**WIRELESS CONFERENCE SYSTEM ARCHITECT AND ENGINEER SPECIFICATIONS**

The wireless conference system shall offer full conference functionality with the added convenience of encrypted digital wireless transmission for up to 125 participants, and be quick and easy to setup going from cart to conference in minutes, with little to no wireless coordination or system configuration.

The system shall operate using WLAN standard IEEE 802.11a,g in the 2.4 GHz and 5 GHz bands (U-NII-1, U-NII-2, U-NII-2e and U-NII-3). The operating region shall be selectable to ensure compatibility with local RF spectrum regulations.

The system shall use RF interference detection and avoidance technology to deliver reliable transmission and shall limit signal dropouts even in the most congested RF environments.

The system shall feature automatic frequency management to detect interference before it affects system performance utilizing proprietary technology.

The system shall use AES-128 wireless encryption for enhanced privacy to keep the meeting content private and deliver best in class audio capture and reproduction to ensure that every word spoken is heard.

Up to 125 wireless conference units powered by a smart, removable Lithium-Ion rechargeable battery, that lasts over 11 hours, shall be supported simultaneously on a single wireless access point powered over Ethernet. Remote checking of the remaining battery charge (in hours and minutes) on each conference unit shall be available.

The system shall support handsfree, manual, and remote microphone activation to accommodate a variety of meeting formats.

The system shall include a web interface enabling the user to setup the system and manage the system during the meeting. Both the web interface UI language and the system UI language shall be selectable from at least 17 languages.

The wireless system shall consist of the following components:

* Wireless Conference Unit
* Access Point Transceiver
* Network Charging Station
* Rechargeable battery

The following accessories shall be available:

* Headphones
* Microphones with 10 pin modular connector

The system shall be or similar to: Microflex Complete Wireless System.