

Divisible Workspace Blueprint

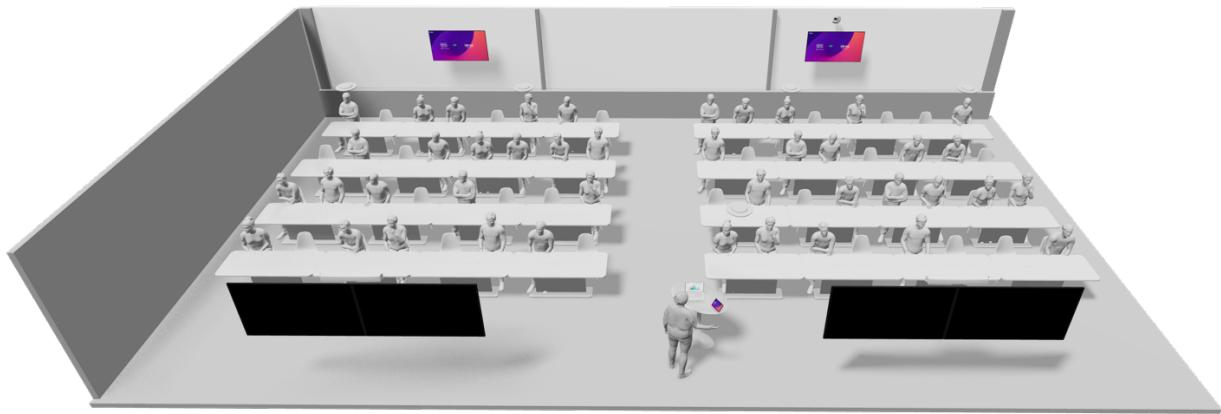
Cloud Registered Installation Guide

This document provides the installation instructions for the Divisible Workspace Blueprint. This blueprint leverages Cisco Pro Series Microphones, Catalyst Switches and Cisco Video Devices to provide a simplified, easy to deploy, scalable offering for Divisible Workspaces.

This guide is applicable to any cloud registered device that has Internet Access and can reach Github.com

Premise registered devices should follow this guide: [Premise Installation Guide](#)

Network Restricted devices should follow this guide: [Network Restricted Guide](#)



All other documentation is available on GitHub:

<https://cs.co/divisibleworkspaceblueprint>

Best effort and community level support provided via a Webex messaging space.

You can join using this URL: https://eurl.io/#nakTe_Vn3

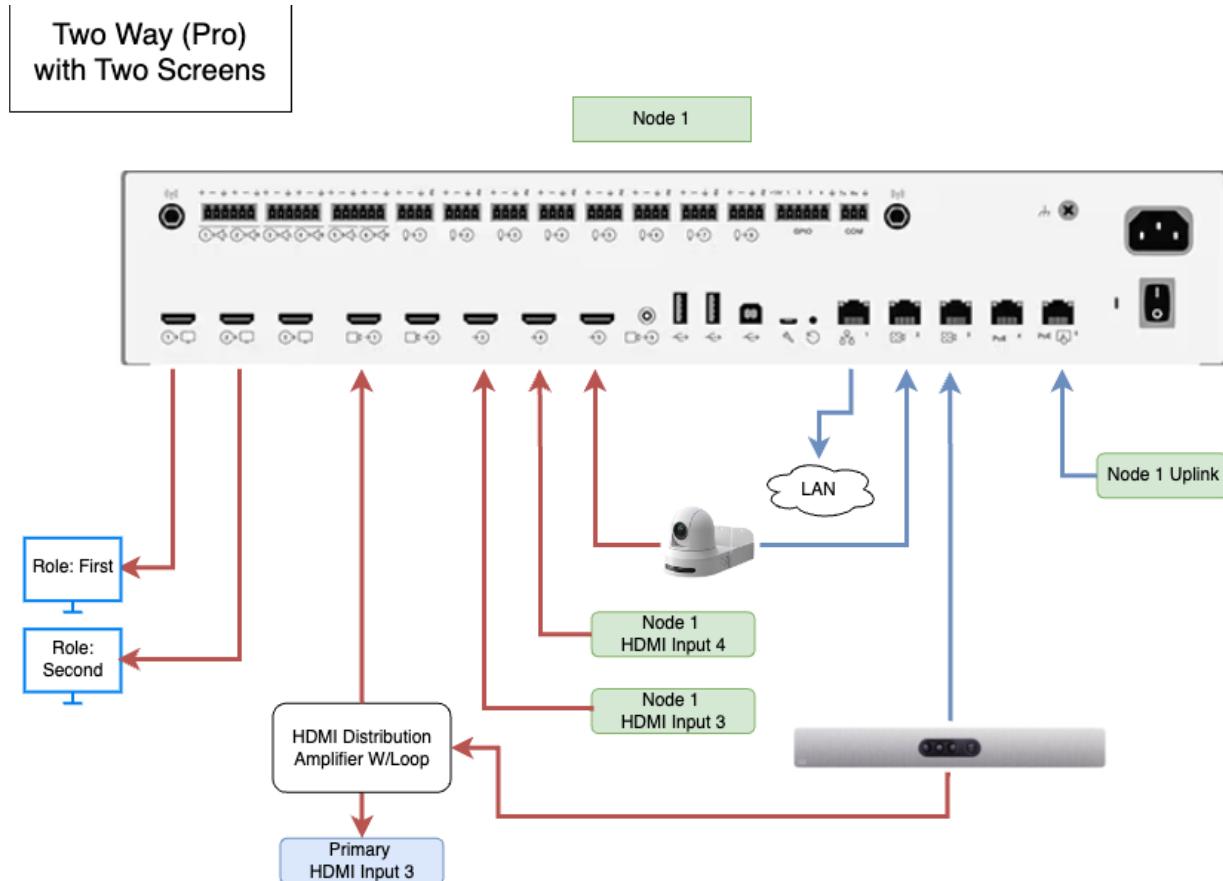
You can find the User Guide documentation here: [User Guide](#)

In-Room Installation

Physical Wiring

The blueprint provides several validated wiring schematics based on the Codecs selected, number of secondary room displays and the Catalyst 9K Switch.

Example Diagram:



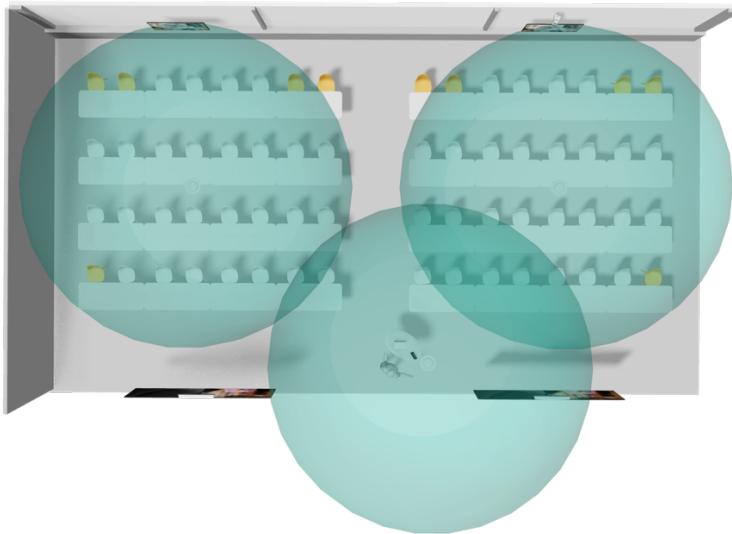
IMPORTANT NOTE

If you are deploying Scheduler Panels into these workspaces, do **NOT** connect them to the switch until **Step 5**.

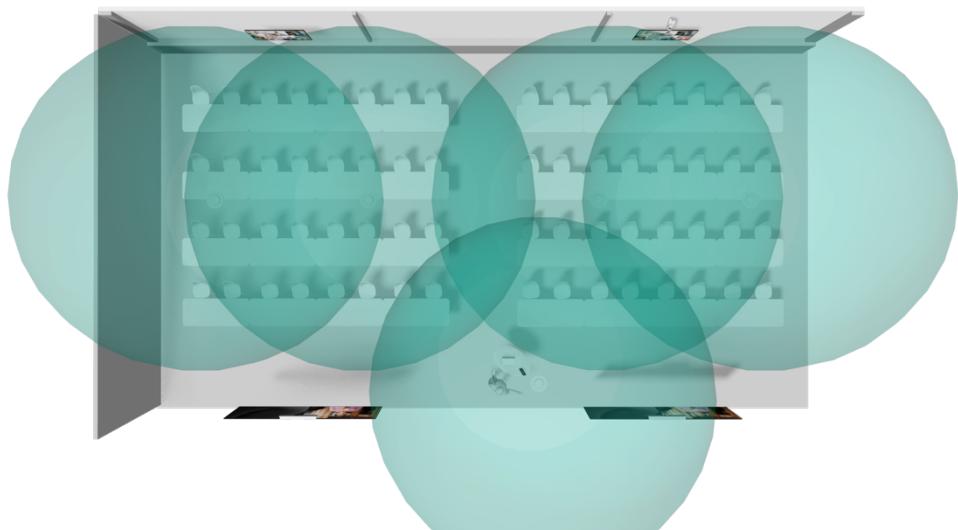
Microphone Installation Guidance

When installing Ceiling Microphone Pros you will want to follow these core concepts:

1. Center the Audience Microphones over the middle of the audience area.



2. If required for room width, add a second microphone to the audience area.



3. Your presenter Microphone should be positioned towards the middle of the combined space as close to the center line area as possible. This allows for adequate coverage of the “Stage” area configured for Presenter Tracking.



Presenter Track Example Perspective

*Please do **not** power on your Codecs or Switch until instructed to.*

Configuration Tasks:

Step 1: Factory Reset Your Switch (If required)

Perform a factory reset using the command:

```
write erase
```

Power off the switch when completed.

Step 2: Prepare the USB Key

Format a USB Key with a **4GB FAT32** partition.

Place the `ciscorctr.cfg` file into the **root directory** of the USB Key.

*Please do **not** rename the file or place it into any subfolder.*

Step 3: Configure the Switch

Insert the USB Key into the front port of the **Catalyst 9K Series**.

Power on the switch.

*Please do **not** power on the Codecs yet. The auto-configuration will take approximately **6 minutes**.*

IMPORTANT: The switch configuration is **NOT** automatically written to memory. This is handled by the macro install process later in this guide.

Please do not power off the switch until setup is complete.

Step 4: Control Hub Configuration

Log in to [Control Hub](#).

Select **Devices** from the left-hand menu.

Click on **Templates** and then **Create Template**.

Provide a descriptive name, e.g., "*Divisible Workspaces*".

Configure the Template with the following configurations and values:

Attribute	Value
HttpClient > AllowInsecureHTTPS	True
HttpClient > Mode	On
Macros > Mode	On
Macros > EvaluateTranspiled	False
Video > Input > CameraConfigMode	Auto

Example Screenshot:

The screenshot shows the Control Hub interface for creating a new template named "Divisible Workspaces". The page is divided into sections: General, Details, and Configuration.

General section:

- Description: Sets the required configuration settings for Divisible Workspaces.
- Configurations: 5

Details section:

- Last edited: 03/27/2025 by Mark Lula
- Date created: 02/28/2025 by Mark Lula

Configuration table:

Configuration	Value
HttpClient > AllowInsecureHTTPS	(Default) → True
HttpClient > Mode	(Default) → On
Macros > Mode	(Default) → On
Video > Input > CameraConfigMode	(Default) → Auto
Macros > EvaluateTranspiled	(Default) → False

Step 5: Register Codecs then connect Scheduler Panels

Power on your codecs.

Register them to their respective Workspaces in Control Hub. You may now connect the Scheduler Panels to their appropriate ports on the Catalyst 9K switch.

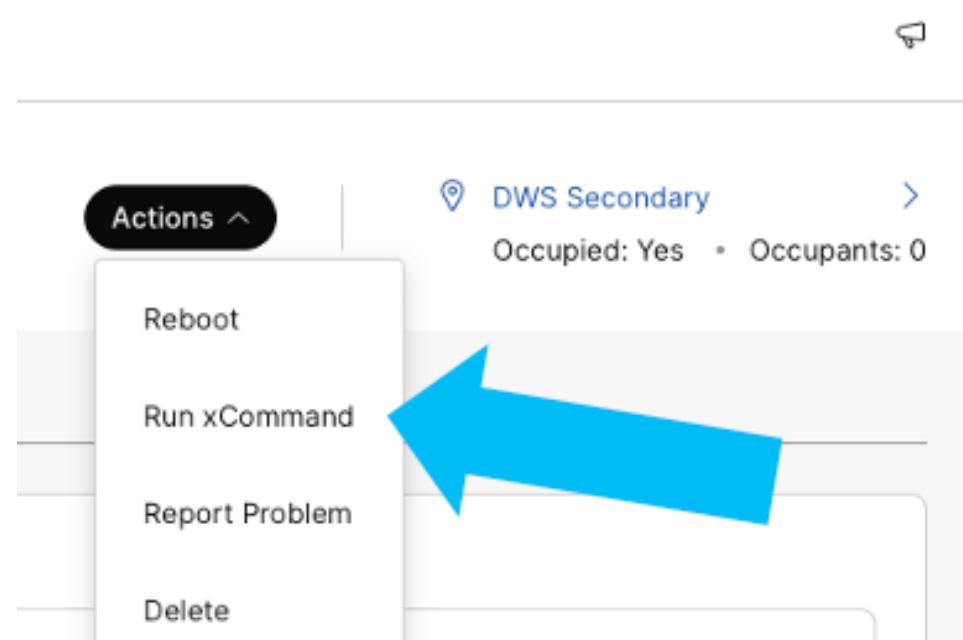
Step 6: Apply Configuration Template

Apply the previously created configuration template to **all devices**.

Step 7: Configure the Secondary Room(s)

Open the device page for all **Secondary Room(s)**.

Click **Actions** and select **Run xCommand**.



Navigate to **UserManagement** and select **Add**.

Run xCommands

This interface lets you run xCommands on the selected device. To learn more about xCommands, visit the [RoomOS Documentation](#).

Search for a command name

Time

UserInterface

UserManagement 12

UserPresence 3

GetState

UserManagement > User

Add

Delete

Get

Complete the highlighted values:

Arguments

* indicates a required field

Role *

Admin

Audit

User

Integrator

RoomControl

ClientCertificateDN

string

Active

True

Username *

YOUR USERNAME

Passphrase *

YOUR PASSWORD

YourPassphrase

string

ShellLogin

Select an option

PassphraseChangeRequired

False

Click **Execute**.

Step 8: Download Wizard Macro

Download the **DWS_Wizard.js** macro file from here: [Macro](#)

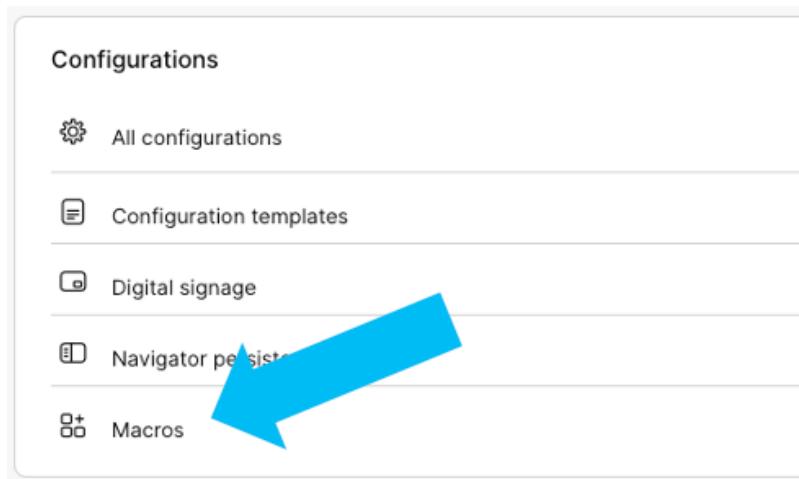
Note, your browser may restrict the download due to it being a JavaScript file.

The remaining Macros in the GitHub repository are automatically loaded during setup. You do not need to download them.

Step 9: Deploy the Wizard to the Primary Room

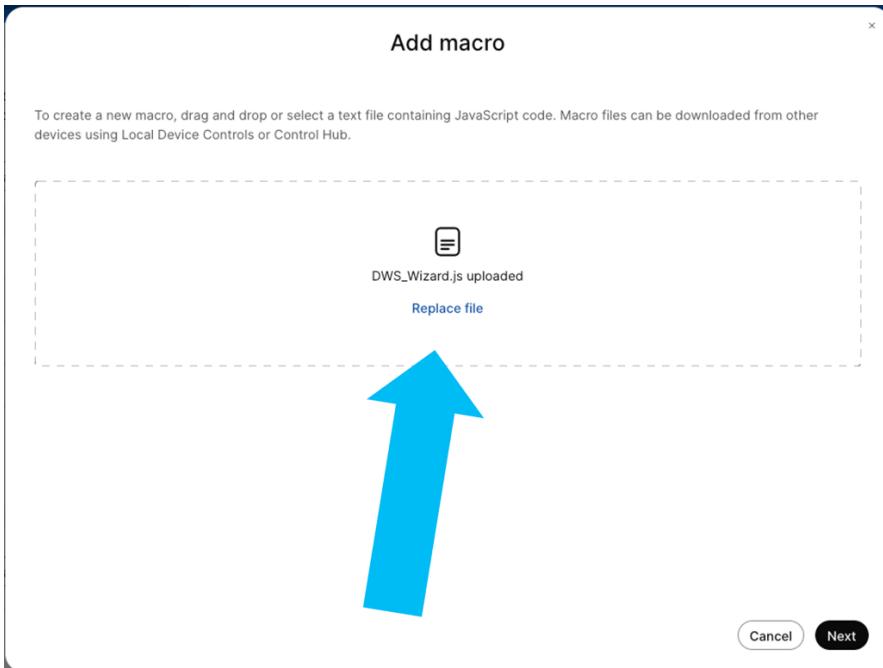
Open the device page for the **Primary Room**.

Select **Macros**.



Click **Add Macro**.

Upload the **DWS_Wizard.js** file.



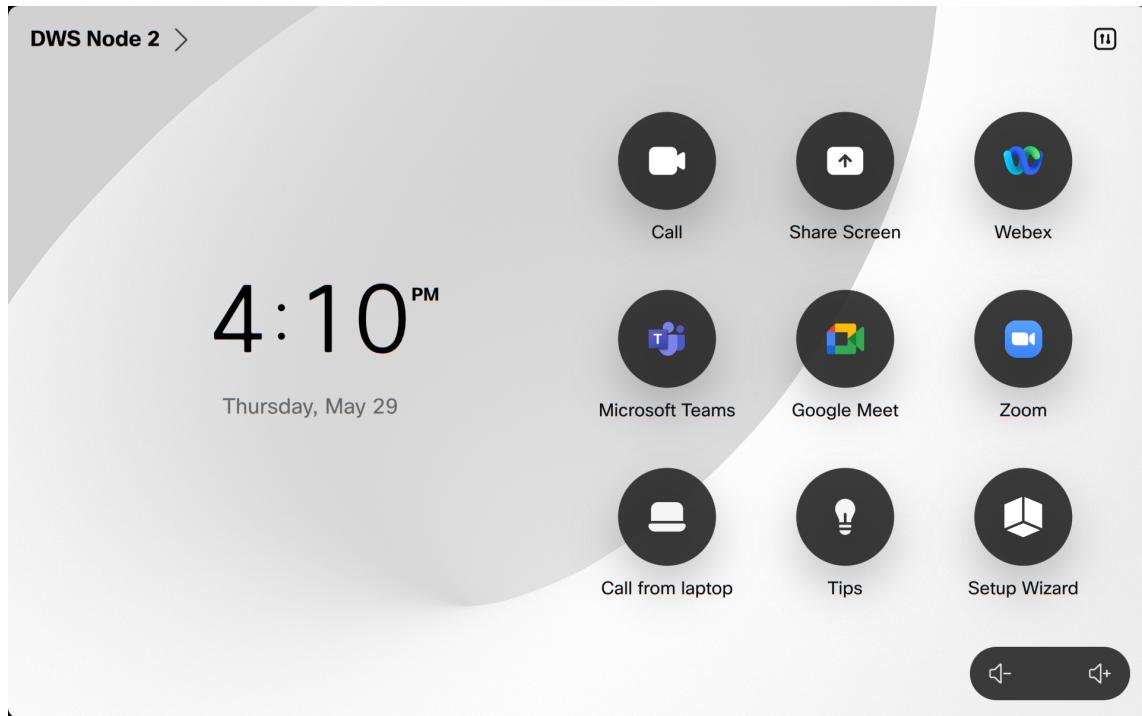
*Do **not** rename the macro.*

Ensure the **Enabled** toggle is switched on and Click **Save**.

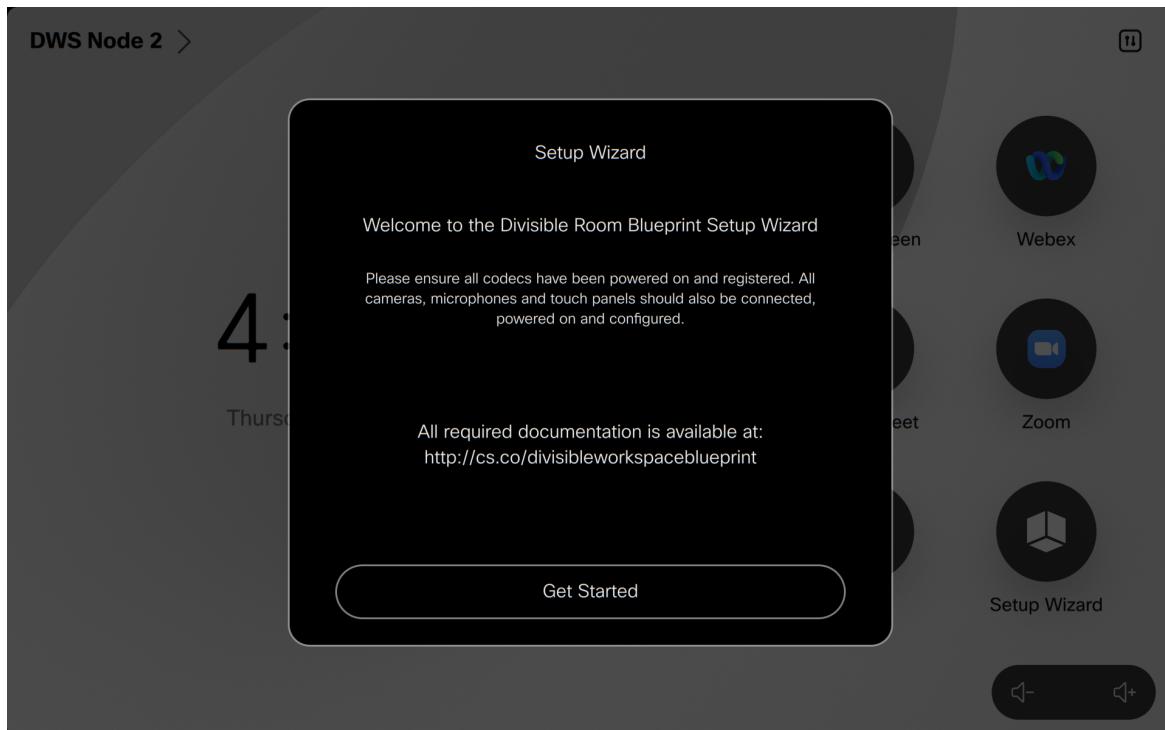


Step 11: Complete the Setup Wizard

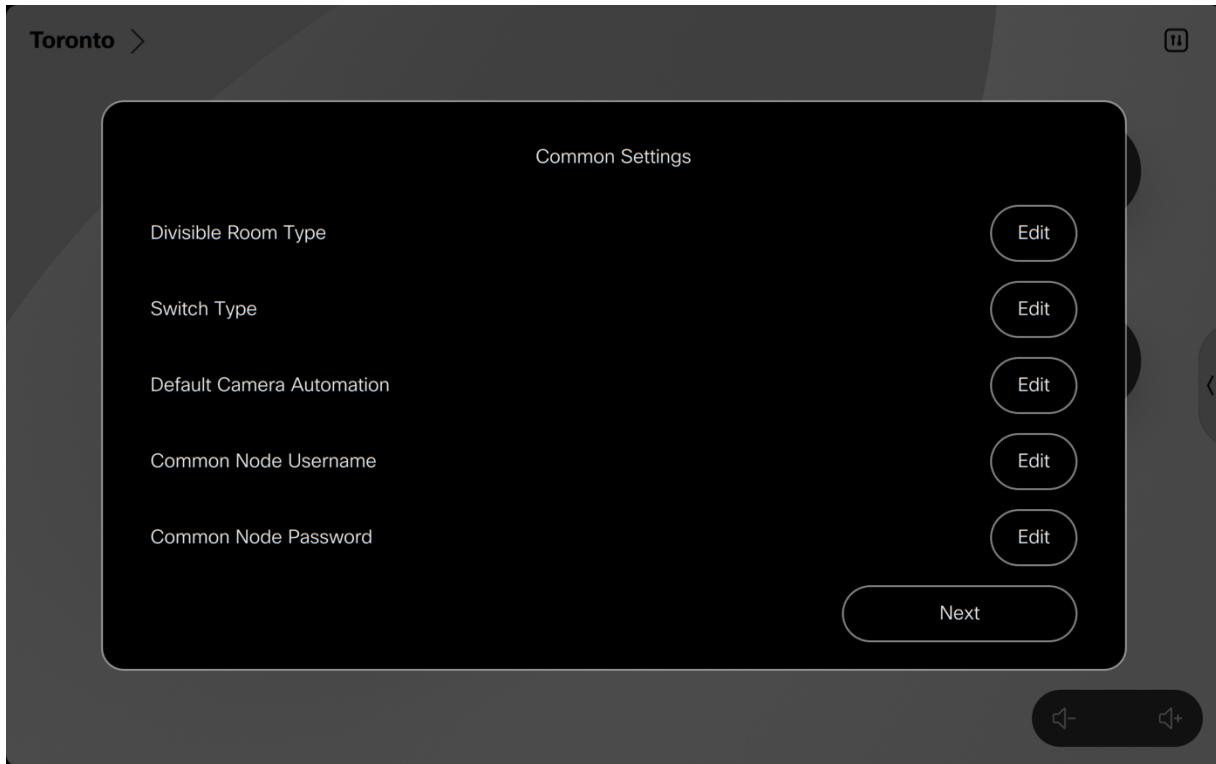
On the room Navigator, select **Setup Wizard** from the home screen.



Complete each step of the wizard.

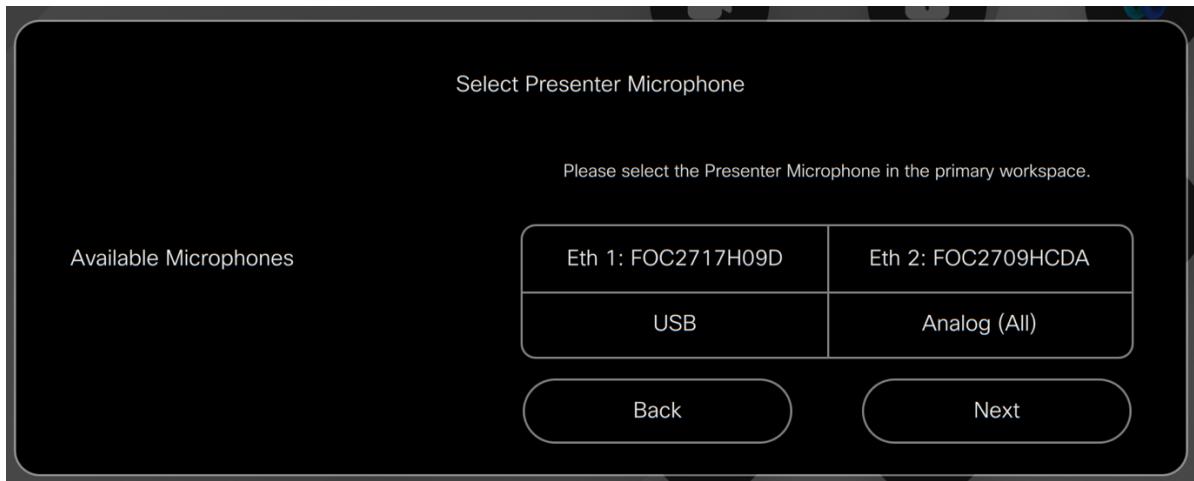


The first step is where your common settings will be configured. When entering the Username and Password, use the credentials you configured in Step 5.

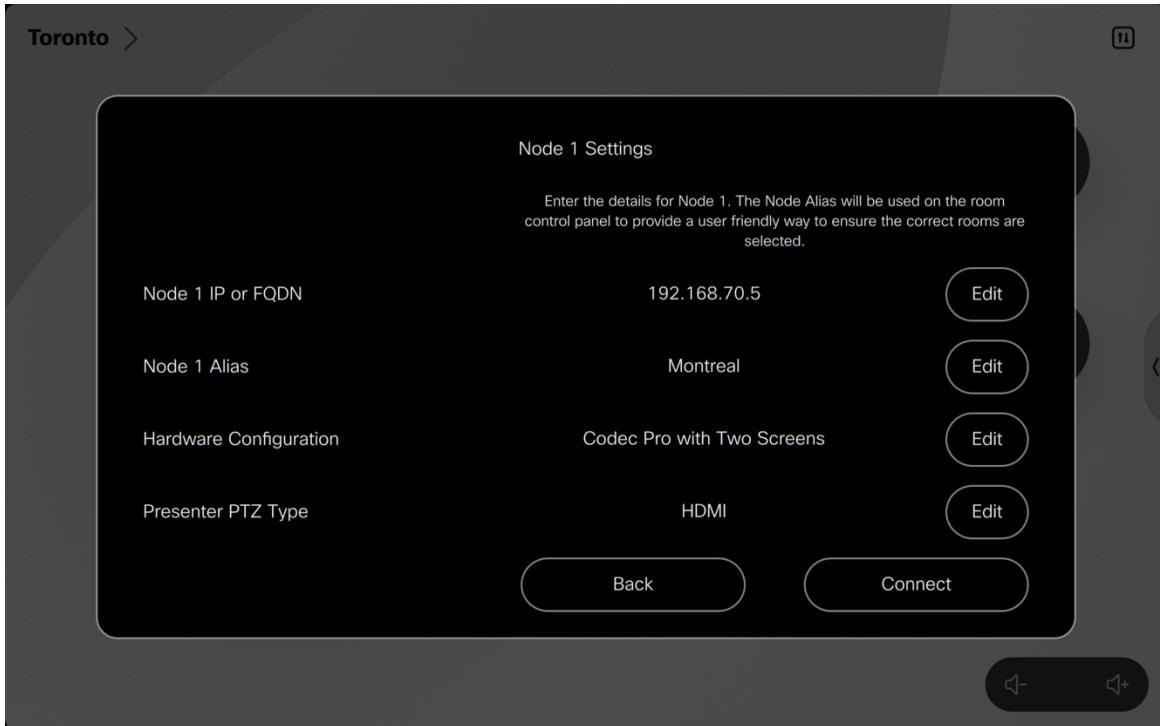


You will then be asked to select the Presenter Microphone. Cisco IP Microphones will be shown as serial numbers.

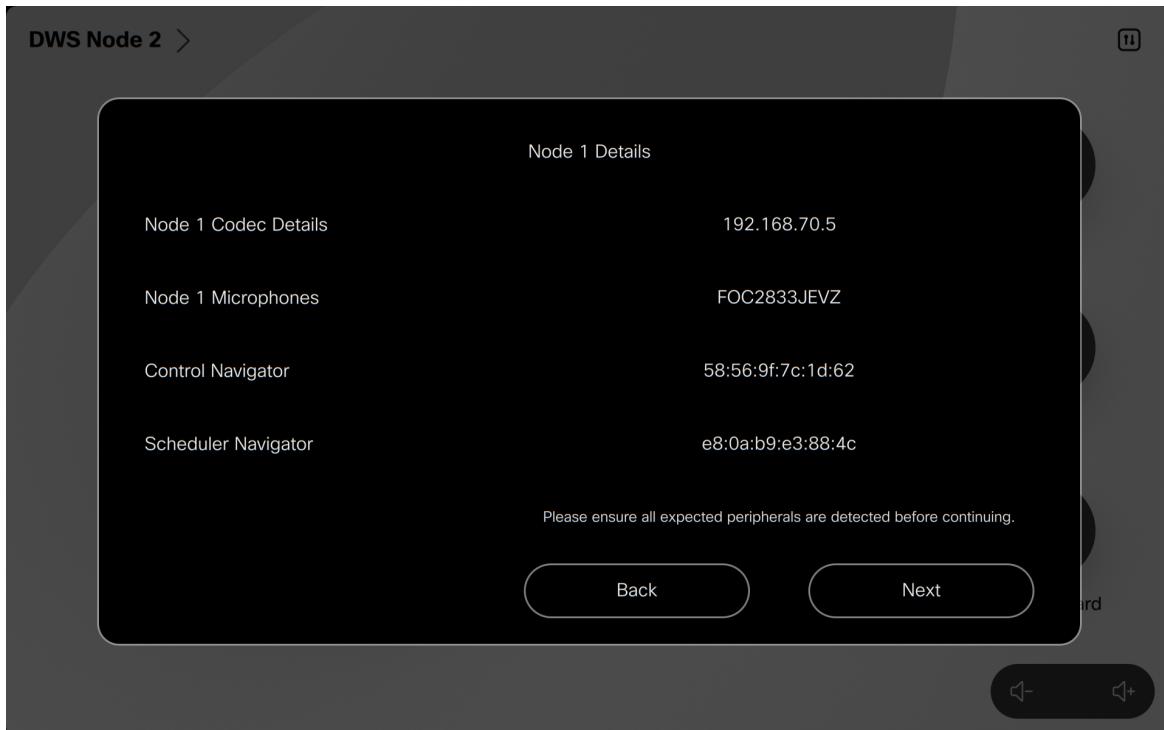
*If you are **NOT** using a Cisco IP Microphone as the presenter microphone during combined operation, select either USB or Analog and proceed.*



When you get to the Node Codec setting page, Enter the details and click **Connect**.

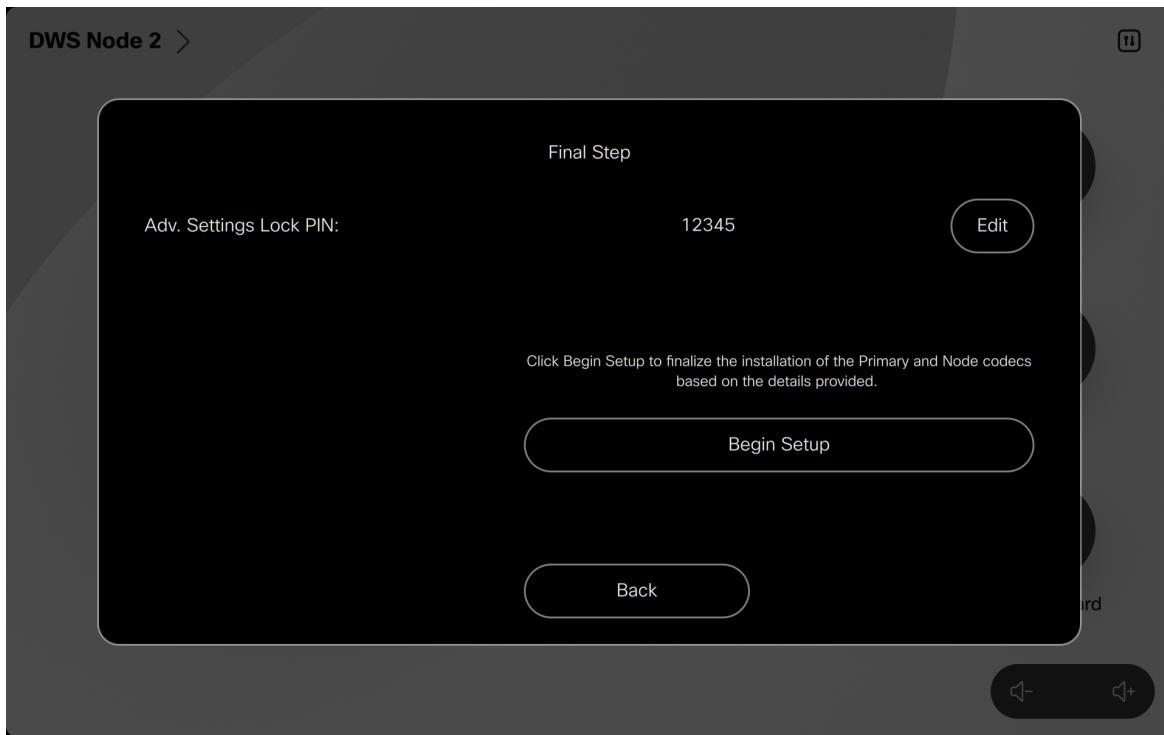


The macro will connect to the Node Codec and gather all peripheral details. Please validate all expected peripherals have been found. If not detected, hit back, connect the peripheral and click **Connect** again.

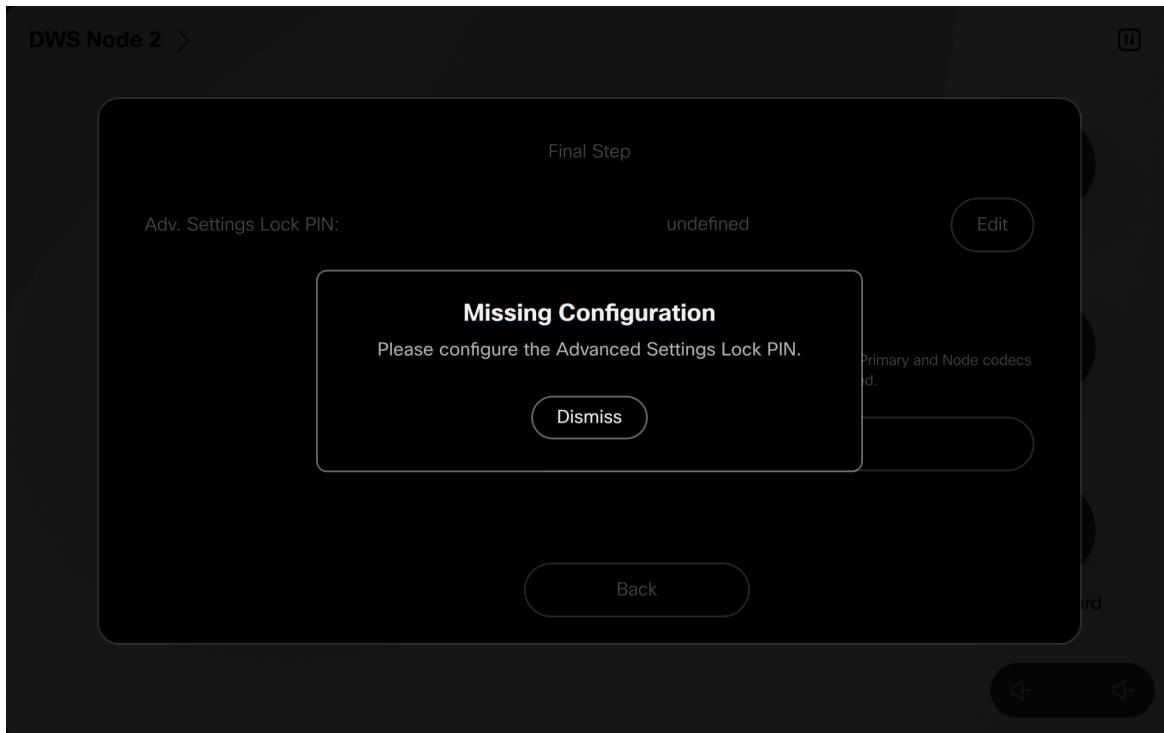


If you selected Three Way Divisible, repeat the steps above for Node 2.

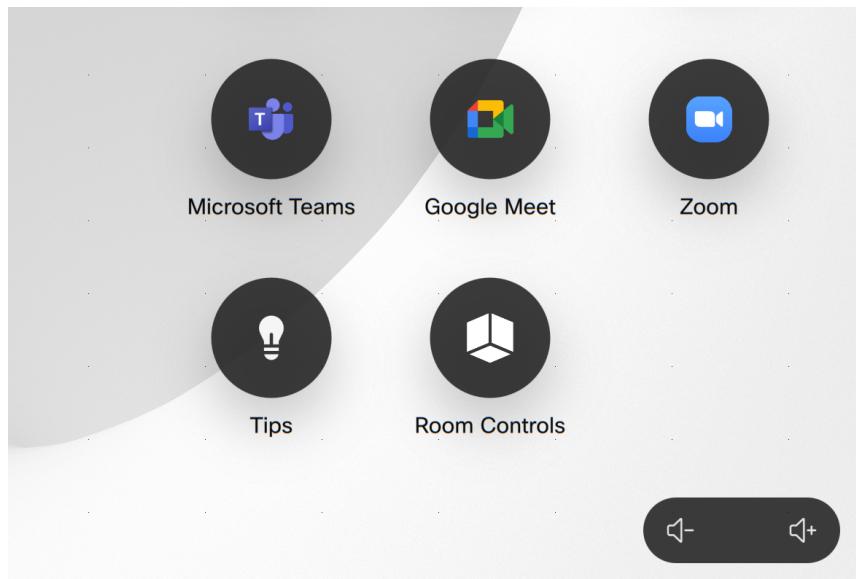
Click **Begin Setup** to finalize your configuration.



You *may* be prompted to fill in any required field that was missed.

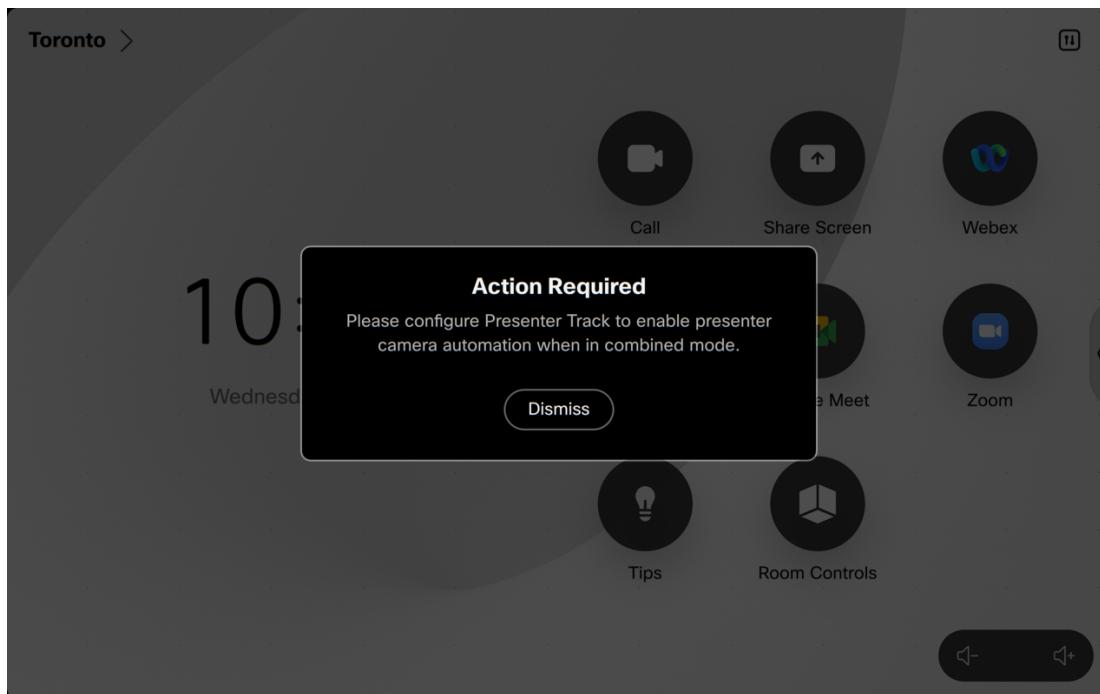


On the Room Navigator Home screen, you should now see the **Room Controls** button.



Step 12: Post Wizard Configuration

You will be prompted to configure Presenter Track to enable presenter-based camera automation in combined mode operations.



Installation Complete!