



Conference Room Technology: Standards

Classroom Technology Support Group
Division of Customer Service
Office of Information Technology
Western Michigan University

The following standards are for conference rooms on all Western Michigan University campuses. This document shall be used in connection with any consulting pertaining to conference room technology projects. Outside consultants shall use this standard and adhere to the equipment listed herein to prepare all written bid documentation.

Level 1: Small to medium general-use conference rooms.

- LED panel, 60 inch, 1920 x 1080 minimum native resolution
- LED wall mount
- Crestron FlipTop™ Control System (HDMI/VGA cable management)
- Crestron DigitalMedia 8G+™ Transmitter/Receiver
- Router
- One (1) Ethernet connection to router
- 4 AC outlets at back of LED

Level 2: Large size general-use conference room or Dean's conference room.

- LED panel, 80 inch, 1920 x 1080 minimum native resolution
- LED wall mount
- Crestron DigitalMedia™ Presentation System
- Crestron wireless touch screen
- Crestron DigitalMedia™ Transmitter/Receiver
- Crestron FlipTop™ Basic (HDMI/VGA cable management)
- Ceiling mounted loud speakers
- Credenza with rack system
- Router
- One (1) Ethernet connection to router
- 2 AC outlets at back of LED

AV Component Specifications

1. LED Panel
 - a. Panel will be sized according to room size.
 - b. Professional grade panel is preferred.
 - c. Panel resolution should be 1920 x 1080 or greater.
 - d. Extended warranty required for consumer grade panel.
2. Network Lines
 - a. There shall be one (1) Cat-6 network line used, terminated at the router.
3. Crestron Programming
 - a. Programming for any Crestron control devices in the conference room shall be done by certified Crestron programmers.
 - b. Touch screen standards and programming will be provided by WMU.
 - c. Review of programming shall be done during install.
 - d. Programming will include Crestron's RoomView® and e-control pages.
 - i. The programmer shall use current version of RoomView® symbol and establish IPID per WMU programmer's current specification.
 - ii. The programmer will work with WMU programmers to establish integration into RoomView®.
4. Power Requirements
 - a. There shall be a standard 2-gang outlet box installed on the wall, in the location where the display mount will be placed.
 - b. Multi-outlet surge protectors shall be used for equipment power and attached to the rack within the credenza (large room install only).
5. Asbestos
 - a. In-wall speakers may be substituted where asbestos is present in ceiling.
 - b. AC outlet placement may be relocated where asbestos is present.
6. Documentation from Installer
 - a. Before installation completion, WMU and the installer shall provide the make, model and serial numbers for all equipment and in which room(s) this equipment has been or will be installed.
 - b. At least two weeks prior to the installation of equipment the MAC addresses shall be provided for the Crestron control units. WMU will assign IP addresses to these units, and in turn give these IP addresses to the installer/programmer.
7. Security
 - a. Security of panel and cables will be considered and installed.

Appendix A

Level 1: Conference Room Detail

Model	Manufacturer	Description
LC-60LEXXXX	Sharp	Aquos 60" Class LED Smart TV
LTMU	Chief	Large Fusion™ Micro Adjustable Wall Mount
FCA102	Chief	Fusion™ Secure CPU/Media Player Adapter
FT-TSC600	Crestron	FlipTop™ Touch Screen Control System
DM-TX-201-C	Crestron	DigitalMedia 8G+™ Transmitter 201
DM-RMC-100-C	Crestron	DigitalMedia 8G+™ Receiver and Room Controller
PWE-4803RU	Crestron	PoE Injector
RV042	Cisco	4-port Dual WAN VPN Router

(1) Network drop (WMU)
AC Install (WMU)

Level 2: Conference Room Detail

Model	Manufacturer	Description
LC-80LEXXXX	Sharp	Aquos 80" Class LED Smart TV
XTMU	Chief	X-Large Fusion™ Micro Adjustable Wall Mount
FCA102	Chief	Fusion™ Secure CPU/Media Player Adapter
DMPS-300-C	Crestron	DigitalMedia™ Presentation System 300
TPS-6X	Crestron	Isys® 5.7" Wireless Touch Screen
DM-TX-201-C -OR- DM-TX-200-C-2G	Crestron	DigitalMedia 8G+™ Transmitter 201 -OR- DigitalMedia 8G+™ Transmitter 200 Wall Plate
DM-RMC-100-C	Crestron	DigitalMedia 8G+™ Receiver and Room Controller
FT-600	Crestron	FlipTop™ Basic (Applicable w/ DM-TX-201-C only)
CEN-ERFGW-POE-PWE	Crestron	Extended Range RF Wireless Gateway w/ PoE Injector
RV082	Cisco	8-port Dual WAN VPN Router
C5F2-D	Middle Atlantic	Deeper C5 Series Credenza Rack
SRSR-4-12	Middle Atlantic	Slide Out Rotating Rack System
RSH4S2S*	Middle Atlantic	Custom 2U Rack Mount Enclosure
BDP-S390*	Sony	Blu-ray Disc Player w/ Wi-Fi
P30HD*	Elmo	Visual Presenter (Document Camera)

(1) Network drop (WMU)
AC Install (WMU)

*Optional Items