Divisible Workspaces

CoE Blueprint for Pro Series Microphones

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What is a “Divisible Workspace”?

Commonly referred to as:

- Training Rooms
- Flex Spaces
- Split / Combine Spaces
- Briefing Rooms

Usually two, three, or four identical spaces located beside each other with **removable** or **collapsable** walls

Common for divisible rooms to also be used as Executive / Board spaces and for Town Halls

Divisible Workspace Blueprint

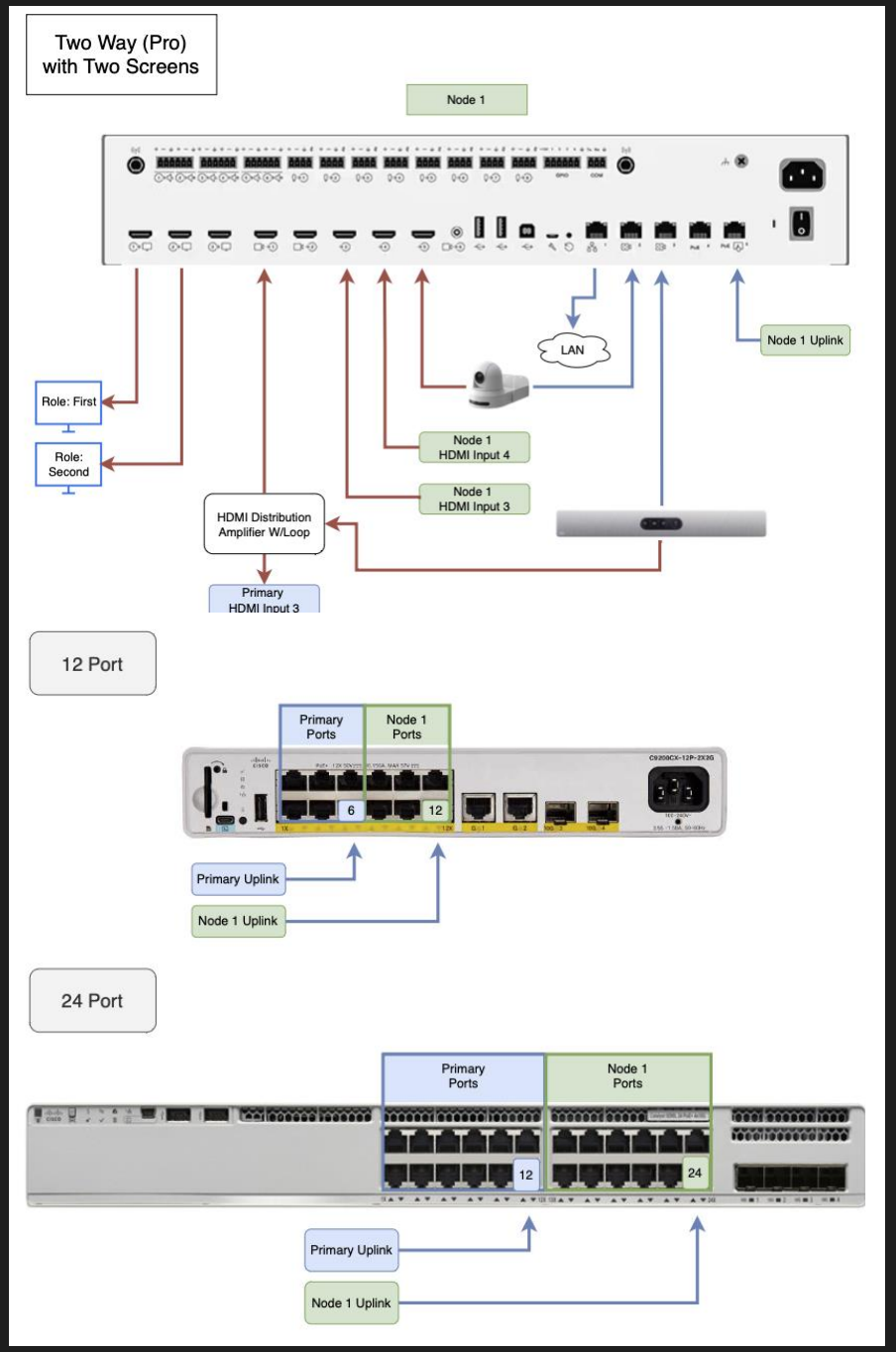
Leverages Cisco Pro Series Microphones, Catalyst Switches and Cisco Video Devices to provide a simplified, easy to deploy, scalable blueprint for Divisible Workspaces.

We support Two-Way and Three-Way designs!

All the documentation available on GitHub:
http://cs.co/dwsblueprint

Join the “Community” Space:

https://eurl.io/#nakTe_Vn3



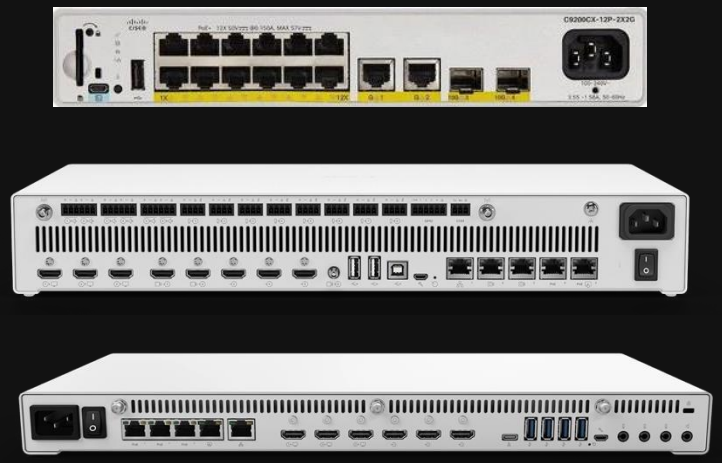
What's Different?

No Macro Interaction / Knowledge Required

The blueprint provides a simplified deployment where the administrator does **not** need to configure Macros at all!

Versatile Deployments

Repeatable, scalable offerings with tested reference designs based on select switch and codec combinations.



Built for Cisco IP Peripherals

Supports Table Microphone Pro **and** Ceiling Microphone Pros.

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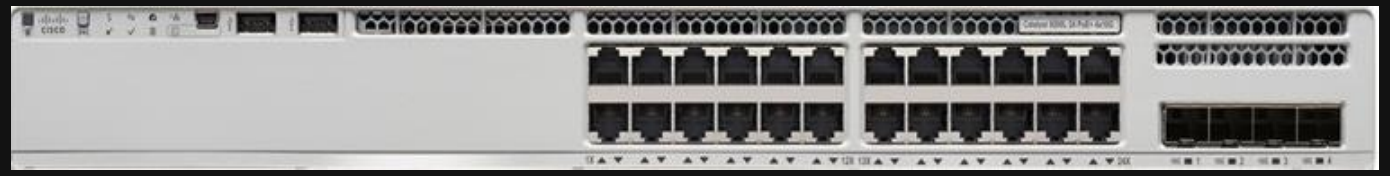
Supported Switches

The following switch models are supported:

- C9200CX-8P-2X2G
- C9200CX-12P-2X2G
- Catalyst 9200 24 Port Models*
- Catalyst 9300 24 Port Models*

We are using RESTCONF APIs to make configuration changes to the switch.

C1K series do not have a REST API.



Network Essentials (-E) is ***recommended*** for the blueprint.

*Tested SKUs will be published to the GitHub Repository

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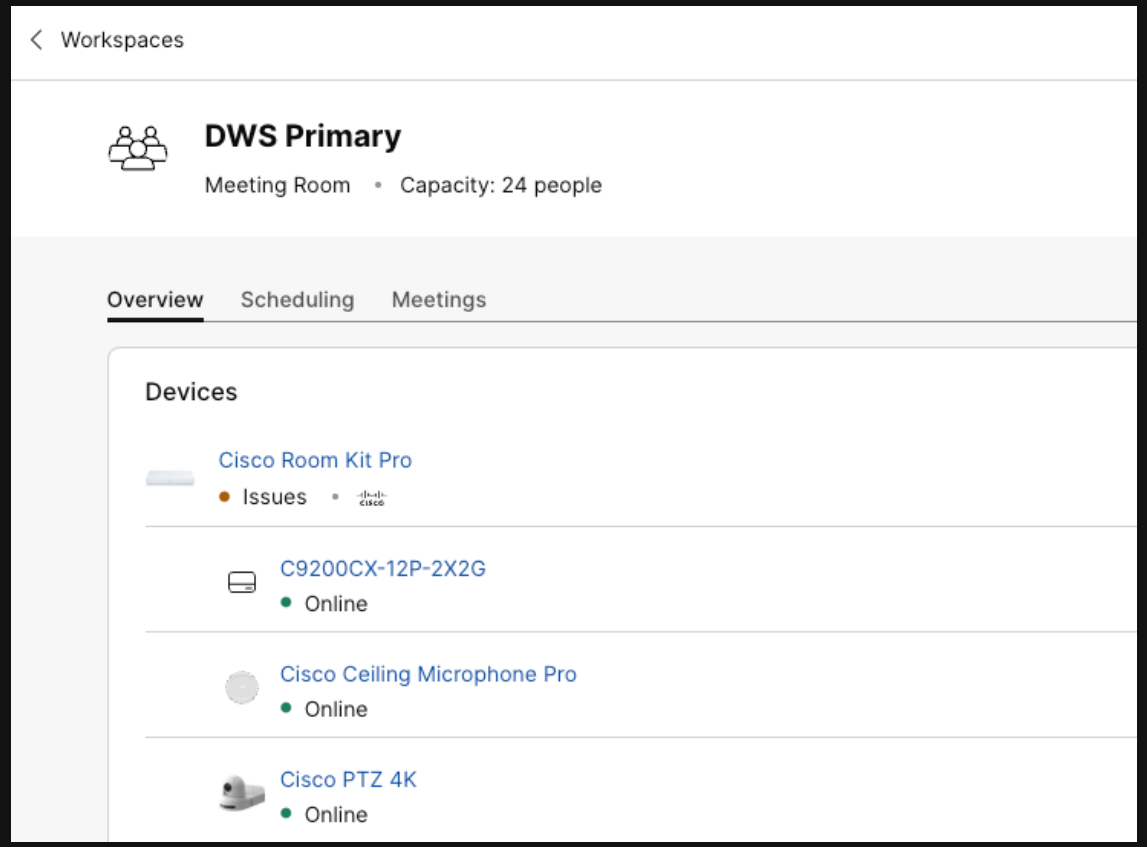
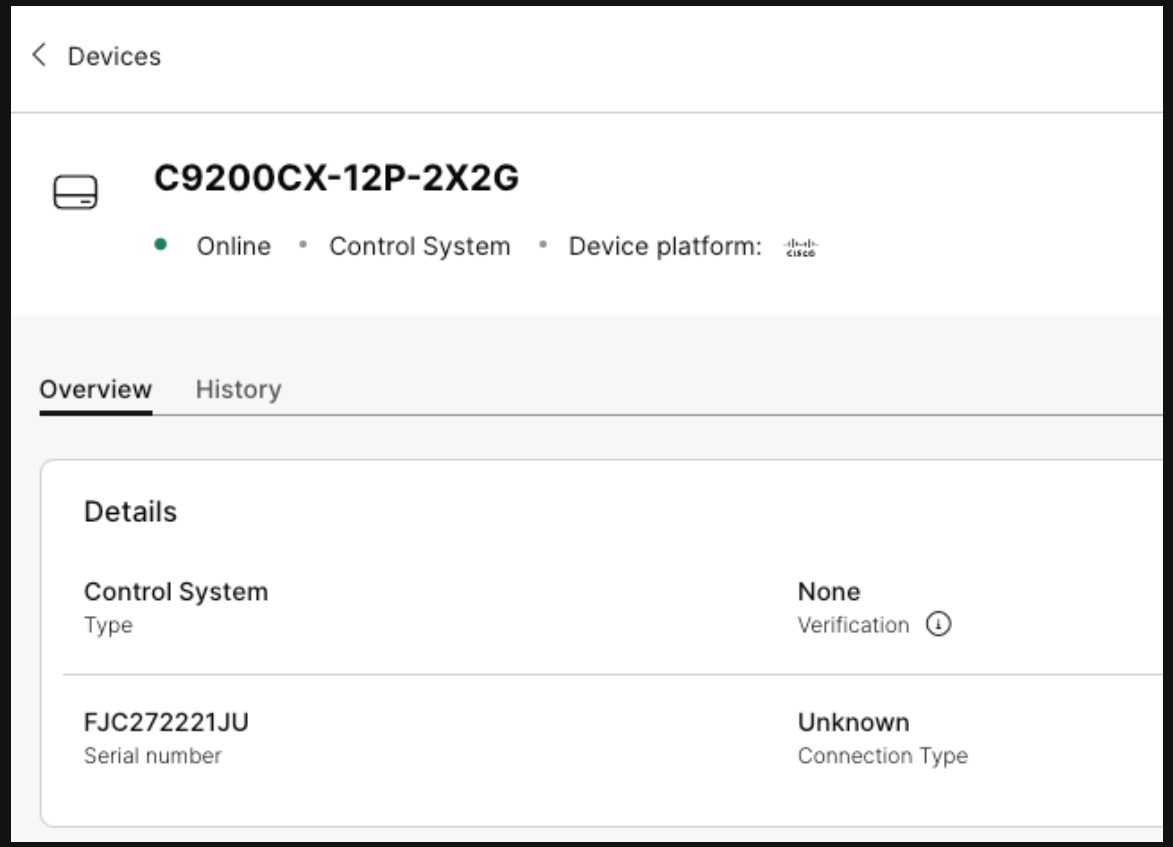
Control Hub Visibility





Link Local Switch Visibility in Control Hub under the Primary Codec

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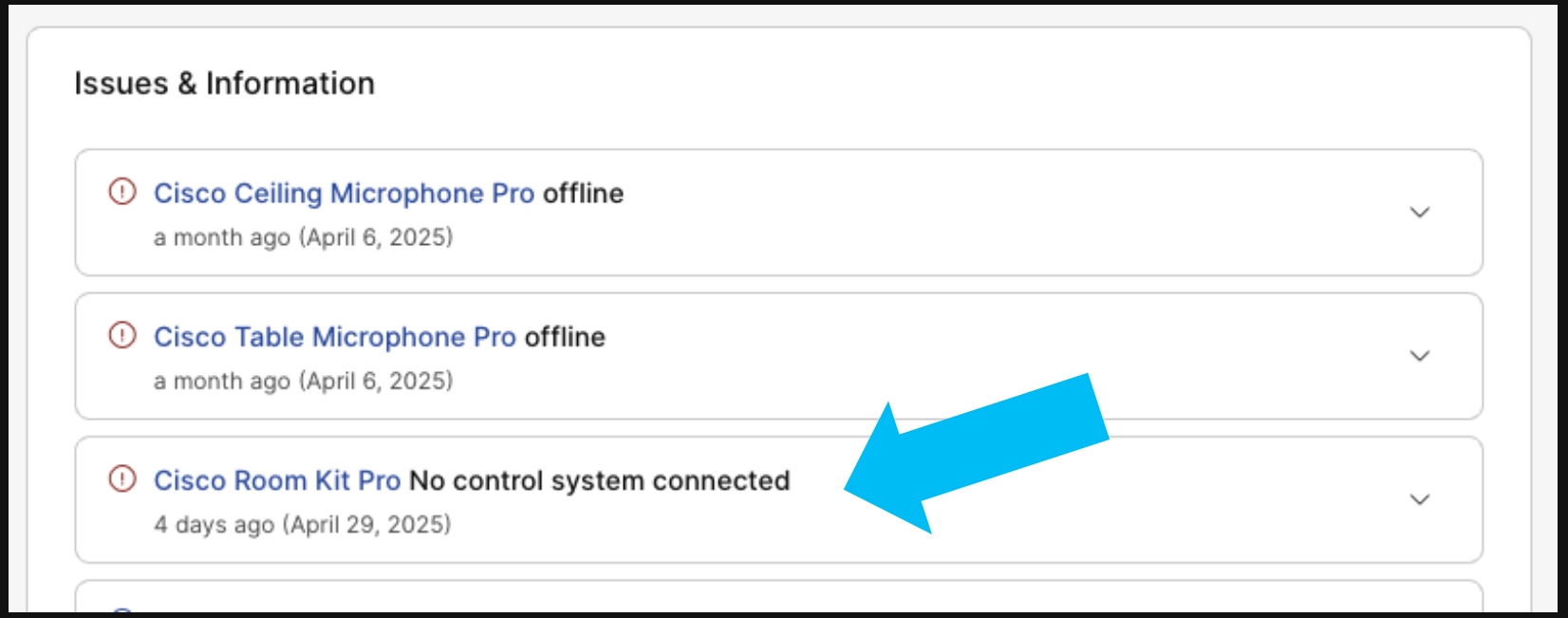
Control Hub Alerting



Link Local Switch “Disconnected” warnings in Control Hub under the Primary Codec

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Quick FAQ

No TAC Support

But… like Campfire this is a tested “blueprint”

Cisco Pro Microphones Only

Third party IP microphones not supported for Audience Mics.

No Integrated Voice Lift

User functionality to provide limited support.

Not MTR Compatible

Relies on xAPI Commands not available in MTR

No Cross View or Extended Reach

Only 1 Quad camera and 1 PTZ supported per room

“Standard” Room Type Only

Cannot be mixed with Classroom, Briefing or PandA

Tested on Room OS 11.30

Blueprint will not be tested on each release.

Two and Three Way Only

Larger configurations out of scope.

Still a “Custom” Macro

Can be modified by partners & customers as needed

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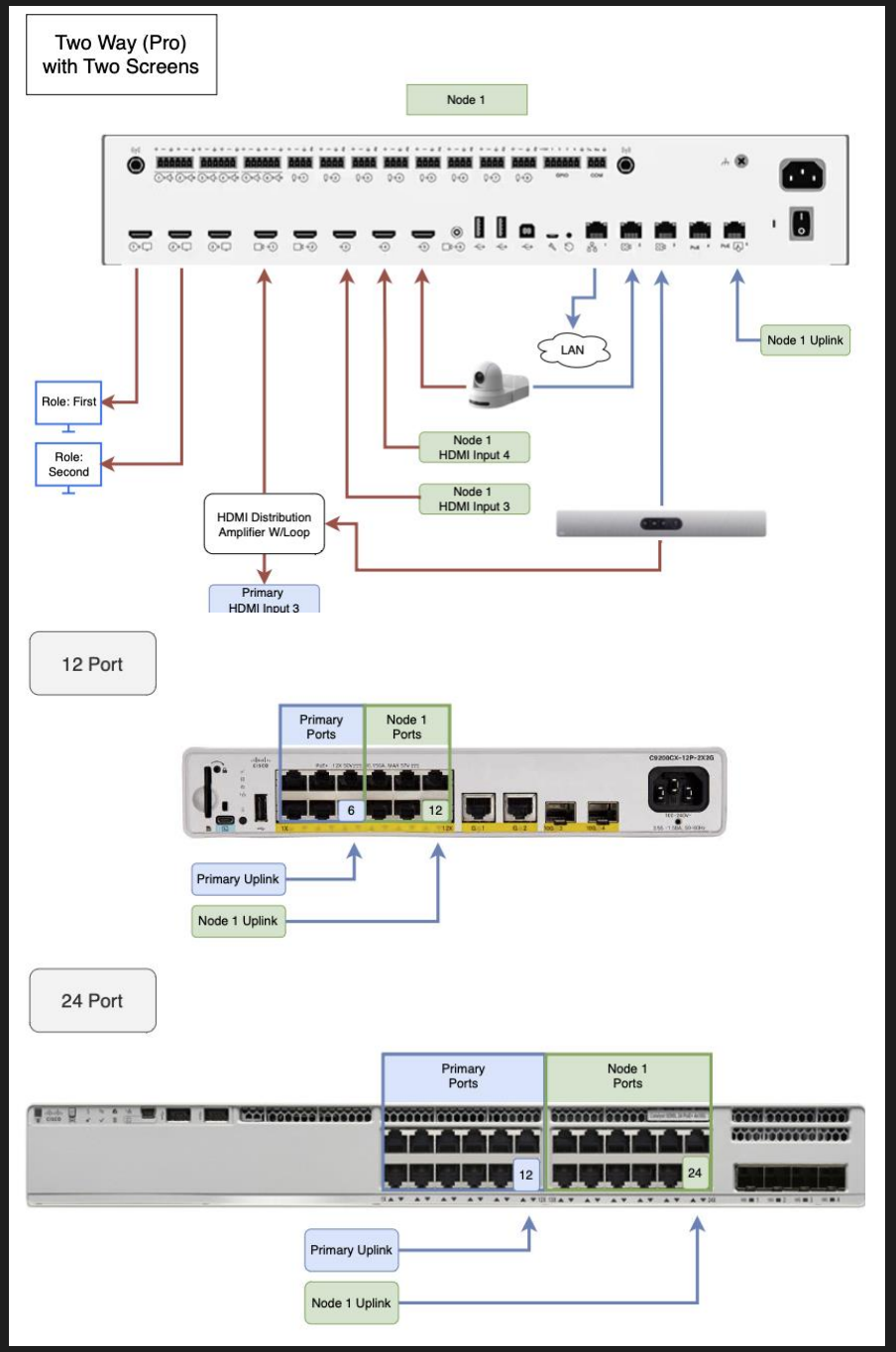
Setup: Physical Installation

Installation guidance for cabling is provided in the Blueprint GitHub repository for Single Screen and Dual Screen Setups and variants based on the selected Codec models.

The Macros will validate the proper installation of cabling, interfaces and the Switch before finalizing the configurations and initializing.

Please ensure your connections match the diagrams!



Setup: Switch Configuration

We have leveraged the capabilities of the Catalyst 9K switches to boot from USB to load a standardized and predictable base line configuration.

This configures the switch to have all ports configured as access ports in pre-defined VLANs, Portfast enabled, a static IP address (169.254.1.254) and RESTCONF API access enabled.

Setup Steps:

- Load the correct ciscortr.cfg onto USB Key
- Wire all connections as instructed in the diagrams
- Power up Switch
- Switch will be fully configured in 6 minutes

USB key needs to be:

- 4 GB (if > 4gb… partitioned)
- formatted to FAT32

Cloud Registration Setup

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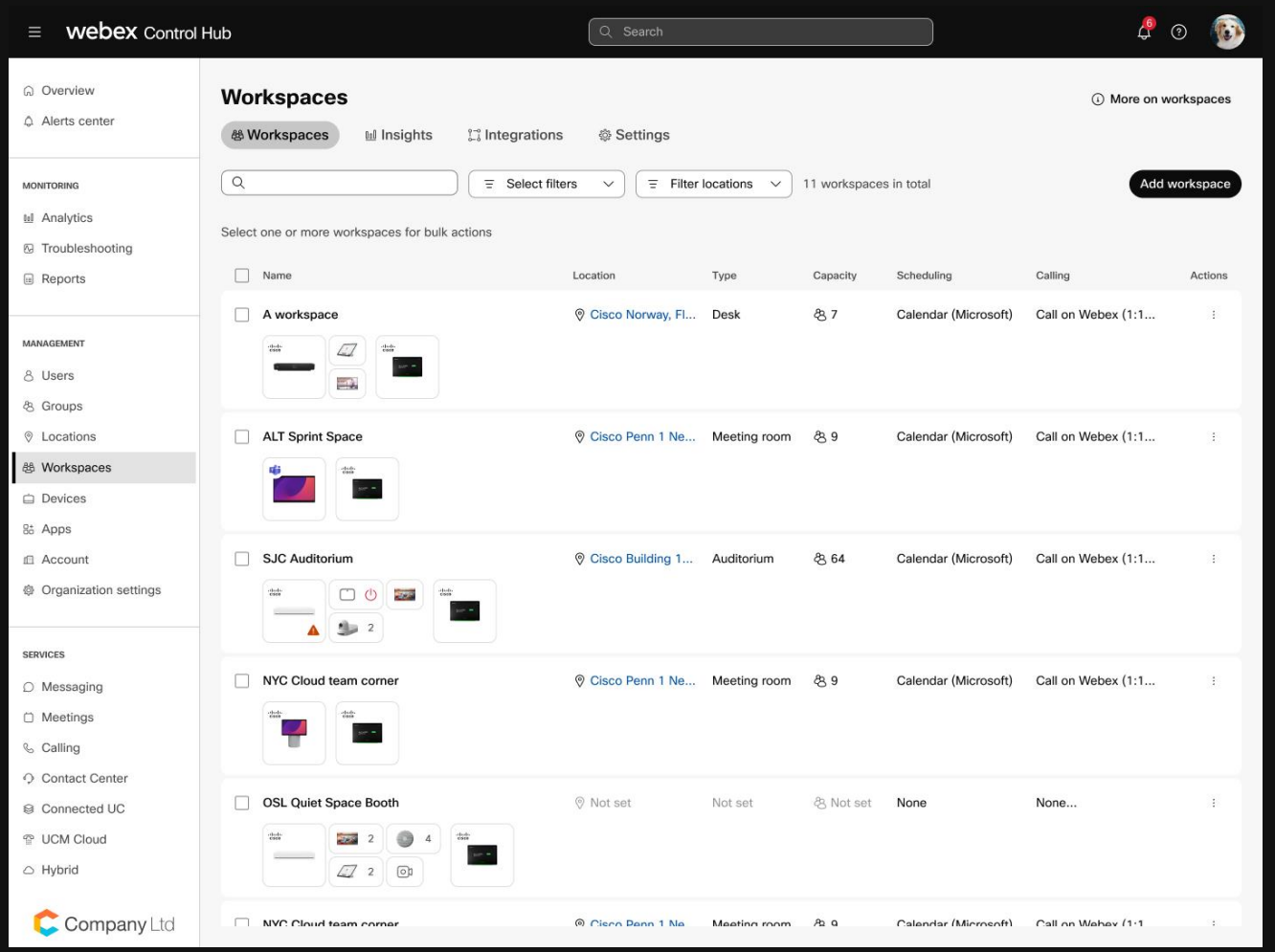
Setup: Control Hub

Create your Workspaces and Register the Devices



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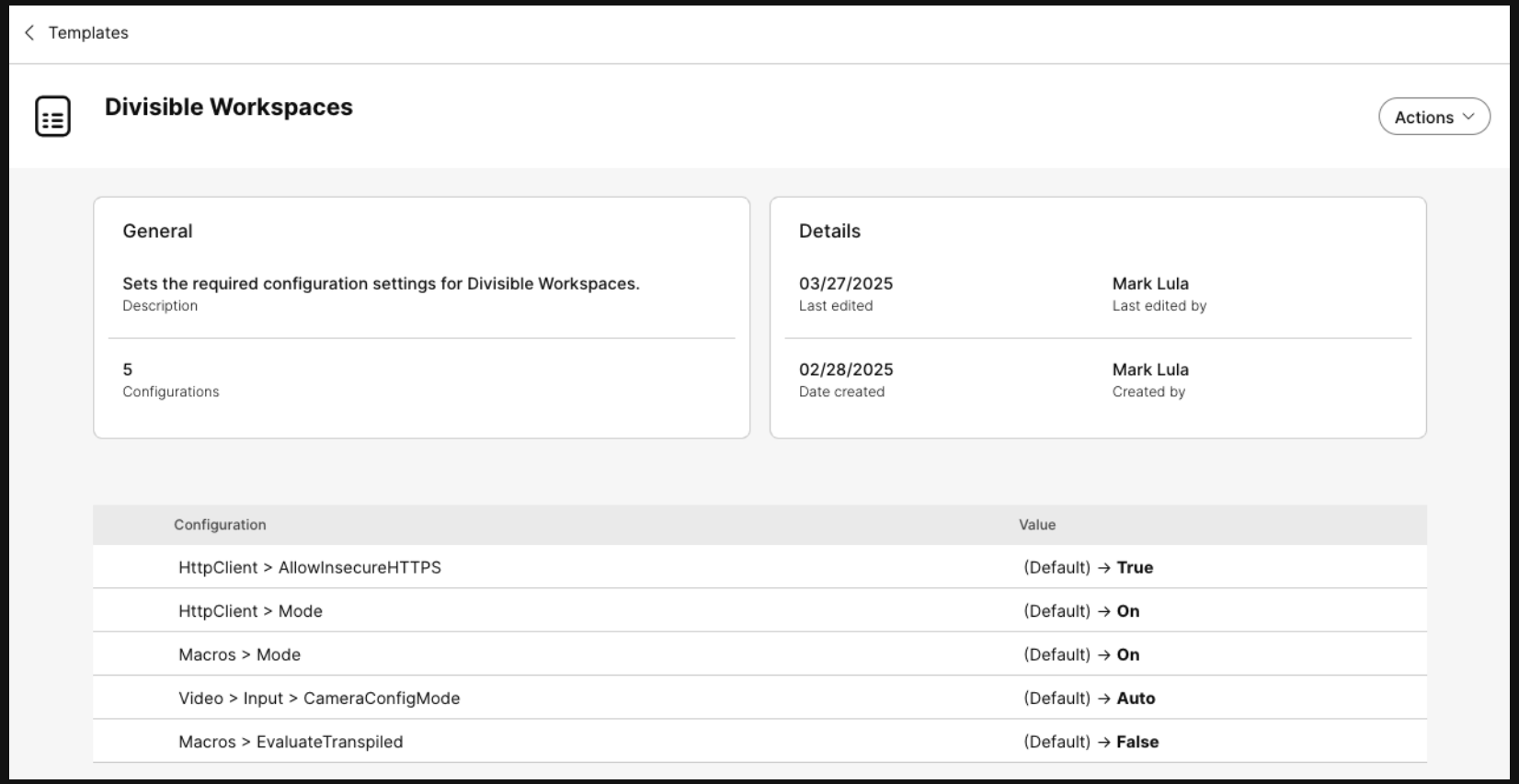
Setup: Device Configuration Templates

The configuration template is used to apply some settings needed on both Codecs prior to the Macro installation.



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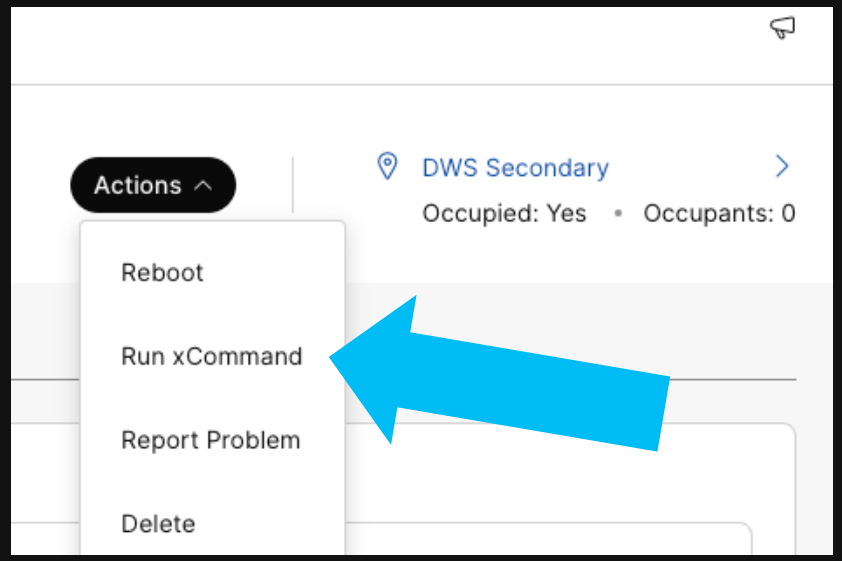
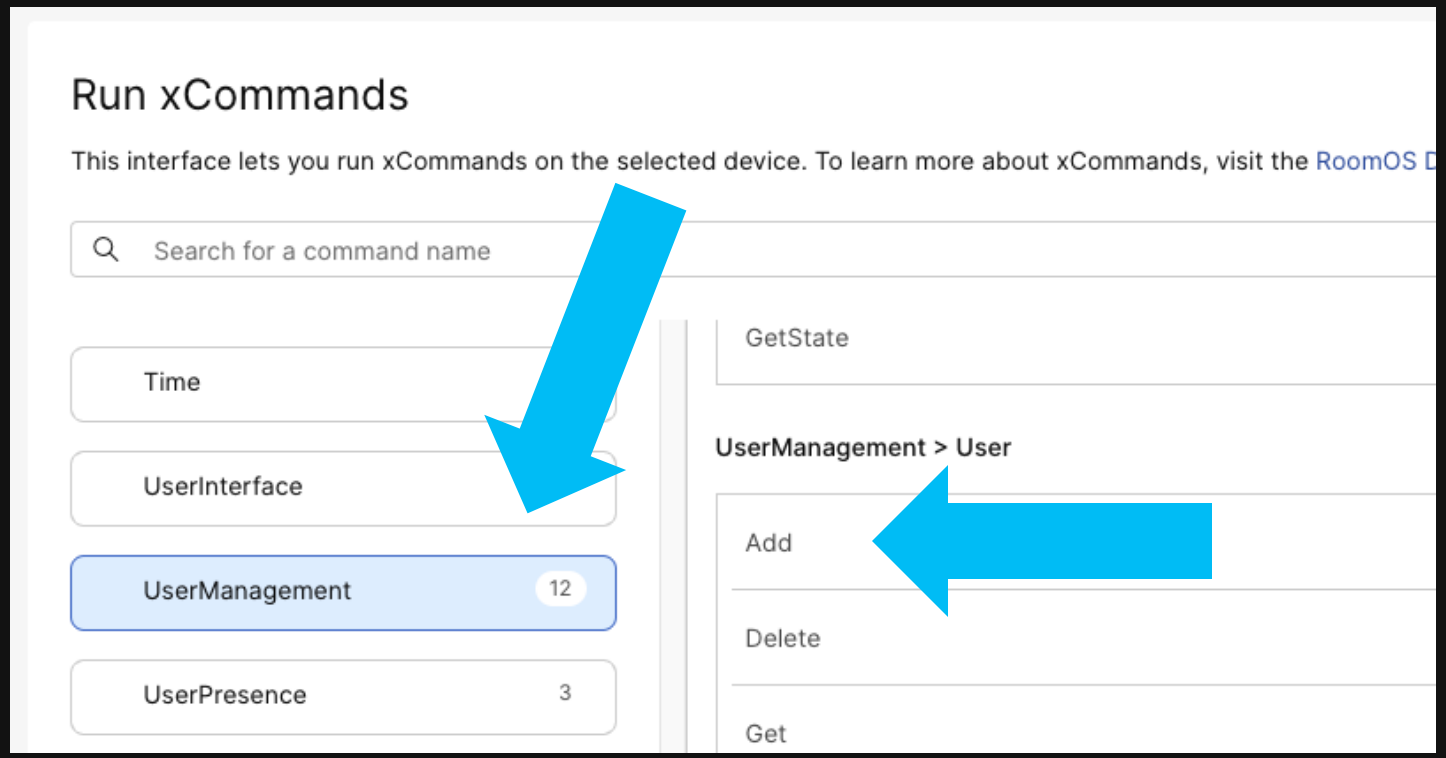
Setup: Add a Local User to Secondary Codec



Select Run xCommand under actions within the Devices Page of the Secondary Codec.



Select UserManagement > Add

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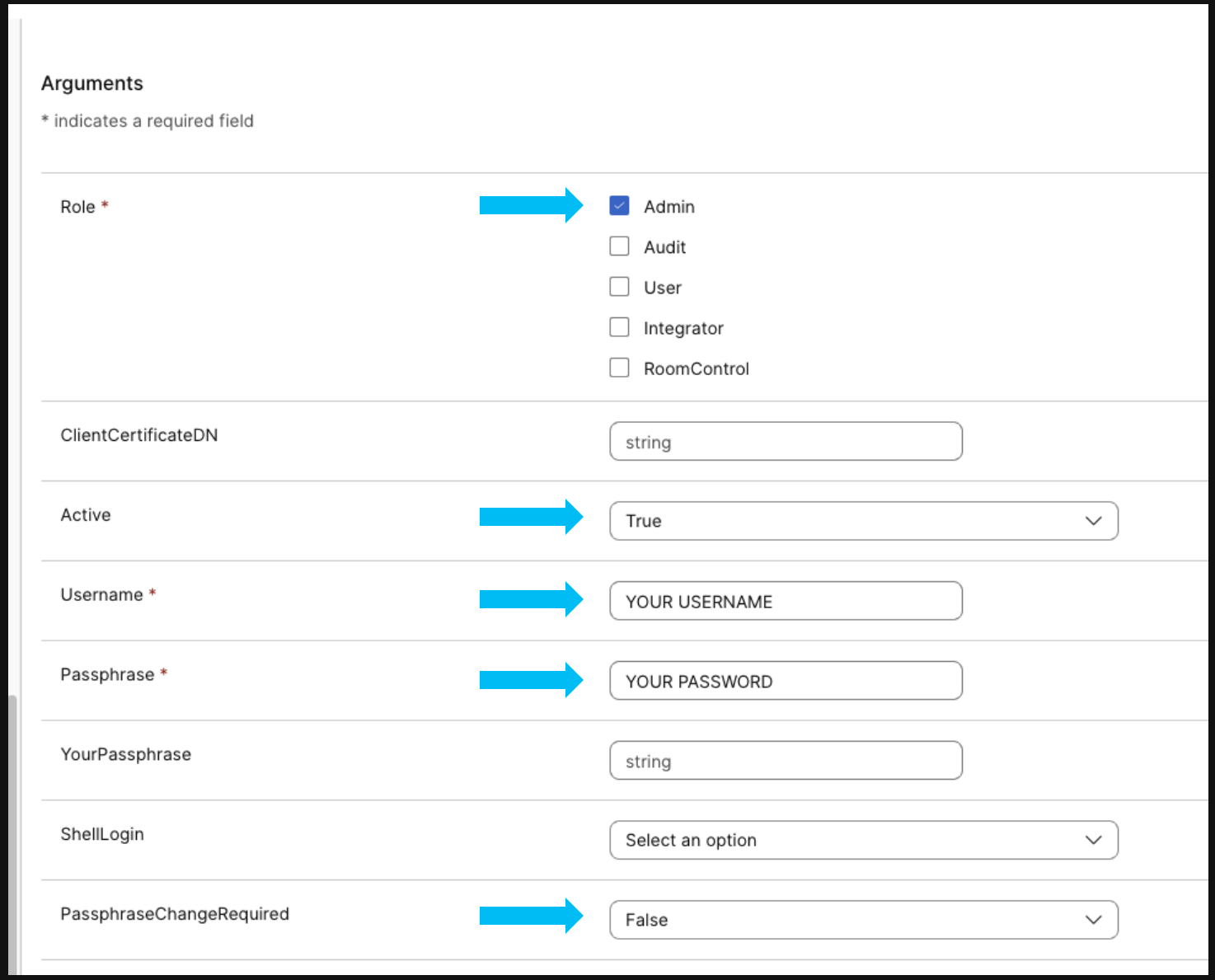
Setup: Add a Local User to Secondary Codec

This user will be used for cross codec state changes. The role must be set to Admin to enable the setup wizard to save Macros.



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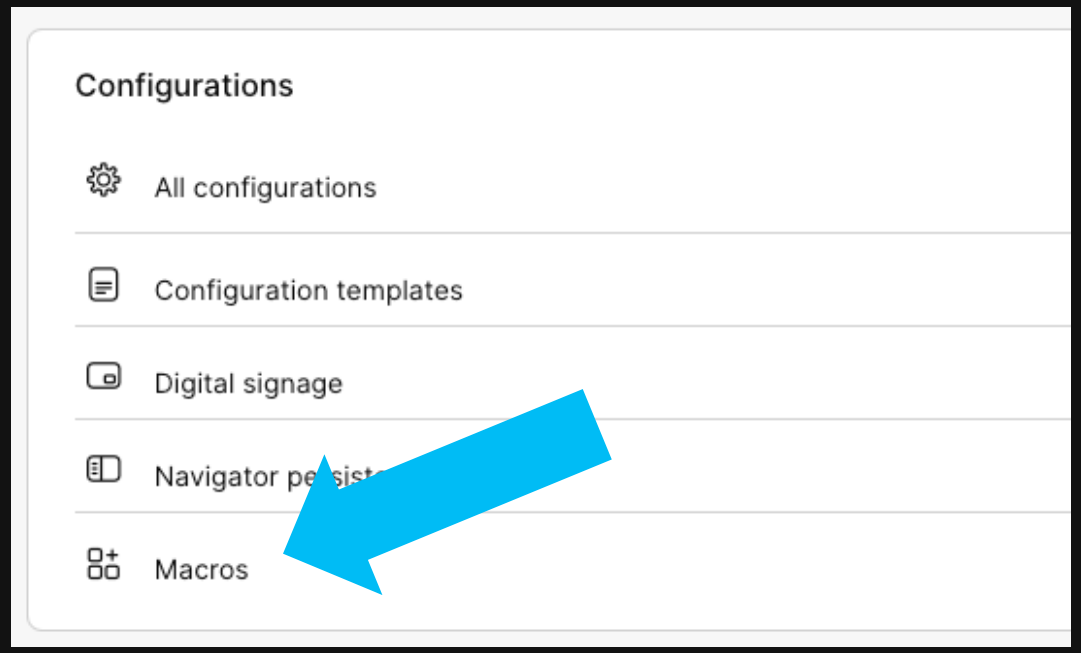
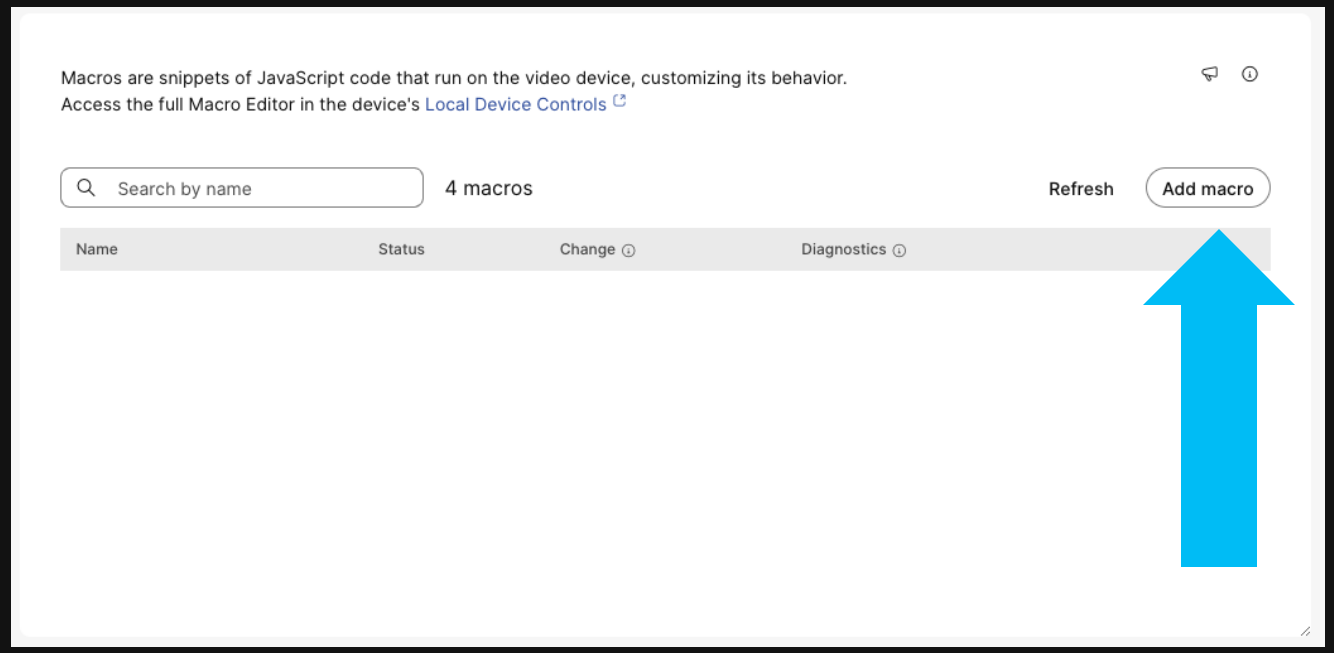
Setup: Load Wizard Macro 1/2

Open the Primary Codec's Device Page





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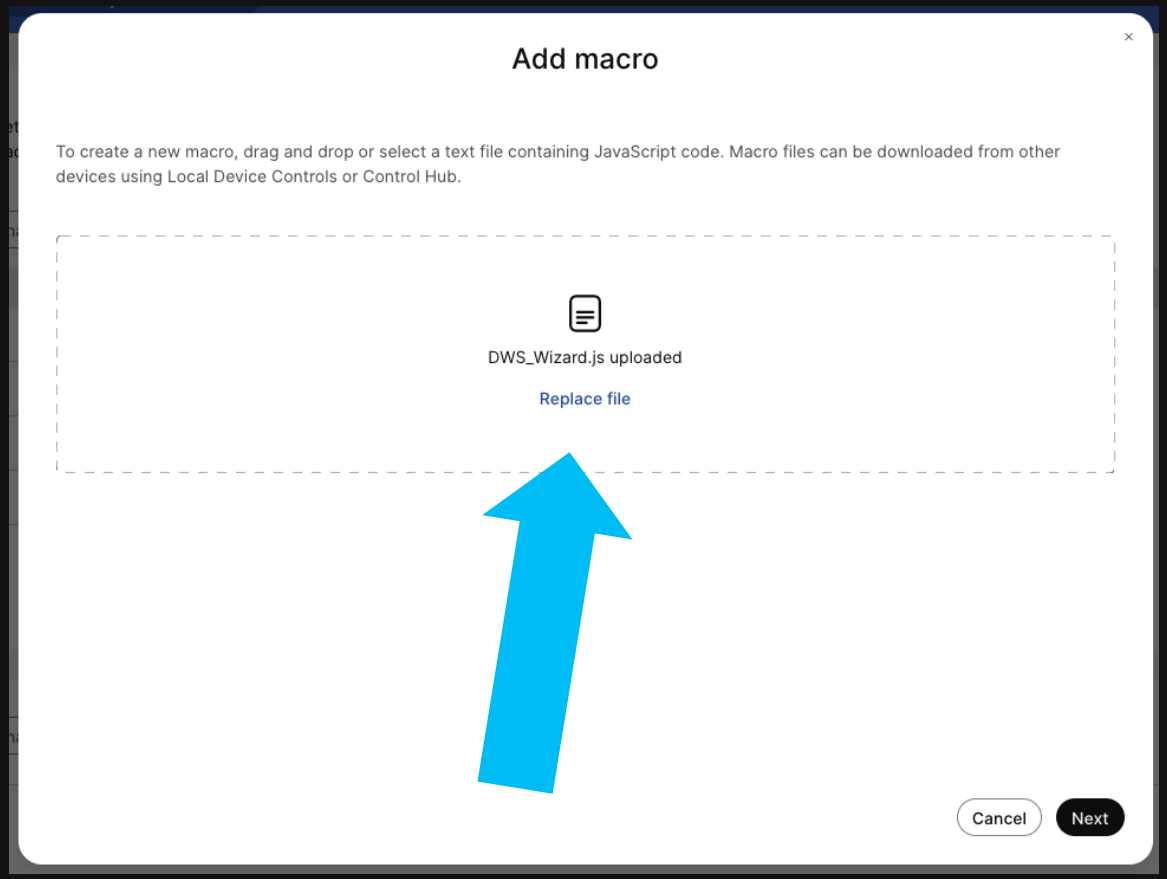
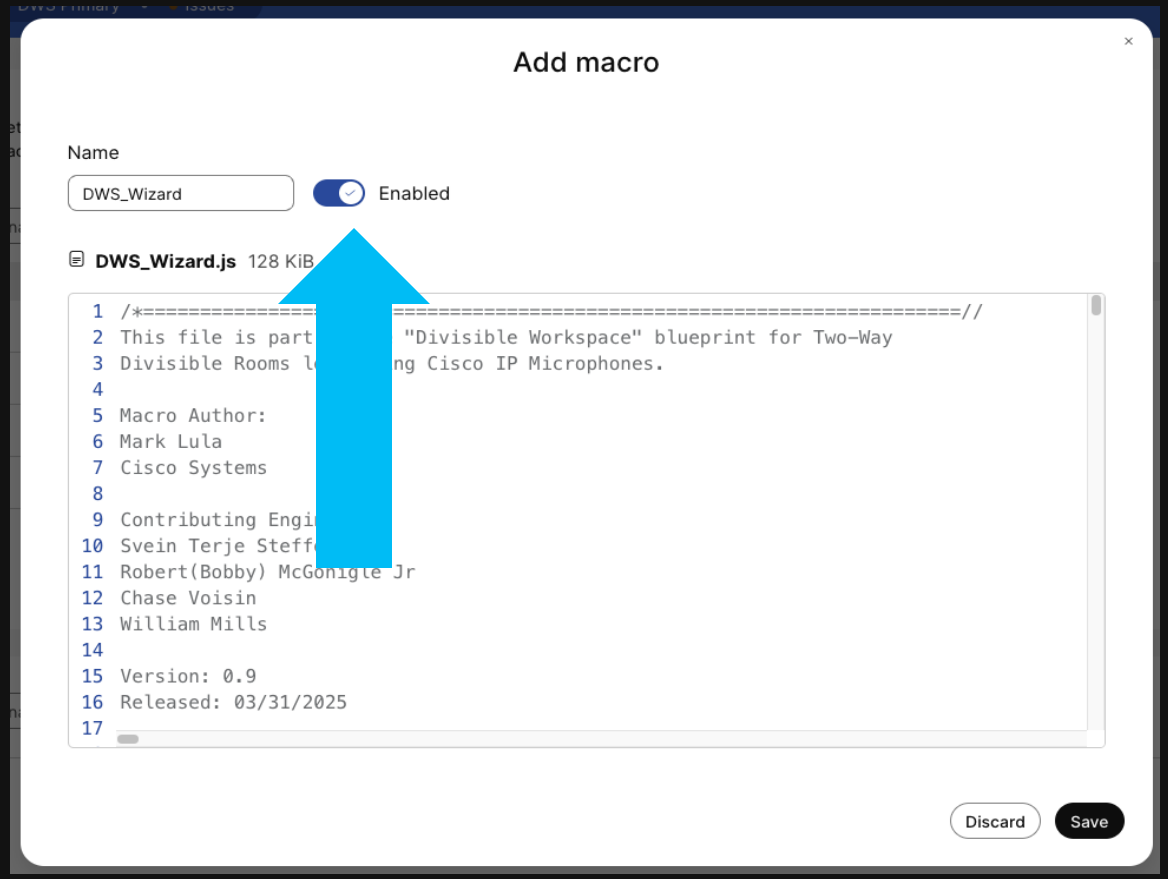
Setup: Load Wizard Macro 2/2





"DWS_Wizard" Macro published on the GitHub Repository

No Macro Configuration Required!

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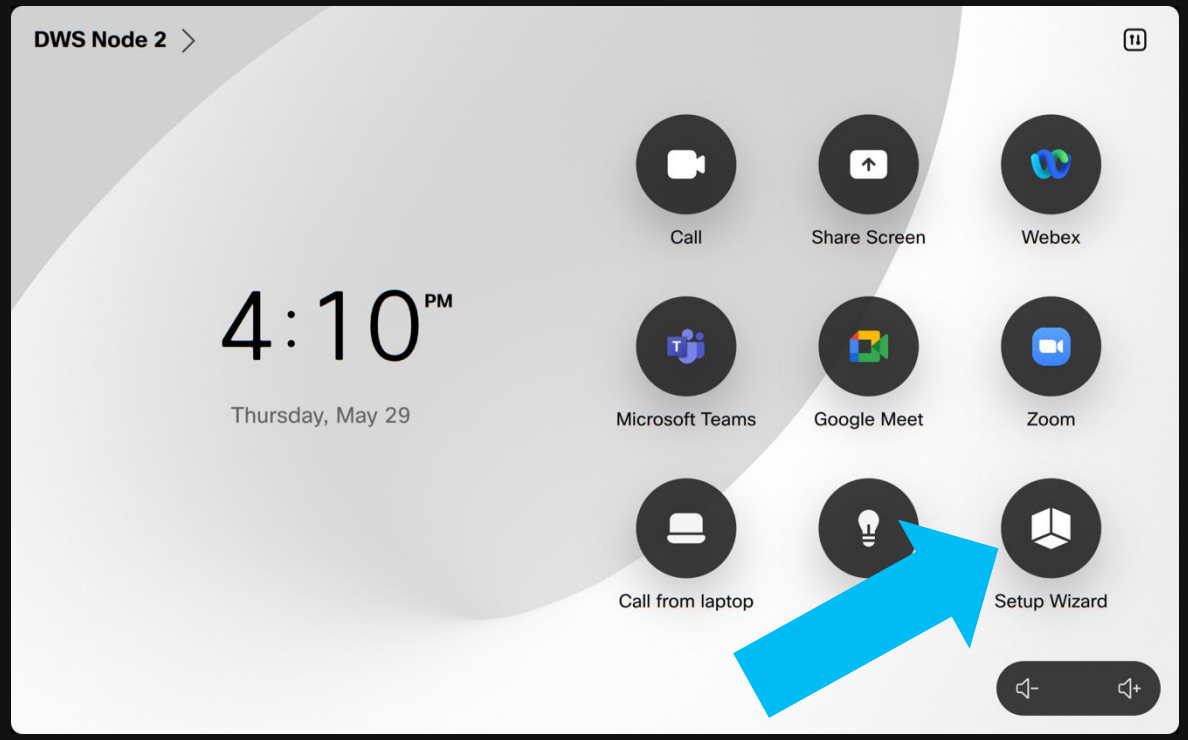
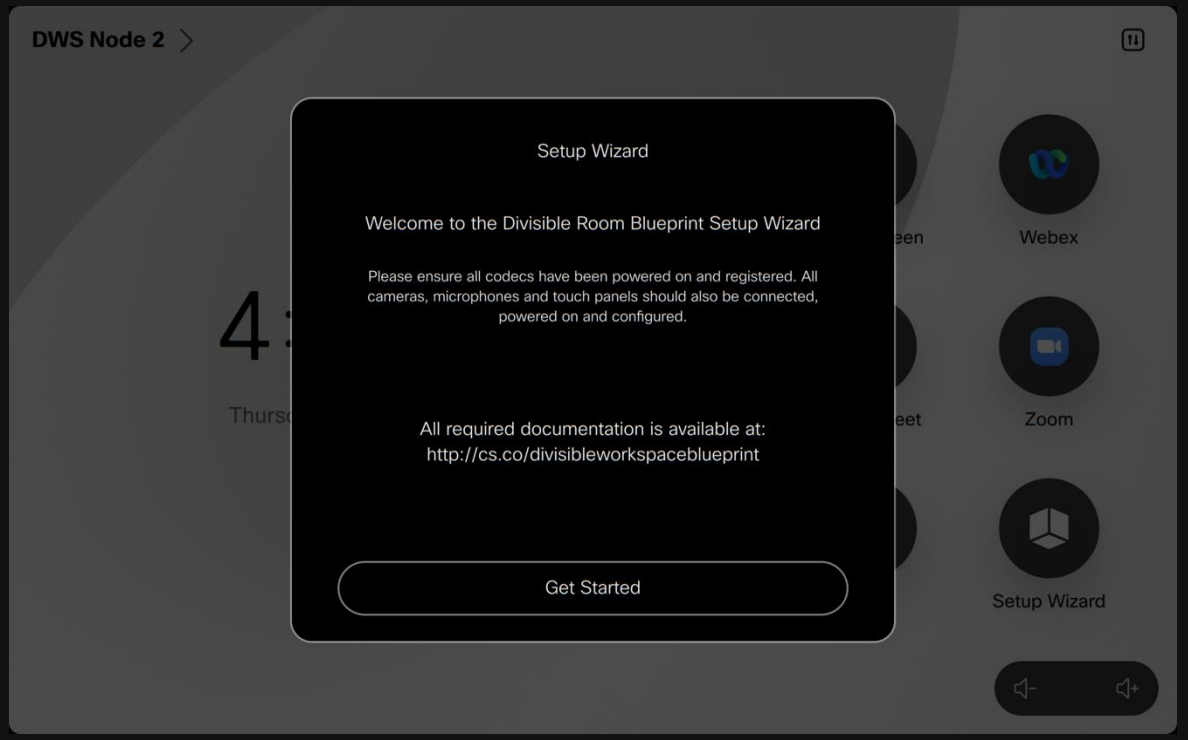
Setup: Setup Wizard



Select “Setup Wizard”



Complete Each Step

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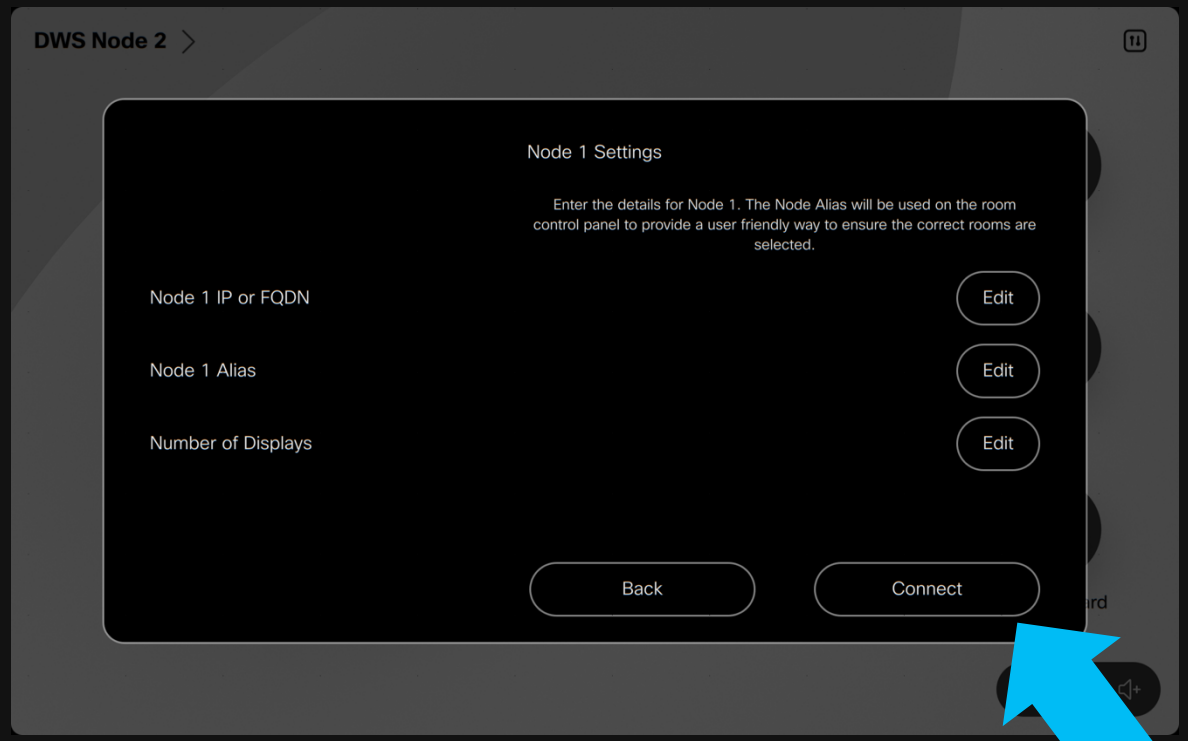
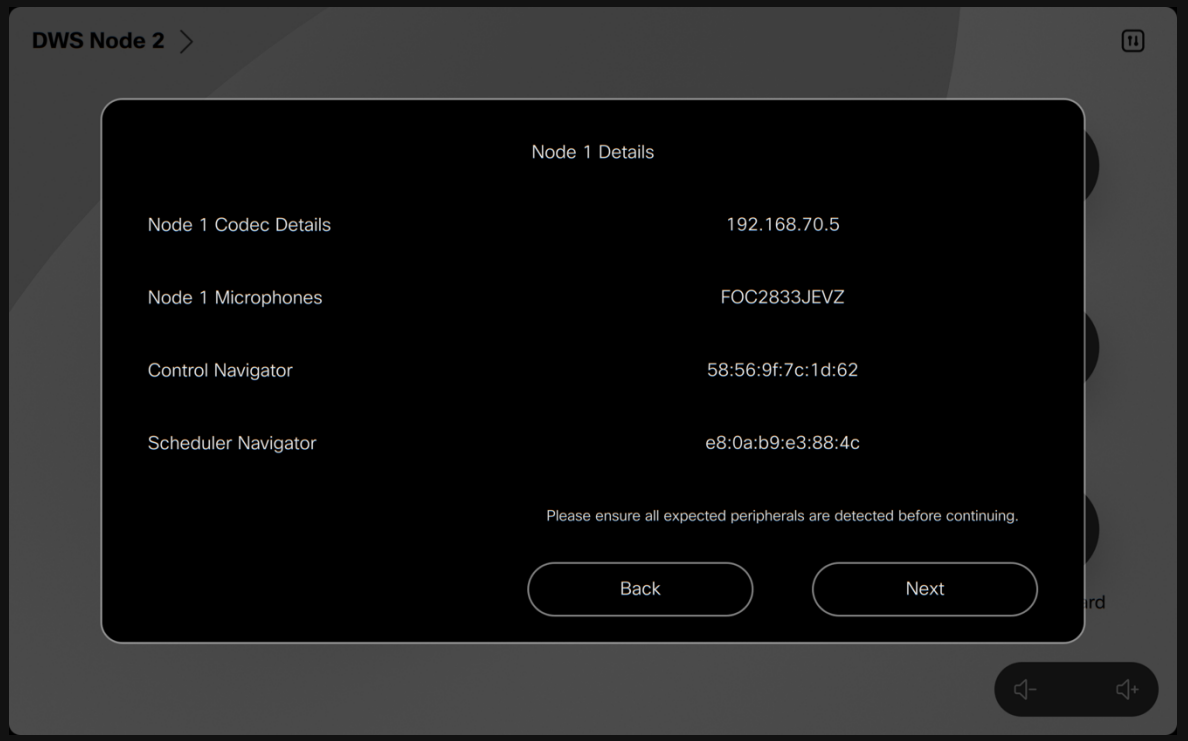
Setup: Auto Detect Peripherals



Enter the Node Codec Information



Connects & gathers details automatically

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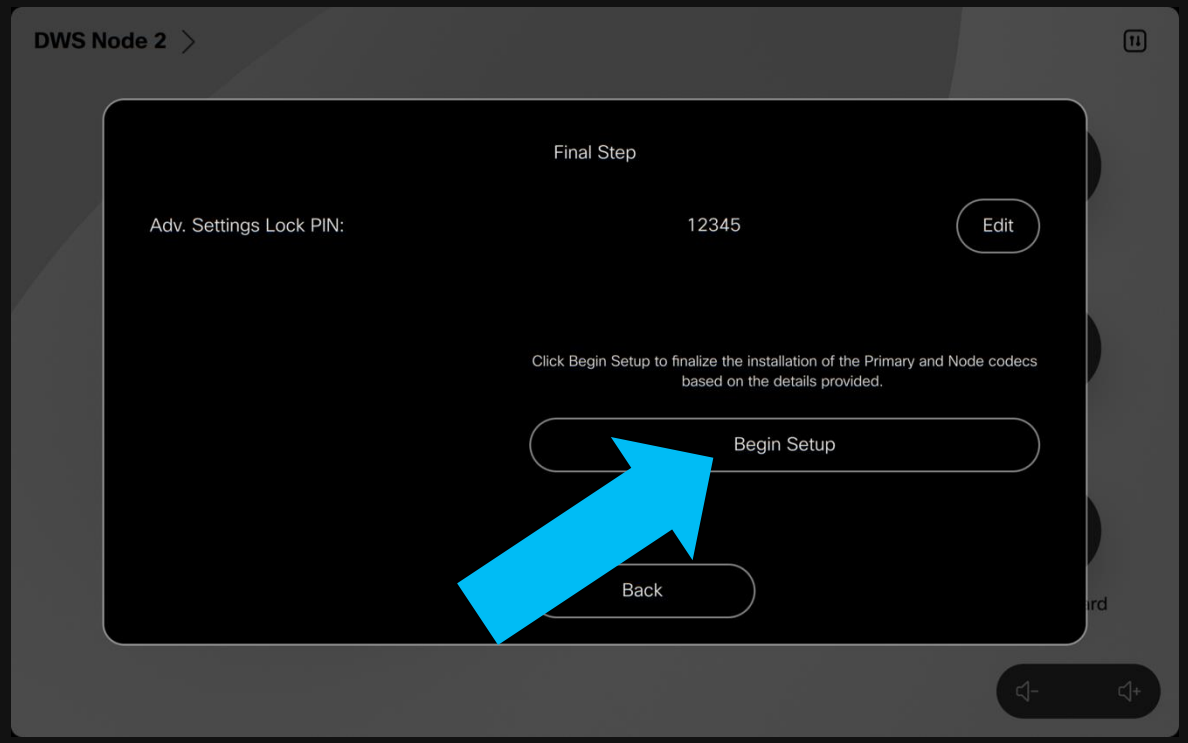
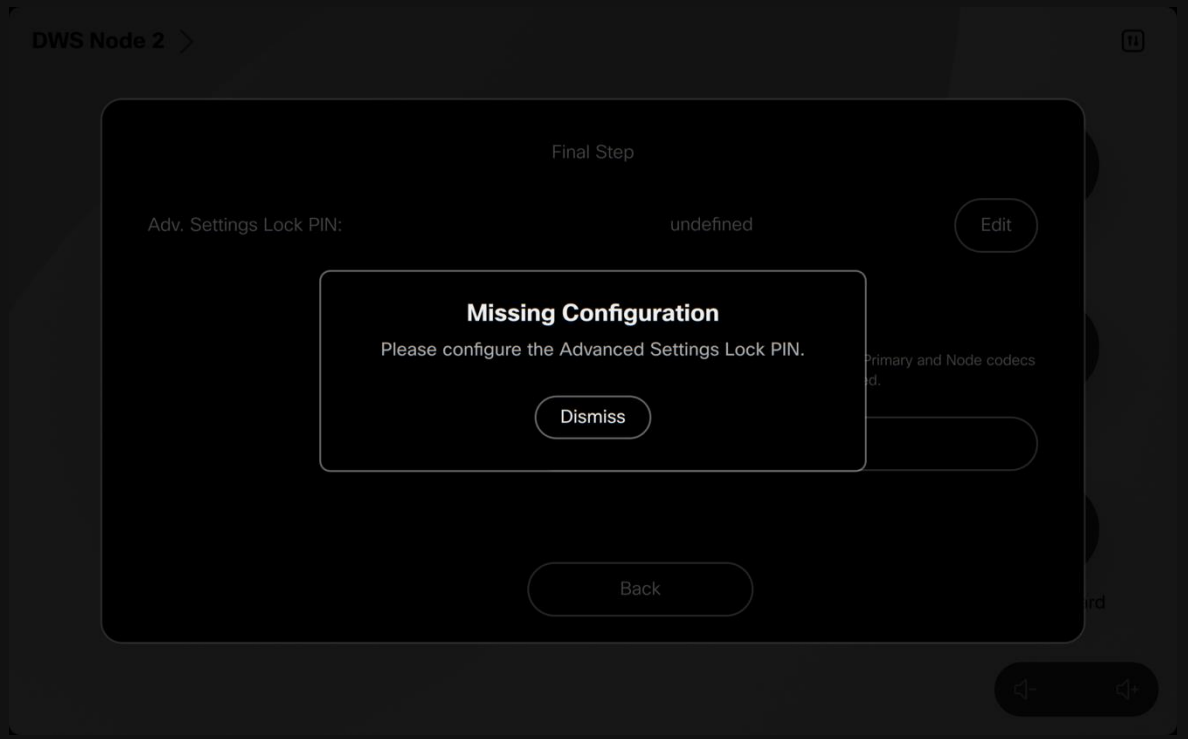
Setup: Setup Wizard



Once Completed, Click “Begin Setup”



The Wizard will validate your entries!

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Setup: Presenter Track & Microphone Calibration

Once you've completed the Divisible Workspace Setup, you should perform the following actions in both spaces in "Split Mode:

- Setup Presenter Track: https://help.webex.com/en-us/article/9ur0g6/Set-up-PresenterTrack-for-Board-and-Room-Series
- Run the "Speaker Track using external Microphones" wizard: https://www.cisco.com/c/dam/en/us/td/docs/telepresence/endpoint/camera/SpeakerTrack_using_external_microphones.pdf
- If required, Set your Exclusion Zones: https://marklula.github.io/Advanced-Exclusion-Zone-Builder/

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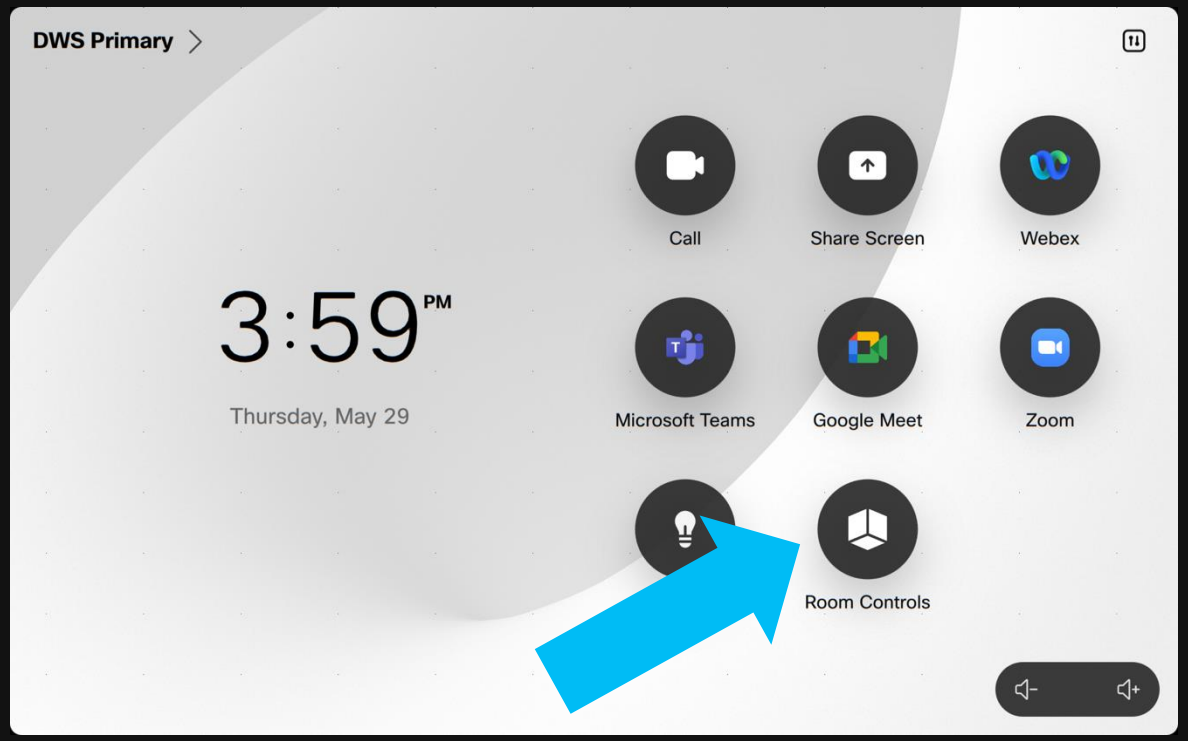
Operation: “Room Controls” Button



Home Screen

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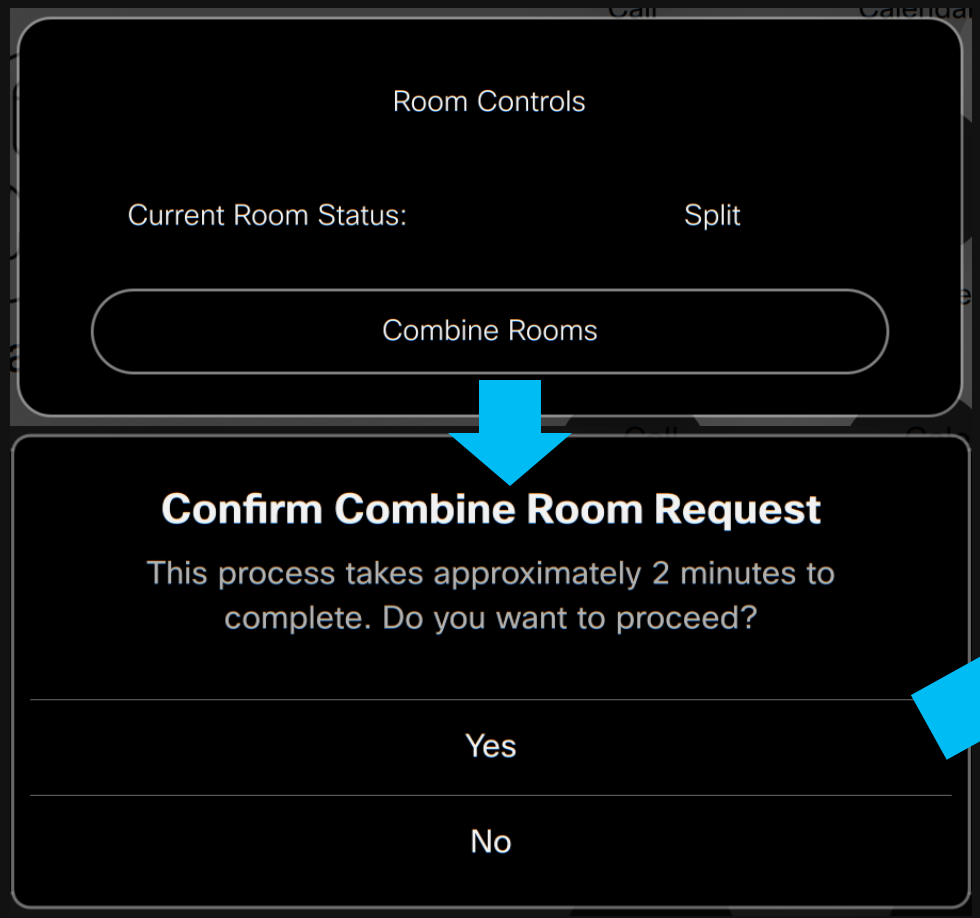
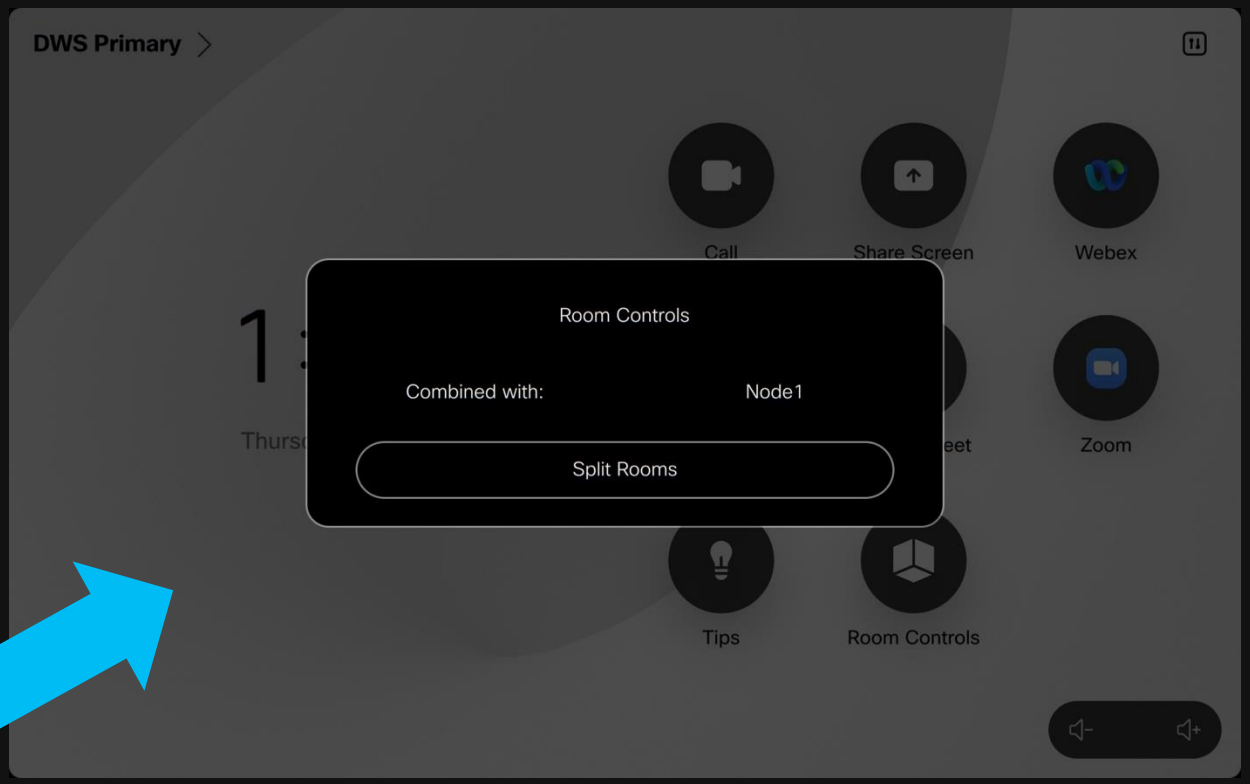
Operation: Change States





Combine / Split controls only available out of call

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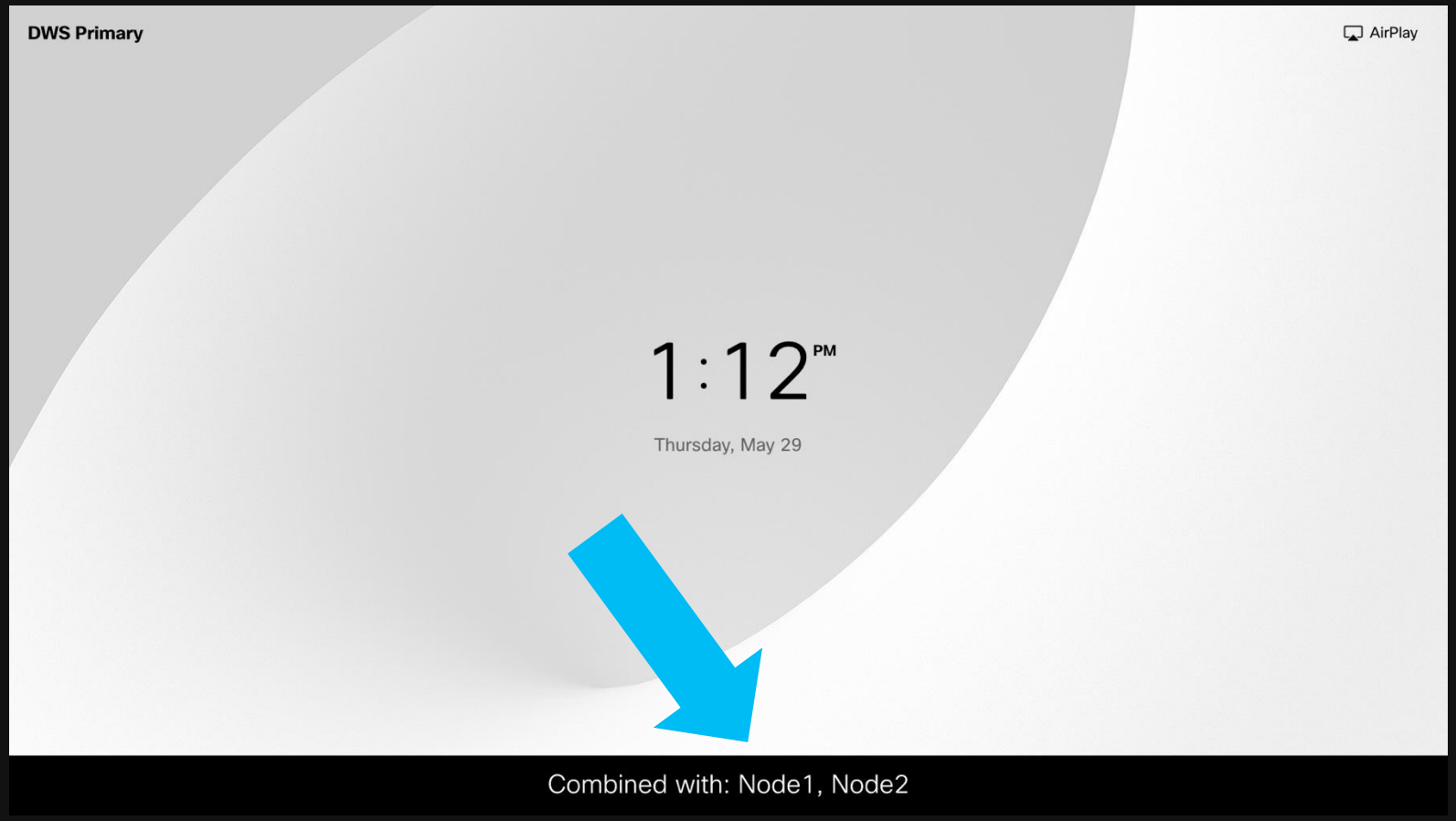
Operation: Combined State

A banner will be added to all displays of the combined workspaces to give the end user a visual cue that they are combined. The alias name of the node workspaces will be auto populated.

The banner can be enabled or disabled via a configuration setting.



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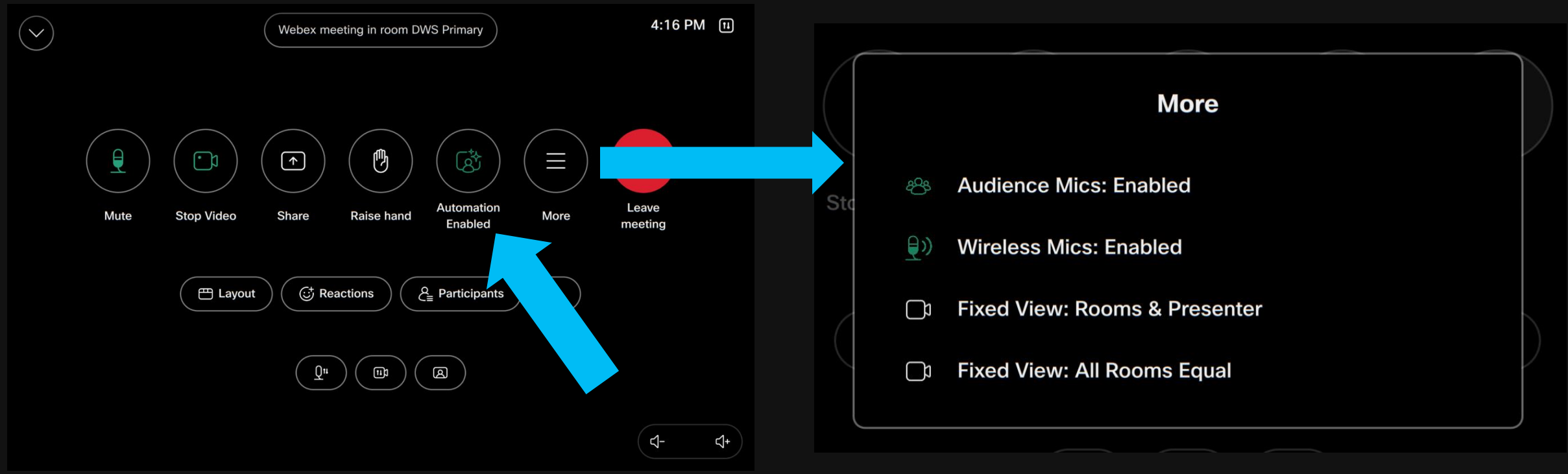
Operation: In Call Features



All functions exist as “native-esque” buttons during a call

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Operation: Automation Enabled w/o Presenter

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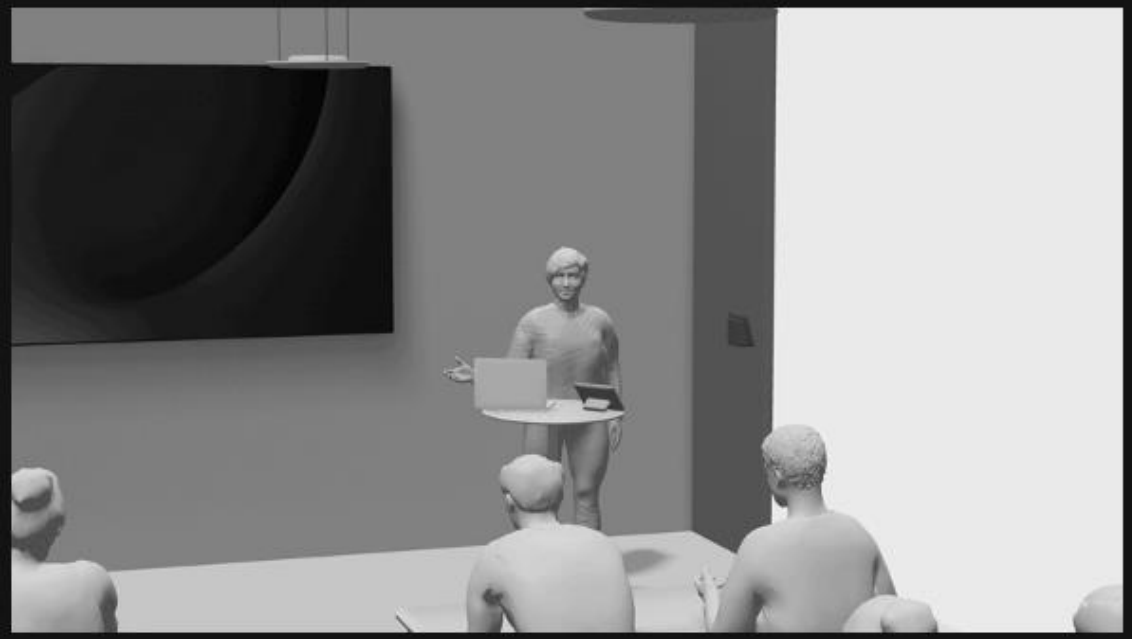
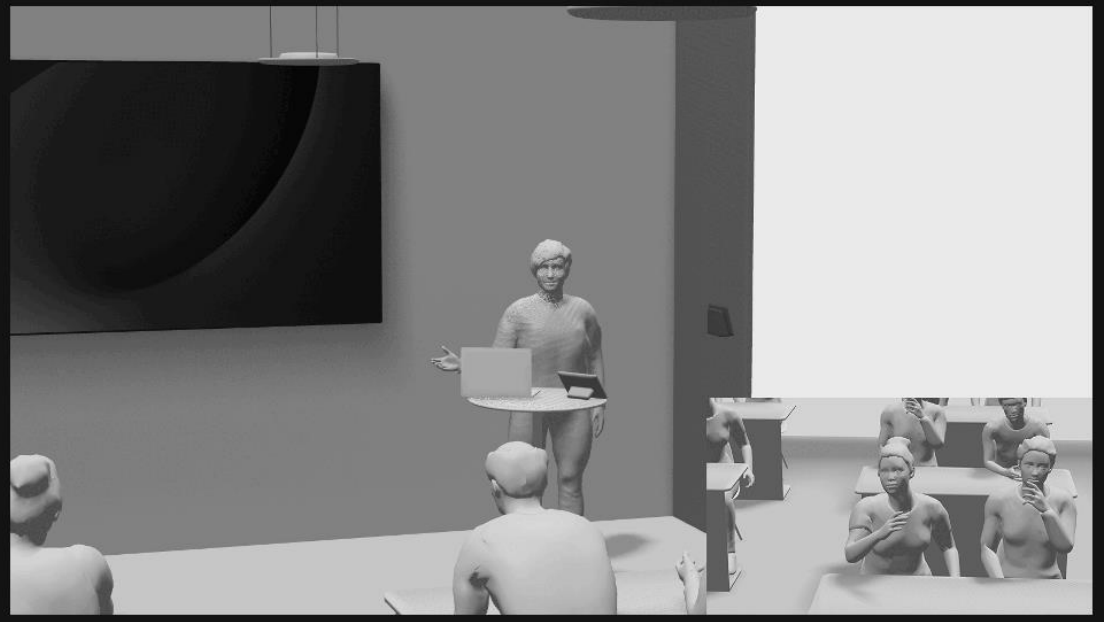
Operation: Automation Enabled w/Presenter





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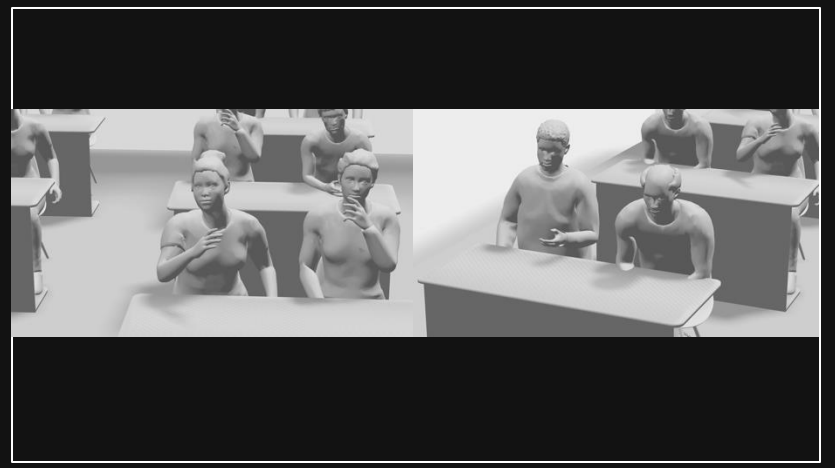
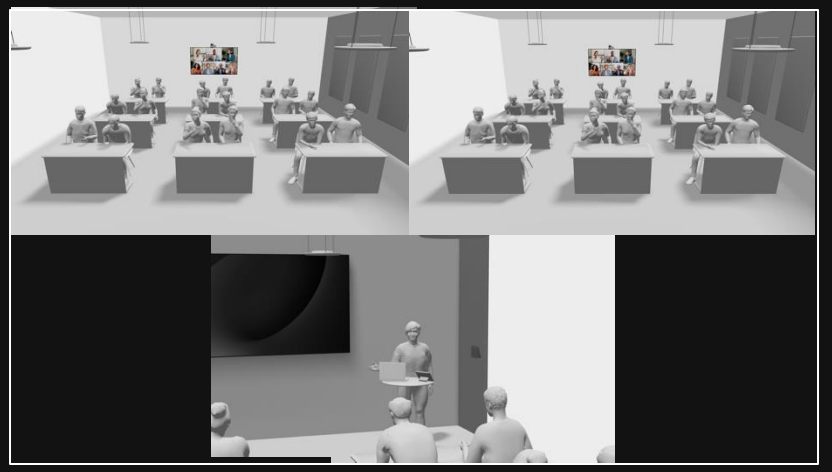
Fixed / Single Camera Modes

Presenter



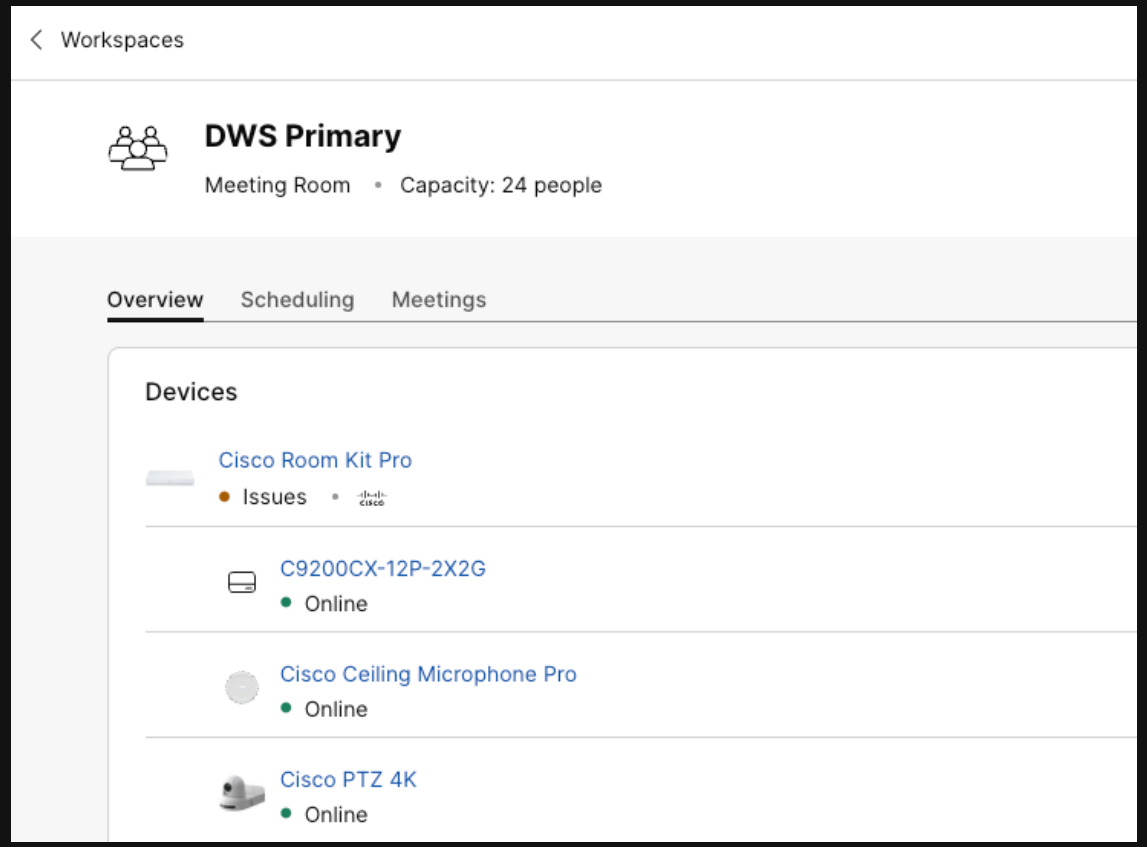
All Rooms Equal

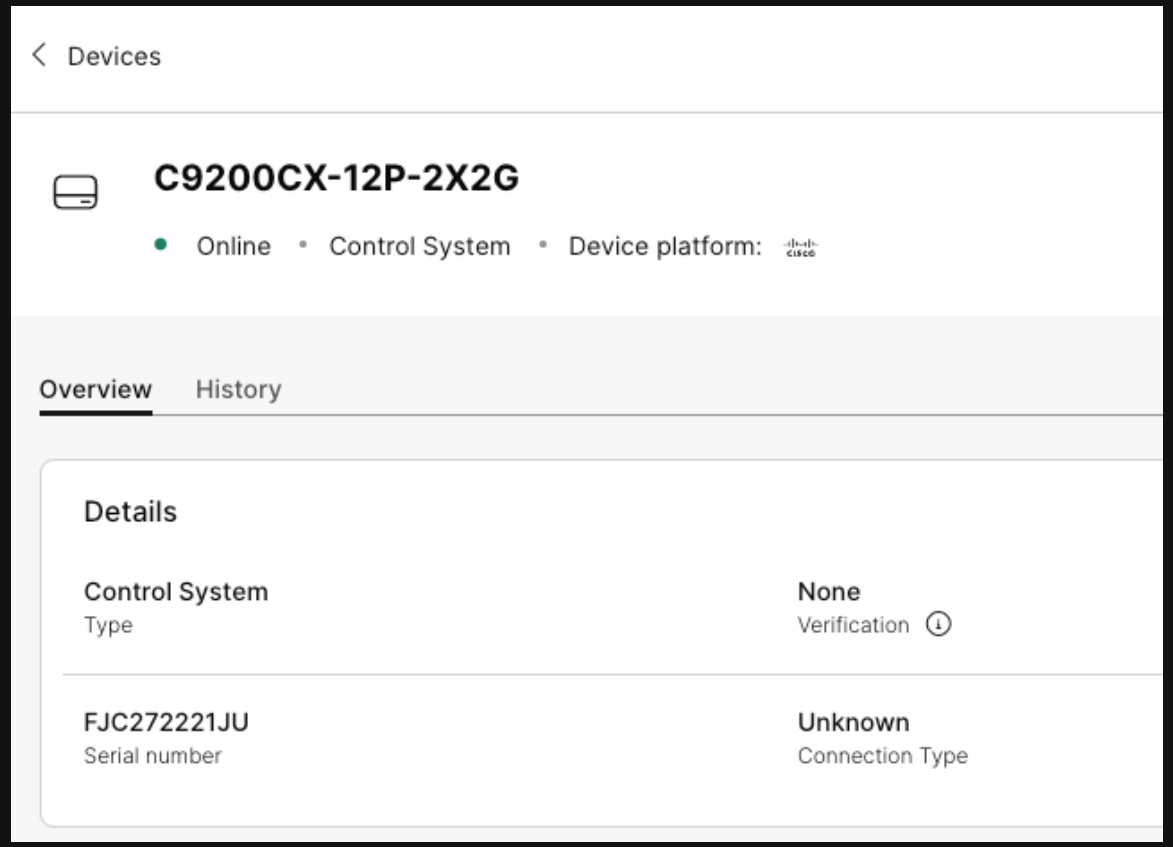
Single Camera



Rooms & Presenter

Operation: Control Hub





Link Local Switch Visibility in Control Hub under the Primary Codec

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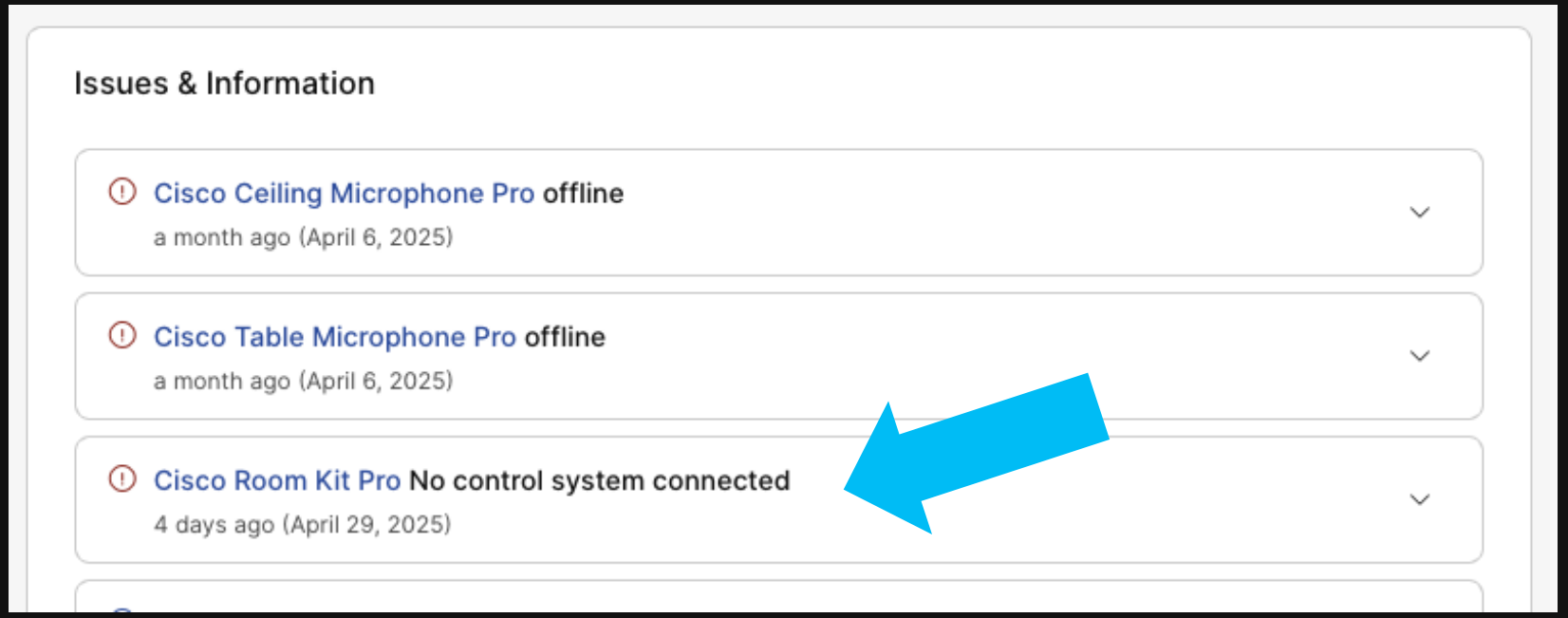
Operation: Control Hub



Link Local Switch “Disconnected” warnings in Control Hub under the Primary Codec

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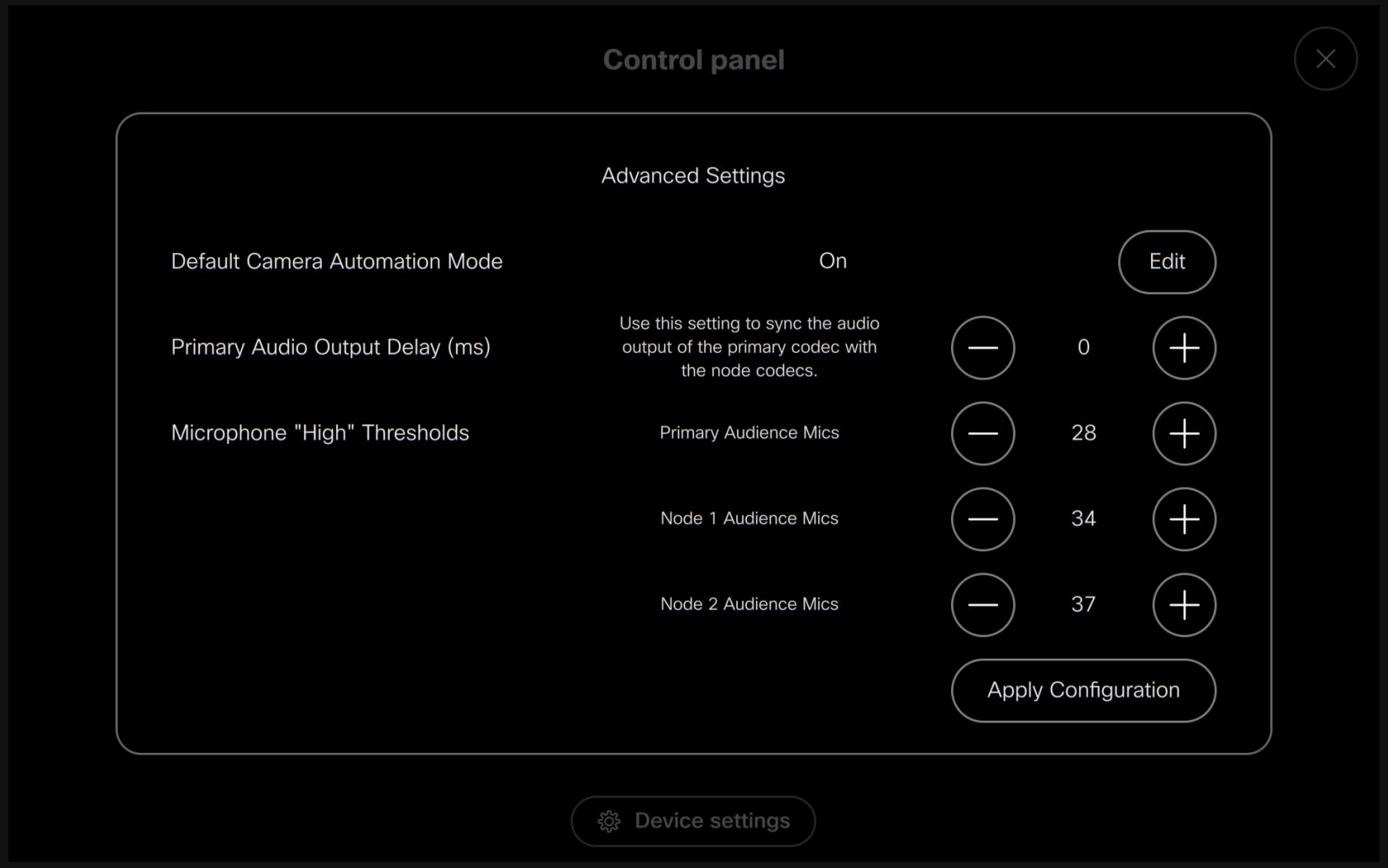
Operation: Advanced Settings

The Advanced Settings panel provides the ability to change the default automation mode, adjust primary room output delay and tweak the “trigger” thresholds of the audience microphones.

This panel is protected by a PIN Code set during setup.



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