

Dante System Design Examples



Legend

Device Color:

Blue = Dante Enabled

Yellow = Analog or Digital (Non-Dante)

Line Color:

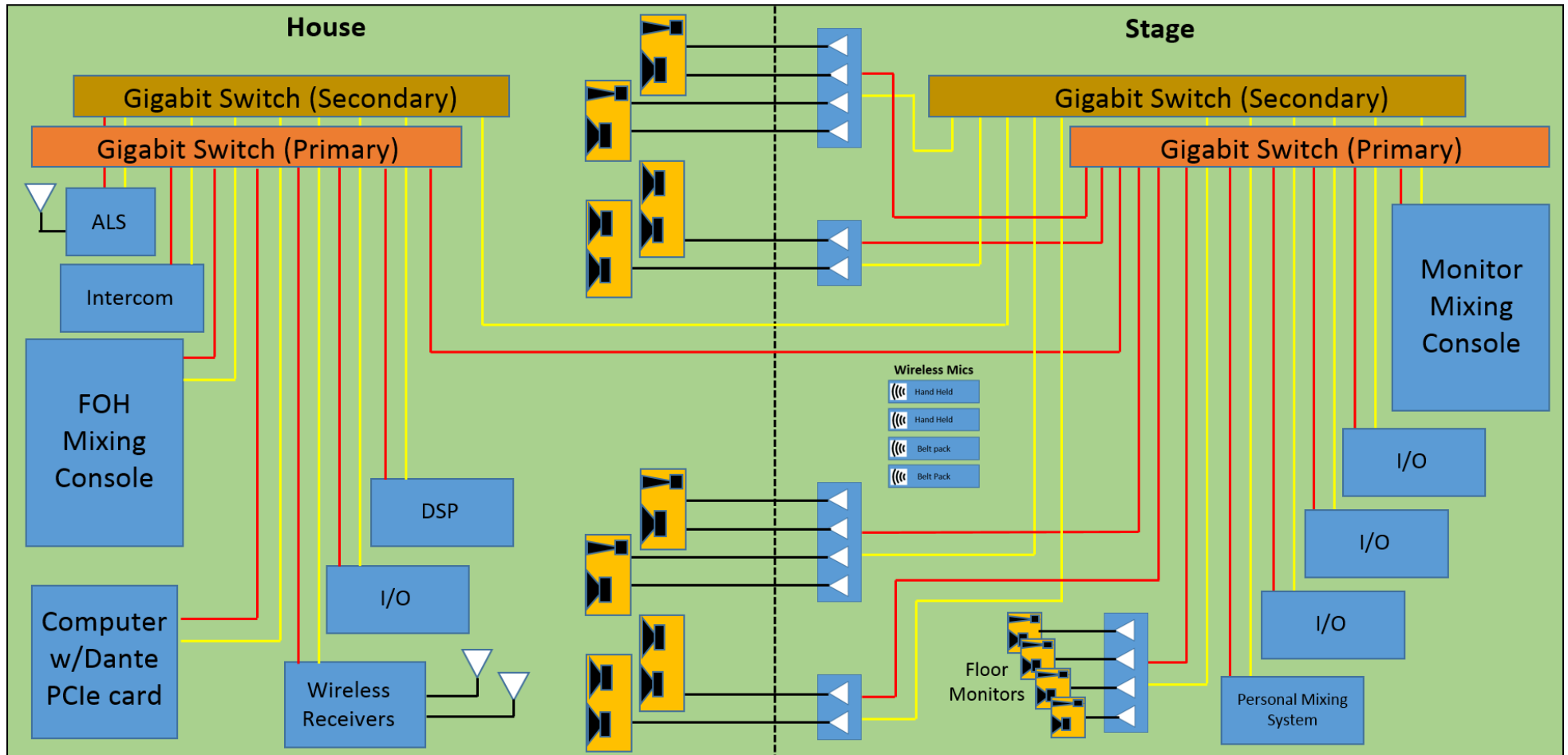
Red = Primary Network Cable

Yellow = Secondary Network Cable

Black = Analog

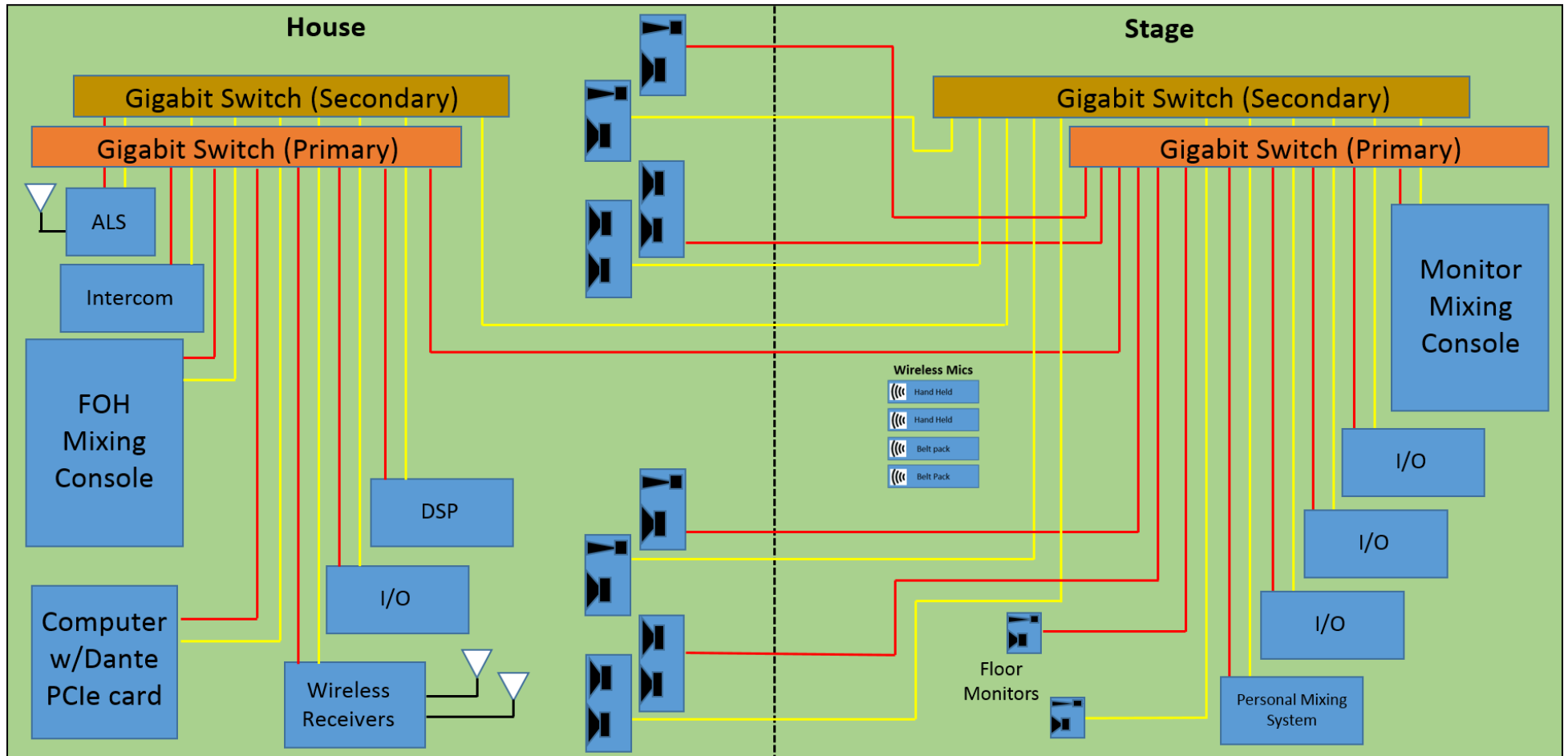
House of Worship / Performing Arts Center System Design Example

Sanctuary / Main Theater System with Passive Loudspeakers



System Description: This is a block diagram for a medium to large size House of Worship or Performing Arts Center. The house and stage systems are running on a redundant Dante network. All devices shown are Dante enabled with the exception of the loudspeakers, which are driven by Dante-enabled amplifiers.

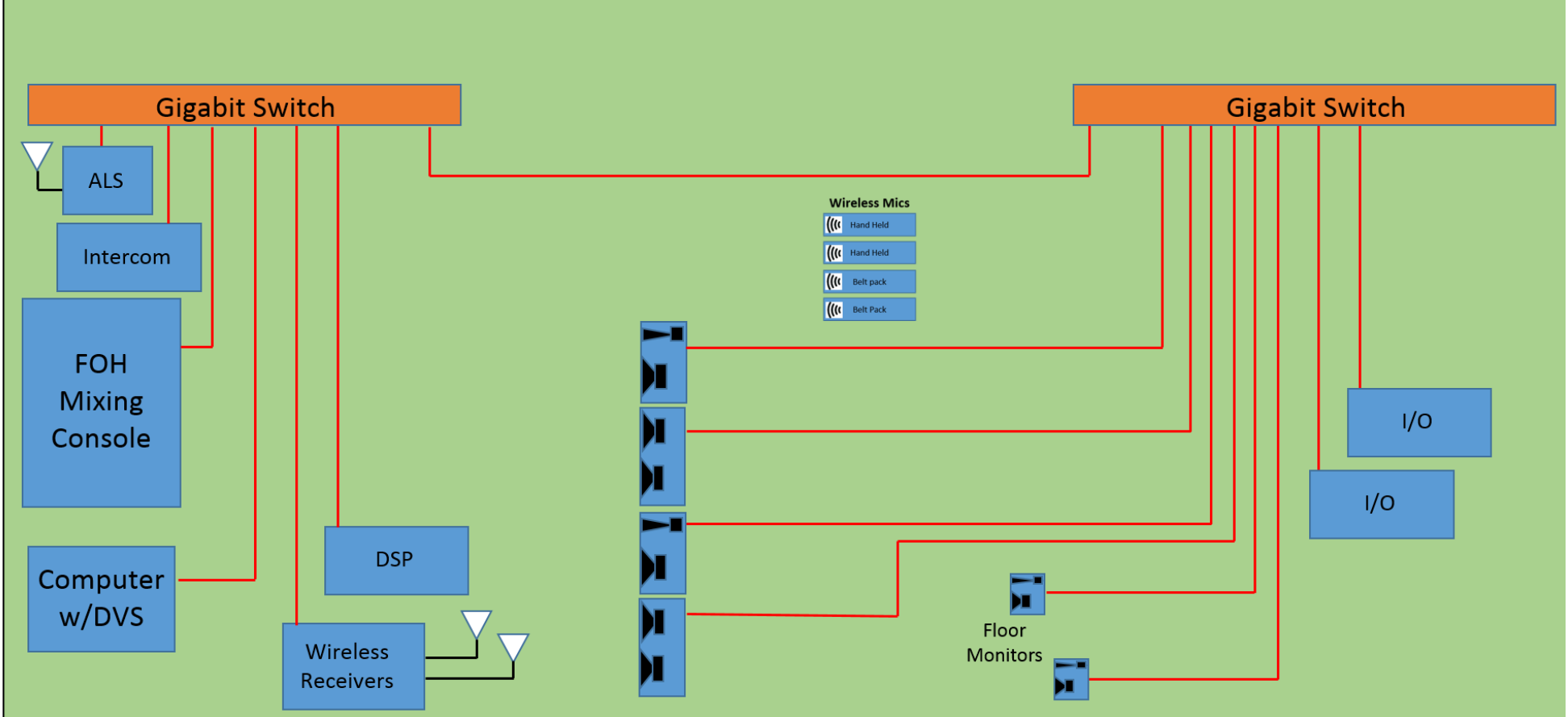
House of Worship / Performing Arts Center System Design Example Sanctuary / Main Theater System with Dante Enabled Loudspeakers



System Description: This block diagram shows the same system, but now has Dante enabled loudspeakers for both the front-of-house and the stage monitors.

House of Worship / Performing Arts Center System Design Example Gymnatorium / Black Box Theater System

Black Box Theater or "Gymnatorium"

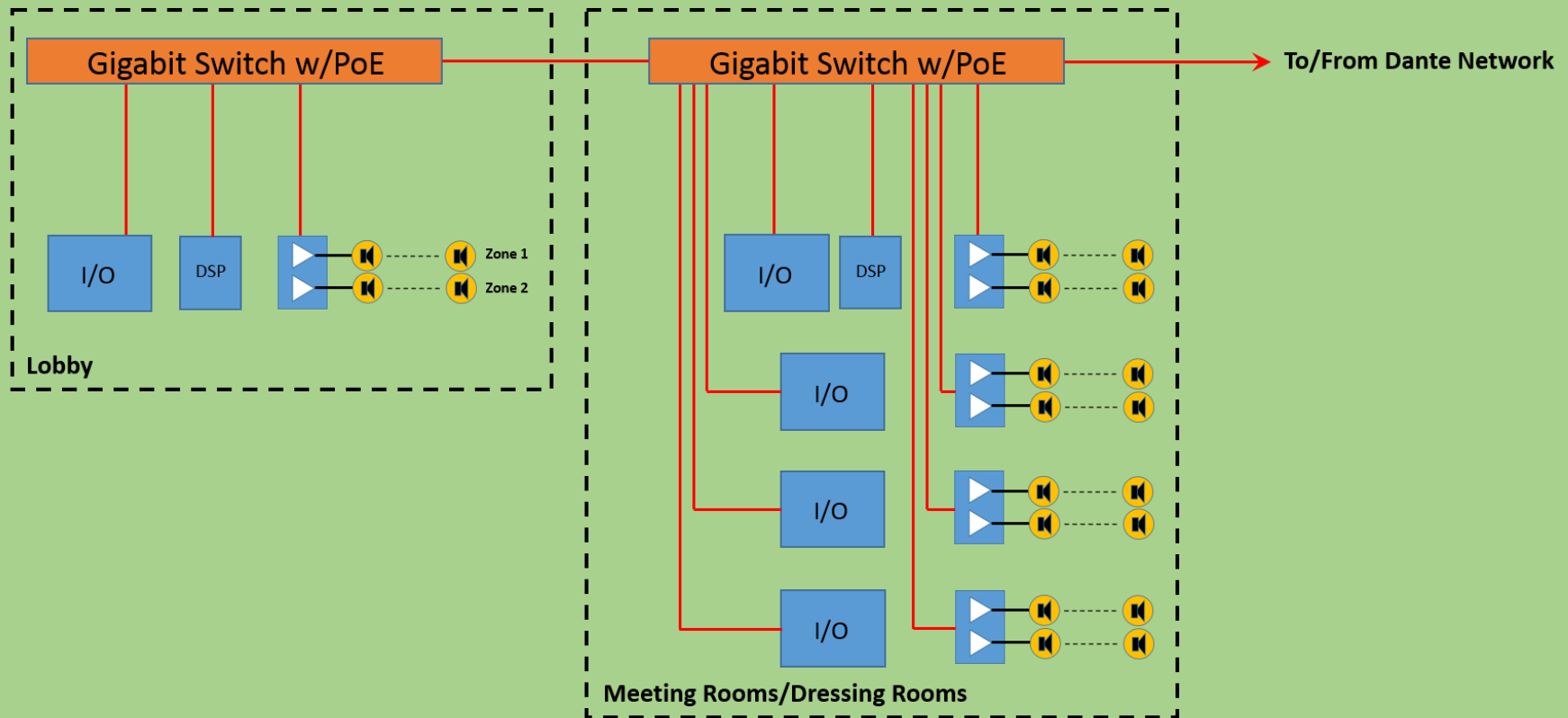


System Description: This is smaller version of the previous system, which is suited to a Black Box Theater or a Gymnatorium application. It is shown running on a primary only Dante network.

House of Worship / Performing Arts Center System Design Example

Ancillary Areas

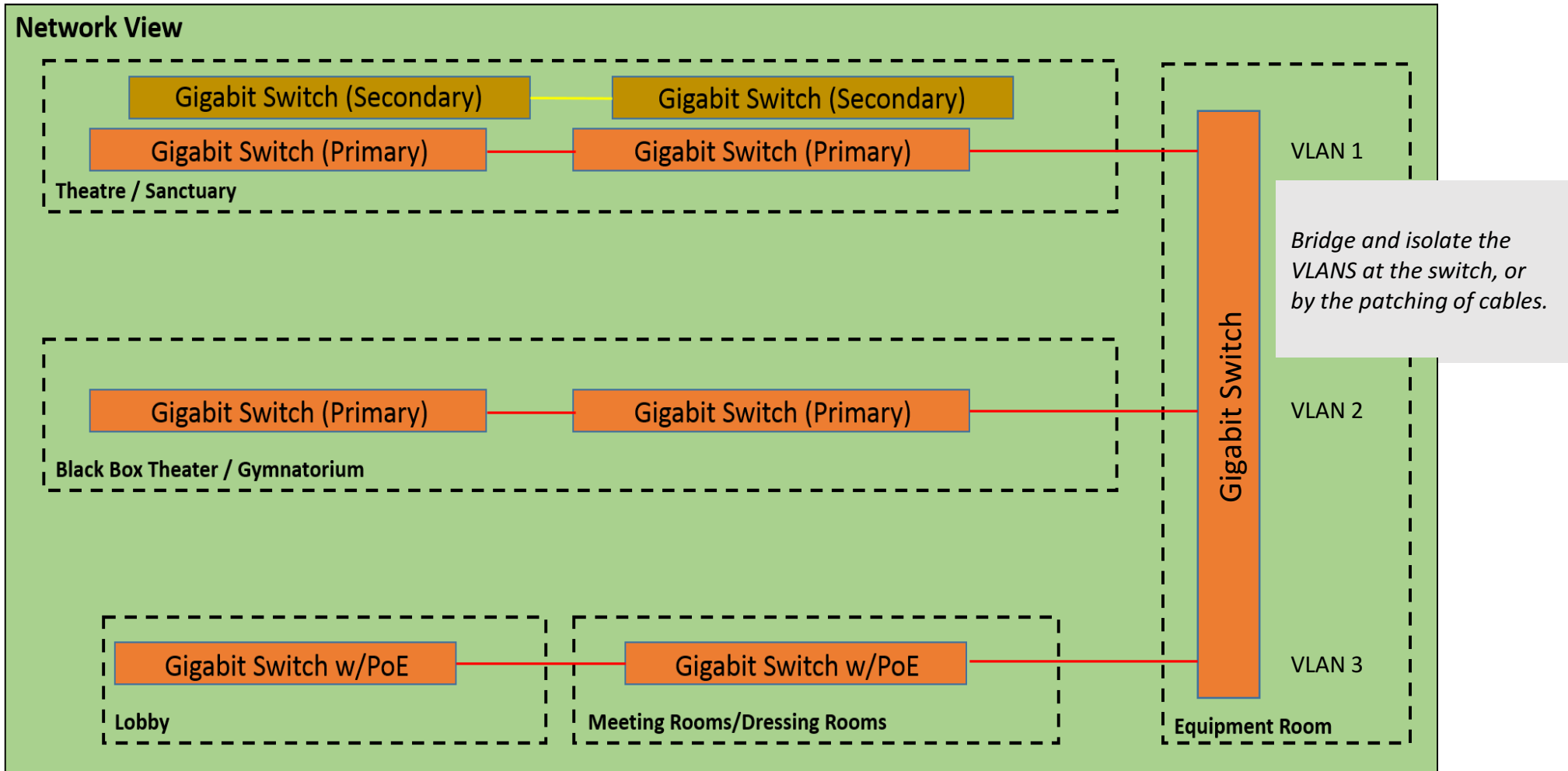
Ancillary Areas



System Description: This diagram shows the ancillary areas of the facility, including the lobby and meeting rooms and/or dressing rooms. PoE Gigabit switches are used since the design utilizes many low channel count Dante I/O devices that can derive power directly from their Ethernet connections.

House of Worship / Performing Arts Center System Design Example

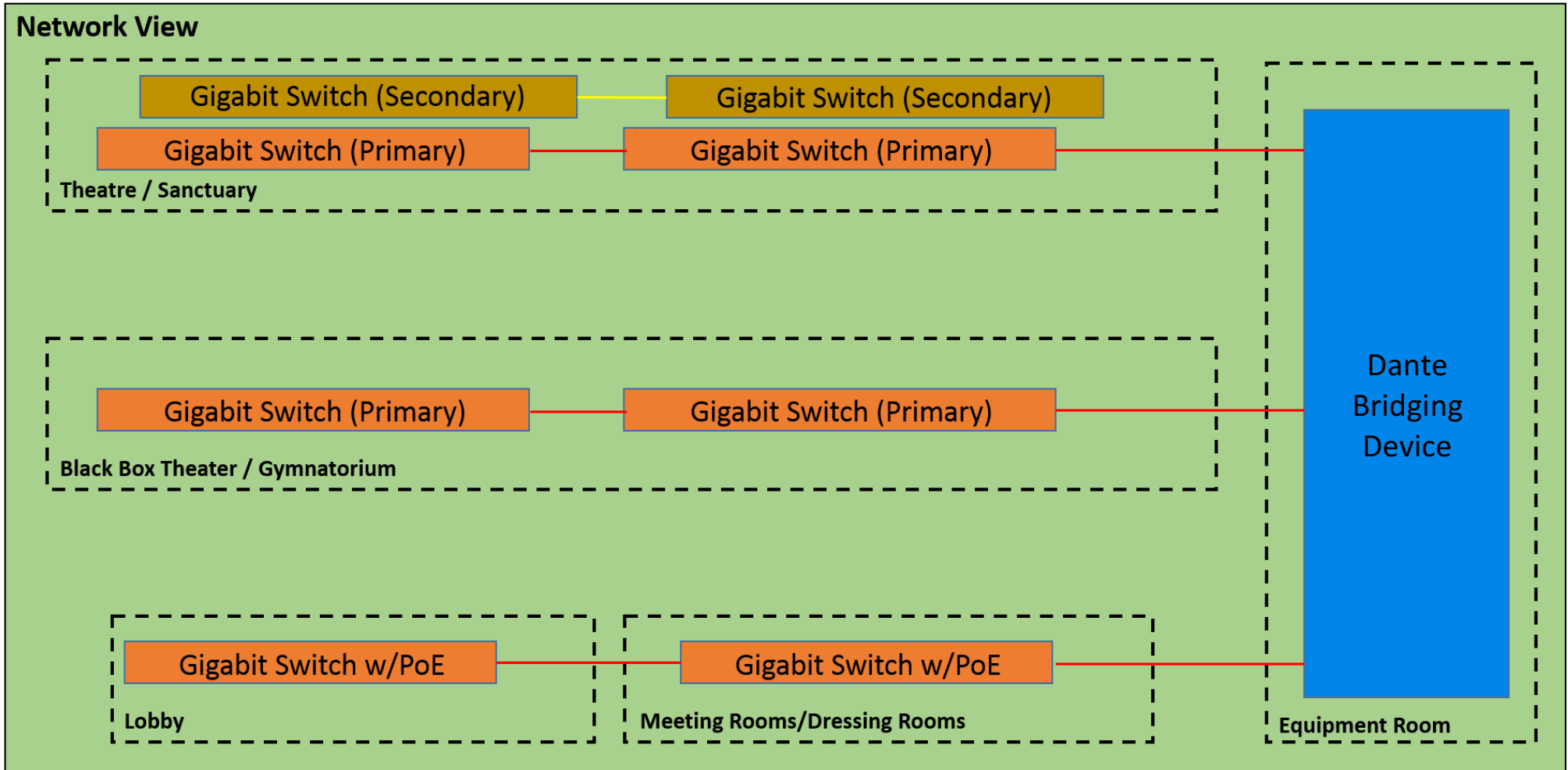
Network Diagram 1



System Description: The network view of the system shows all of the switches that are part of the Dante network connection to a single central switch. The switch can be configured to allow the system to act as one large system, or isolate the individual systems.

House of Worship / Performing Arts Center System Design Example

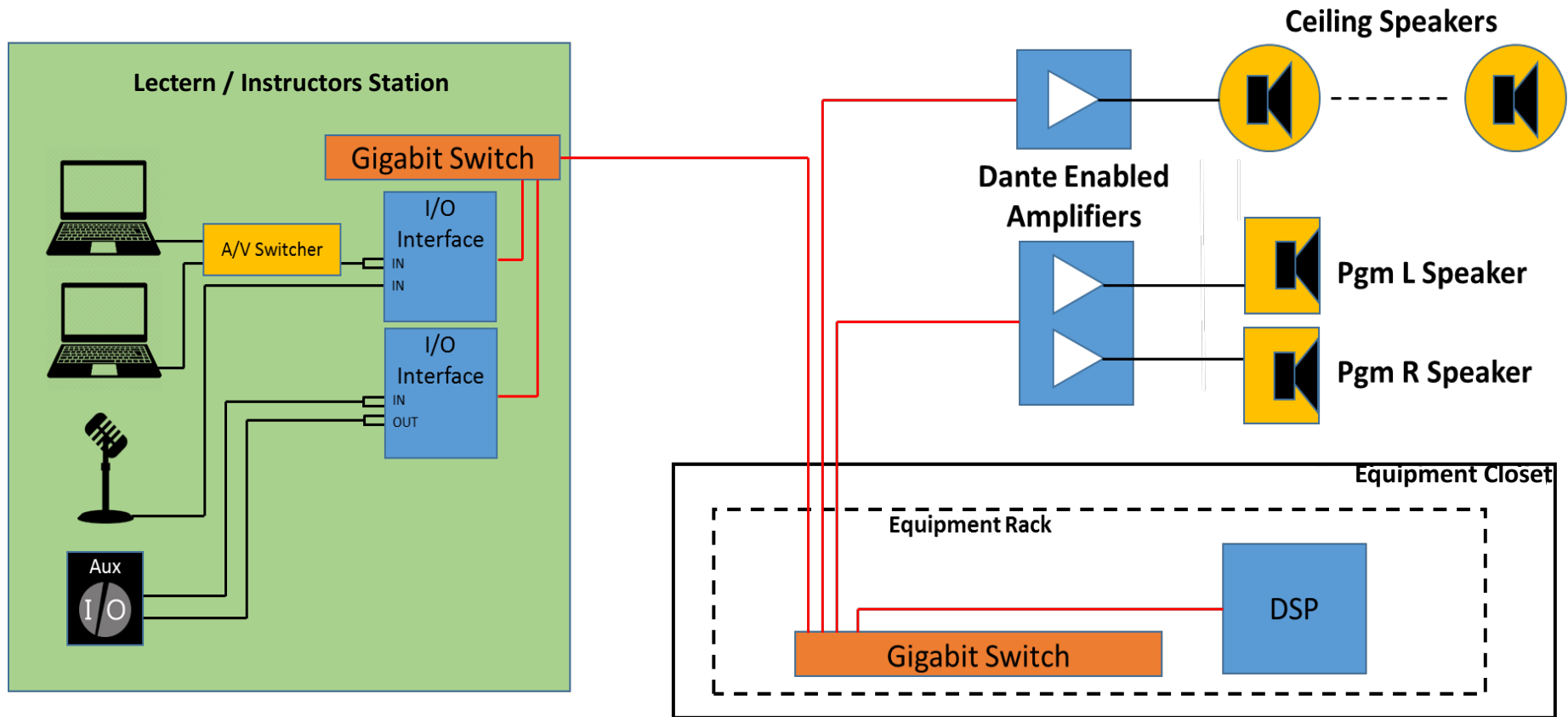
Network Diagram 2



System Description: The network view shows a Dante enabled bridging device that can be used not only to isolate the three systems, but makes it easy to route various audio channels between the systems, while providing full isolation (and sample rate conversion). A bridging device is any product that can host multiple Dante I/O cards while providing sample rate conversion, such as a mixer or dedicated format convertor.

Corporate / Educational System Design Example

Small Presentation / Training Room

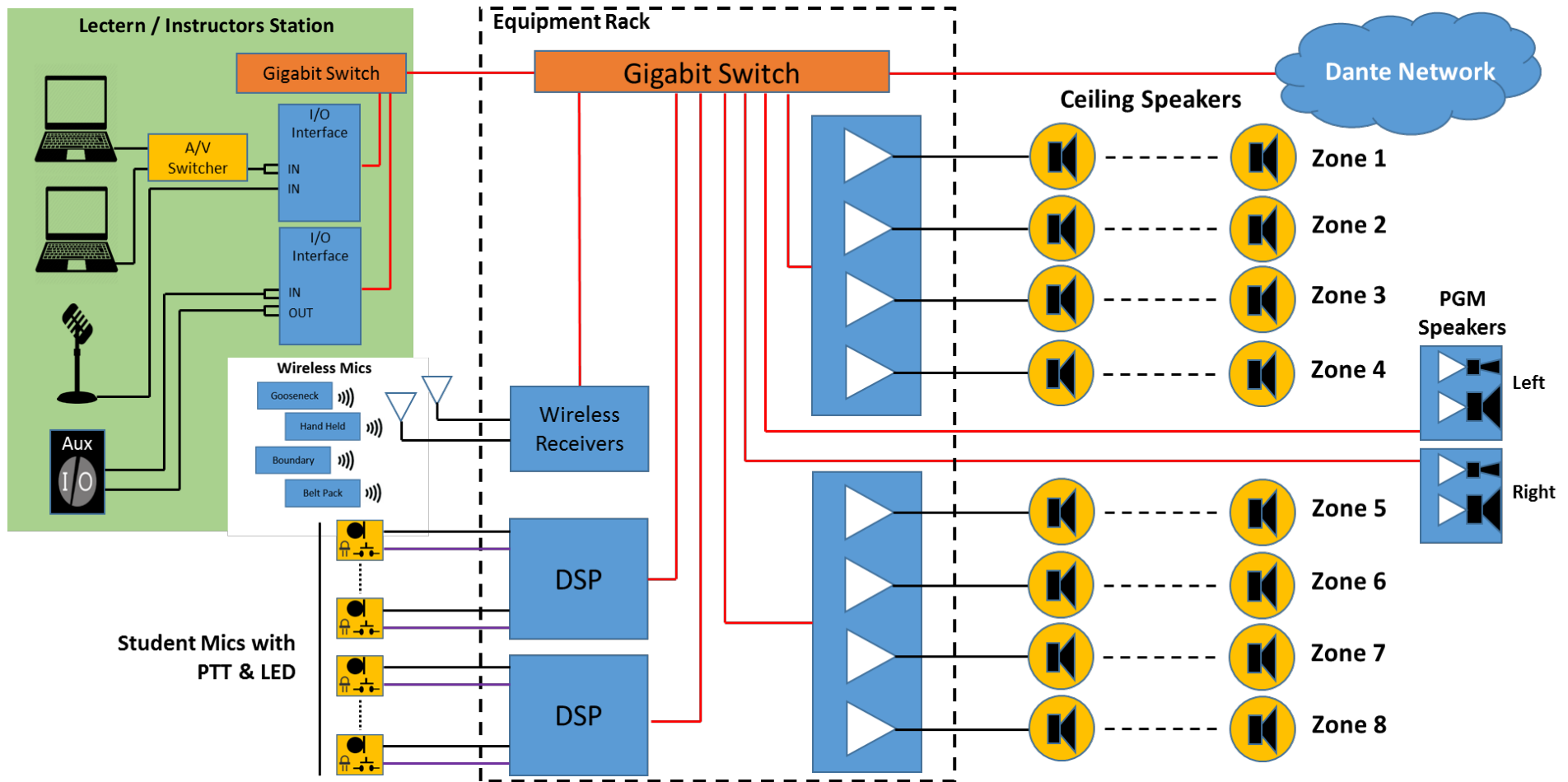


System Description: This diagram is what a typical presentation or training room audio system can look like using Dante. The lectern or instructors station can use Dante I/O devices which connect to the DSP located in an equipment closet. The amplifiers are remotely located in this example, but they could just as easily be co-located with the DSP in the equipment rack.

Corporate / Educational System Design Example

Large Boardroom / Distance Education Room

with Analog Microphones

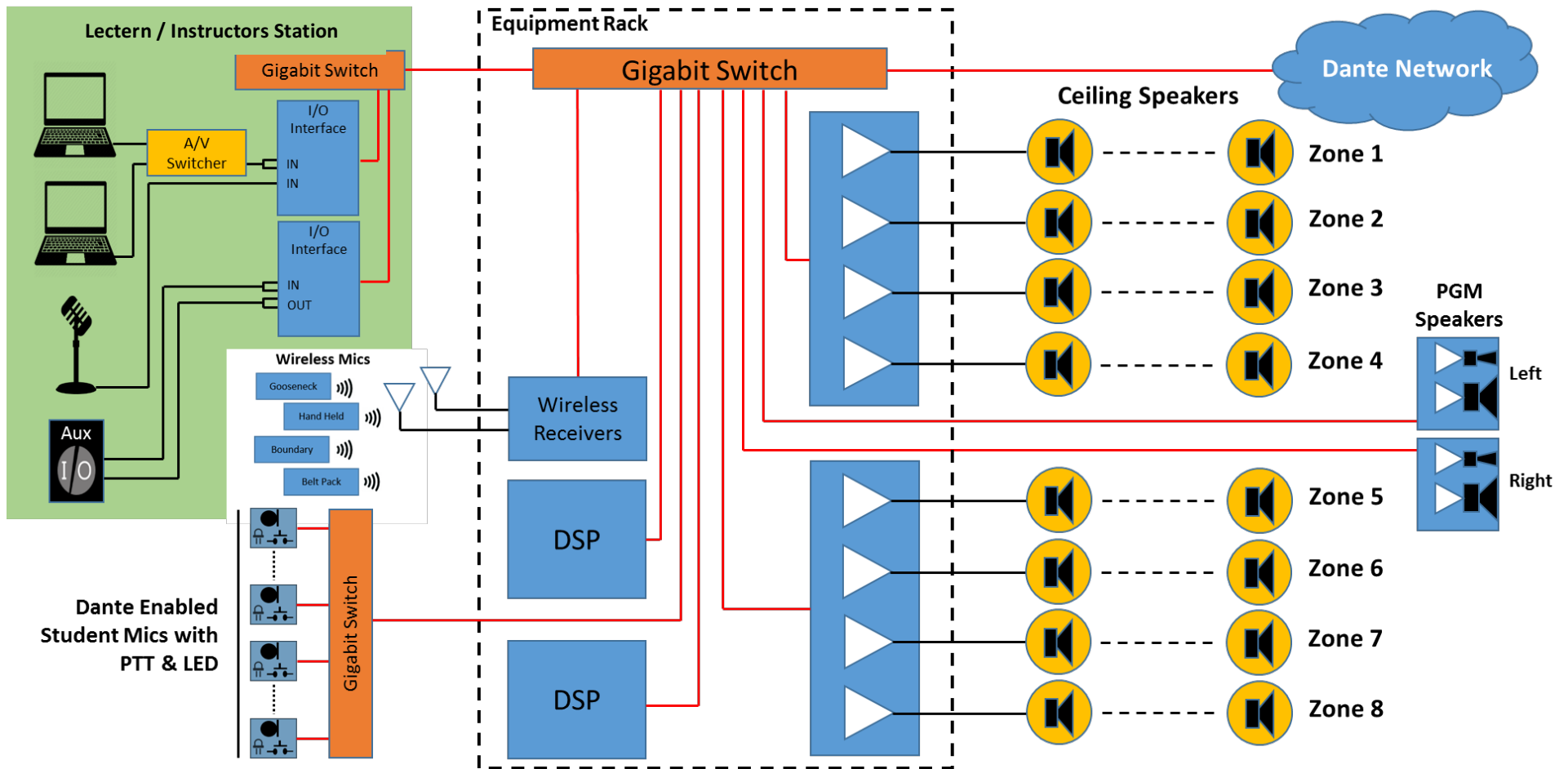


System Description: This system design builds off of the previous one by adding more microphones (both wired and wireless) for the meeting participants or students. Additional DSPs are used and the analog microphones used have PTT logic and LED status indicators which are wired to the control ports of their respective DSPs. A mix-minus speech reinforcement system is added along with Dante enabled program audio speakers.

Corporate / Educational System Design Example

Large Boardroom / Distance Education Room

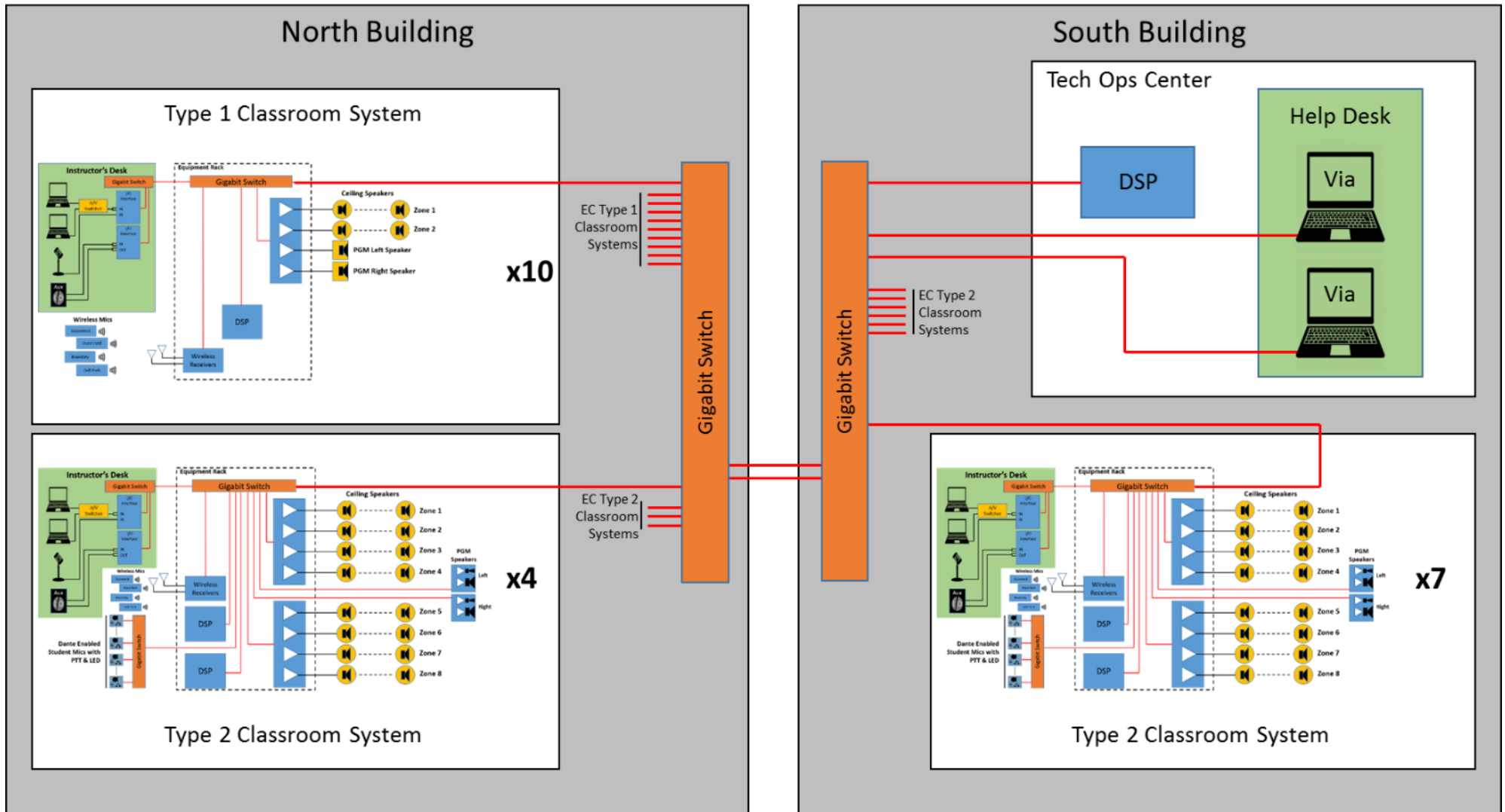
with Dante Enabled Microphones



System Description: This system replaces the analog microphones with Dante enabled ones. It simplifies the wiring and any related infrastructure costs.

Corporate / Educational System Design Example

Facility View



System Description: This is an overview of the facility show two buildings, with the North Building contain 10 of the small and 4 of the large audio systems. The South Building has 7 of the large audio systems with a Technical Operations Center and Help Desk which are using Dante Via to both listen and communicate with the rooms.