

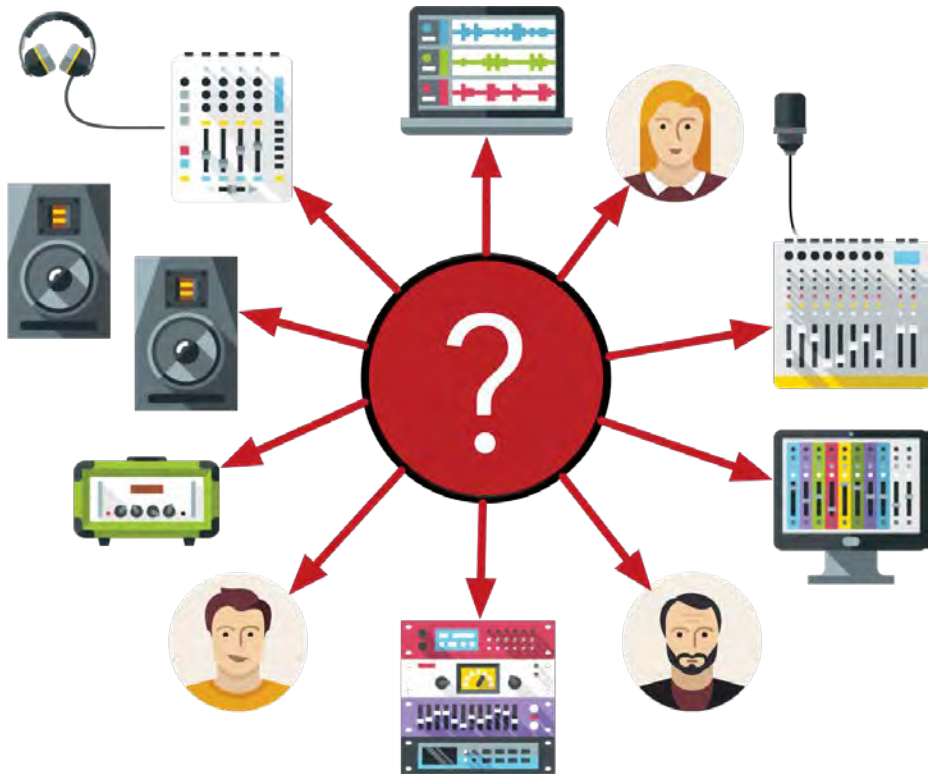


DANTE DOMAIN MANAGER™

Complete network management for Dante systems



AV networks bring IT-style concerns



How can I make sure that only authorized changes are made?

How can I tell who has made changes to my system? What did they do?

How can I centralise Dante AV system management in my site?

How can I quickly tell if the system is working correctly?

DANTE DOMAIN MANAGER

SECURITY

- Usernames/passwords identify users
- Roles control access to the system

SCALABILITY

- Create Dante systems spanning campus networks
- Group Dante devices into logical managed systems

VISIBILITY

- Centralise Dante system management
- Monitor system status and changes from anywhere

What is Dante Domain Manager?

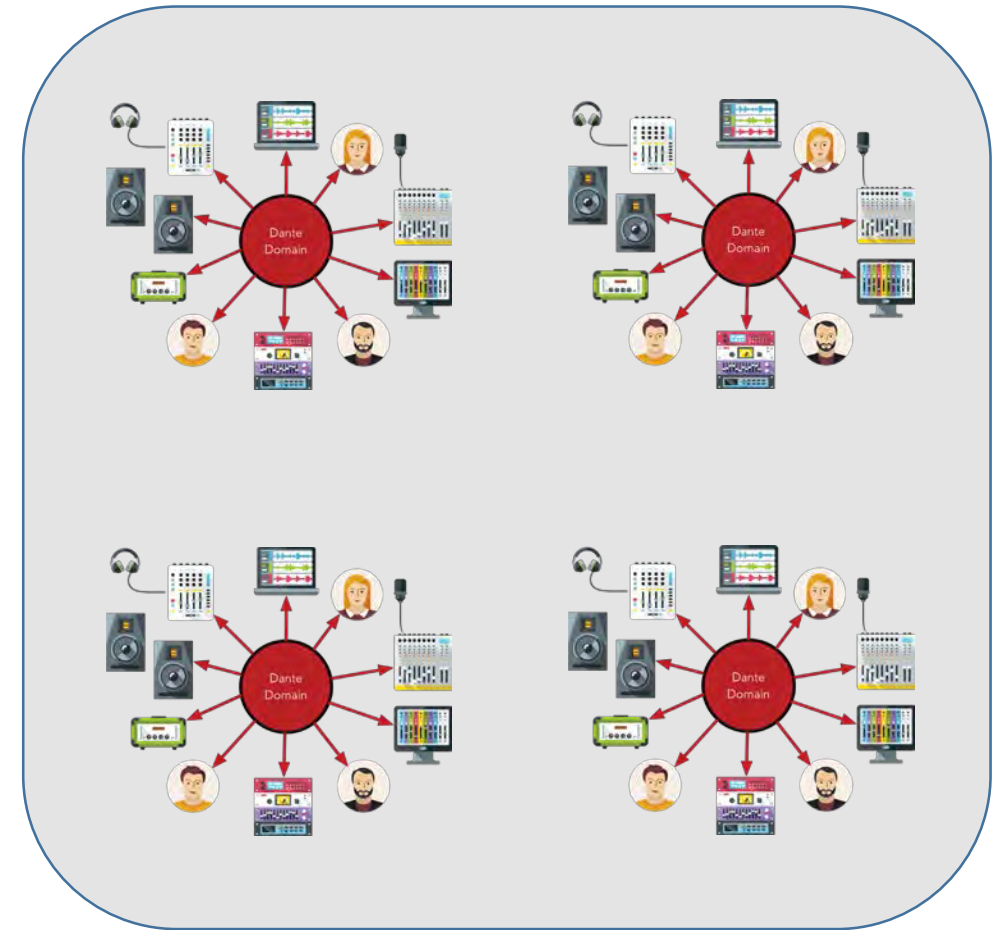


- ✓ Dante Domain Manager is server-based software that manages your Dante network
- ✓ Runs on Windows or Linux, desktop and server platforms, or virtual environments
- ✓ Managed with a web browser from computer, tablet or phone
- ✓ Not in the audio path – audio continues even if the server has failed or is unreachable

About Dante Domains

- ✓ A Dante Domain is a logical group of devices and users with access controls
- ✓ A Dante Domain may be used to represent a location, building, zone, ...
- ✓ Many Dante Domains can share one underlying network
- ✓ A Dante Domain may span IP subnets
- ✓ A Dante Domain can be isolated

Your network



USER AUTHENTICATION

- Username/password login in Dante Controller
- Optional integration with Active Directory

USER ROLES

- Grant access only where needed, control changes
- Four built-in privilege levels

DOMAIN MANAGEMENT

- Per-domain user privileges are supported
- Domains can be isolated from each other

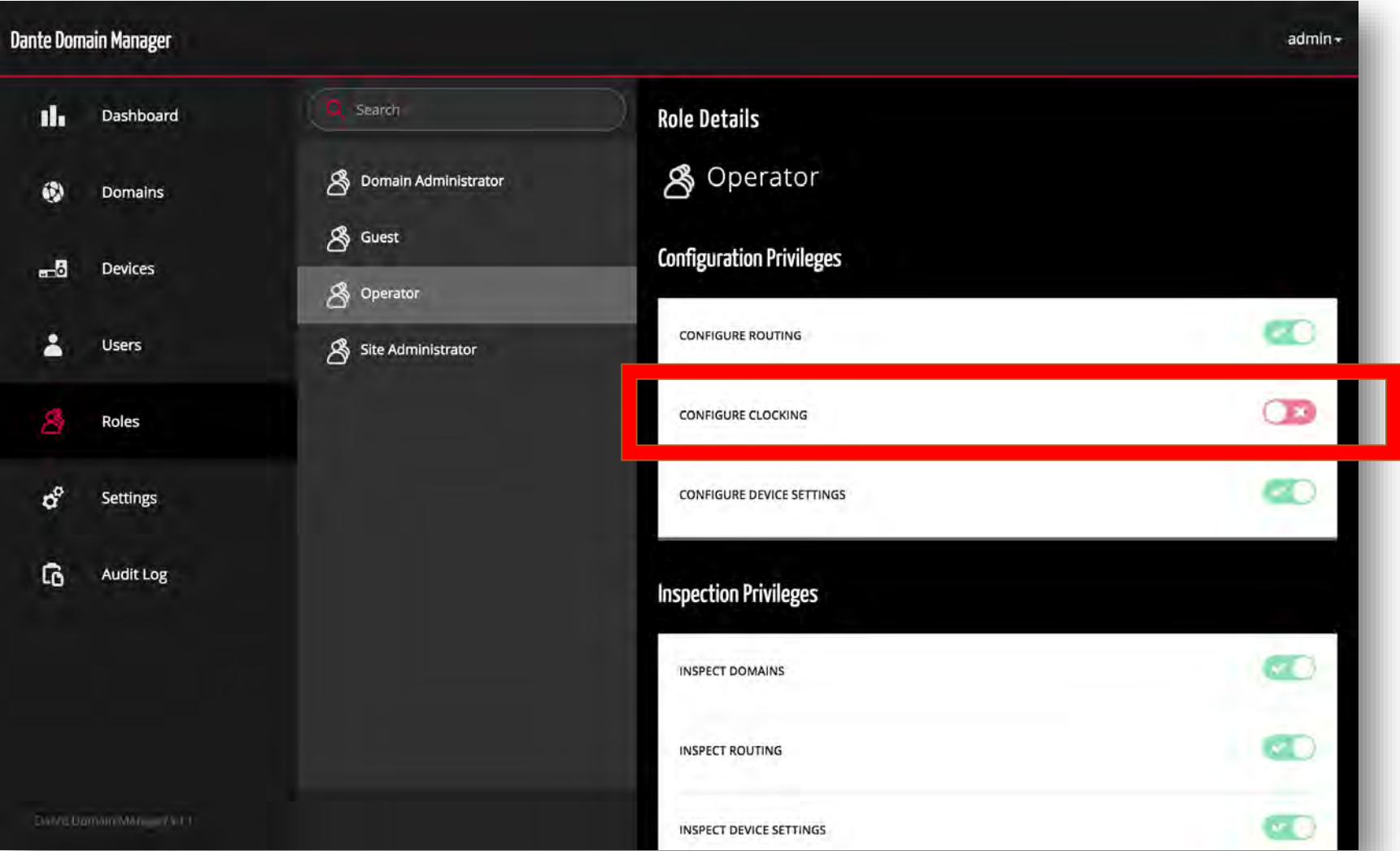
Define users and privileges



The screenshot displays the Dante Domain Manager web interface. On the left is a navigation sidebar with options: Dashboard (with a red notification badge '1'), Domains, Devices, Users (highlighted), Roles, Settings, and Audit Log. The main content area is titled 'User Details' and shows a form for adding a user named 'Danu V'. The form fields are: USERNAME* (Danu), PASSWORD* (masked with dots), CONFIRM PASSWORD* (masked with dots), and EMAIL ADDRESS (dvino@example.com). Below the form is a 'Privileges' section, which is highlighted with a red box. It contains a 'DEFAULT ROLE' dropdown menu currently set to 'Domain Administrator'. At the bottom, there is a 'Domain-Specific Privileges' section with a table showing a domain 'red' and a role 'Domain Administrator', with an 'ADD DOMAIN ROLE' button and a 'REMOVE' button.

Dante Domain Manager™

Limit access to key functions



Dante Domain Manager™

ROUTED CAMPUS NETWORKS

- Deploy Dante transparently across network subnets
- Group devices into Dante Domains regardless of network subnet

LARGE SYSTEMS

- Divide large systems into logical sub-domains
- Domains provide performance enhancements

SUPPORT NETWORKS AS-IS

- Minimize or eliminate IT/network changes
- No need have Dante devices in a single subnet

Domains and subnet crossing

The screenshot shows the Dante Domain Manager interface. On the left is a sidebar with navigation options: Dashboard, Domains, Devices, Users, Roles, Settings, and Audit Log. The 'Domains' section is active, showing a list of domains: red, green, blue, purple, and yellow. A red box labeled 'Domains' points to this list. Below the list are 'ADD DOMAIN' and 'DELETE DOMAIN' buttons. The main area displays 'Devices' for 'Subnet 10.10.70.0/24'. A table lists devices with columns for NAME, ENROLL STATE, and CONNECTIVITY. A red box labeled 'Devices in domain' points to the table. Another red box labeled 'Subnets in domain' points to the 'Subnet 10.10.72.0/24' section below.

NAME	ENROLL STATE	CONNECTIVITY
ULT-PDK-90001	ENROLLED	ONLINE
BKNII-06ea68	ENROLLED	ONLINE
Ult2-070037		ONLINE
Ult4-0a1817		ONLINE
Ultimo4-0a17d5	ENROLLED	ONLINE
BKNII-093100	ENROLLED	ONLINE

Dante Domain Manager™

CHECK SYSTEM STATUS INSTANTLY

- Centralized status logging & reporting
- User-configurable dashboard shows key information

AUDIT REPORTS

- Complete, time-stamped log of changes & events
- Know who did what, when

REMOTE ALERTS

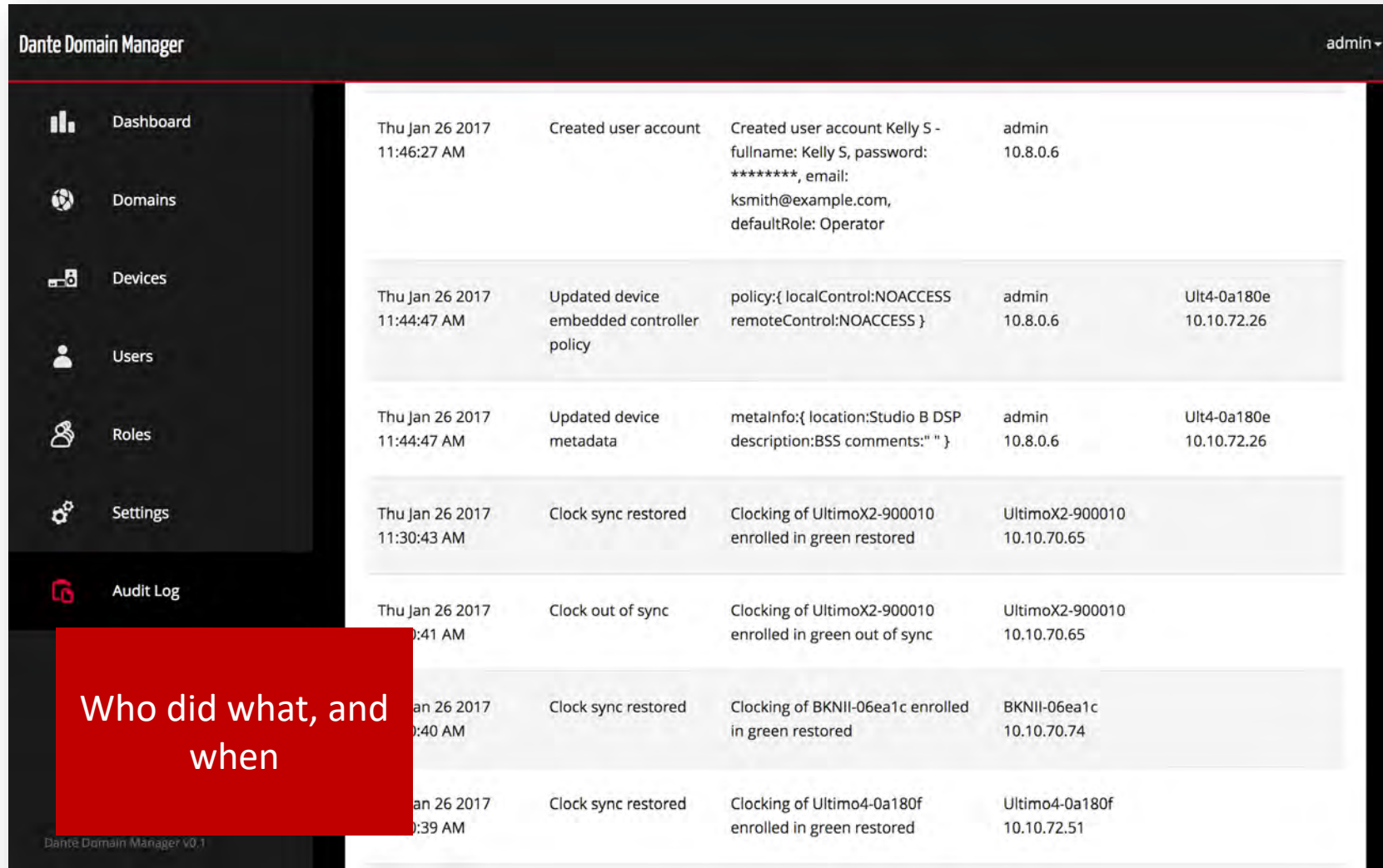
- Email notifications
- Integrate with SNMP network management tools

Dashboard for system status

The screenshot shows the Dante Domain Manager dashboard. On the left is a navigation sidebar with icons for Dashboard, Domains, Devices, Users, Roles, Settings, and Audit Log. The main content area features several widgets: a 'MOST RECENT' alert showing 34 user operations and events in the last 24 hours; a 'RED' status widget showing 10 enrolled devices with a status list (Clocking, Connectivity, Latency, Subscriptions); a '5 MINUTE LOAD AVERAGE' gauge showing 10% load; a 'DISK SPACE USAGE' gauge showing 73% disk usage; and a 'GREEN' status widget showing 3 enrolled devices with a status list (Clocking, Connectivity, Latency, Subscriptions). A red callout box is overlaid on the dashboard with the text 'Easy to see, informative alerts'. The top right corner shows the user 'admin'.

Dante Domain Manager™

Audit Log



The screenshot shows the Dante Domain Manager interface with the Audit Log section selected. The interface includes a sidebar with navigation options: Dashboard, Domains, Devices, Users, Roles, Settings, and Audit Log. The main content area displays a list of audit events. A red callout box is overlaid on the bottom left of the screenshot, containing the text "Who did what, and when".

Timestamp	Action	Details	User	IP Address
Thu Jan 26 2017 11:46:27 AM	Created user account	Created user account Kelly S - fullname: Kelly S, password: *****, email: ksmith@example.com, defaultRole: Operator	admin	10.8.0.6
Thu Jan 26 2017 11:44:47 AM	Updated device embedded controller policy	policy:{ localControl:NOACCESS remoteControl:NOACCESS }	admin	10.8.0.6
Thu Jan 26 2017 11:44:47 AM	Updated device metadata	metaInfo:{ location:Studio B DSP description:BSS comments:" " }	admin	10.8.0.6
Thu Jan 26 2017 11:30:43 AM	Clock sync restored	Clocking of UltimoX2-900010 enrolled in green restored	UltimoX2-900010	10.10.70.65
Thu Jan 26 2017 11:30:41 AM	Clock out of sync	Clocking of UltimoX2-900010 enrolled in green out of sync	UltimoX2-900010	10.10.70.65
Thu Jan 26 2017 11:30:40 AM	Clock sync restored	Clocking of BKNII-06ea1c enrolled in green restored	BKNII-06ea1c	10.10.70.74
Thu Jan 26 2017 11:30:39 AM	Clock sync restored	Clocking of Ultimo4-0a180f enrolled in green restored	Ultimo4-0a180f	10.10.72.51

Easy to use

BROWSER-BASED MANAGEMENT GUI

- Use with popular browsers and devices
- Desktops, laptops, tablets & phones

INTUITIVE NAVIGATION

- Manage domains, devices, users & roles in a single window
- Clear and easy to understand

SIMPLE DEVICE DISCOVERY & ENROLLMENT

- Simple and/or automated Dante device discovery
- Simple, configurable, domain enrollment

VIRTUAL SERVER SUPPORT

- Run Dante Domain Manager on virtual machines in data centers

ACTIVE DIRECTORY & LDAP

- Connect Dante Domain Manager to your Active Directory or LDAP server for user management

HIGH AVAILABILITY

- Support for redundant DDM servers in one site

COMMON TOOLS & METHODS

- SNMP Support, Email integration

What can I do with the DDM?

**AV
Managers**



✓ Easily trouble-shoot AV System problems, identify root causes and take corrective actions quickly

**IT
Administrators**



✓ Use my Directory service to manage access to AV systems
✓ Prevent unauthorized changes to AV systems

**System
Integrators,
AV Consultants**



✓ Divide systems into manageable sub-domains
✓ Deploy Dante in campus routed IP networks

**AV System
Owners**



✓ Get notified of AV System issues so they can be actioned immediately

What's next?

BOOTH 7-E190



- ✓ Currently conducting field trials
- ✓ Currently enlisting authorized resellers
- ✓ Packaging and pricing to be announced around InfoComm 2017
- ✓ Dante Domain Manager will be commercially available Q4 2017
- ✓ Learn more at <http://audinate.com/ddm>
- ✓ Speak with an Audinate representative for more details

Dante Domain Manager™

A Campus Example



WOSSAMATTA UNIVERSITY

FROSTBITE FALLS, MN



**Bullwinkle
Dormitory**

**Rocky J.
Squirrel
Lecture Hall**

**Wossamatta
Stadium**

















DANTE ADAPTERS

Simple adapters for existing equipment

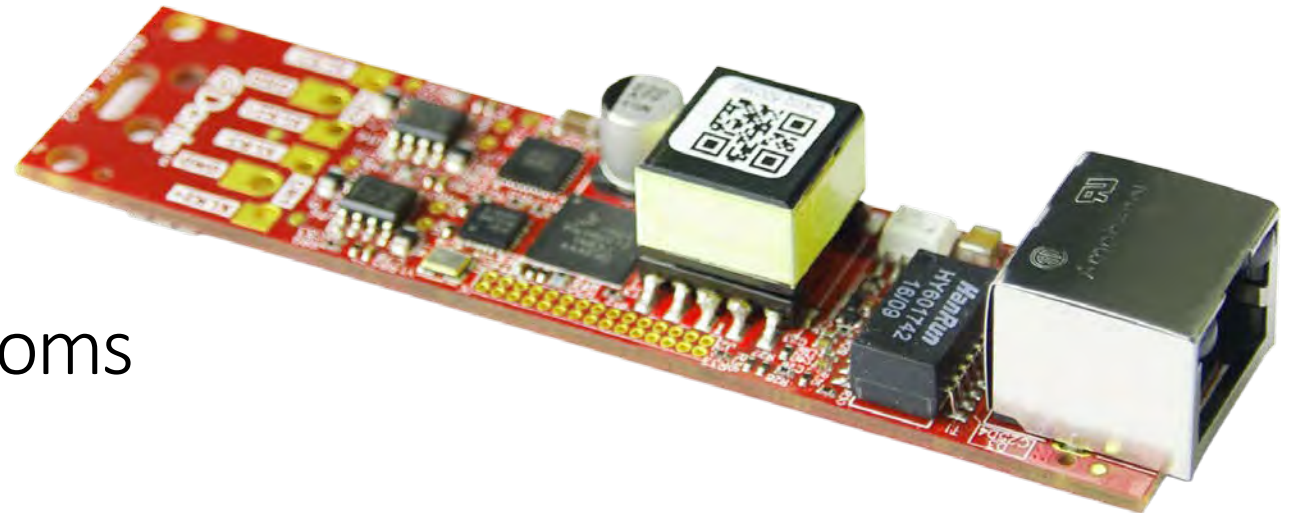
An R&D Goal..

- Lots of equipment is analog, AES3, etc
 - Equipment that is already installed
 - Equipment that you can buy new
- It would be great if there were *simple adapters*
 - To connect existing equipment to a Dante network
 - To connect new equipment to a Dante network
- It would be great if they were *really small*
 - e.g. small enough to fit inside an XLR barrel



Dante Output Module

- Power over Ethernet (PoE)
- 1-channel & 2-channel balanced analogue output
- Add/retrofit Dante to analog amplifiers, powered loudspeakers and mixers
- Dante drop point for:
 - Amplifiers
 - Powered speakers
 - Cry-rooms / overflow rooms
 - Hearing loops, etc.



Availability

- Dante Output Module is available to OEMs
- On the market today from Amphenol



What's next..

- Some obvious variations:
 - Analogue input
 - AES3
 - USB
 - <your-idea-here>
- No specific launch date yet
 - We aim to make some more flavors available during 2017