



DANTE™ AV NETWORKING WORLD

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**Worship Facilities  
Conference and Expo**



# Willow Creek: A Case Study

Matt Wentz  
Audio Systems Engineer  
Willow Creek Community Church

# Willow Creek Community Church

- Started in 1975 in a movie theater
- Moved to a permanent location in 1980
- Started with one building (Lakeside)
- Has grown steadily over the past 35 years to an 810,000 sq ft building
- There are 4 major venues and several small to mid sized classrooms

# Original Infrastructure

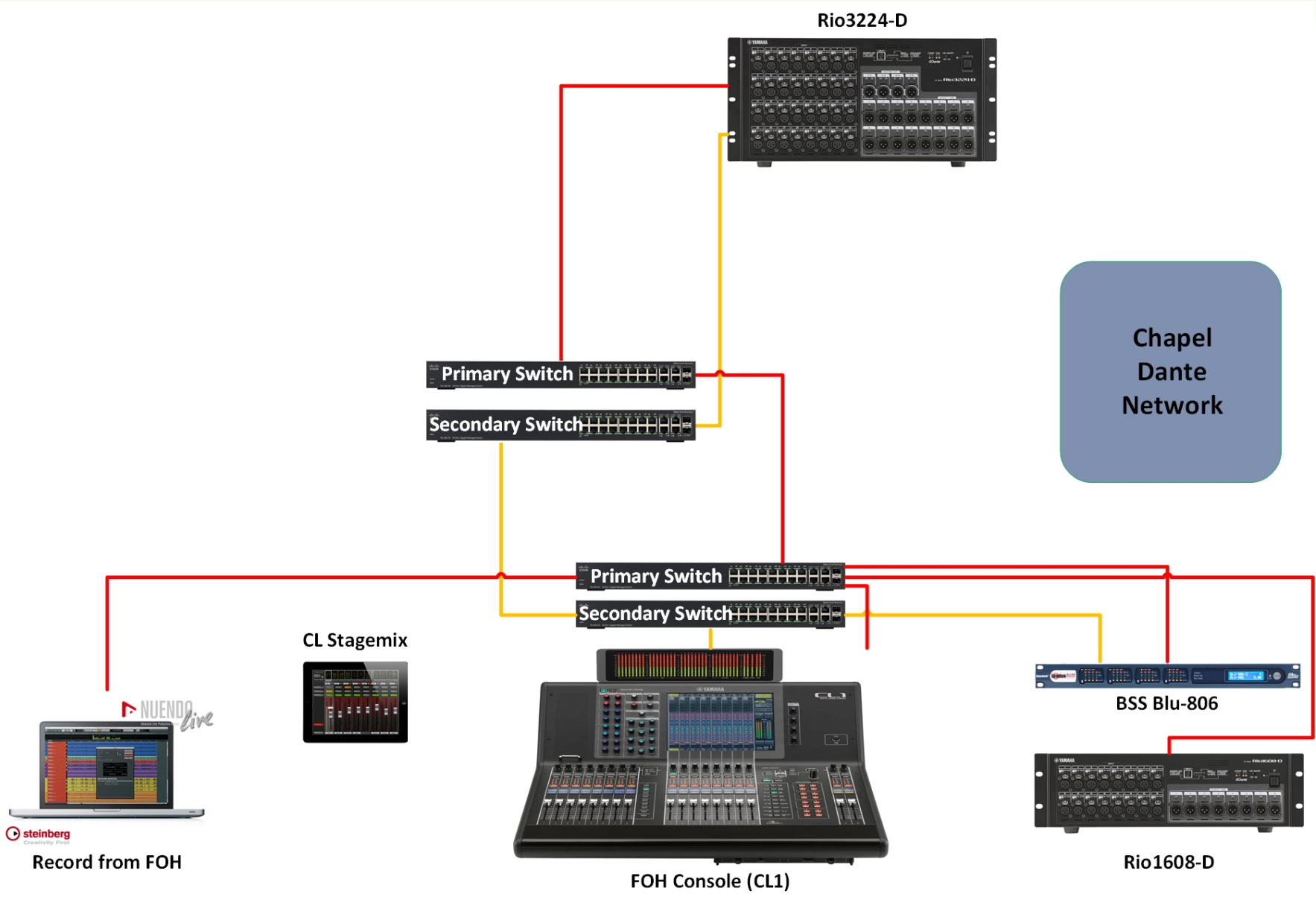
- All analog
- Copper tie lines
- Analog consoles

# The Need for Dante

- Major upgrades/overhauls
- Gear was failing
- Dante seemed the perfect solution
- Yamaha rep conversation
- Creativity

# Chapel – 1<sup>st</sup> Dante Venue

- Failing analog console
- Simple system to jump in to
- Gear installed
- IT network
- Ease of setup



Rio3224-D

Chapel  
Dante  
Network

Primary Switch  
Secondary Switch

Primary Switch  
Secondary Switch

CL Stagemix

BSS Blu-806

Rio1608-D

FOH Console (CL1)

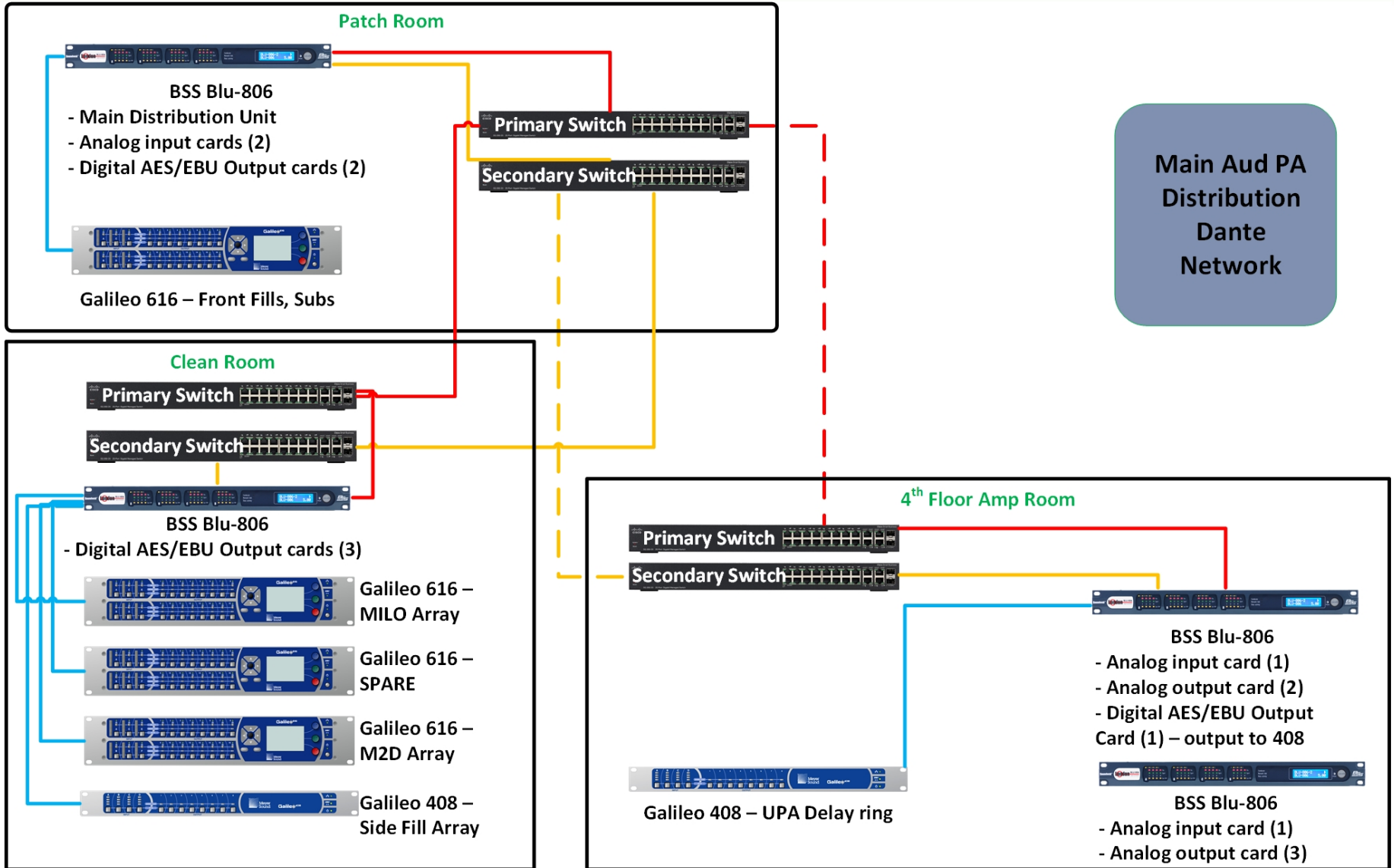
Record from FOH





# Main Aud – 2<sup>nd</sup> Dante Venue

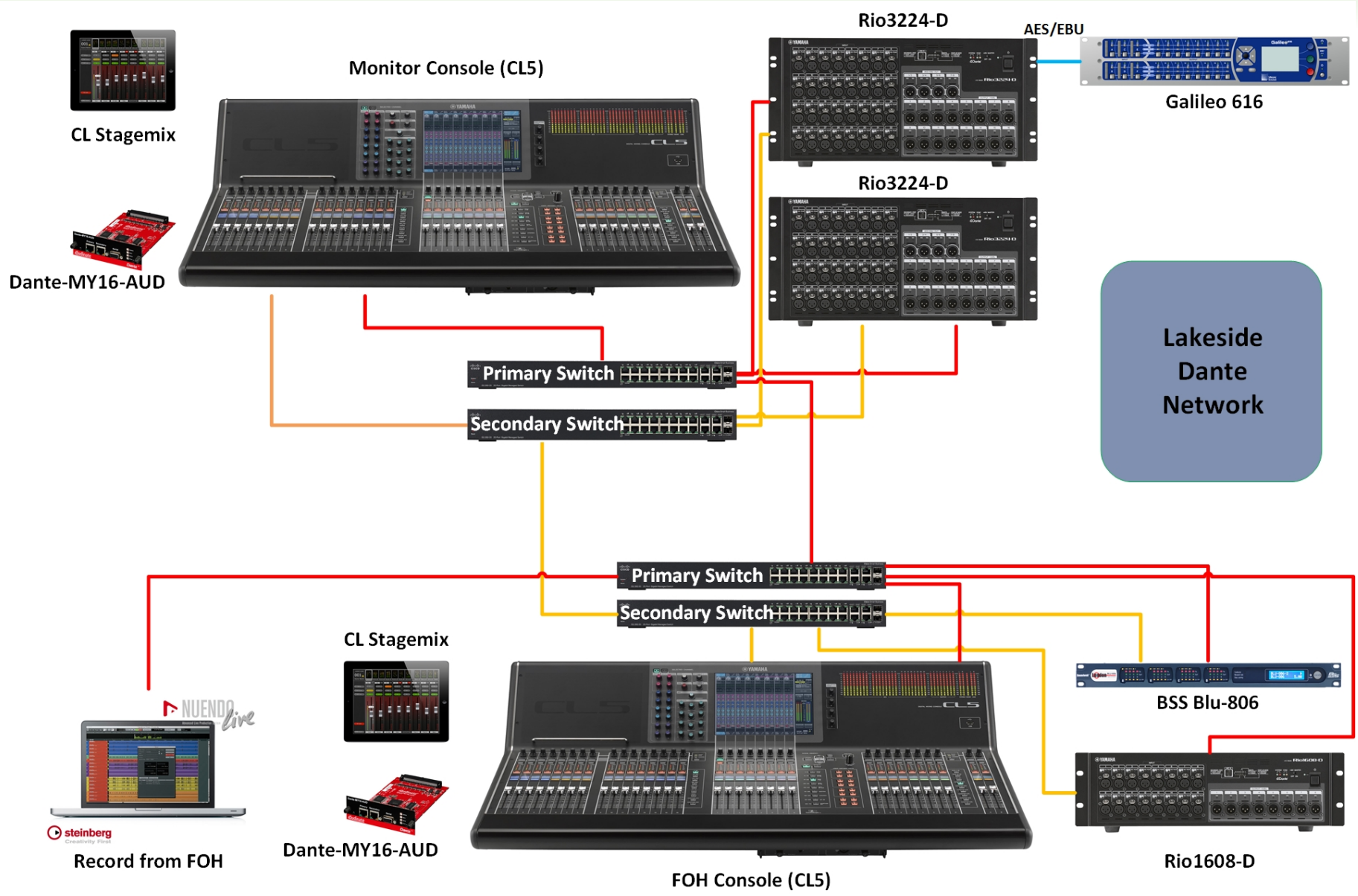
- PA distribution was failing
- Rock solid solution
- Fiber backbone
- Management - VLAN





## 3<sup>rd</sup> and 4<sup>th</sup> venues

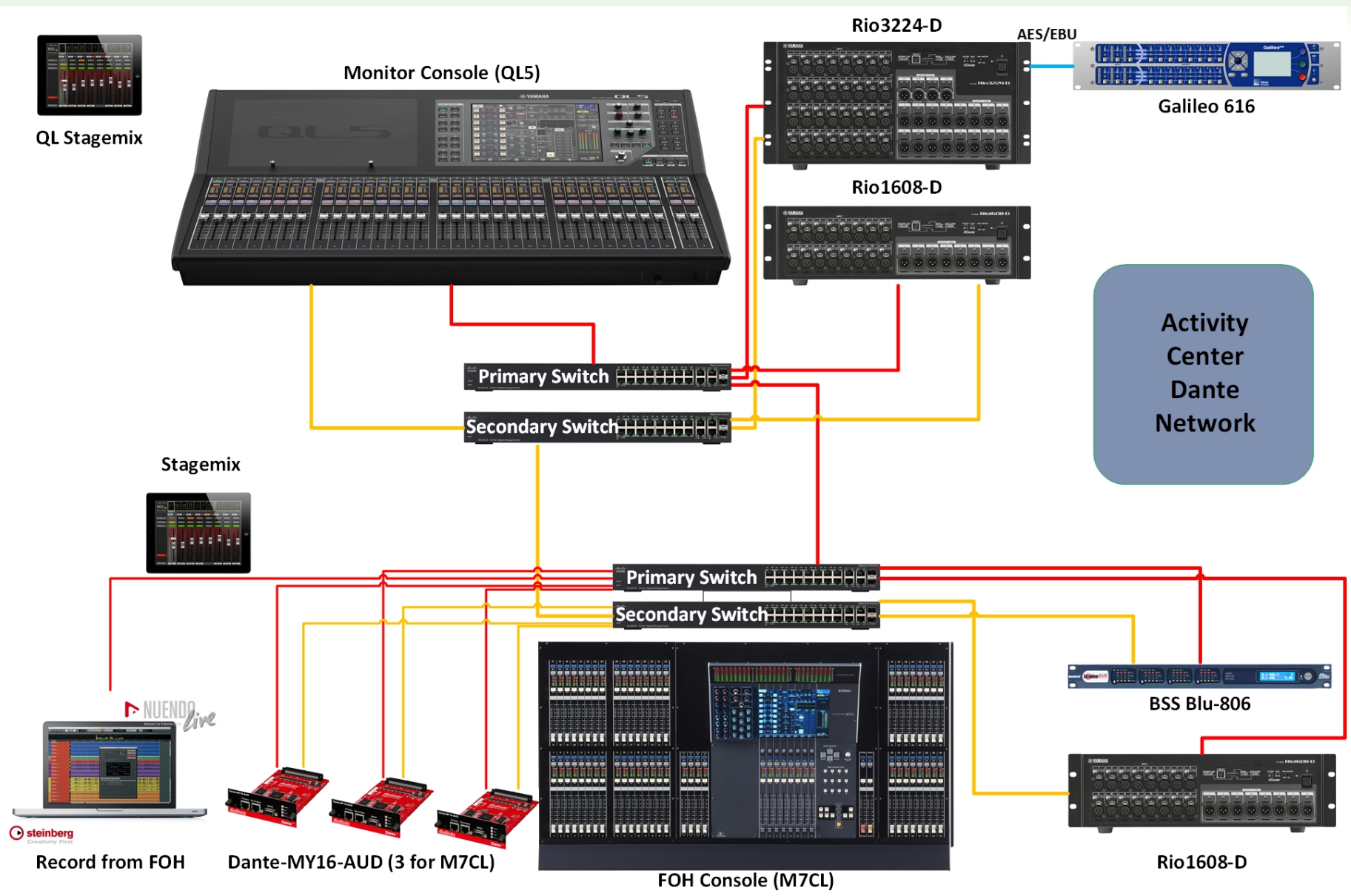
- Lakeside
  - Yamaha M7CL and Whirlwind snakes
- New Dante system





## 3<sup>rd</sup> and 4<sup>th</sup> venues

- Lakeside
  - Yamaha M7CL and Whirlwind snakes
  - New Dante system
- Activity Center
  - Yamaha M7CL and no monitor desk
  - New Dante system

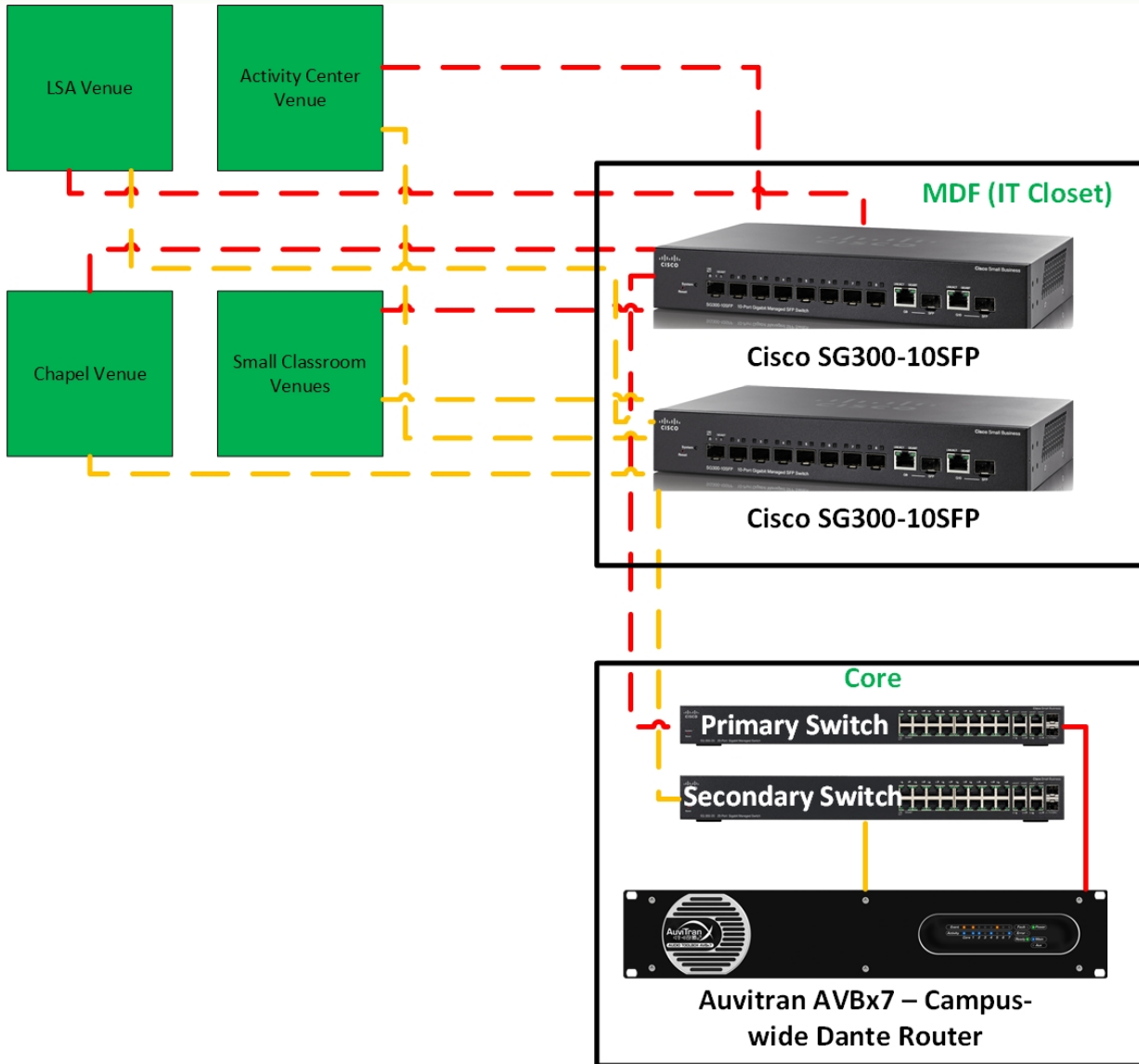




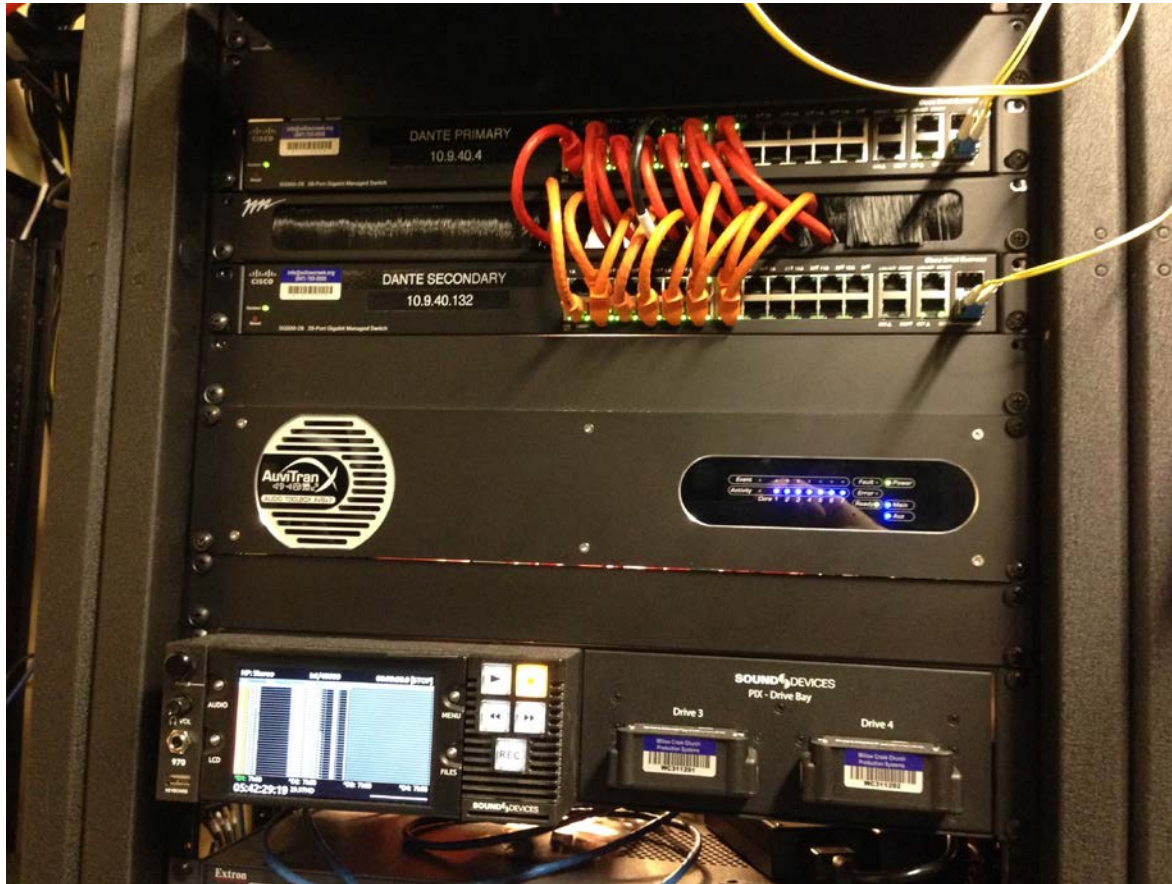


# Need to connect the venues

- How do we connect everything?
- Auvitrans AVBx7
- Isolated venues
- Management - VM



**Main Aud  
Campus  
Wide Router  
Dante  
Network**

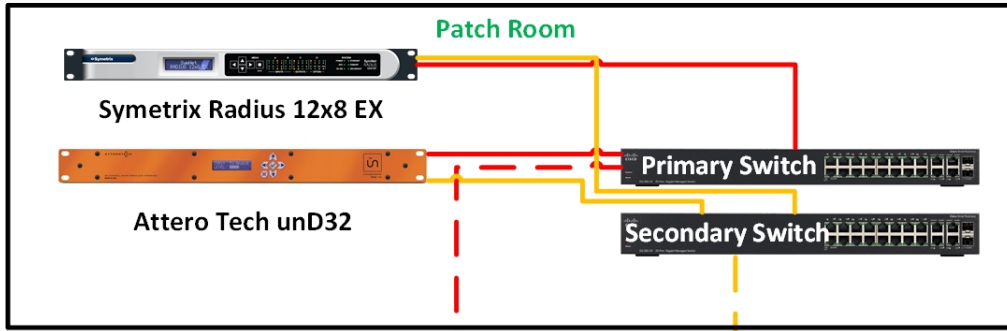


# Challenges

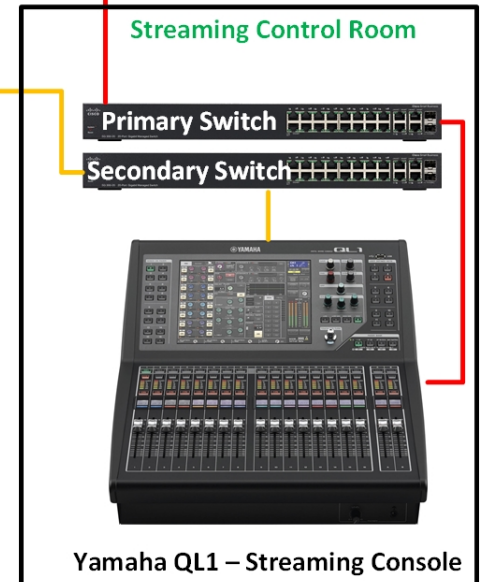
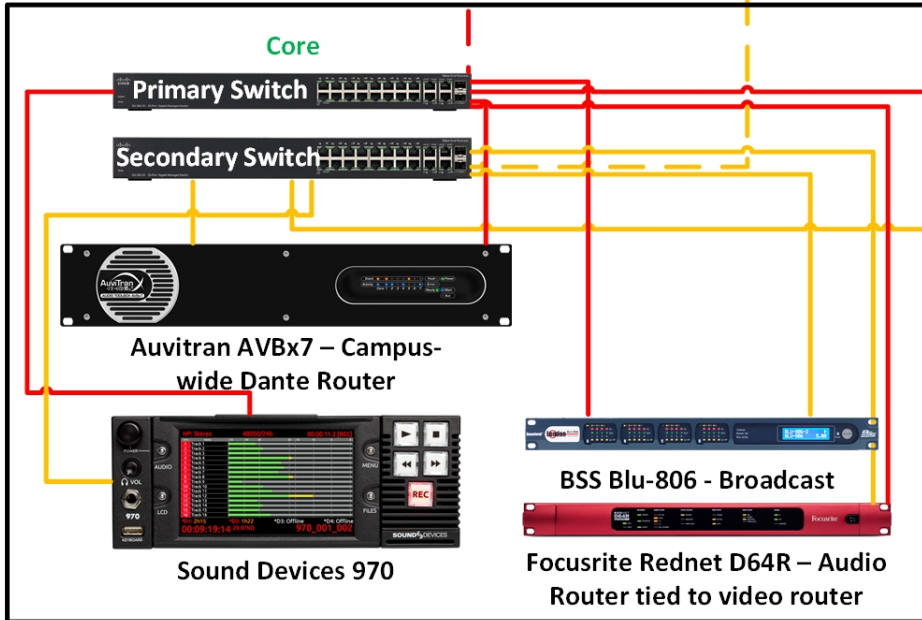
- QoS and EEE
- Secondary port

# HD Video Upgrade

- Dante/MADI interface
- Interpretation
- Streaming
- Audio to/from video playback



Main Aud Router Dante Network



# 40<sup>th</sup> Anniversary

- Yamaha PM10
- Full Dante Backbone
- PA Distribution
- Over 500 Dante streams
- Multitrack





# Future

- Consoles
  - PM1D replacement
  - Children's venues
- Wireless mics
- Dante in every room

# Conclusion

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