In the past, centralized DSP has not been viewed as a cost-effective solution given the number of AEC channels that were necessary. Because Beamforming arrays typically require that each lobe has its own channel of AEC, channel count could add up quickly.

To provide a better experience for end users and integrators alike, the Tesira TCM Beamtracking™ microphones have a unique, patented interaction between the AEC and tracking algorithms. The real-time adaptation of each algorithm relative to the other provides superior echo reduction performance, but also reduces per-channel AEC cost since each TCM microphone only requires one channel of AEC per pendant.

In this Corporate scenario, a single Tesira SERVER-IO provides the digital signal processing and routing for six meeting rooms of varying sizes, and also provides each room with a separate VoIP connection.
The TCM microphones provide exceptional audio quality to the far end while simultaneously achieving consistent room coverage. They let people act naturally in the room — stand up, sit down, face the whiteboard, or walk around the table — without negatively impacting the far-end audio quality. Unlike traditional mics, Beamtracking mics track people as they move, and don’t force them to stay where the lobes are aimed.

Up to three TCM microphones can be daisy-chained together, reducing the number of cables that need to be pulled and helping you complete installations quickly.

The EX-UBT expander allows you to extend USB audio reliably throughout your entire facility. The EX-UBT also supports Bluetooth® wireless technology, allowing users to continue a mobile phone call while transitioning into a conference room.

All Tesira devices can be configured and managed via the Tesira software. The centralized Tesira SERVER-IO handles each room’s DSP and VoIP functionality, supporting clear and intelligible conference calls to locations across town or across the globe.