

AV System Programming Requirements

AV Services

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- I. Control Systems
 - A. Extron control systems will be specified and used in all AV Systems.
 - B. Extron control systems will be programmed using Global Configurator Plus or Global Configurator Pro.
 - 1. Global Scripter can only be approved on a case-by-case basis, with written approval and a five-year support plan.
 - C. Uncompiled control code must be handed over to PU at the end of the project as part of the project closeout.
- II. Connectivity to devices.
 - A. Devices on PU networks must be:
 - 1. Registered on the PU network.
 - 2. Have their [hostnames set appropriately](#).
 - 3. Connected via hostname rather than a static IP address.
 - B. Devices on isolated networks
 - 1. Can be reached via static IP
 - C. Devices on wireless networks
 - 1. Must be approved and tested by PU OIT before deployment.
- III. Extron Global Viewer
 - A. All control systems must be added to the PU Global Viewer monitoring system at the end of the project.
 - B. System-wide shutdown and startup macros must be event mapped to the “System On” and “System Off” events in “Room Event Mapping.”
 - C. All selectable inputs must be reported to Global Viewer using the GlobalViewer Enterprise Settings -> Input.
- IV. Defaults on Startup
 - A. Inputs
 - 1. If there is voice reinforcement in the system, no default input will be selected on start-up.
 - 2. If the system does not provide voice reinforcement, the laptop will be automatically selected and sent to the display as the default source.
 - 3. Route any default video routes, for example, a camera to the AV Bridge.



- B. Mutes
 - 1. All audio and video mutes in the system will be unmuted.
- C. Volume
 - 1. All volume levels will be set to their default level, 0dB (Unity), with a range of +6dB to -12dB.
 - 2. Volume feedback must be logarithmic, not absolute, to reflect the heard user experience in visual feedback.
- V. Shutdown
 - A. Clear all audio, video, and USB routes.
 - B. Unmute all mutes.
 - C. All volume levels will be set to their default level.
 - D. Send cameras to the home position.
- VI. General Programming Expectations
 - A. The audio source follows the video source, unless manually changed from an advanced tech page.
 - B. If an audio-only source is selected, send black to the display.
 - C. USB Routing
 - 1. If no source with USB is selected, then clear USB routes.
 - D. The NTP settings on the controller point to the Princeton NTP Server, and the timezone is set to Eastern.
 - E. All firmware will be updated to the latest version prior to system programming.
 - F. The latest control module drivers will be downloaded before system programming.
 - 1. If there is no official Extron driver, one must be requested.