



DANTE™ AV NETWORKING WORLD

NORTH AMERICAN REGIONALS - SPRING 2015

Audinate Overview

Introduction of Dante

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Audinate

Audinate revolutionizes Audio Video (AV) systems to enable our customers to thrive in a networked world



Dante™

Easy to integrate

Easy to install

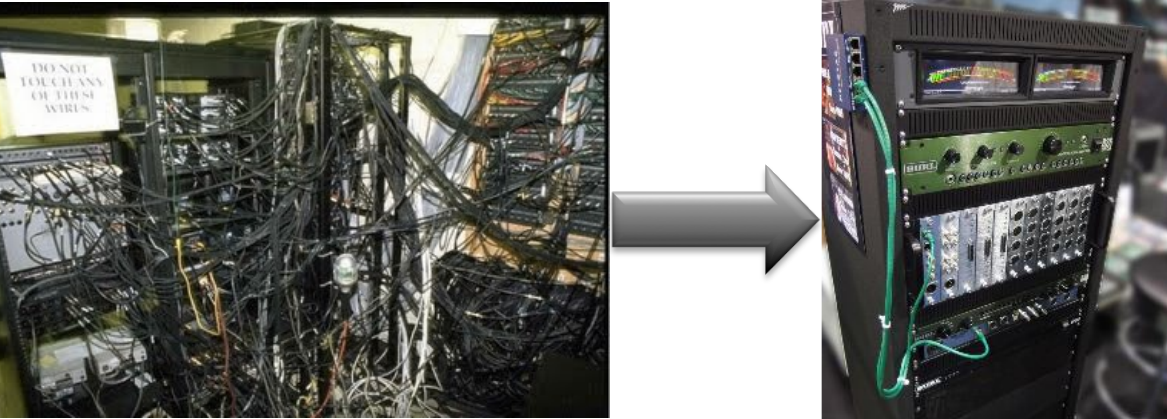
Easy to use

Company Overview

- Audinate Pty Ltd, Sydney, Australia
 - Global Headquarters: Founded 2006
- Audinate Inc, Portland OR
- Audinate Ltd, Brighton, England
- Audinate Limited, Hong Kong (April, 2015)
- Total Personnel: 43



Benefits of Dante Networking



Dante is leading network convergence for AV systems similar to what VoIP did for telephony



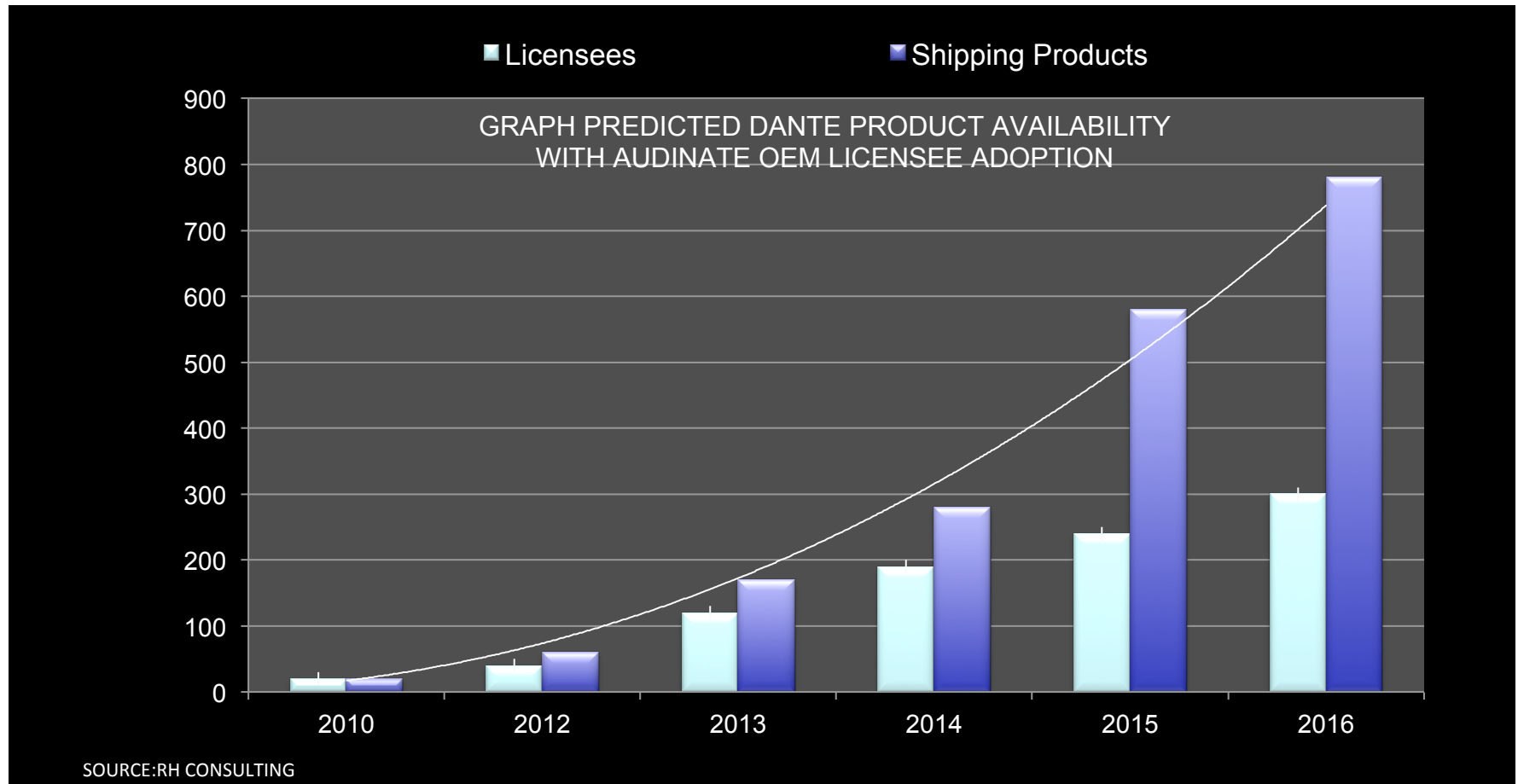
- Audio over IP Solution
- One cable for media, control and data
 - Dramatically reduce cabling costs
- Improved audio quality
 - Perfect synchronization
 - Imperceptible delay
- Complete supported AoIP networking solution

Dante is the market leader

- Dante is the most interoperable networking solution
- Dante gives the most choices to design a system
 - Dante is the most specified networking solution
- Over 20 million Dante channels shipped



Licensee Adoption Projected Product Availability



Bluechip Dante OEM Partners



Features and Benefits

- Auto discovery of devices
 - Dante devices auto discover and are easy to set up
 - Simplified installation and configuration
- One click signal routing
 - Simplified connection management
- User friendly device and channel names
 - Names that can be edited
- Network configuration is stored in the device
 - Routes automatically re-established
 - No need to reprogram when moving equipment

Features and Benefits

- Sample accurate timing
 - $\pm 1\mu\text{s}$ playout/capture time alignment
 - Maintained across multiple switch hops
- Multiple sample rates
 - 44.1kHz thru 192kHz, +4.1667%/-4.00%, $\pm 0.1\%$, etc
 - Network supports *different sample rates at the same time*
- High quality, low jitter audio clocks



Features and Benefits

- Latency can be as low as **150µs**
 - Point to point links
 - Single gigabit switch
- **1ms** is a typical default
 - Good for most 1Gbps networks with several switch hops
- Supports *different latencies at the same time*
 - Not limited to the highest latency device
- Latency is 100% deterministic
 - Always known and consistent

Features and Benefits

- Glitch-free redundancy
 - Protect from network failures
- Network Status and Monitoring
- Layer 3 networking
 - IP Layer 3 enables routable applications across subnets
- Dante works with the switches you already own, or highly available switches
 - No specialized hardware is required

Dante in Use



Microsoft Retail Stores



Milano Congress Center



Philadelphia NBA Stadium



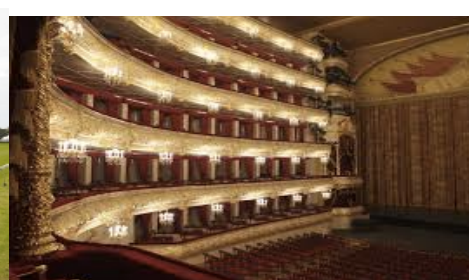
NBC Studios



Singapore Sports Hub



Randwick Racetrack



Bolshoi Theatre



Sydney Trains



Tom Petty



Usher



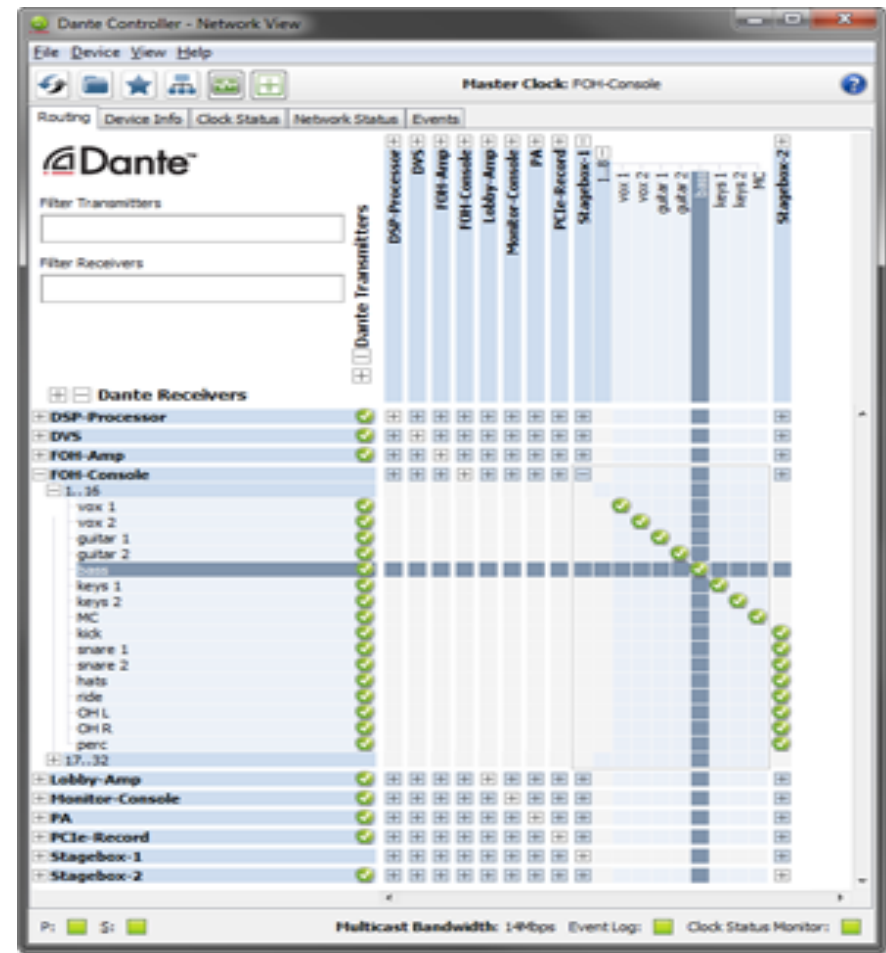
Elton John



McCartney and Springsteen

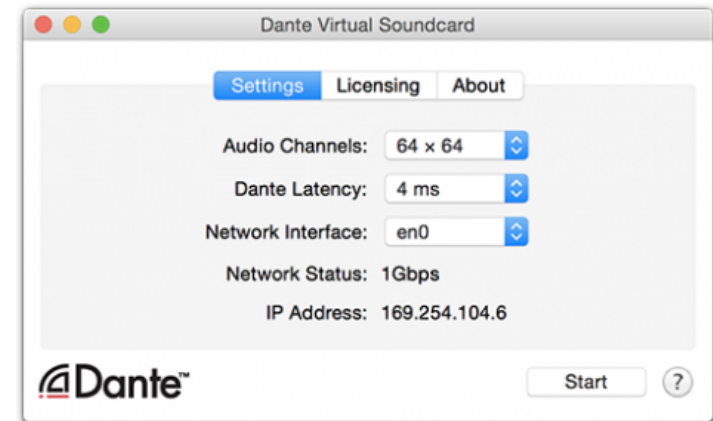
Dante Controller

- Simple plug and play signal routing application
- Configure
 - Sample rate
 - Word clock I/O
 - Network latency
 - Clock master preferences
- Diagnostics
 - Link up/down, throughput, errors, clock master changes, etc
- Freely available to end users/manufacturers



Dante Virtual Soundcard

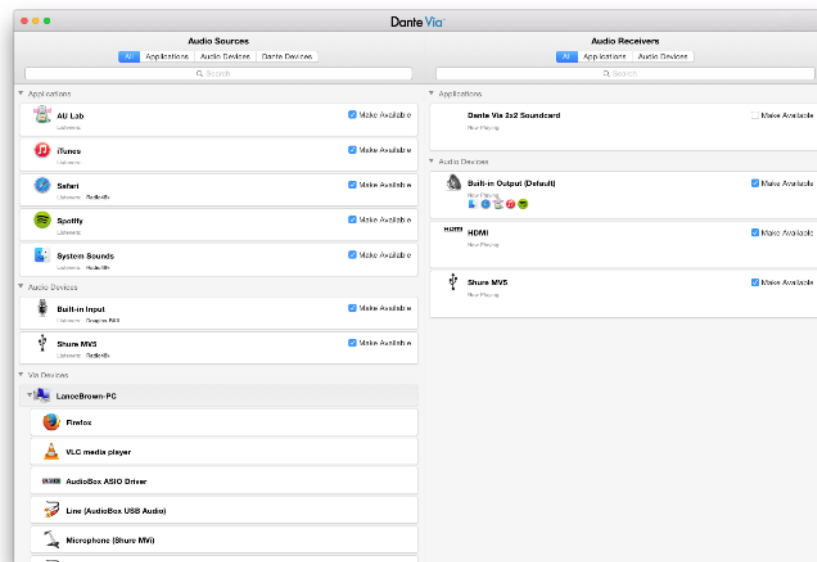
- Connects *existing audio applications* to a Dante network
 - DAW software
 - Conferencing (e.g. Skype)
 - Recording and playback
- Up to 64x64 channels
- Uses built-in Ethernet
- Appears as a soundcard
 - Core Audio (Mac)
 - ASIO + WDM (Win)



Dante Via- Available Q2

- Networks, merges and routes all of your computer's audio streams and devices
- Connect your USB and Firewire interfaces to a Dante audio network
- Extend your computer's microphones and speakers with a Dante network
- Create a Dante audio network using only computers
- Bridge your audio-capable applications directly to Dante
- Drag and drop UI

Dante Via™



Dante is a no-compromise solution

- Complete, high performance digital media networking toolkit
- True plug and play, with label-based routing
- Widespread adoption, highest interoperability
- Supports existing switches
- The complete media networking solution

 **Dante™** Media networking perfected

Easy to Use

“It seems pretty much idiot-proof. The whole networking thing was really easy to set up, because it auto-seeks, so you’re not going through network protocols to make the computers talk to each other. It just works. It finds itself, it finds all its buddies, and it just goes.” (.... Quote from audio forum)

Device discovery

User editable names

One-click routing

 Audinate

Dante™

The Future of Media Networking... Today

Thank You