusing on automotive & industrial



# Dante Controller 3.10

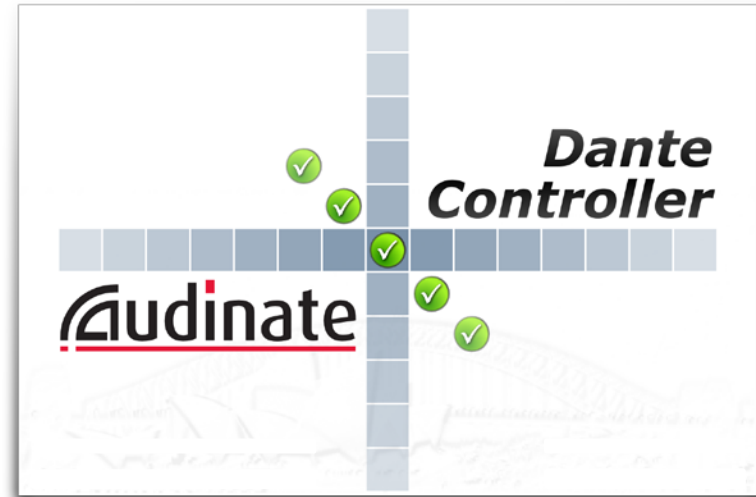
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## NEW FEATURES

# Three New Features

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Device Lock / Unlock  
Advanced Filters  
Wireless Control



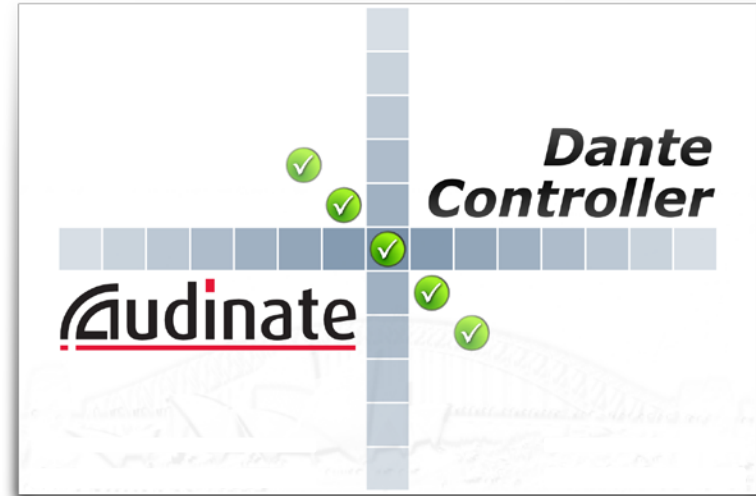
# Three New Features

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# Device Lock/Unlock

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Prevent changes to Dante device configuration

Implemented in Dante *devices*

Simple PIN system

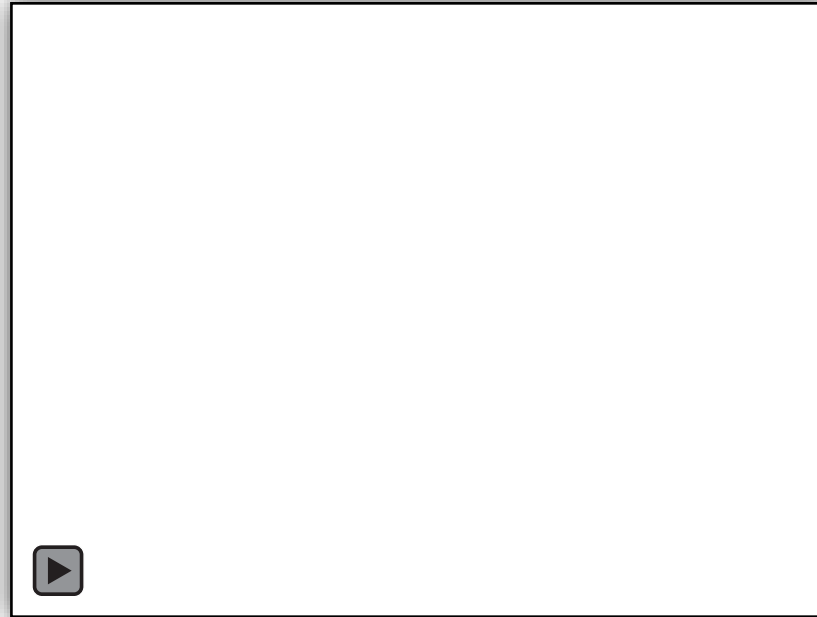
- With simple recovery mechanism

Works with DVS & Via



# Locking a Device

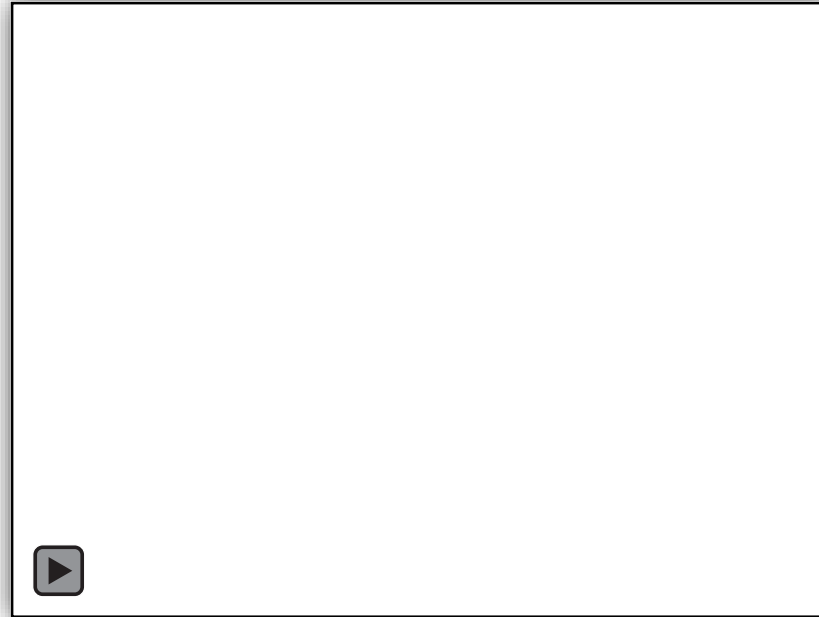
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# Unlocking a Device

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# What if I forget the PIN?

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The PIN of a locked device can be reset if the device is *lonely*

- i.e. if the device is *alone on the network*

Dante Controller can reset the PIN by:

- Directly connecting the device to a computer, or
- Configuring network switches to make a private network with only the device and Dante Controller

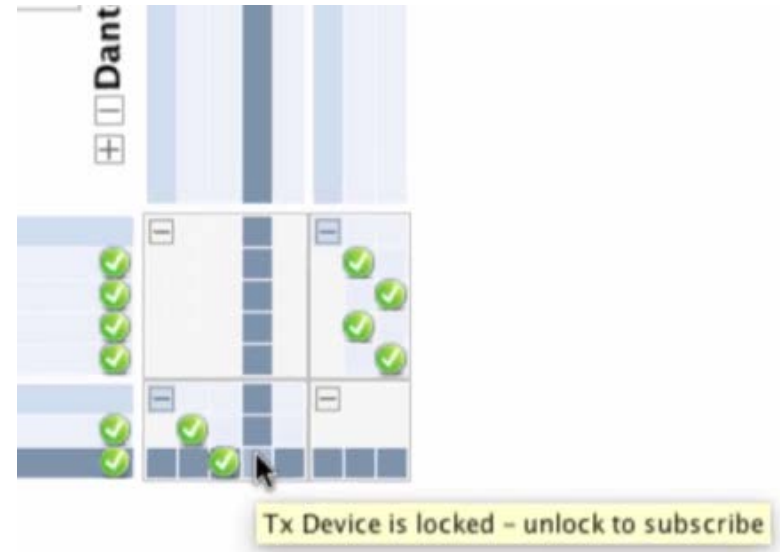


# Attempting to make changes

Locking a device prevents configuration changes

- Device name
- Sample rate, bit depth
- Latency, network configuration

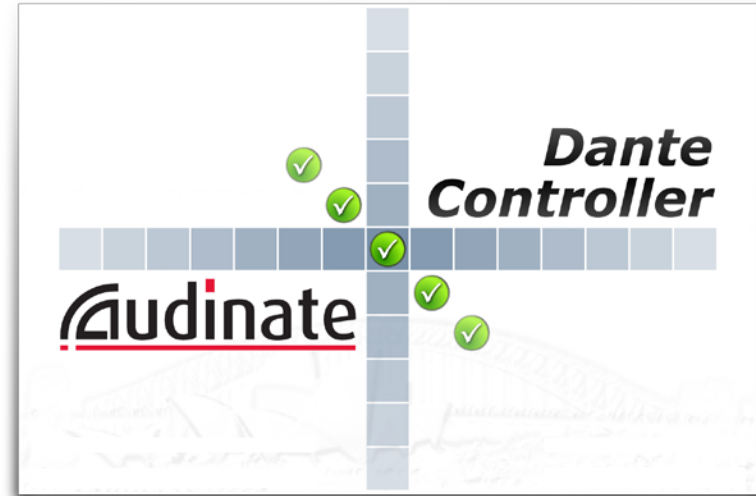
Dante Controller tells you that devices are locked



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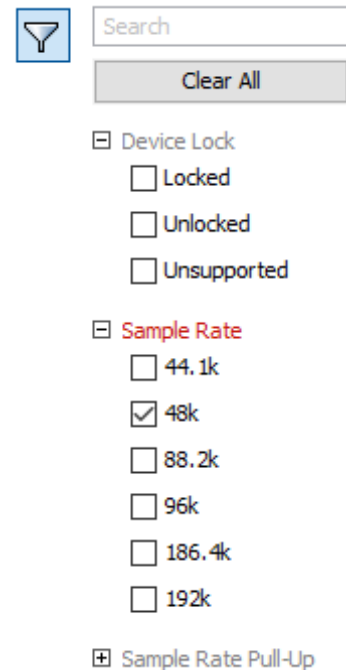


# Advanced Filters


Filtered views of Dante network

Wide range of parameters

Use in any combination



The screenshot shows a filter configuration panel. At the top is a blue funnel icon. Below it is a search input field with the placeholder text "Search" and a "Clear All" button. The filter settings are organized into expandable sections. The "Device Lock" section is expanded, showing three options: "Locked", "Unlocked", and "Unsupported", each with an unchecked checkbox. The "Sample Rate" section is also expanded, showing six options: "44.1k", "48k", "88.2k", "96k", "186.4k", and "192k". The "48k" option is selected, indicated by a checked checkbox. At the bottom, there is a collapsed section labeled "Sample Rate Pull-Up" with a plus icon.

 Search

Clear All

☒ Device Lock

☐ Locked

☐ Unlocked

☐ Unsupported

☒ Sample Rate

☐ 44.1k

☒ 48k

☐ 88.2k

☐ 96k

☐ 186.4k

☐ 192k

☐ Sample Rate Pull-Up

# Advanced Filters

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Device Lock

Sample Rate

Sample Rate Pull-Up

Sync to External Clock

Encoding

Latency Settings

Subscription status

Multicast Flows

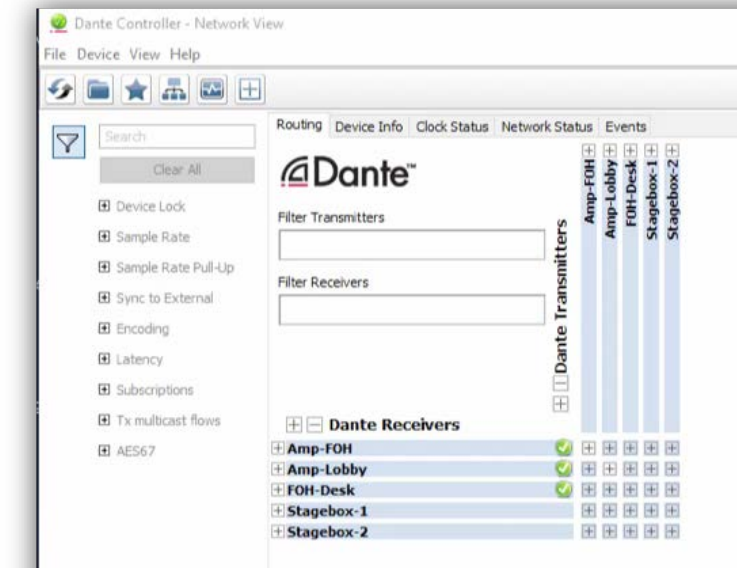
AES67 capable

# Using Filters

Quickly find devices with:

- Unlocked configurations
- Broken subscriptions
- External clock inputs
- AES67 support

...and much more

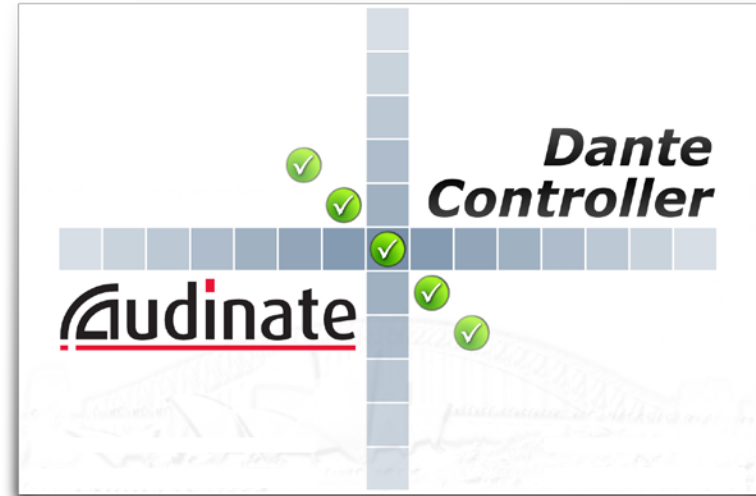




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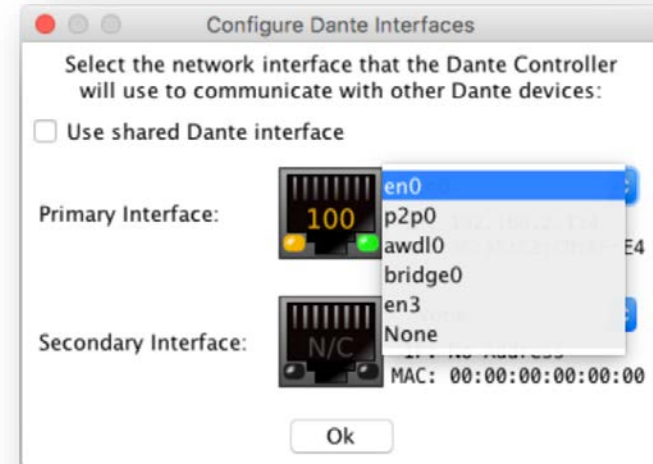


# Wireless Control

## Use Dante Controller through Wi-Fi

- E.g. from a laptop
- Reduce wires, clutter

Wi-Fi interfaces can now be selected



# Three New Features

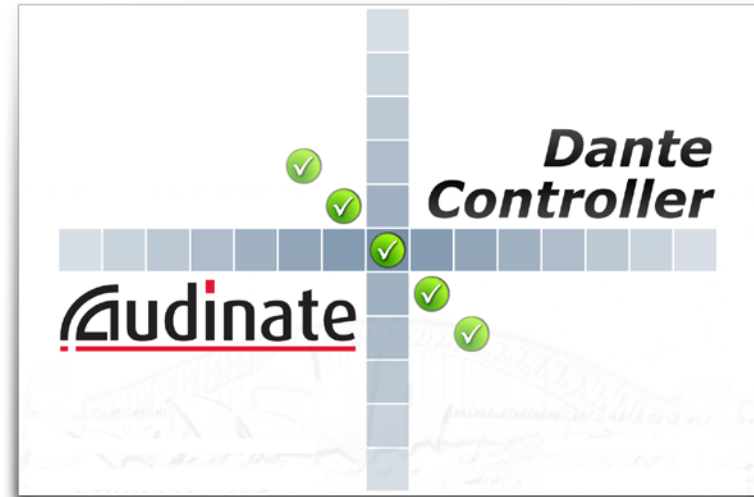
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Device Lock / Unlock

Advanced Filters

Wireless Control

*Come see a demo at  
Central Hall, booth C11529*



# 3.10 Feature Availability

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Dante Controller 3.10 – next 30 days

Dante firmware update 3.10 – next 30 days

- Required for Device Lock/Unlock
- Deployed by manufacturers of Dante-enabled products

# Network Services

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STATUS UPDATE

# Recap Motivation

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Networked AV is growing

As audio networking becomes ubiquitous

- Integration like never before is possible
- Systems become larger

*Tools and services supporting large scale systems  
will become critical*

# Four Future Needs

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Administrative controls to prevent unauthorized changes

Simple deployment into networks with IP routers

- Sync, transport and discovery across IP routers

Guarantees that systems sharing a network cannot interfere with each other

Logging and tracing

- For support staff, SLAs, post mortems

# Where are we today?

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Basic security features are available very soon

- 3.10 update: Lock / Unlock

In development

- More sophisticated security controls
- Support for simple deployment into routed networks



# Questions?

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Come see us  
Central Hall, booth C11529