

Application

The History of Transportation exhibit has three rooms, taking guests through a brief history of Land, Water, and Air transportation. A Motion Sensor triggers the lights and background audio to fade out and a video presentation begins on a Plasma screen, coordinated with lighting in a large diorama. A backlit timeline is illuminated along with the entire presentation, illustrating the technological innovations of each era, and how one innovation led to, impacted, or influenced the next.

At the end of the video sequence, the Plasma screen returns to an "attract mode" video loop and the room's lights and background music fade up. The lights in the diorama return to a preset look. The Motion Sensor is disabled to avoid an immediate re-triggering of the show. After five minutes, the Motion Sensor is enabled again, allowing another show to be triggered by new guests in the room.

The same basic equipment and cue structure is used for all three rooms: Land, Water, and Air.

The lighting system's dimmers are located in a small Electrical room away from the A/V control room. A background music system plays back audio and sound effects themed for each room.

Solution

A Medialon Show Control Machine Pro, running Medialon Manager V5 PRO controls the equipment in each room. To keep wire runs to a minimum, each room has a Video Player, Motion Sensor and Plasma Screen wired to the Serial and Digital Input ports of a GlobalCaché GC-100-12. The GlobalCaché unit communicates with the Show Control Machine Pro over TCP/IP via an Ethernet Switch. This way, only one Ethernet line must be run to each room to control all the devices, and HDMI cables can be used to connect the Video Players to the Plasma screens.

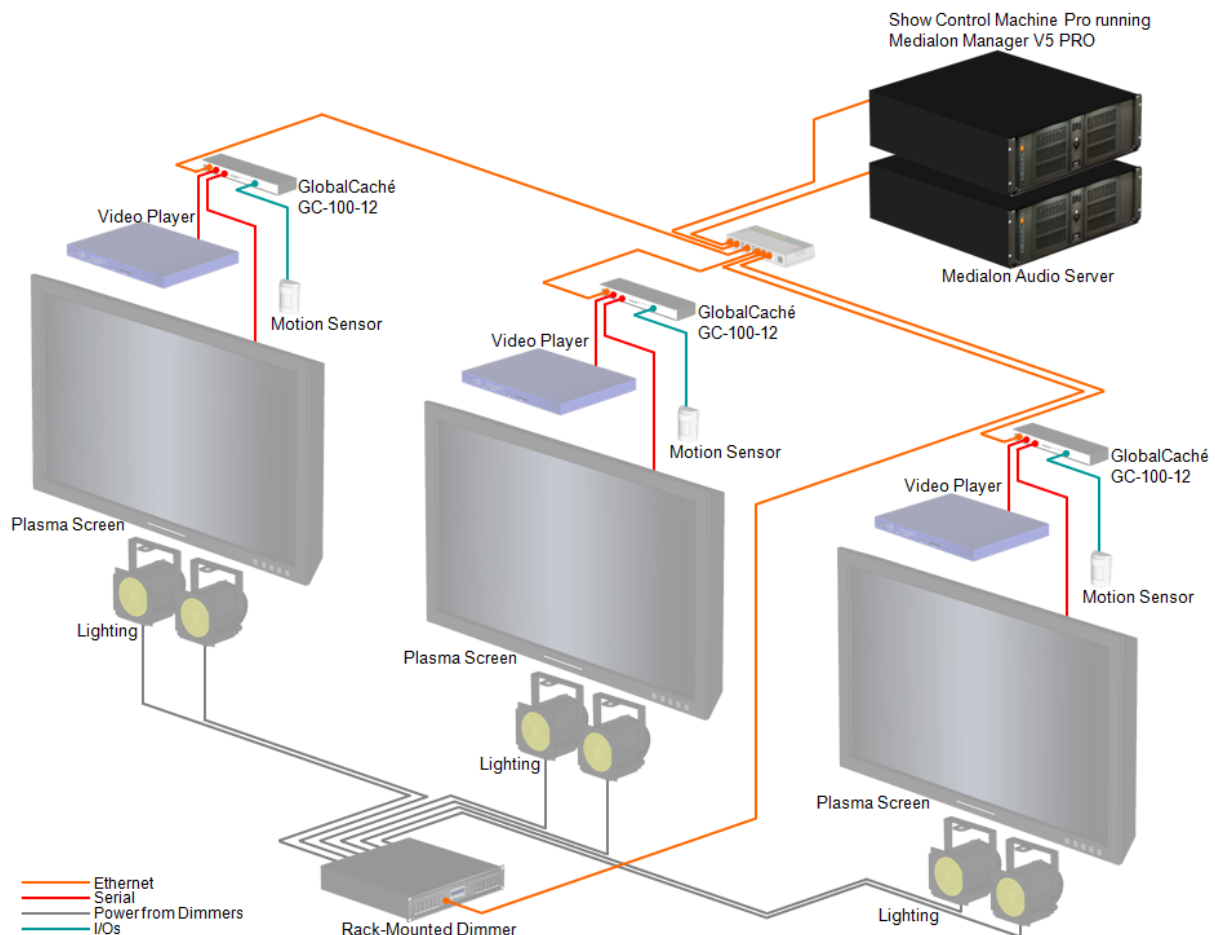
Audio Playback is handled by a 24 Channel Medialon Audio Server, providing eight discreet playback channels in each exhibit room. Medialon Manager V5 controls the Medialon Audio Server using TCP/IP over Ethernet.

The Lighting system is controlled using ArtNet over the network, eliminating the need for additional DMX distribution hardware.

The entire exhibit is scheduled to automatically turn itself on in the morning and off when the museum closes, turning off all Plasma screens and powering off the Video Players.

A touch screen connected to the Show Control Machine provides system status monitoring and scheduling capabilities from the A/V control room.

Approx programming time: < 1 day.



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