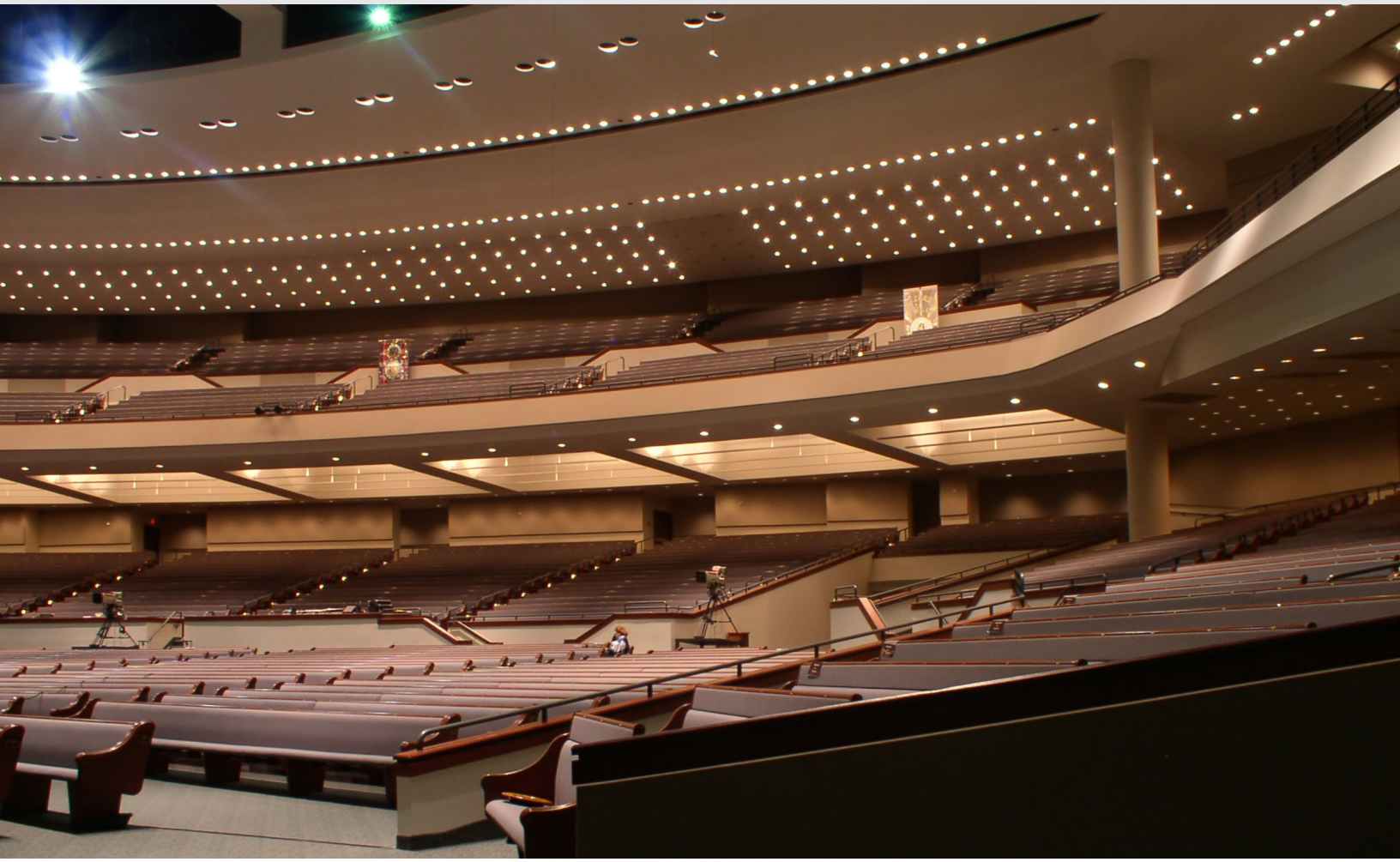
SYSTEM DESIGN GUIDE

House of Worship Campus



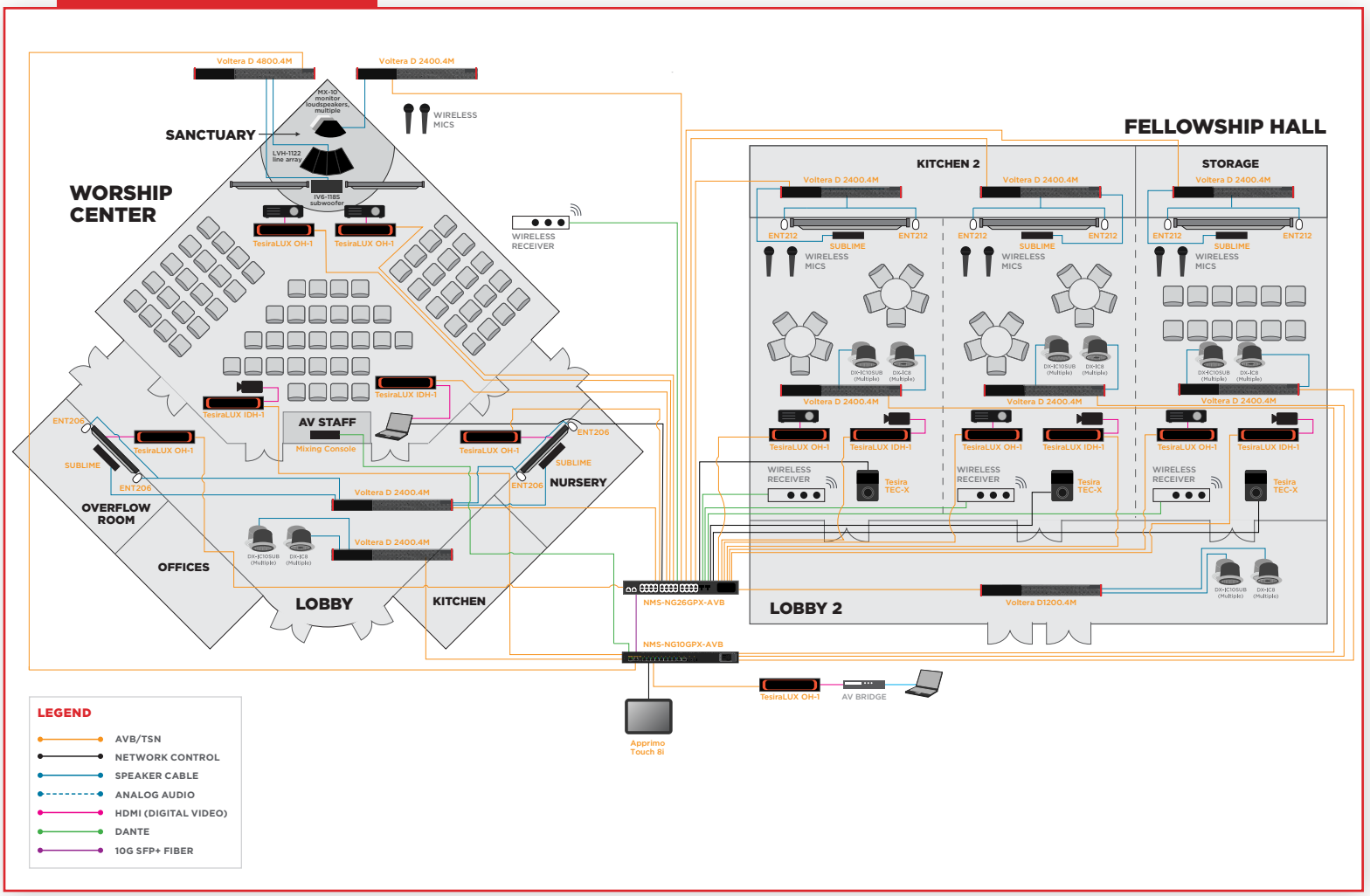
AV systems in houses of worship have to address broad sets of requirements in order for worship leaders to communicate their message and keep their congregations engaged. The audio needs to be clear throughout the sanctuary, which is often architecturally challenging for voice reinforcement. Video is also increasingly used during services for several reasons — displaying song lyrics, informing parishioners of upcoming activities before and after the service, playing videos that support the topic of conversation, and overlaying information for parents who have children in the nursery.

The community aspect of worship often takes place in a separate building from the worship center, allowing for greater flexibility in room configuration and event scheduling. These fellowship halls also offer another potential source of revenue for houses of worship, should they choose to rent the halls out. One of the key contributors to entice outside interest is a robust AV system that can address several use case scenarios, such as wedding receptions, community gatherings, and adult and youth ministry activities.

HOW Campus: Worship Center & Fellowship Hall

This setup integrates a variety of Biamp AV products. TesiraLUX encoders and decoders streamline video transport and simplify lip sync management; Voltera D M amplified loudspeaker controllers provide amplification as well as signal processing and distribution; Community and Desono loudspeakers deliver powerful, full range audio; and Tesira and Apprimo controllers allow real-time AV management. An optional AV bridge can capture the worship service directly to a PC for podcasts and other formats. In the fellowship hall, presets can rapidly reconfigure the audio and video routing, while a partitioned system design can allow work to be performed in unused areas without affecting any events currently underway.

WIRING DIAGRAM



KEY FEATURES

- Audio and video processing and routing throughout the sanctuary and fellowship hall
- Multiple video sources can be streamed simultaneously to different rooms and screens
- Supports integration with Dante™ wireless receivers
- Impedance monitoring and analog failover available for loudspeakers

EQUIPMENT LIST

HOUSE OF WORSHIP CAMPUS

PRODUCT	DESCRIPTION
TesiraLUX IDH-1	Acts as an AVB talker. Processes video signals from cameras, laptops, and media players.
TesiraLUX OH-1	Acts as an AVB listener. Outputs networked video to displays and projectors.
Voltera D M	Provide amplification and signal processing.
NMS-NG26GPX-AVB, NMS-NG10GPX-AVB	Provide granular control of network traffic.
LVH-1122	Provides powerful sound reinforcement to the nave.
IV6-118S	Provides bass reinforcement to the nave.
DX-IC8	Provides high intelligibility audio.
DX-IC10SUB	Provides high-impact bass and high intelligibility.
ENT206 & ENT212	Provide sound reinforcement to ancillary venues.
SUBLIME	Provides enhanced bass to ancillary venues.
MX-10	Delivers audio to onstage performers.
TEC-X 1000, Apprimo Touch 8i	Remote interface for control of background music sources, lighting, and volume control.