





Networking the American Airlines Arena for the Miami Heat



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Challenge: IP AUDIO INTEGRATION TO EXISTING ANALOG SYSTEM IN A WORKING BUILDING

- No independent AOIP network
- Time limitations due to events
- Building infrastructure
- Sharing switches with multiple systems around the arena

(Point of Sales, Video, NBA Stats Cameras, Email, Digital Signage, etc.)

- No onsite expert Juniper switch technician
- No redundant switches in place





Dante Enabled Devices

AEQ NETBOX 32 AD Breakout box

LAKE LM26 LAB GRUPPEN PLM 10000Q Shure ULXD4Q







JUNIPER EX 4200 Series 48PoE Switches

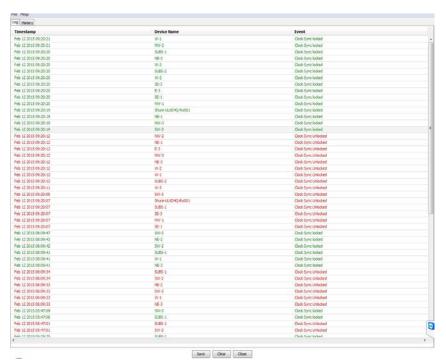




Dante's Inferno

Master clock errors

Errors occurring multiple times per hour

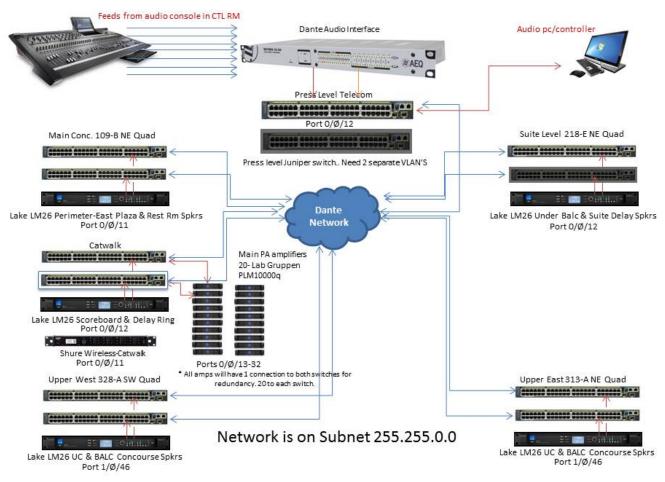


OO History			
Timestamp	Device Name	Event	
Feb 12 2015 09:20:21	W-1	Clock Sync lodied	
Feb 12 2015 09:20:21	100-2	Clock Sync looked	
Feb 12 2015 09:20:20	9,85-1	Clock Sync looked	
Feb 12 2015 09:20:20	NE-3	Clock Sync looked	
Feb 12 2015 09:20:20	W-3	Clock Sync locked	
Feb 12 2015 09:20:20	9.85-2	Clock Sync locked	
Feb 12 2015 09:20:20	W-2	Clock Sync locked	
Feb 12 2015 09:20:20	55-0	Clock Sync lodied	
Feb 12 2015 09:20:20	E-0	Clock Sync locked	
Feb 12 2015 09:20:20	55-1	Clock Sync lodied	
Feb 12 2015 09:20:20	W/1	Clock Sync lodged	
Feb 12 2015 09:20:19	Share-UVID4Q-Rx001	Clock Sync looked	
Feb 12 2015 09:20:19	NE-1	Clock Sync looked	
Peb 12 2015 09:20:19	NW-3	Clock Sync lodied	
Peb 12 2015 09:20:19	SW-3	Clock Sync looked	
Feb 12 2015 09:20:12	MW-2	Clock Sync Unlocked	
Feb 12 2015 99:20:12	16-1	Clock Sync Unlocked	
Peb 12 2015 09:20:12	E-1	Clock Sync Unlocked	
Feb 12 2015 09:20:12	NW-5	Clack Sync Unlacked	
Peb 12 2015 09:20:12	16-3	Clade Sync Unlacked	
Feb 12 2015 09:20:12	W-2	Clock Sync Unlocked	
Feb 12 2015 09:20:12	W-1	Clock Sync Unlocked	
Peb 12 2015 09:20:12	9.85-2	Clock Sync Unlocked	
Feb 12 2015 09:20:11	W-3	Clock Sync Unlocked	
Feb 12 2015 09:20:08	59-3	Clock Sync Unlocked	
Feb 12 2015 09:20:07	9ure-0x040-0x001	Clock Symc Unlocked	
Feb 12 2015-09:20:07	5.85-1	Clock Sync Unlocked	
Feb 12 2015 09:20:07	95-3	Clock Sync Unlocked	
Feb 12 2015 09:20:07	NW-1	Clock Sync Unlocked	
Peb 12 2015 09:20:07	9:1	Clock Sync Unlocked	
Feb 12 2015 08:09:47	98-0	Clock Sync looked	
Feb 12 2015 08:09:42	16-1	Clock Sync looked	
Peb 12 2015 08:09:42	98-2	Clock Sync looked	
Peb 12 2015 08:09:41	9,89-1	Clock Sync looked	
Feb 12 2015 08:09:41	W-1	Clock Sync looked	
Feb 12 3015 08:09:41	16-5	Clock Sync looked	
Feb 12 2015 08:09:34	9.85-1	Clade Sync Unlocked	
Feb 12 2015 08:09:34	58-2	Clock Sync Unlocked	
Feb 12 2015 08:09:33	16-2	Clock Sync Unlocked	
Peb 12 2015 08:09:33	581-3	Clock Sync Unlocked	
Feb 12 2015 08:09:33	W-1	Clock Sync Unlocked	
Peb 12 2015 08:09:33	163	Clock Sync Unlocked	
Feb 12 2015 05:47:09	58-3	Clock Sync Indianal	
Feb 12 2015 05:47/08	5.85-1	Clock Sync locked	
Peb 12 2015 05:47:05 Peb 12 2015 05:47:01	5.85-1 5.85-1	Clock Sync Infeded Clock Sync Unlocked	
Peb 12 2015 05:47/01 Peb 12 2015 05:47/01	SW-3	Clock Sync Unlocked	
Peb 12 2015 05:47:01 Peb 17 2015 05:29:25	9 80.1	Clock Sync Unidad	

Save Clear Close



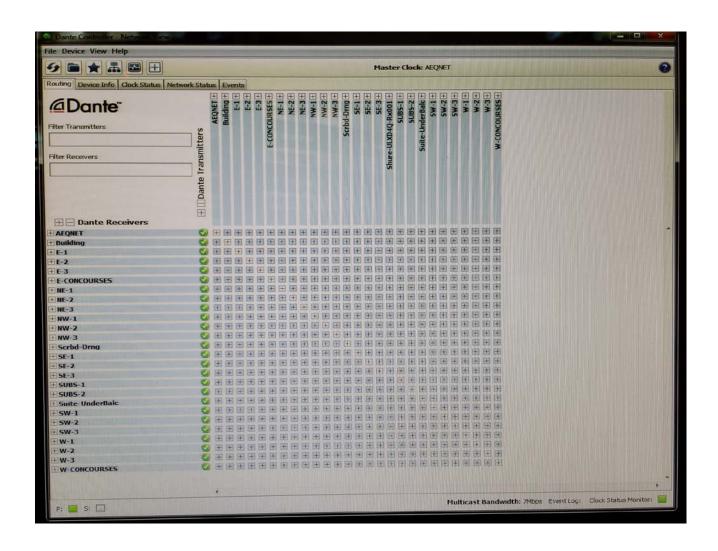
Preliminary System



^{*}All units will have a primary and secondary network connection to separate switches (if available) at each location.



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