DANTE™ AV NETWORKING WORLD

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House of Worship On A Budget with Dante

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Dante for Smaller Projects/Budgets

- Dante Scales up AND down!
- Used extensively in my 250-1000 seat projects
- Simplifies and lowers cost of infrastructure

Dante can simplify your installation and lower cost – don't be afraid to dive in!

Background

- My background is in IT
  - More in management than raw sys-admin abilities
  - Comfortable with routers and basic switch config
- Originally tried Dante out of curiosity
  - I had enough IT background to not be afraid of it- *dive in!*
  - My first installation used Dante simply for 2 track recording from a live console
  - Second project used 48 Dante channels for a broadcast console for live web streaming
  - Have used in portable church for a live console who's only connections were a couple of network cables and an iPod.

Discoveries

- Dante made my life easier
    - Running copper multicore all of the sudden has a legacy feel…
- Dante became my go-to audio distribution method
    - For cost AND for flexibility
    - Running cat5e/6 is most always less costly than copper multicore
    - Easily extends the capability of my DSP
- Dante adapts well to changing needs
    - Need audio in that room for overflow? I can do that (since there's network there…)

Ongoing Stability

- Smaller organizations often don't have the ability to plan like larger ones.
  - Stable, professionally implemented facilities day-one.
  - Unforeseen needs arise
    - "Build-out" budget long gone – volunteers "improvise"
    - System becomes hacked
    - System becomes unstable
- Dante allows adaptation in the digital domain
  - Rerouting audio becomes easy
  - Even to locations that previously had no audio
    - House network probably goes just about everywhere

Support

- Occasionally get the call "Dante is down"
  - Digging in always shows something else going on
  - Dante is dependent on the network
    - If the network is there, Dante will work
    - Dante "issues" are usually network issues – if you can't control THE network, control YOUR network.
- Tips
  - If you don't have control over the house network, create a separate audio network
  - Use static IPs for Dante devices (and _document_!)
    - Prevents audio network failure for things like rogue routers, IP conflict, etc.

Living Large – My Showcase

- Inspire Church – Mililani Campus – Opened January '14
  - One "house" network (GigE) for the whole facility
  - NO VLANs at all
  - 2500 miles from my home base – zero support issues to date.
- Hardware
  - Cisco SG-Series Small Business Switches
  - Allen and Heath GLD80 with Dante option card
  - MediaMatrix DSP with Dante option card
  - Stuart Audio Breakout Boxes
  - Multiple instances of DVS

Living Large cont'd

- This Network Supports:
    - Data/Internet
    - Wifi & Guest Network
    - JPEG2000 Streaming live video (internal – 4 frames latency)
    - DMX over Ethernet (ARTnet)
    - Live security cameras
    - VPN Remote Admin
    - 14 channels of Dante to various locations
    - Media computers direct-feed with DVS

Rock-Solid to-date

Tips From The Frontlines

- Avoid customer usage of Dante Controller
  - Leave system patching to device interfaces
    - Console, etc
  - Adds stability for organizations that don't have the time to completely learn the technology
- Learn your device mix!
  - Determine who likes to be master clock
  - Use Internet forums to get a head start
- Prepare your network
  - Configure your switches for Dante (Disable Green Ethernet, etc)
  - Check device manufacturer, and audinate.com for recommendations.

How can I help?

Questions?

Thank You!

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