

Product	Function
<b>Tesira SERVER-IO AVB</b> (2) DSP-2 cards (1) SAC-4 card (1) DAN-1 card	Handles all audio processing and routing for the multipurpose room. Provides a Dante interface to the wireless microphone receiver. Ambient noise compensation automatically adjusts volume levels to ensure the audio remains intelligible.
<b>TEC-X 1000</b>	Provides a customizable yet intuitive interface for room control via touch screen and/or rotary encoder.
<b>Tesira EX-UBT</b>	AVB/USB adapter provides remote USB audio capabilities and wireless Bluetooth connectivity..
<b>Attero Tech unD6IO-B</b>	Dante-enabled wallplate that supports local connection of microphones and other temporary equipment.
<b>TesiraXEL 1200.1</b>	Provides asymmetric amplification to ceiling loudspeakers in the multipurpose room..
<b>Community D8</b>	Provides high performance sound reinforcement in the mutlipurpose room.
<b>Tesira TCM-X</b>	Beamtracking ceiling microphone provides extraordinary audio quality to the far end; allows people to move around freely by dynamically tracking them.
<b>Tesira TCM-XEX</b>	Expansion Beamtracking microphone intended to be daisy-chained as a second ceiling microphone in conjunction with a TCM-X.

TESDG-374-2009-EN-R1



SYSTEM DESIGN GUIDE

MULTIPURPOSE ROOMS

Tesira®

Simply put, a multipurpose room (MPR) is a large space that serves multiple program and functional purposes. Present in many corporate facilities, universities, and hospitality settings, they are an excellent option for maximizing available space.

Oftentimes these spaces are divisible via retractable walls or other means, allowing events to occur simultaneously. The architectural flexibility these spaces support must be mirrored in the capabilities of the AV system, allowing for fast system reconfiguration as the space is subdivided or combined. Since multipurpose rooms are typically used by groups and individuals having a broad spectrum of tech savviness, the user interfaces for room control must be intuitive and adaptable to change as well.

# SYSTEM DESIGN GUIDE

## MULTIPURPOSE ROOMS

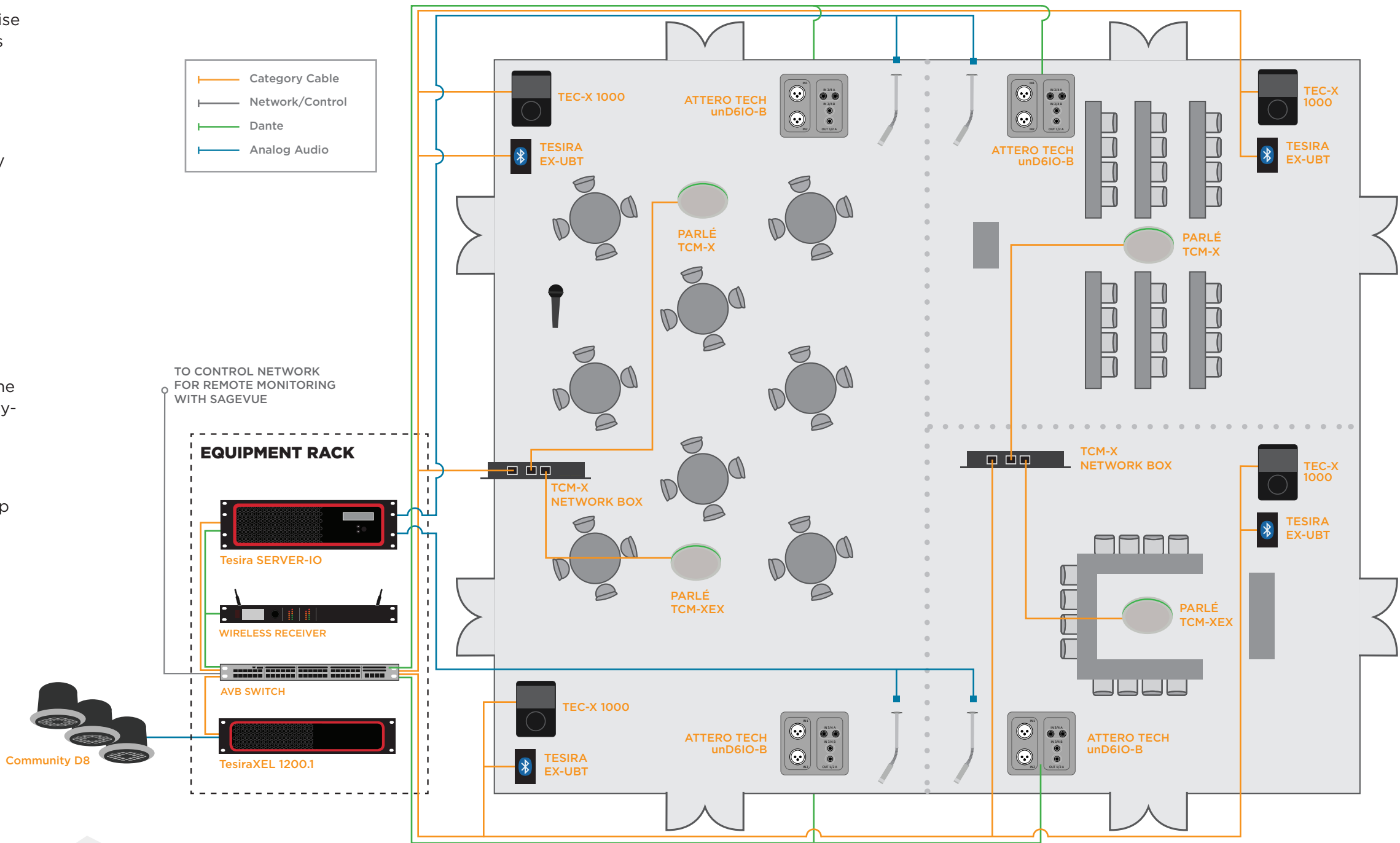
Tesira is an ideal platform for multipurpose rooms because it's particularly adept at supporting situations that require rapid reconfiguration. Through the use of presets or room combiner block, the entire AV system, including microphone routing, can be easily reset according to how the rooms are divided or combined for the next meeting or event.

In this 4-room divisible space example, AmbientSense™ can be employed to automatically adjust audio levels in each room. The installed sensing microphones detect ambient noise levels and an adaptive DSP algorithm increases or decreases the volume of the audio accordingly.

TEC-X control pads provide user-friendly interfaces for multipurpose rooms via highly intuitive capacitive touch capabilities, delivered at the price of a keypad controller. In addition, they support all TTP commands and can be quickly programmed and customized within Tesira software as the needs of the room change over time, making TEC-X a very flexible and cost effective control solution.

Our TCM Beamtracking microphones provide exceptional audio quality to the far end while simultaneously achieving consistent room coverage. They require no aiming and automatically adapt to room reconfigurations because they actively track to the people speaking. Specific to divisible spaces, another key differentiator of our Beamtracking microphones is the ability to independently route microphone traffic via Tesira software to anywhere it's needed. Even daisy-chained TCM microphones can be routed independently.

Another option is to use Tesira's room combiner block, a powerful, easy-to-use tool that manages the signal routing and control of combinable/divisible spaces. It can support up to 32 rooms within a single divisible space, with combinable levels, mutes, and source tracking.



### BENEFITS FOR INSTALLERS

- Category cable-based solutions allow easy installation in existing multipurpose rooms
- A simplified network deployment saves installation time by automatically configuring VLANs and QoS
- Dynamic Beamtracking microphones require no time to aim or tune
- Less time and personnel are required on-site

### BENEFITS FOR TECH MANAGERS

- The room's AV system can be easily monitored and managed remotely with Biamp SageVue™
- SageVue can send automatic alerts for any system issues and can secure access to the AV system to prevent unauthorized changes
- Fewer on-site support calls are required