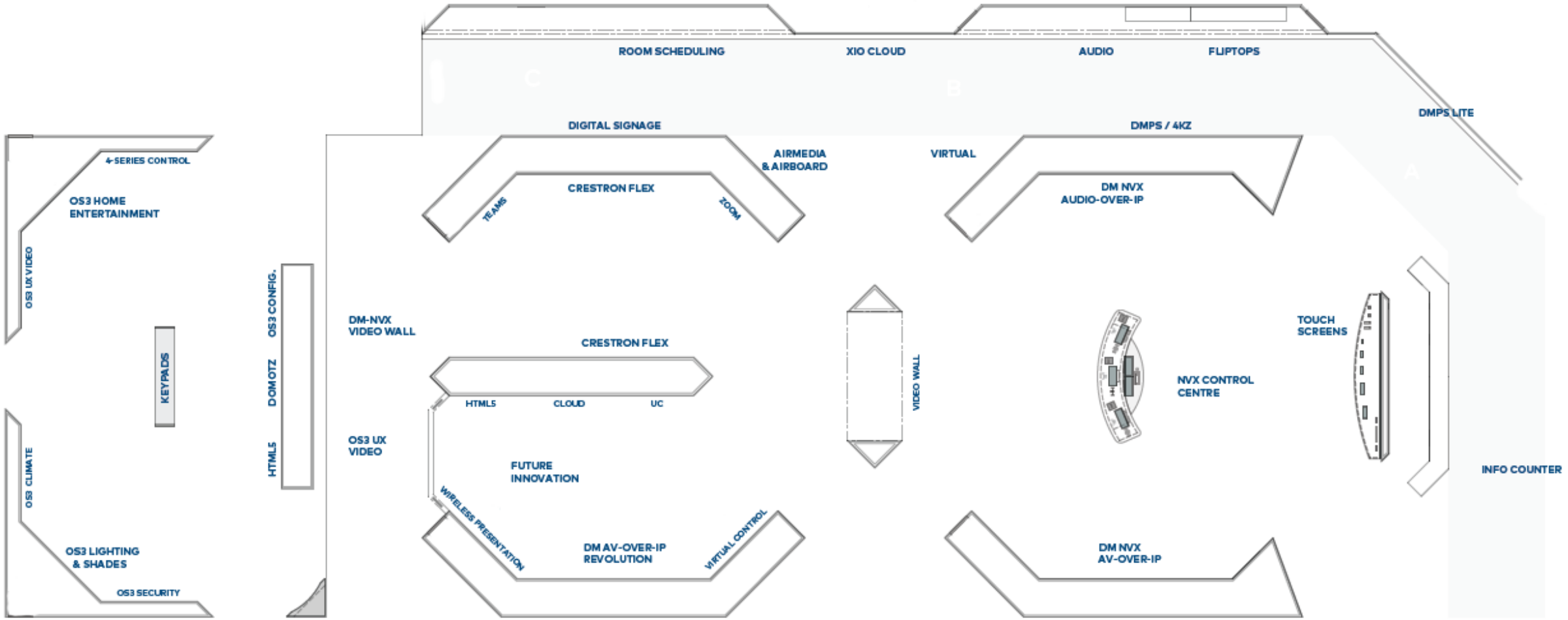
Crestron New Technology Showcase

Hall 2
Stand C20

Hall 2 Stand C20

CRESTRON

Hall 2 Stand C20



Hall 2 Stand C20

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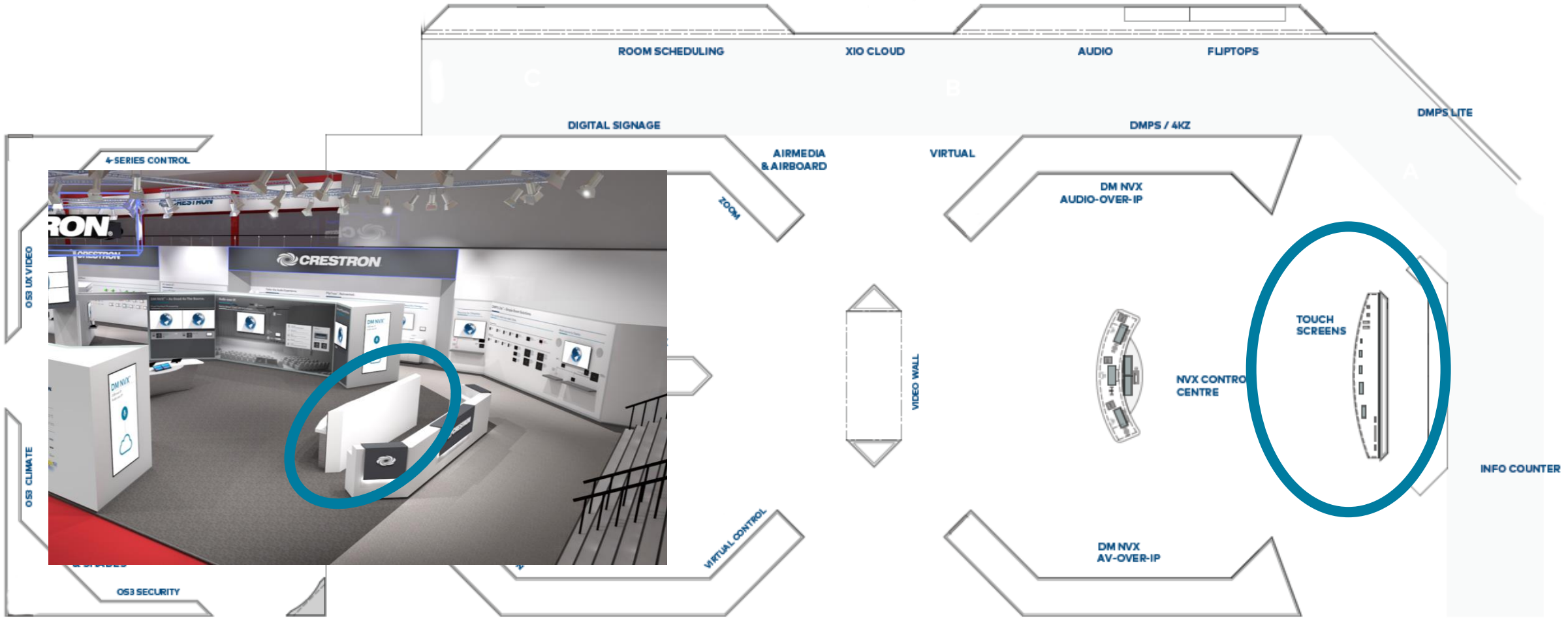
The future of Touch Screens

Hall 2 Stand C20

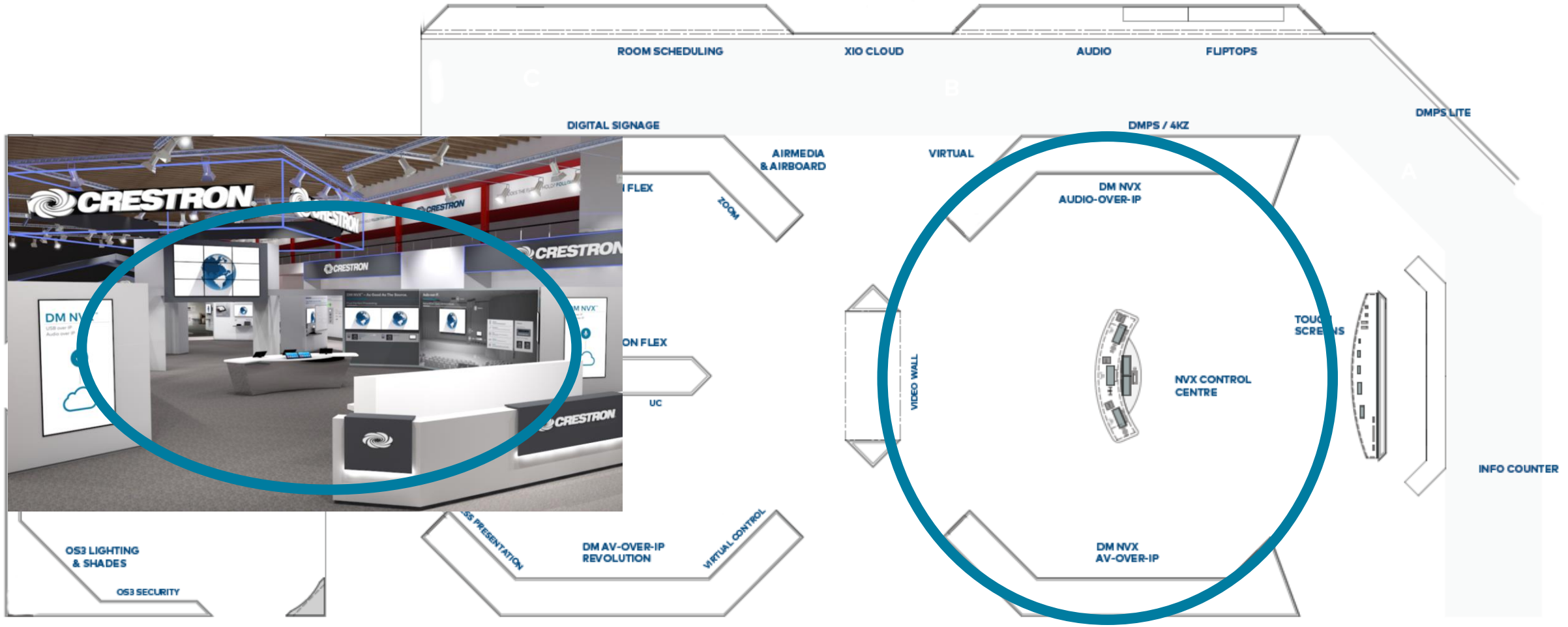


TSW Touch Screens with CSS / HTML 5

- Create rich, dynamic user interfaces
- Faster and easier to deliver custom experiences using standard programming languages
- Programmers can focus on their specialties: front end or back end
- Available Spring 2020

Flexible. Scalable. Secure.

Hall 2 Stand C20



New DM NVX® Firmware

AES67 Firmware

- Every DM NVX® model
- AES-67 is an interoperability standard for Audio over IP
- Provides both 2CH transmit and receive capabilities to allow for routing flexibility
- Available Summer 2020 as a free firmware update

The New Alliance.

DM-NVX-D80-IoAV

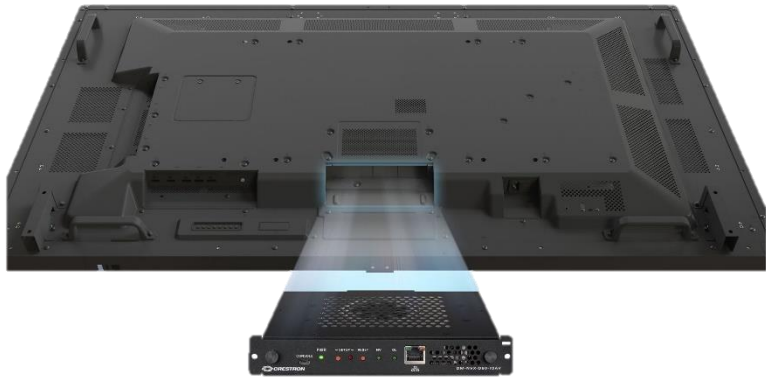
Designed to fit into an OPS slot, makes any compatible display into an DM NVX® receiver.

DM NVX®

DM-NVX-D80-IOAV

4K60 4:4:4

- Compatible with the Intel® Open Pluggable Specification (OPS)
- Seamless integration with OPS-supported displays.
- Supports HDR10 and HDCP 2.2
- 7.1 surround sound audio
- USB 2.0 and KVM signal extension and routing
- Device controller via RS-232, CEC, Ethernet



CRESTRON

Ethernet USB Extenders

USB-NX2-LOCAL-1G

- Extends and routes any USB 1.1 or 2.0 device across an Ethernet network or point-to-point over one CAT5e
- Provide reliable, high-speed USB signal extension for most USB 1.1 or 2.0 devices
- Enable USB signal routing under the control of a Crestron control system or DigitalMedia™ system
- Compatible with the USB over Ethernet Extenders with Routing (USB-EXT-DM-LOCAL and USB-EXT-DM-REMOTE) and DM NVX®
- No drivers required with Windows®, macOS®, or Linux® operating systems

CRESTRON

Ethernet USB Extenders

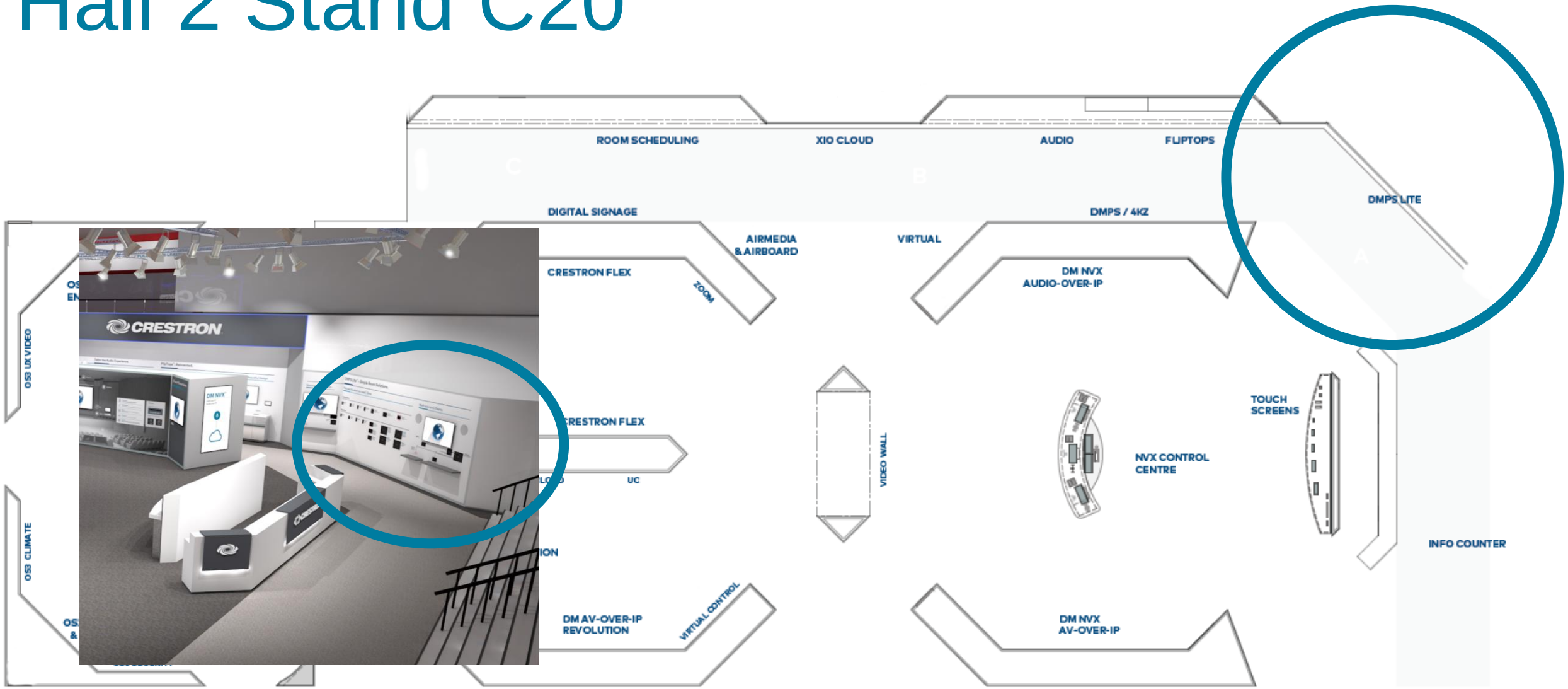
USB-NX2-REMOTE-1G

- Expandable using up to 4 USB hubs (not included)
- Provide 4 USB Type A ports for USB devices
- 100-240 VAC power supply (included) or Power over Ethernet (PoE)
- Expand upon the USB-HID routing capabilities of a DigitalMedia™ system without additional wiring
- Add USB host or device ports to any DM® transmitter, receiver, or switcher
- USB local (host) or remote (device) endpoint sold individually for maximum flexibility

CRESTRON

Mix. Match. Build.

Hall 2 Stand C20

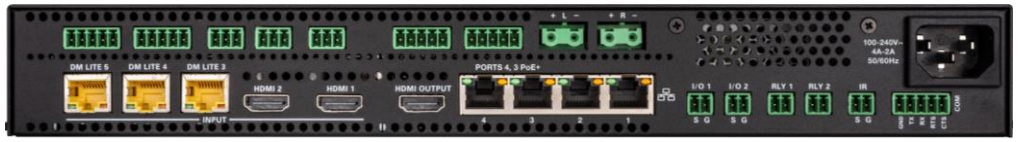


Multi-format DMPS Lite™ Switching Receivers

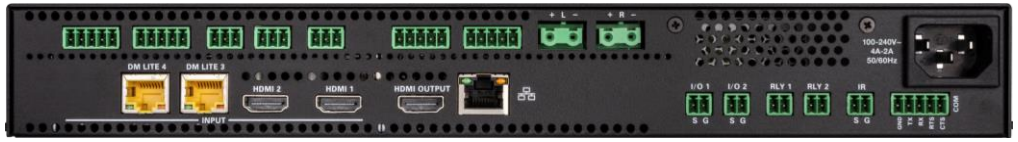
New 4K Multi-format DMPS Lite Switching Receiver Options

HD-RX-510-C-E-4K

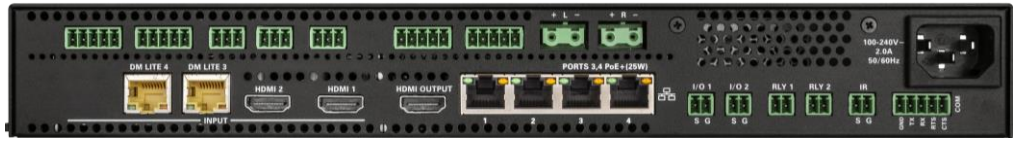
HD-RX-510-C-E-SW4-4K



HD-RX-410-C-E-4K



HD-RX-410-C-E-SW4-4K



- 2 or 3 DM Lite™ Inputs
  - Provides power to transmitter
- 2x HDMI® Inputs
- HDMI® output with 4K Scaler
- SW4 Option adds 4-Port Ethernet Switch with POE+ Ports (2)
- Various control ports – COM, IR, Relay, I/O
- 2x Line Inputs
- 1x Mic Input
- Built-In 25W Amplifier

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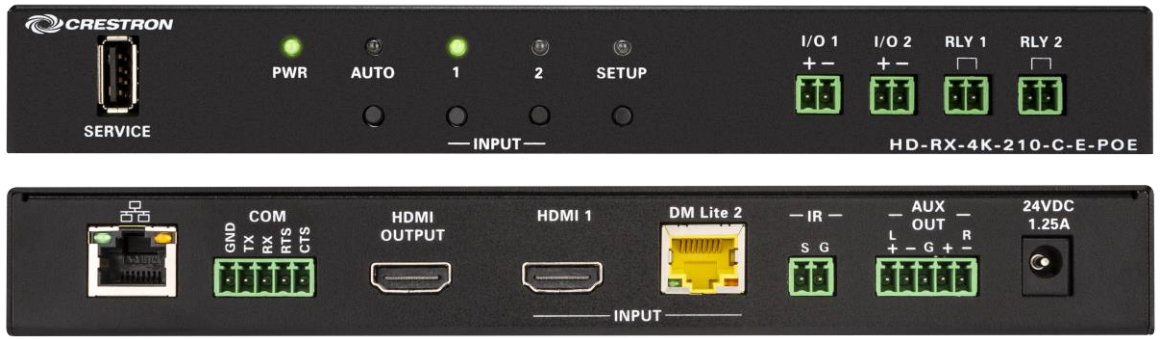
HD-RX-4K-210-C-E



4K-scaling DM Lite receiver with 4K60 4:2:0 support

- Improved network connectivity
- Crestron XiO Cloud™ support
- Full CIP integration
- Interoperable with current and future DM Lite products

1 HDMI® and 1 DM Lite Inputs

Various control ports – COM, IR, Relay, I/O

Built-in scaler with ability to bypass when necessary

FlipTops™ Reinvented.

CRESTRON

Hall 2 Stand C20

Two versions: Active or Passive

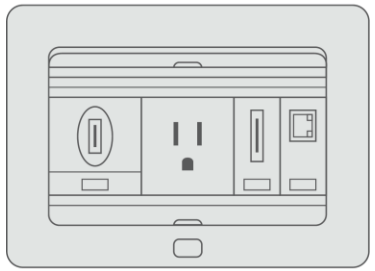
Active FlipTop™

Supports USB-C™ charging modules, one-touch or vertical gravity retractors, and all active 4K connector plates. All labels are backlit.

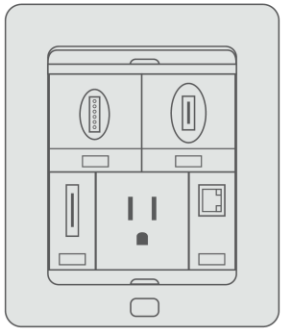
Passive FlipTop™

Supports AC power, basic pass-through cables, flush-mount connectors in keystone plates, and vertical gravity retractors.

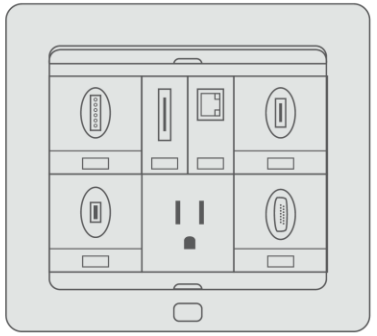
FT2 FlipTops™ come in a variety of sizes for any installation



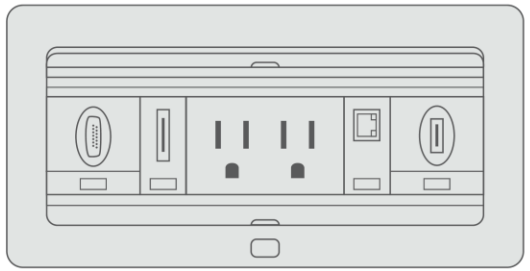
FT-202
(7” W x 3.25” D)



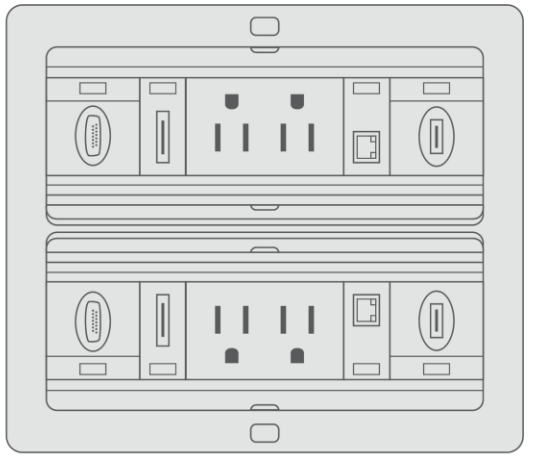
FT-500
(5.75” W x 5.75” D)



FT-700
(7.125” W x 5.75” D)



FT-1200
(10” W x 4” D)



FT-1400
(10” W x 6.75” D)

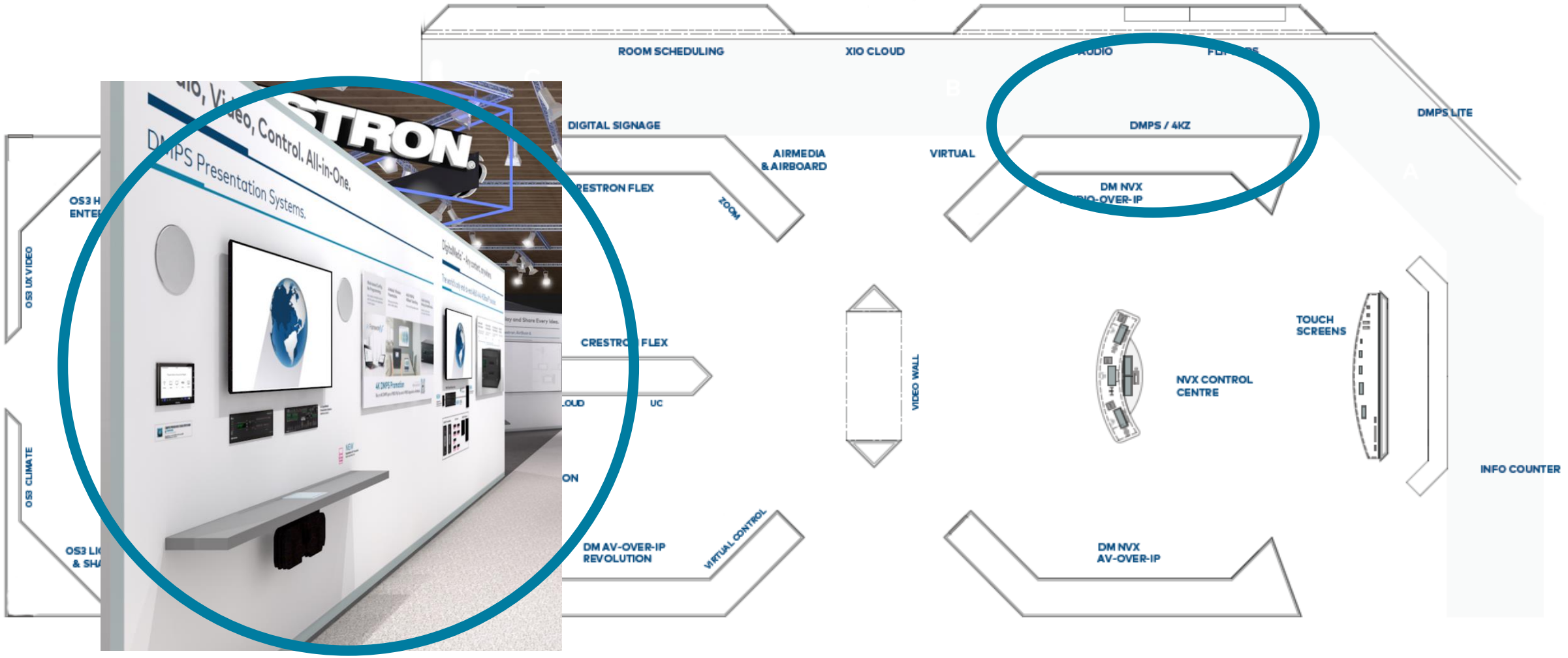
International Power Modules

Provides one or two power outlets at the surface of the FlipTop™

- Active and Passive
- Requires two, three, or four slots
- **Available for:** Australia /NZ/China, European Schuko, France/Belgium, Israel, Italy, Switzerland, UK, Universal

Upgrade and Evolve

Hall 2 Stand C20



DigitalMedia™

Current DM 8G+® products

- DM® switchers
- Presentation systems
- Endpoints

- Upgrade to current standards just by adding new cards/endpoints.

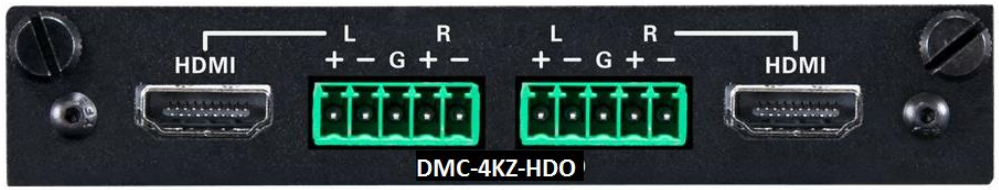
CRESTRON

DIgitalMedia™

What's new to DM?

- DMC-CPU3
  - Crestron XiO Cloud™ service provisioning
  - Enhanced 3-series® security protocol support
- 4KZ
  - DM-RMC-4KZ-SCALER-C
  - DMC-4KZ-HDO

- Employs VESA Display Stream Compression to support resolutions beyond 4K60 4:2:0 and HDR
- Fully compatible with existing chassis and cabling
- Same price as existing product!



DIgitalMedia™

What's new to DM®?

- DigitalMedia™ 4KZ Single Gang Transmitters
  - DM-TX-4KZ-100-C-1G-W-T
    - 4KZ Single-Gang Transmitter, White
  - DM-TX-4KZ-100-C-1G-B-T
    - 4KZ Single-Gang Transmitter, Black
- Features :
  - HDCP 2.2 compliance
  - Device control via CEC, IR, and RS-232
  - Powered via the DM® connection or local power pack (included)
  - USA backbox
  - Decorator-style faceplate and surface-mount bracket included

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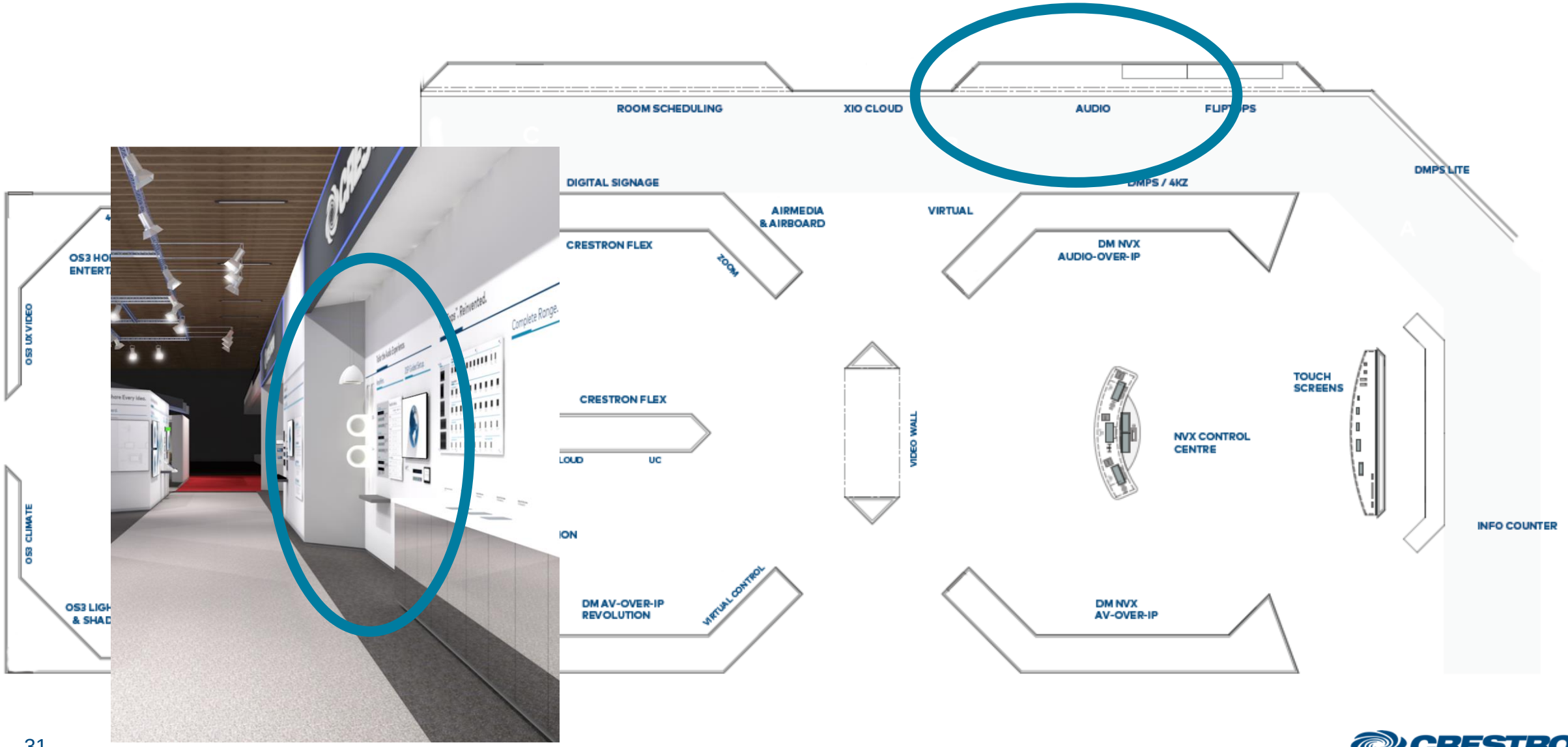
Tailor The Audio Experience

Hall 2 Stand C20



Commitment to commercial audio

Saros® Ceiling Speakers

Saros® Surface Mount

Saros® Pendant

Saros® Powered Soundbar

Modular Amps

Digital Signal Processors

Networked Install Amplifiers

Vector™ Performance Loudspeakers

AMP-X Series Media Presentation Amplifiers

AMP-X300

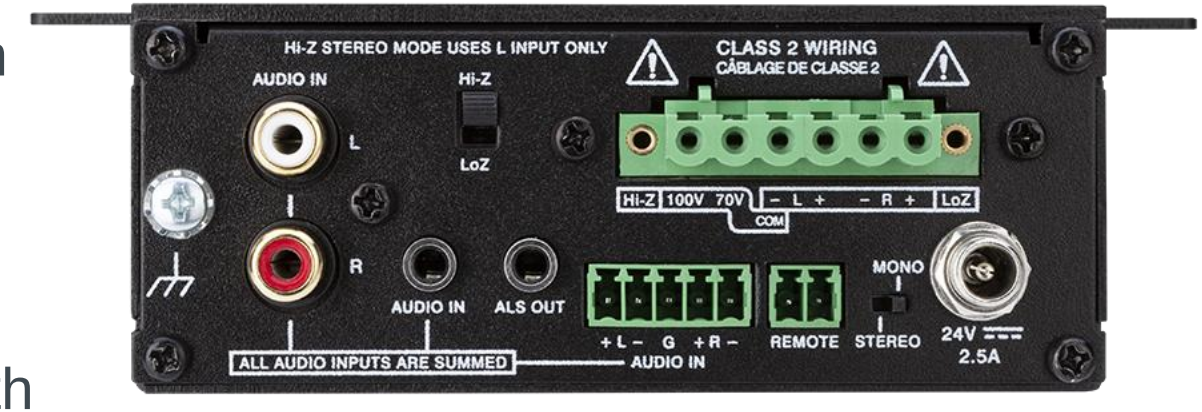
- ENERGY STAR® certified power amplifier
- 1 RU high design is surface or rack mountable
- Half-rack width form factor, gangable with other next generation half-rack width form factor products
- LoZ (4/8 Ω) and Hi-Z (70 V or 100 V) operation
- Configurable for 4 x 75 W output, 2 x 150 W output, and 2 x 75 W + 1 x 150 W (bridged) output

CRESTRON

AMP-X Series Media Presentation Amplifiers

AMP-X50MP

- 2 x 25 W per channel (1 x 50 W) into 4 or 8 Ohm speakers
- 1 x 50 W output for Hi-Z (70 V and 100 V) speakers
- Balanced, unbalanced, and stereo 3.5 mm inputs with auto summing
- Stereo or mono-summed operation
- Remote power control
- Highly sensitive audio-sensing circuitry with high-speed wake time



Crestron Avia™ 2.0 Software

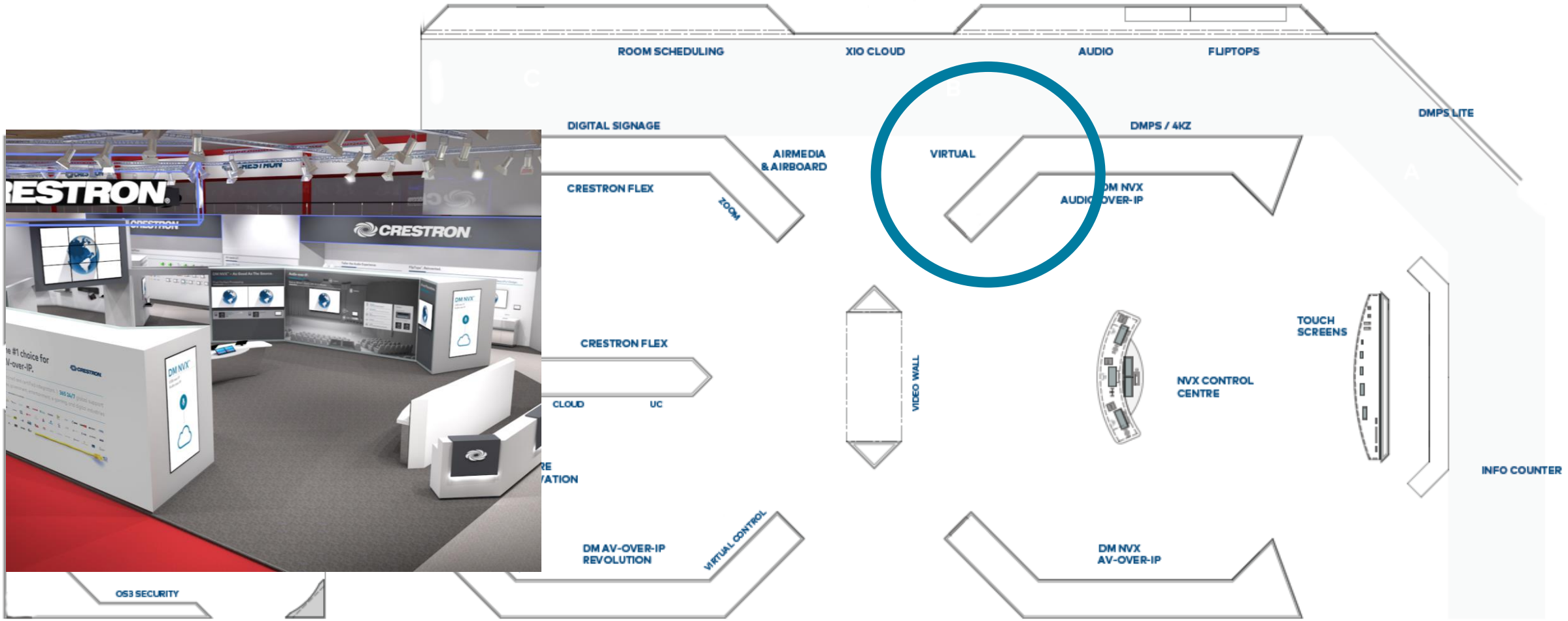
- New guided experience – simplify installation
- Input and output device definitions
  - Microphone libraries
  - VC / UC Codec connections
  - Speaker libraries
  - Output connections
- No longer need an expert to achieve great sound
- Crestron is committed to pro audio

Avia

CRESTRON

Deploy. Configure. Repeat.

Hall 2 Stand C20



Crestron Virtual Control: Next Generation Systems

Crestron
VIRTUAL CONTROL

Crestron Virtual Control: Control System on a Server Specs

Runs on Linux® operating system via virtual or physical machine

- Deployed as a Linux server application into the customer's IT infrastructure (no different from installing any other web server)
- Automatically configure and update all rooms running single code base
- Inbound device connections, rather than outbound
- More scalable: less network traffic and overhead

Fully managed from Crestron XiO Cloud™ service

Setup Options

Supports .AV Framework configuration-based systems (no programming)

Displays as switchers

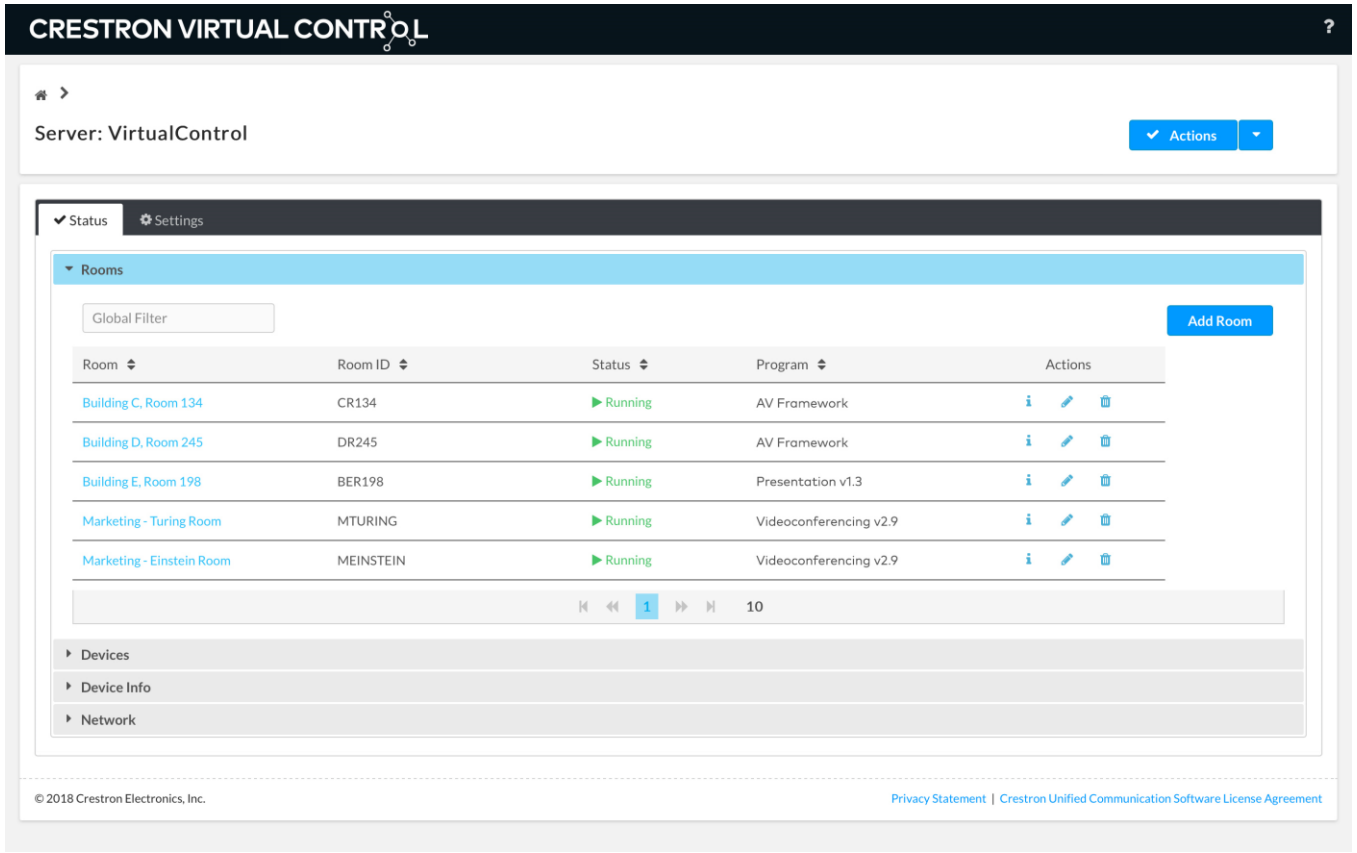
Crestron Certified Drivers

Custom programming available

Native C# (SIMPL#)

- Works with any version of Microsoft® Visual Studio® integrated development environment

RESTful-API for open development/integration with other applications



.AV Framework

Deploy simple, scalable room solutions

- Web-based configuration and deployment
- Add a TSW-X60 Series touch screen and automatically generate the GUI for single or multiple display systems
- UI guide explains how easy touch screen pages are to use

CEN-IO Wireless Ethernet Devices

New Wi-Fi™ models

- CEN-IO-COM-202: 2 x RS-232/485
- CEN-IO-RY-204: 4 x Relays
- CEN-IO-IR-204: 4 x IR
- CEN-IO-DIGIN-204: 4 x Digital Input

Place IO ports anywhere

- 5v PSU supplied

Great combination with VC-4

- Provides security for non-secure devices!

Supports multiple control system connections – shareable across rooms

CRESTRON

CEN-IO Wired Ethernet Devices

Available models

- CEN-IO-COM-102: 2 x RS-232/485
- CEN-IO-RY-104: 4 x Relays
- CEN-IO-IR-104: 4 x IR
- CEN-IO-DIGIN-104: 4 x Digital Input

Place IO ports all over the LAN

- PoE

Great combination with VC-4

- Provides security for non-secure devices!

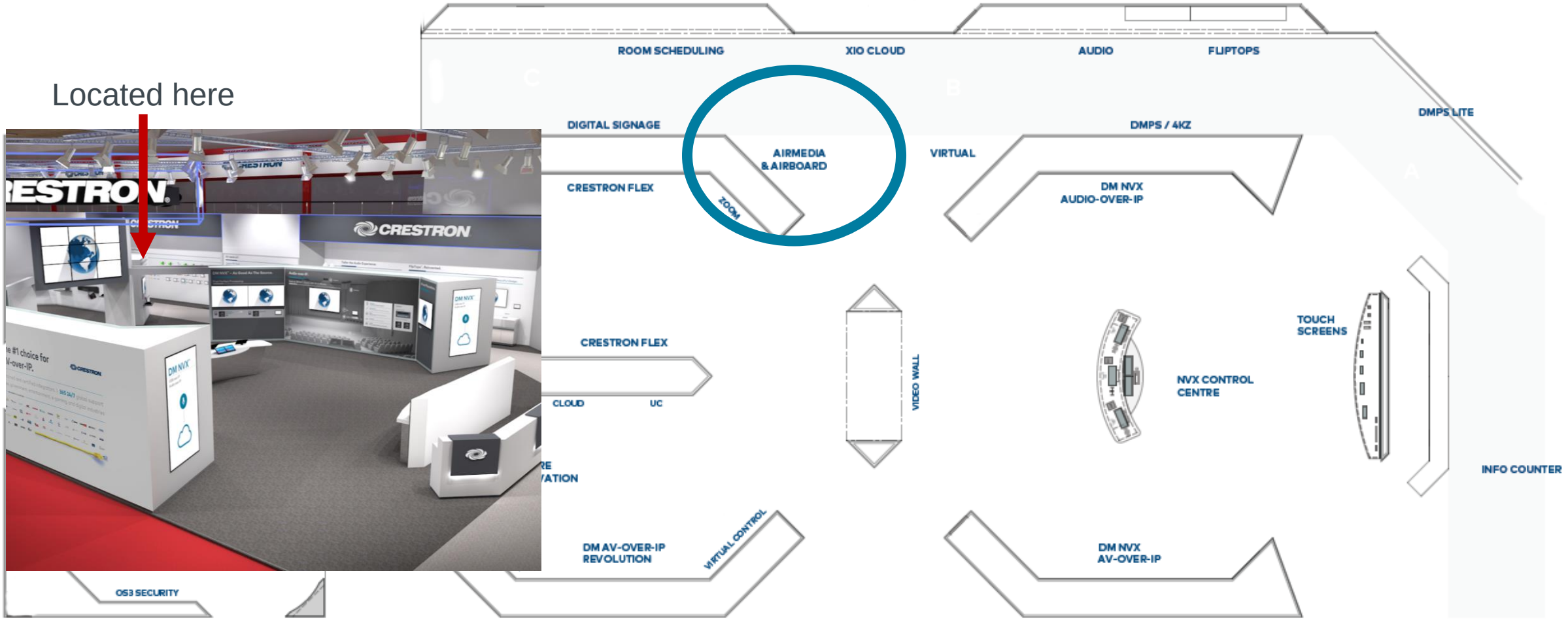
Supports multiple control system connections – shareable across rooms

CRESTRON

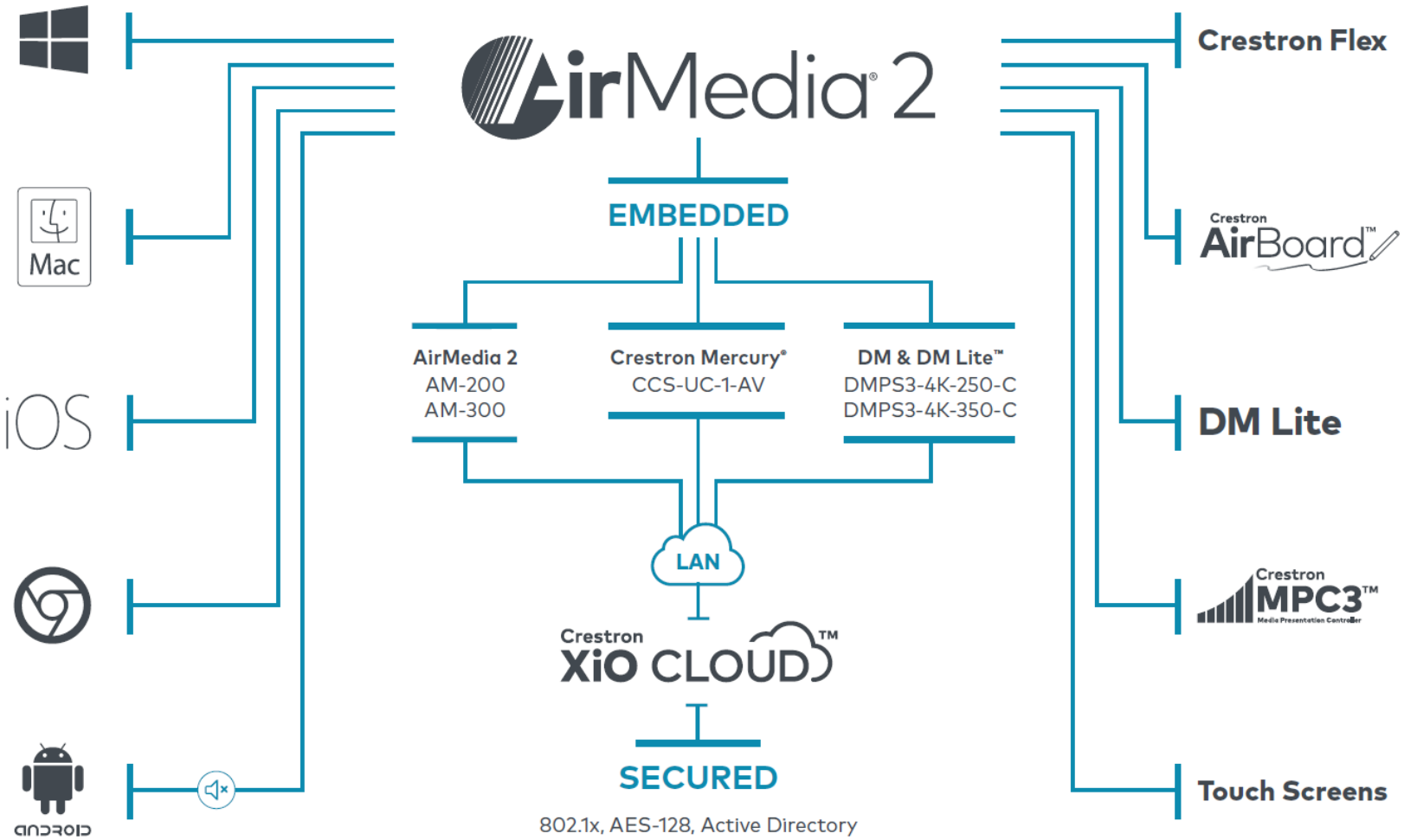
Present, Capture, Display and Share Ideas - Wirelessly

Hall 2 Stand C20

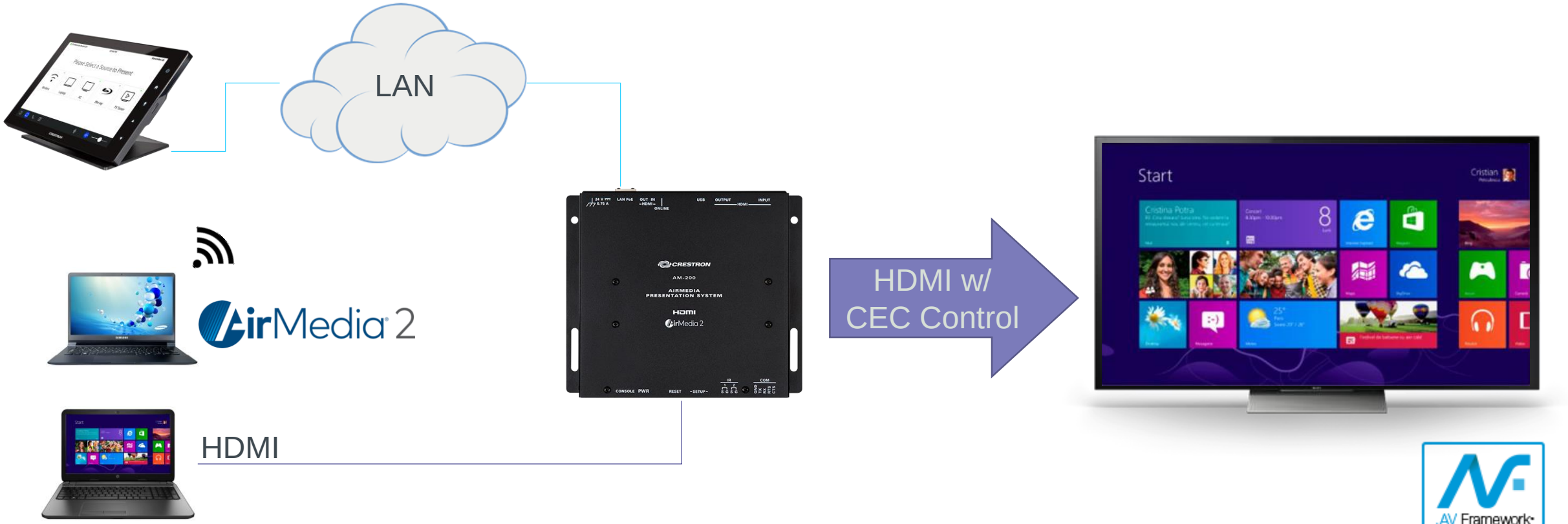
Located here



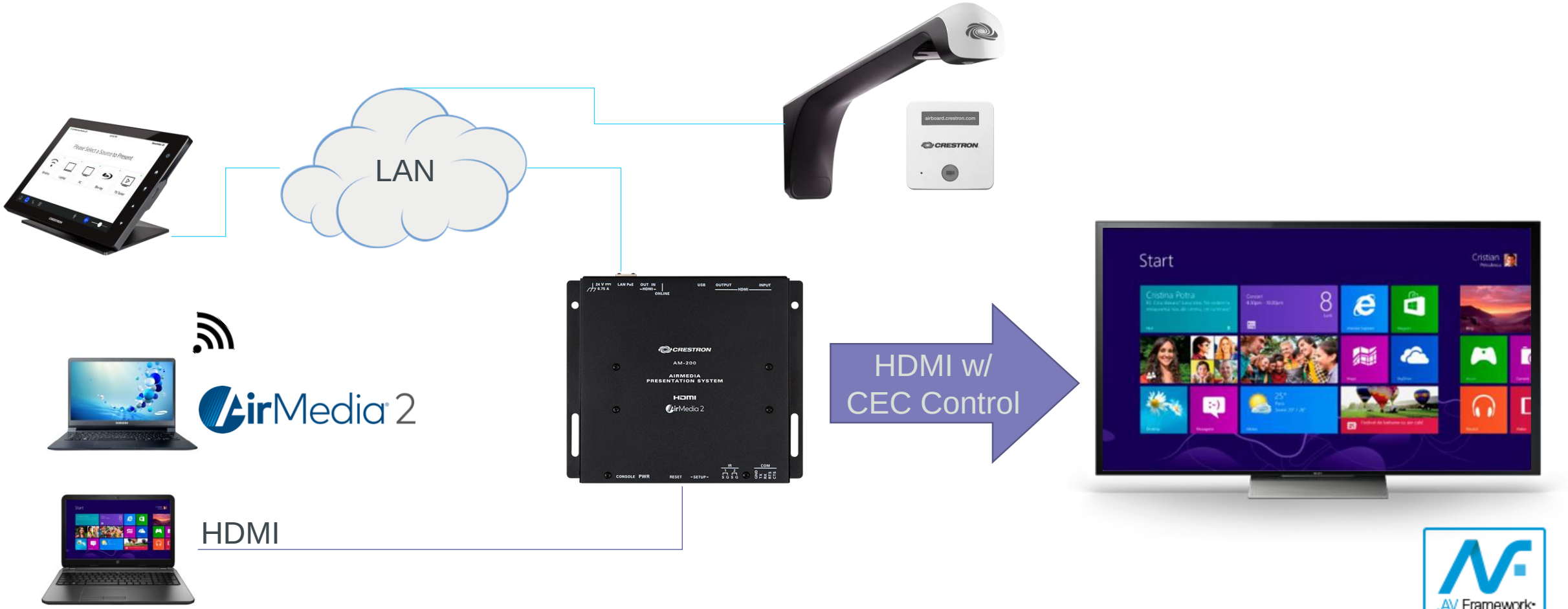
One Experience. One Platform. One Ecosystem



AirMedia® Room Solutions



AirMedia® Room Solutions – Add Crestron AirBoard™



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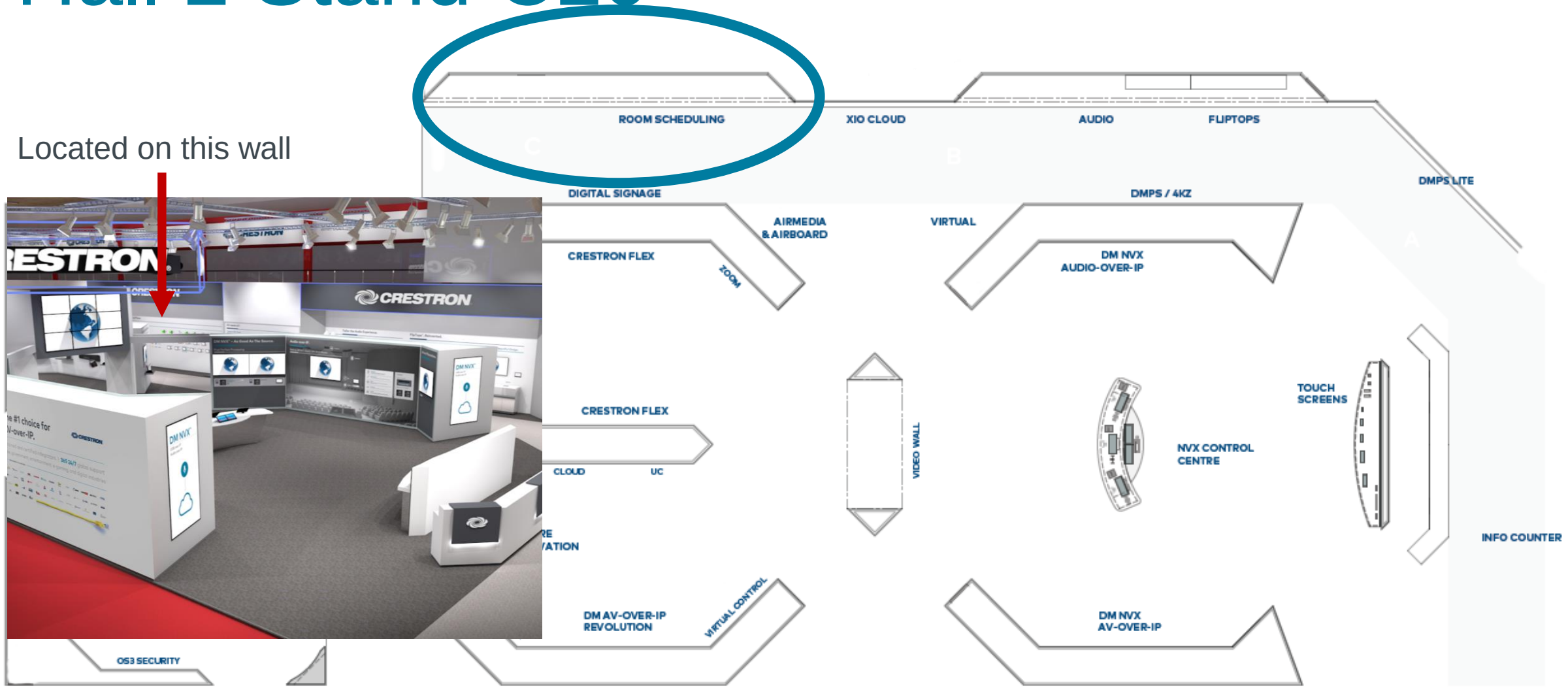
Connecting People, Information and Places

Hall 2 Stand C20

Located on this wall



Crestron Room Scheduling

Enterprise-grade hardware for any scheduling workflow

Crestron scheduling panels provide a full range of scheduling providers all from one unified hardware platform, including directly connecting to popular calendar providers, Crestron Fusion®, and a variety of partner applications

Direct Connect Calendars

Simple scheduling without expensive, complicated software

Crestron scheduling panels connect directly to:

- Microsoft Exchange Server®
- Google® G Suite™ (Calendar)
- Microsoft® Office 365®
- AdAstra
- CollegeNET®

Room Scheduling Screens

Built on the TSW-x60 platform

Crestron scheduling runs on top of the existing TSW-560/760/1060, so it has all of the security and management applications you already expect from them, including:

- Active Directory® integration
- 802.1x authentication
- PoE+ for power and communication
- Secure management via web UI or cloud provisioning
- Secure mounting options for a variety of surfaces

Room Scheduler Accessories

Illuminated signage makes it easy to find meeting rooms

Choose the form factor that fits your aesthetic

Direct connection via USB

No programming required!

Touch Screen Light Bar
7” (TSS-7-LB) **or**
10” (TSS-10-LB)

Room Availability Status Indicator – Wall Mount
SIW-100

Room Availability Hallway Sign – Wall Mount
SSW-100-EL or SSW-102-EL

Room Availability Hallway Sign – Ceiling Mount
SSC-100-EL - SSC-102-EL

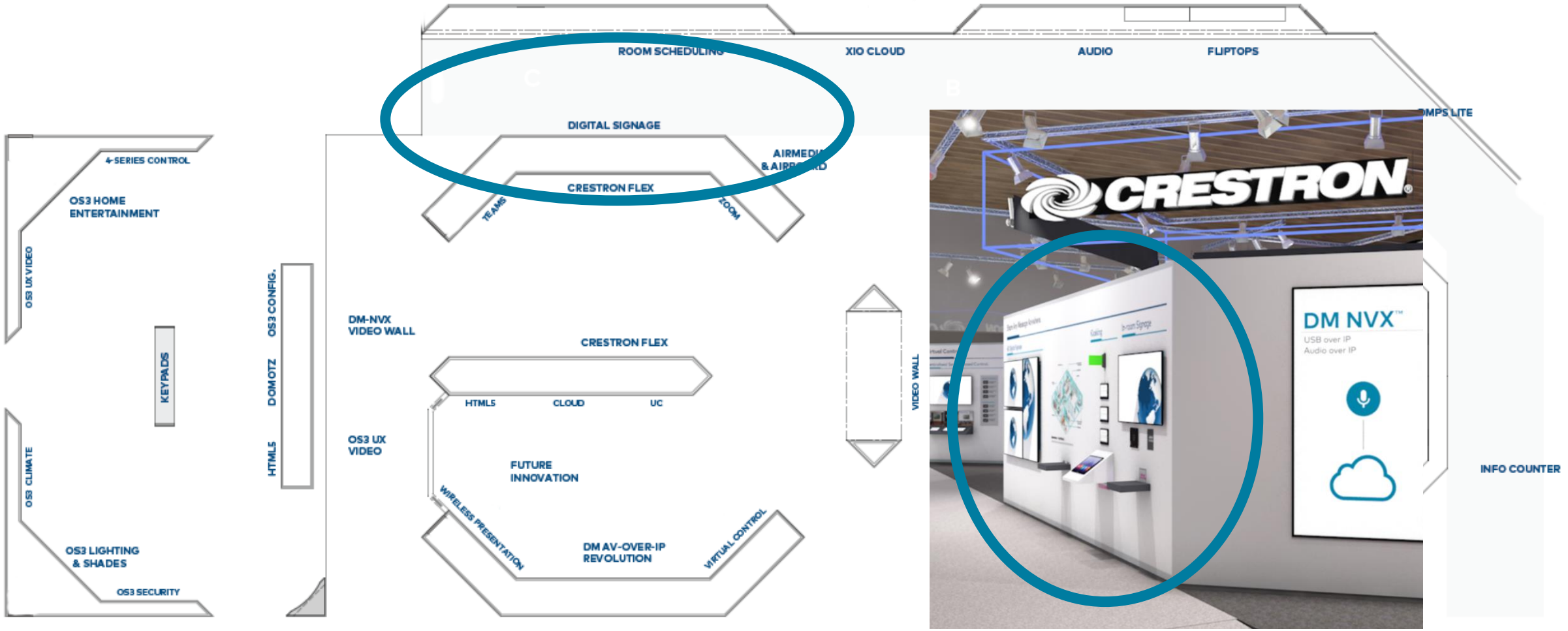
102 models include custom engraving

CRESTRON

Native Partner Scheduling Applications

Share Every Message Anywhere

Hall 2 Stand C20



CRESTRON

APPSPACE

Digital Signage – NME-100 Network Media Endpoint

New Enterprise Digital Signage Player

- Designed to be placed behind a display and run 24/7
- Simple plug ’n play connectivity
- Works within Crestron’s XiO Cloud™ for deployment and zero touch deployment
- Integration with Appspace® to create stunning presentations with full motion content
- 1080p, built-in 16GB storage, and expandable with microSD card

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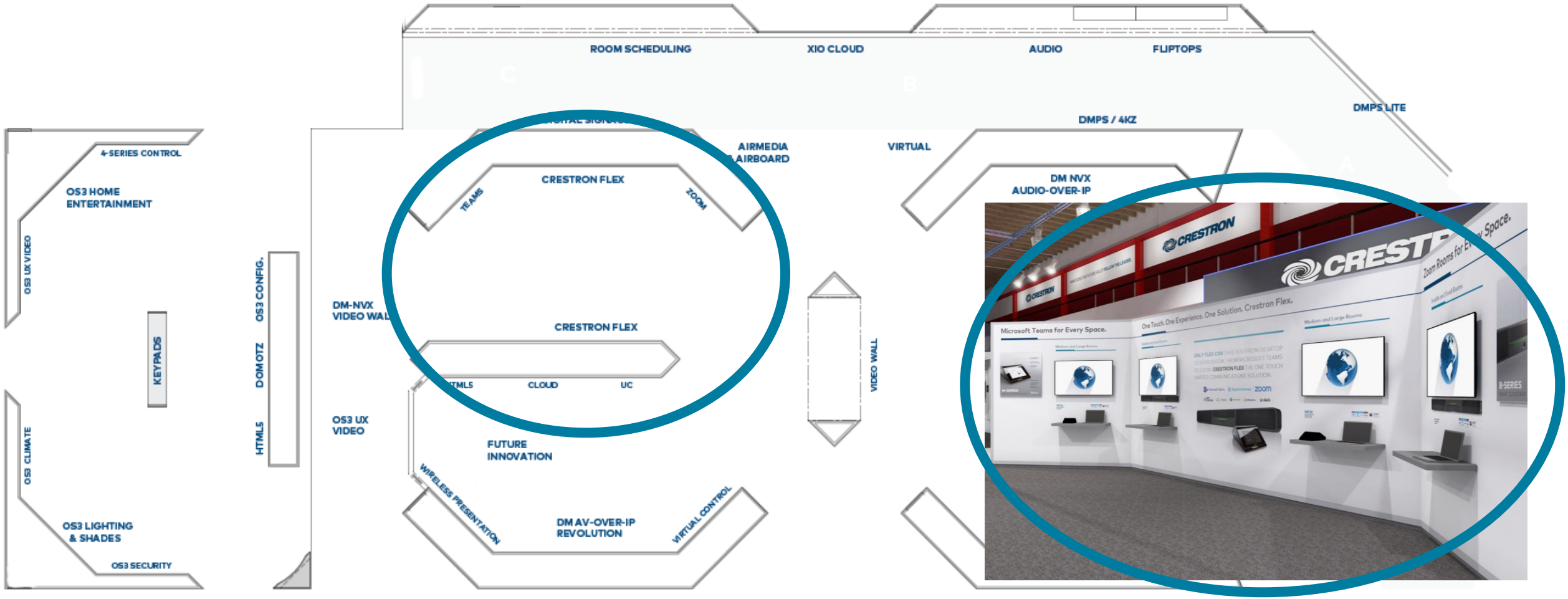
Unified Communications. Unlocked

Hall 2 Stand C20



CRESTRON

Crestron Mercury® for Open UC

Provides a complete video conference room solution for open-platform UC applications.

Enables exceptional full-duplex wideband audio conferencing, speakerphone, video conferencing, BYOD multimedia presentation, content sharing, and web collaboration capabilities — all through one amazing tabletop touch screen console.

zoom

amazon Chime

GoToMeeting

slack

cisco WebEx

cisco Spark

Atlassian HipChat

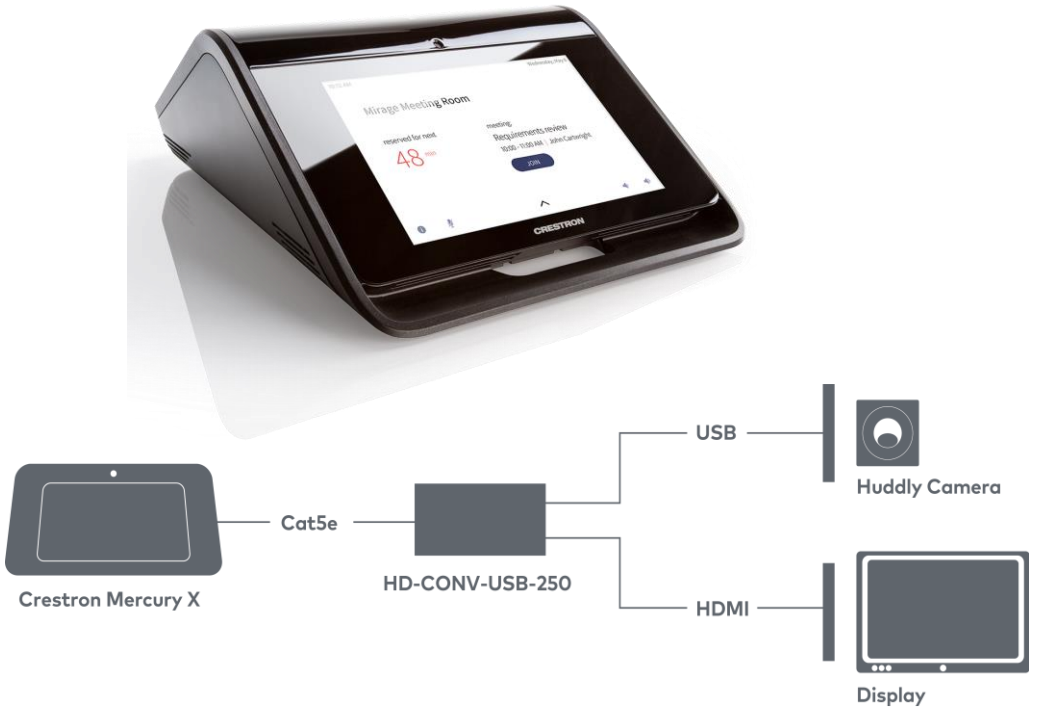
BlueJeans

CRESTRON

Crestron Mercury® X

Next-generation Mercury® device

- Latest evolution of tabletop meeting and collaboration solutions
- Single-cable connectivity facilitates installation
- Allows the use of native platforms like Microsoft Teams or Zoom Rooms – but also supports BYOD on same device
- The complete kit contains the Crestron Mercury® X Tabletop Console, CCS-CAM-USB-F-400 camera, HD-RX-USB-2000-C, cables, and power supply



Crestron Flex UC Engine

- Mounts behind the display for simple installation
- Runs Skype for Business, Microsoft Teams, and Zoom natively
- One touch meeting join
- Appliance Grade PC Running Windows 10 Embedded
- Provisioned through Crestron XiO Cloud

Microsoft Teams Skype for Business zoom

CRESTRON

Crestron MX-150 Tabletop Solution

Bring BYOD conferencing to native Microsoft Teams or Zoom Rooms

- Call, collaborate, present and video conference with one touch, or connect your laptop via USB and meet with your preferred collaboration software
- Bring the flexibility to standardize on Microsoft Teams or Zoom, while still supporting other platforms when needed
- Simplify installation with one CAT5e cable from the tabletop to the front of room
- Includes 1-year of Crestron XiO Cloud™

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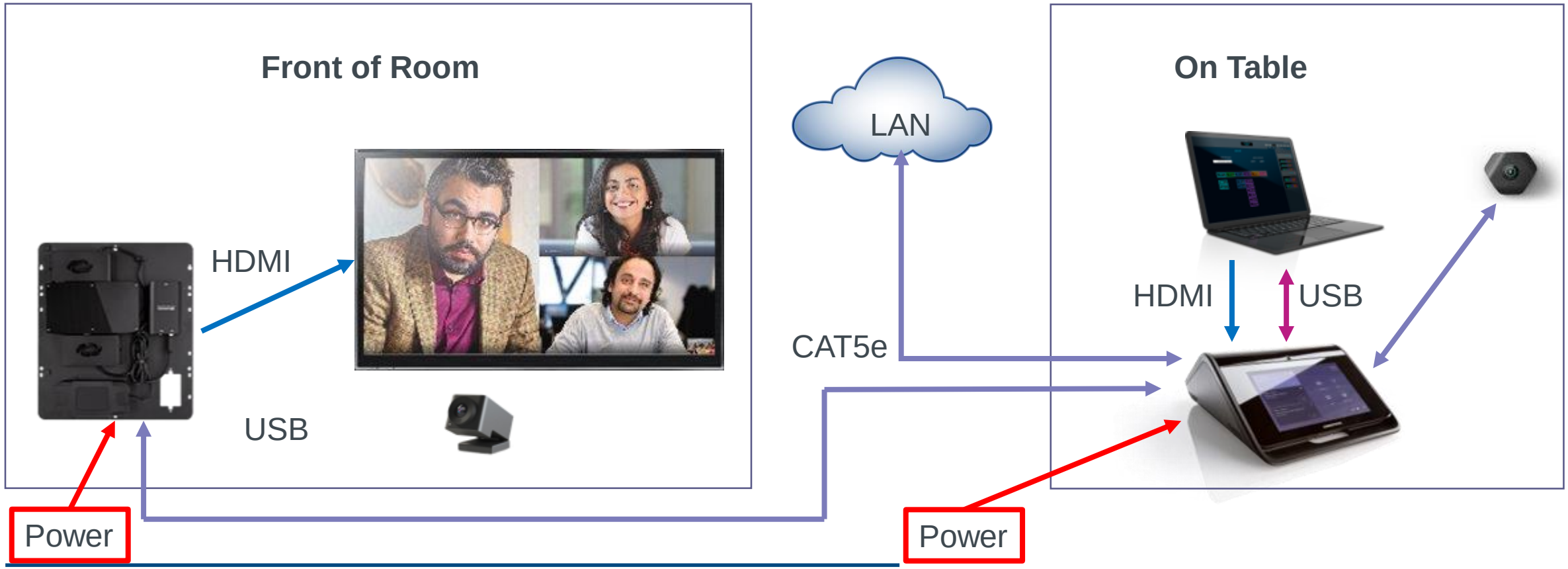
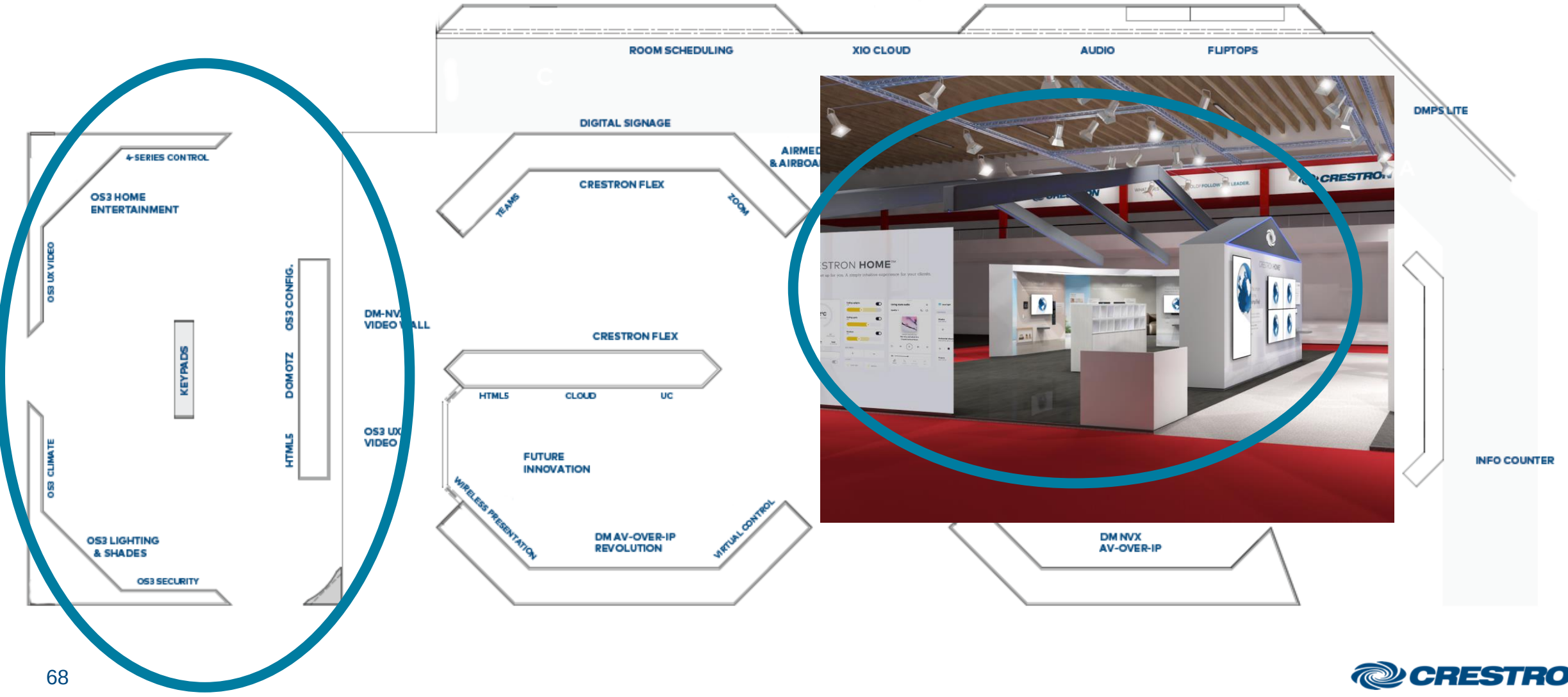
Crestron Flex Large Meeting Room Deployment

MX150 – native Teams or Zoom Rooms with BYOD



Brand New User Experience

Hall 2 Stand C20



CRESTRON HOME™

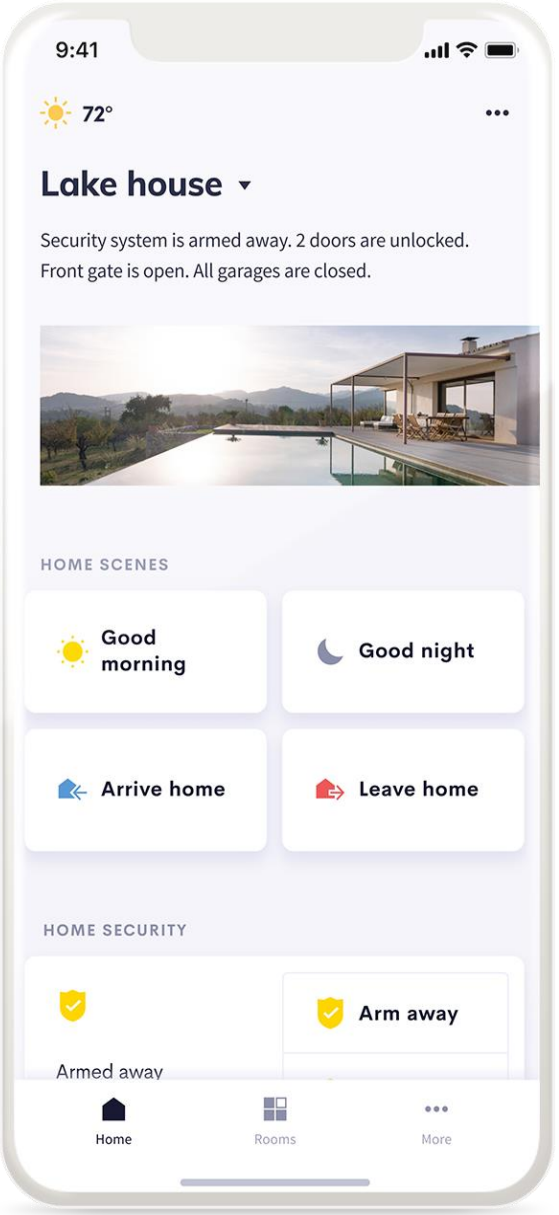
What is Crestron Home

Crestron Home unlocks the full potential of a smart home. It provides dealers with the ability to deliver a simple and clean user interface that includes sophisticated page designs; fluid dynamic room controls and icons, including support for multiple homes, favorites, custom access, room image customizations, and more.

The user experience redesigned from the ground up

Easy to configure and deploy.

Simplified Easy-to-use User Interface that customers love.

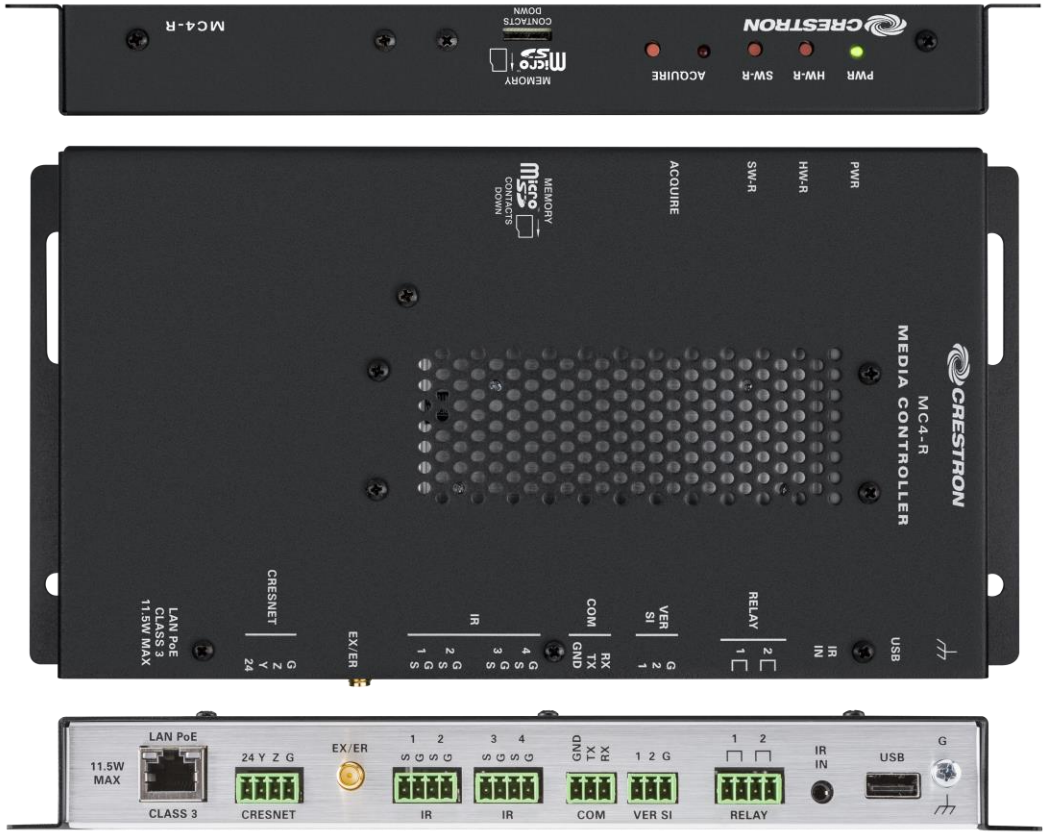


CRESTRON

Introducing the MC4-R-I

MC4-R – Media Room Controller

- Great price and small form factor
- Built in gateway and Plenty of I/O
- Powerful processor, running Full OS3 Operating System
- Application: Small to Medium size home, MDU Single-Room “Starter” systems.
- Upgrade via myCrestron Cloud



MC4-R-TSR-I

Crestron Home 4-Series Media Room Controller with TSR-310, International

- Provides a MC4-R-I control processor and interface for use with Crestron Home™.
- A TSR-310 handheld touch screen remote is also provided for system control.

MC4-R-HR-I

Crestron Home™ 4-Series Media Room Controller with HR-310, International

- Provides a MC4-R-I control processor and interface for use with Crestron Home™.
- A HR-310 handheld remote is also provided for system control.

Crestron Home™

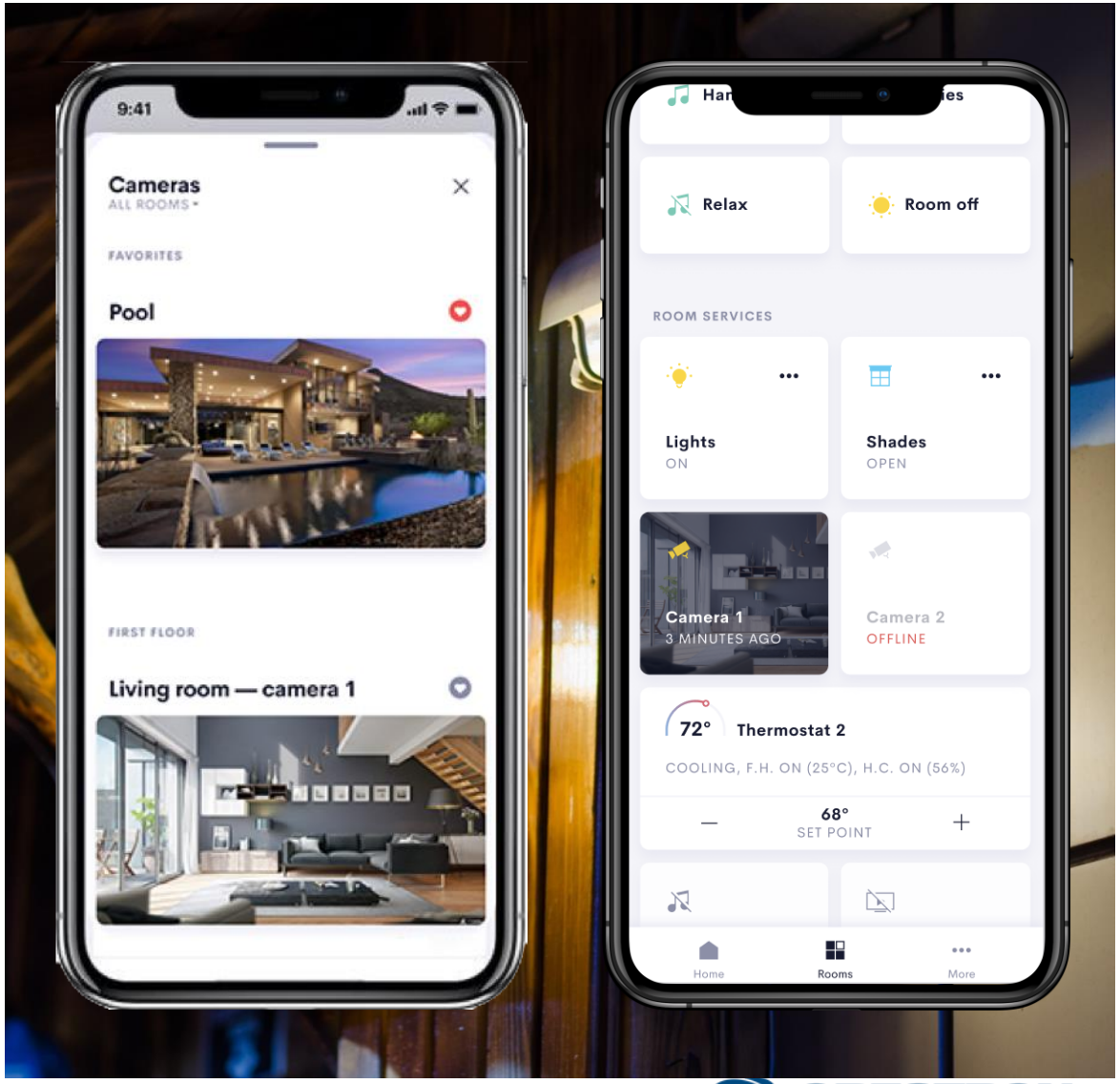
Added support to Media Routing to support DM® Transmitters

- Added support for DMC-4KZ-C
- Added support for DMC-4KZ-C-DSP
- Added support for DMC-C
- Added support for DM-TX-4KZ-100-C-1G
- Added support for DM-TX-4K-100-C-1G
- Added support for DM-TX-4KZ-202-C
- Added support for DM-TX-4KZ-302-C
- Added support for DM-TX-4KZ-202-C
- Added support for DM-TX-201-C
- Added support for DM-TX-401-C
- Added support for CLX-2DIMFLV8-277
- Added support for CLX-2DIMU8-277

CRESTRON

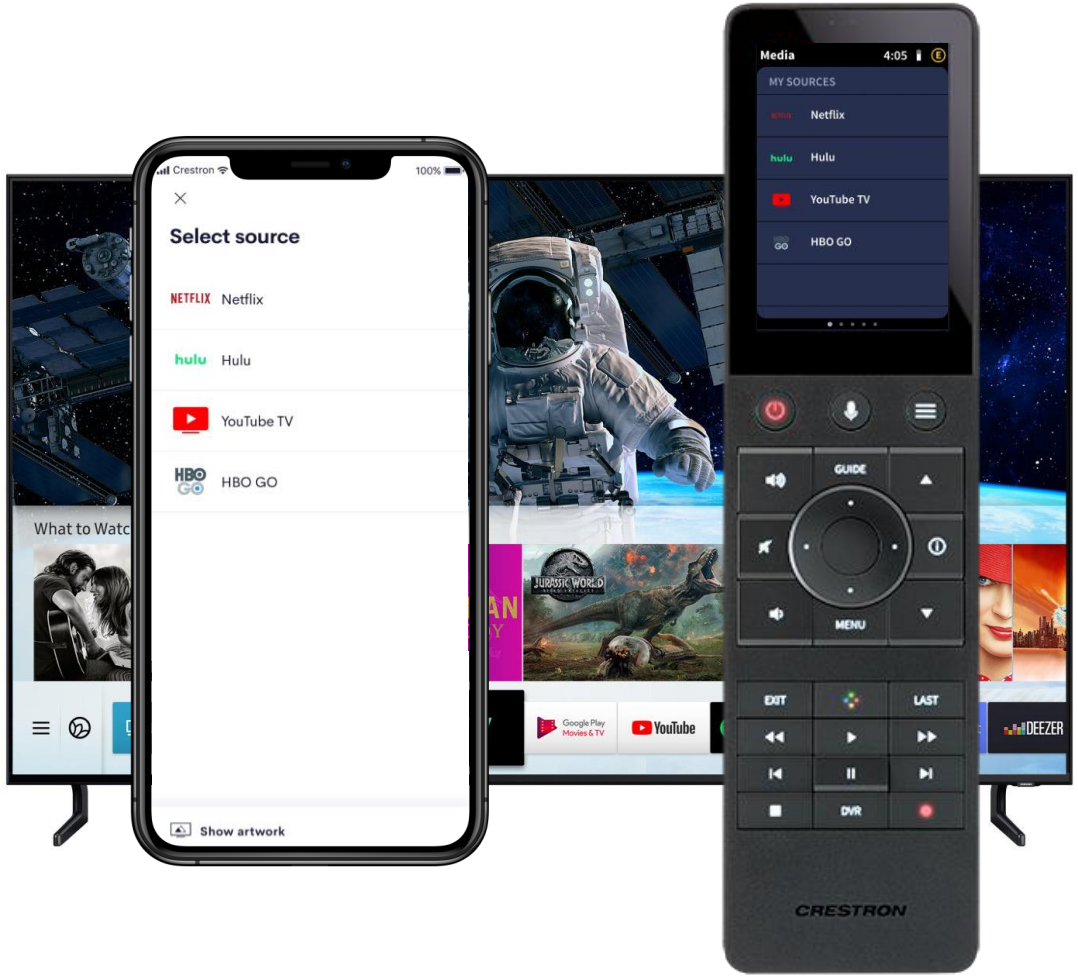
Security Camera Support

- Easy access to all ONVIF-compliant security cameras
  - Also, a custom URL camera can be added for cameras are not 100% ONVIF compliant
- Access all cameras in a convenient list with a consistent User Experience
  - Similar to rooms, they can mark most used cameras as favorites



Improved Smart TV Support

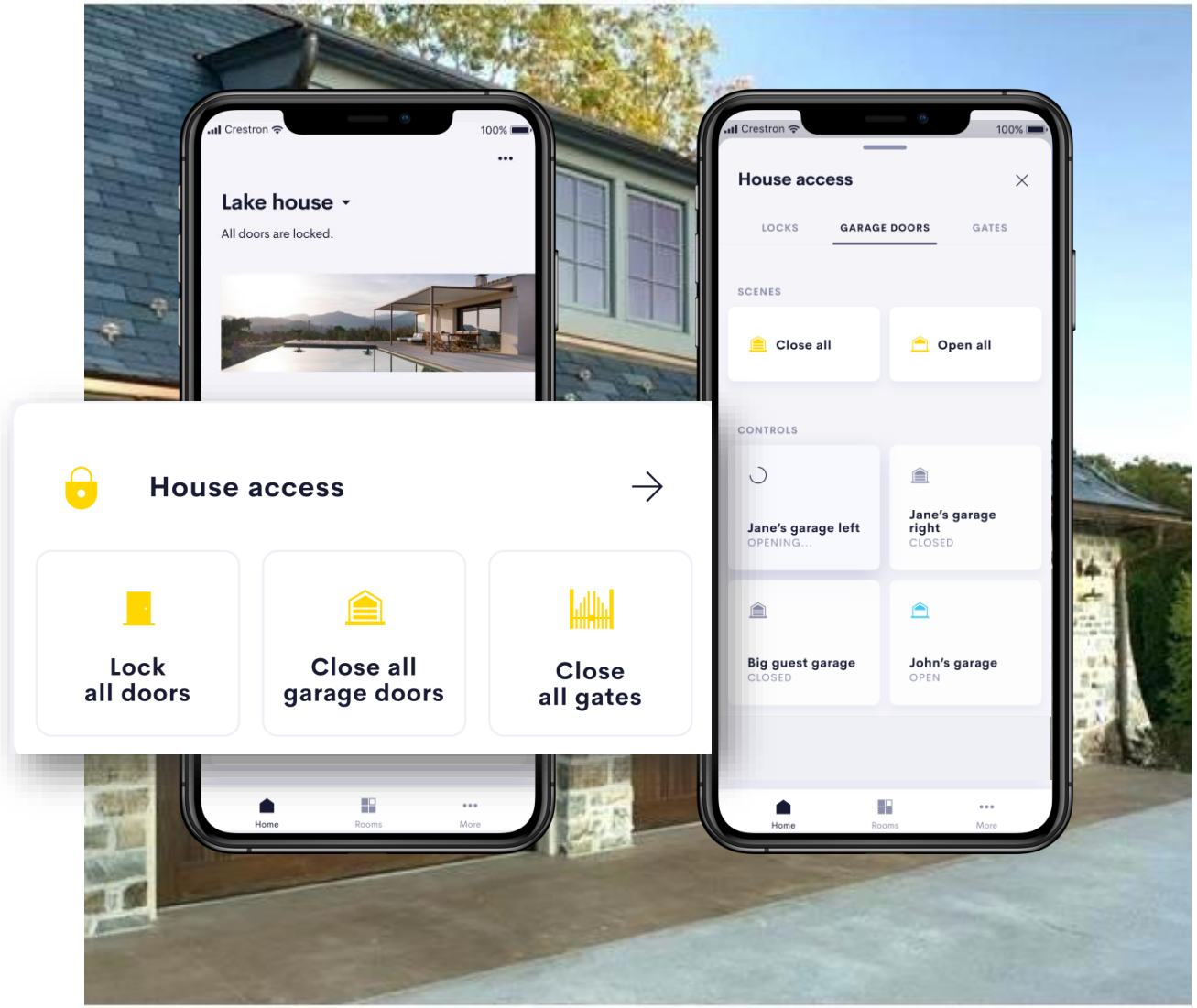
- We have added Smart TV functionality to our device drivers
- Includes direct access to streaming apps
  - Via source list on touchscreen, mobile, and TSR-310
  - Via custom buttons on HR-310 or HR-150
  - Via Quick Actions & Media Scenes



CRESTRON HOME™

Improved Door/Gate Access

- Improved UX for control of:
  - Garage Doors
  - Gates
  - Door Locks



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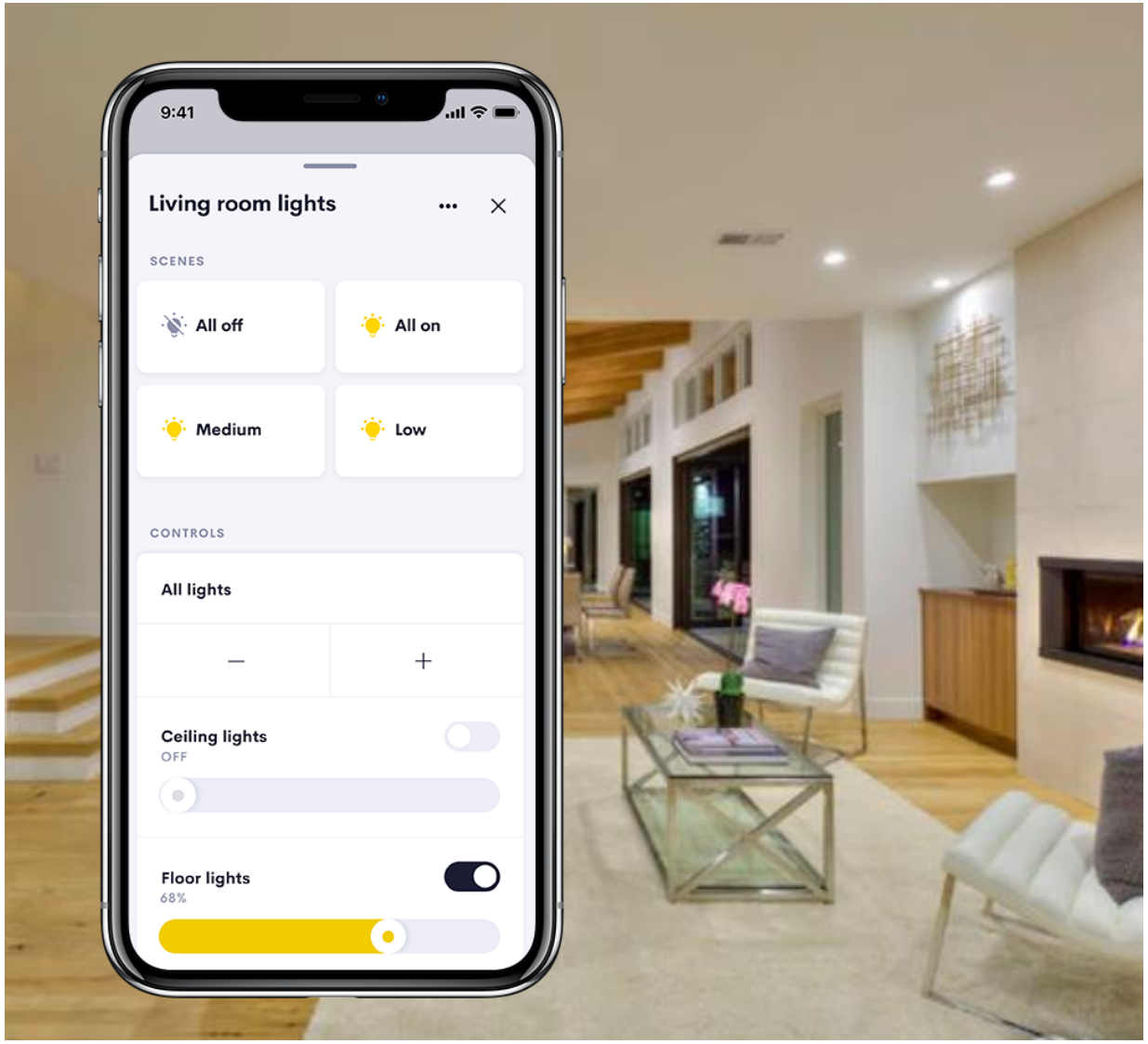
Crestron Home Partners

LUTRON®

WORKS WITH

CRESTRON HOME

- Auto-discovery of rooms, keypads, and lighting and shade loads
- Remote button presses from Crestron to Lutron®
- Remote button presses from Lutron® to Crestron
- Seamless integration into the Crestron Home™ user experience
  - Includes individual load control



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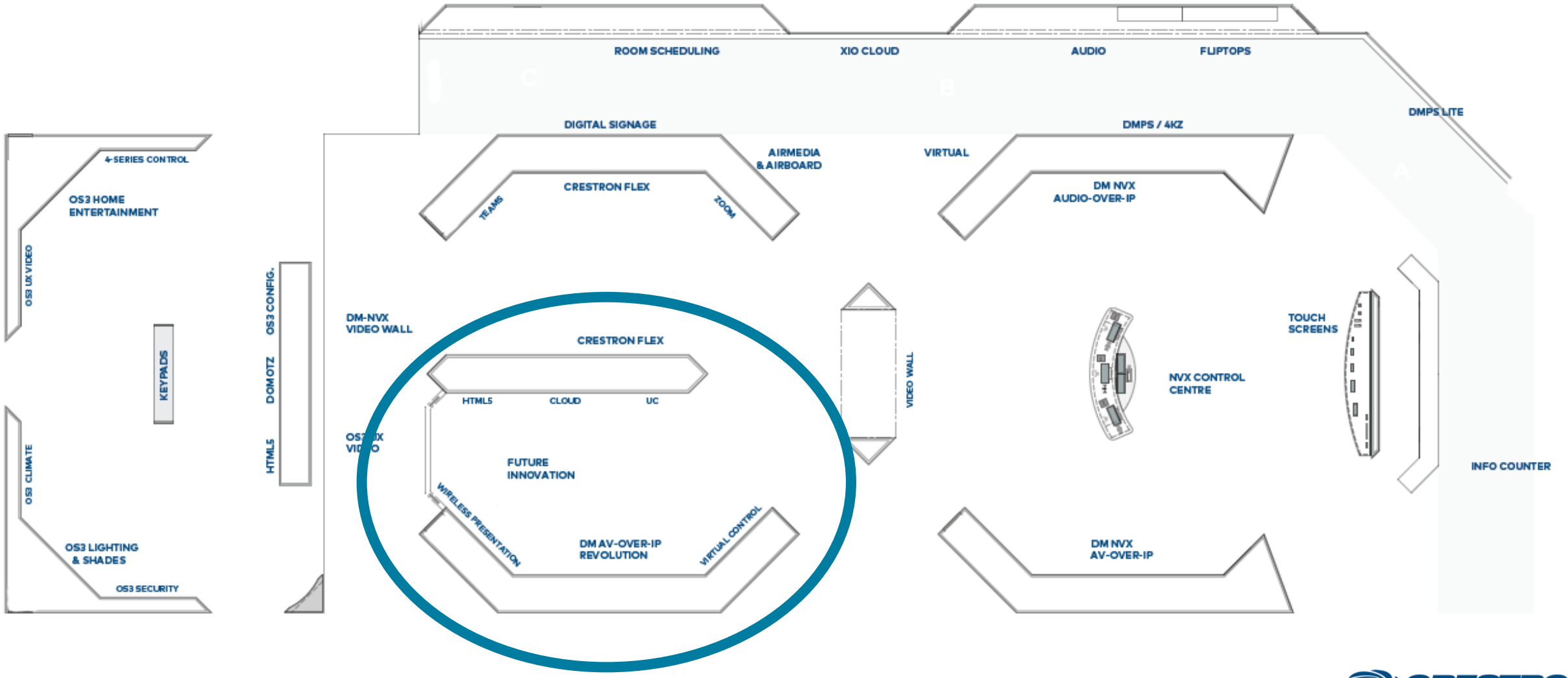
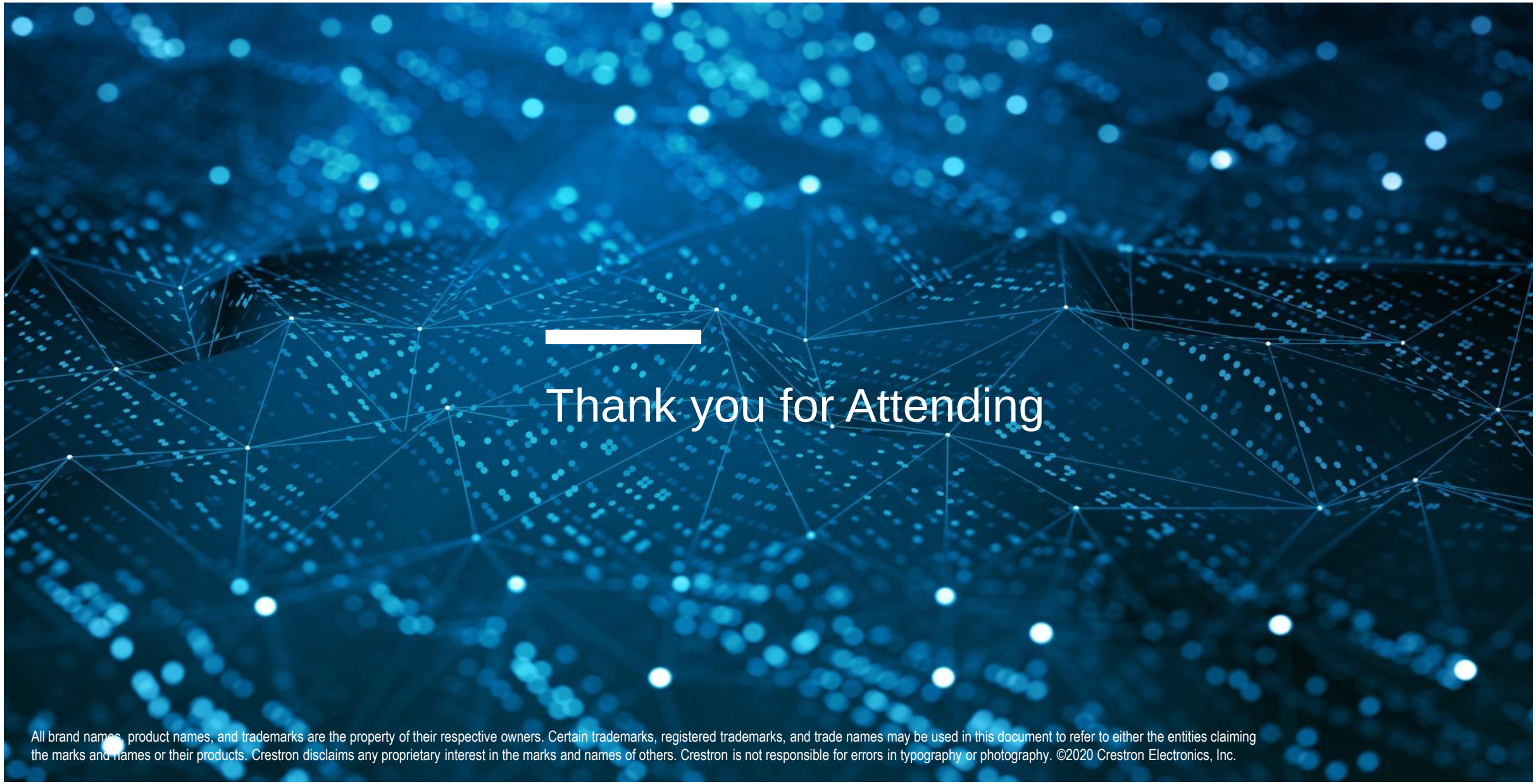
What does the future hold?
Follow the Leader
FUTURE INNOVATION
CRESTRON
Next generation integration
// HTML5 and beyond
First class cloud management for 3rd party devices
CRESTRON

Hall 2 Stand C20





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Hall 2
Stand C20