**SECTION 27 41 16**

**INTEGRATED AUDIO-VIDEO SYSTEMS AND EQUIPMENT**

**GUIDE SPECIFICATION**

*Specifier: The Specifier/Design Professional is responsible for the accuracy of all project specifications, including system application and coordination with related sections. This guide specification is provided as a convenience and requires editing to match actual project requirements. CRESTRON ELECTRONICS, INC. SHALL NOT BE LIABLE FOR ANY DAMAGES ARISING OUT OF THE USE OF ANY OF ITS GUIDE SPECIFICATIONS. For Crestron design assistance and design review please contact Sales Support Services Department at 800.237.2041 or techsales@crestron.com.*

*Specifier: Please see PART 4 for a listing of products specified in this Guide Specification.*

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# **GENERAL**

*NOT USED in this Guide Specification. Specifier shall Specify PART 1 administrative and procedural requirements as needed.*

## **SUMMARY**

### Section Includes

#### Requirements for a configuration and setup application that shall be utilized for configuring AV systems specified in related sections of this specification.

### Related Requirements

*Specifier Note:*

*Other sections of the specification including system hardware should be referenced here.*

# **PRODUCTS**

*Specifier Note:*

*Crestron® .AV Framework™ software is a web-based management solution that is used to deploy scalable Crestron enterprise room solutions without requiring any programming. The .AV Framework configuration utility is accessible from most web browsers and provides the following functions:*

*\*Select sources and displays.*

*\*Configure device control for Blu-ray Disc® players, cable TV boxes, and video servers.*

*\*Add a compatible touch screen to generate the GUI for a single or multiple display systems.*

*\*Add a compatible button panel to control single display systems.*

*\*Connect to Crestron Fusion® software to monitor and control basic room data, system power, source selection, and room scheduling.*

*\*Customize the .AV Framework user experience with additional components, custom functionality, and corporate logos.*

## **Built-In Device Configuration Software**

*Specifier Note: Please see the following link for additional information:*

*https://www.crestron.com/Products/Featured-Solutions/AV-Framework*

### Hardware Products

#### Control and AV Products utilized in this system shall be supported by a single web-based configuration software utility.

*Specifier Note: Please see the following link for a list of supported hardware:*

*https://www.crestron.com/Products/Featured-Solutions/AV-Framework*

### Configuration Software Utility

#### Software shall support the following:

##### System configuration through web browser, specialized software shall not be required.

###### A Configuration guide and help information shall be available within web browser screen.

##### System Configuration shall include:

###### Source setup

###### Display setup

###### Setup of user interface devices by same manufacturer

Manufacturer shall provide multiple user interface options.

*Specifier Note: The following user interfaces are supported: TSW-series 7 inch and 10 inch touch screens as well as various button panels.*

###### HTML5 Based User Interfaces

###### Setup of supported AV switching devices by same manufacturer

###### Setup of supported USB extender devices by same manufacturer

##### Security Requirements:

###### Secure access through full user/group management or Active Directory integration

###### Hardware level security using 802.1X authentication

###### TLS, SSL, SSH, and SFTP network security protocols

##### Deployment

###### A single configuration file shall be network deployable to multiple rooms.

# **EXECUTION**

*NOT USED in this Guide Specification. Specifier shall Specify PART 3 On-Site work as needed.*

# **APPENDICES**

## **SUPPORTED CONTROLLER PRODUCTS**

*Specifier Note:*

*This Article includes supported Crestron controller products.*

*This Article is for reference only and should not be required in actual project manual unless included in an overall system equipment list.*

*The products listed include built-in .AV Framework functionality. The Specifier shall select a controller device for the system being specified.*

*Specifier Note: Please see the following link for additional information on supported products:*

*https://www.crestron.com/Products/Featured-Solutions/AV-Framework*

### Crestron AV4

### Crestron MC4

### Crestron DIN-AP4

### Crestron Virtual Control

### Crestron AM-3200

### Crestron AM-3100

### Crestron DMPS3 Series

### Crestron MPC3-101

### Crestron MPC3-102

### Crestron MPC3-201

### Crestron MPC3-302

### Crestron RMC3

### Crestron RMC4