Divisible Workspace Blueprint

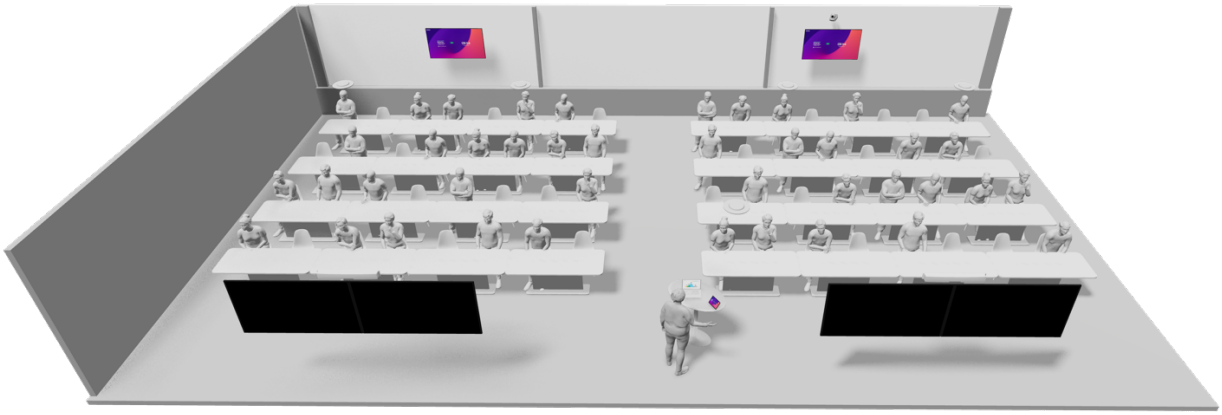
On Premise Installation Guide

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 Premise Registered devices (CUCM or Expressway) that have Internet Access and can reach Github.com

Cloud registered devices leverage this installation guide: **Cloud 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**

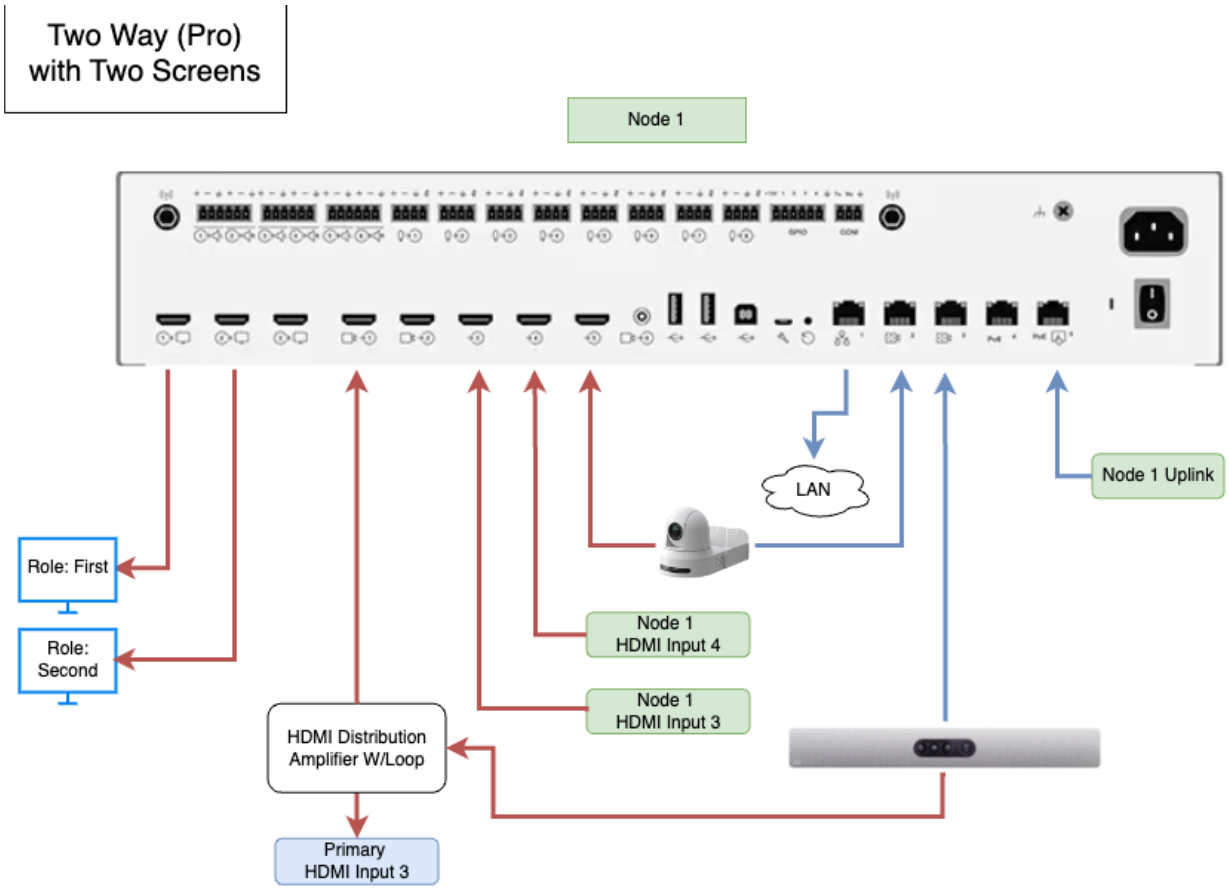
You can find the User Guide documentation here: **User Guide**

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:



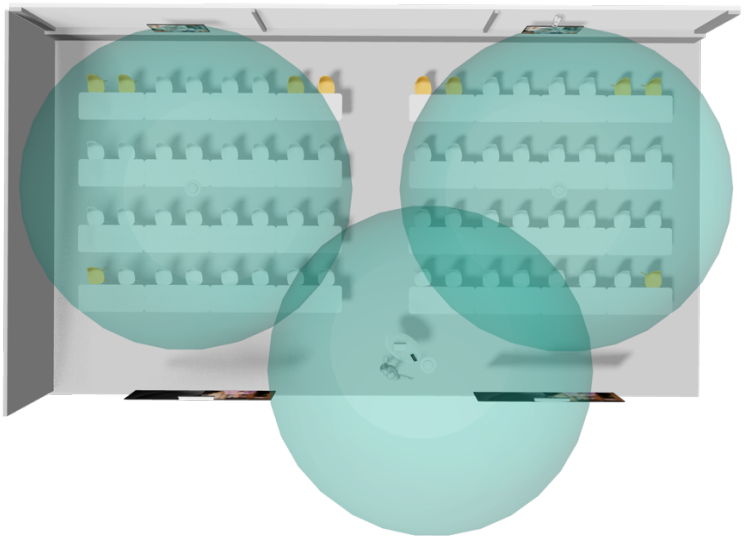
IMPORTANT NOTE

*If you are deploying Scheduler Panels into these workspaces, do **NOT** connect them to the switch until step 4.*

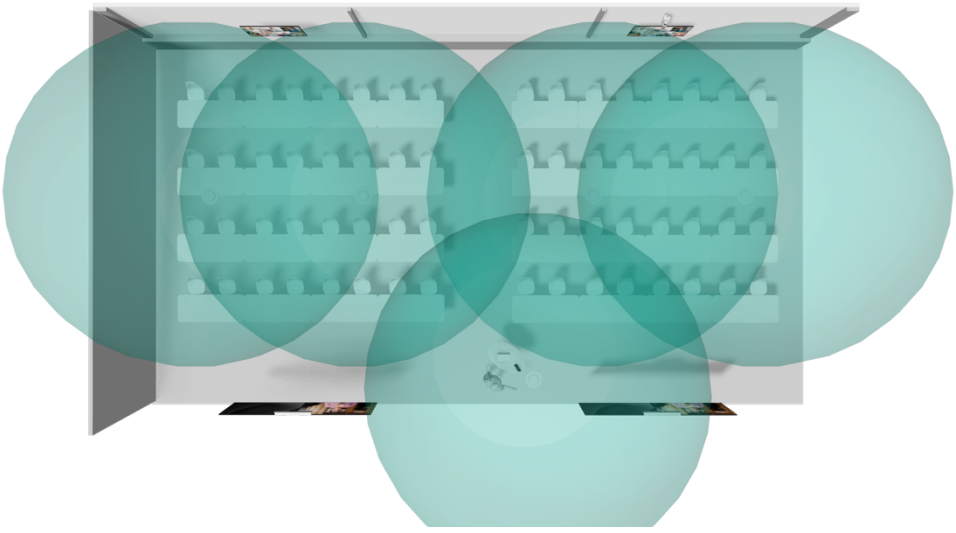
Microphone Installation Guidance

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"** from config mode.

Power off the switch when completed.

Step 2: Prepare the USB Key

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

Download the correct router configuration from the GitHub repository: **HERE**

Place the ciscortr.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: Register Codecs and connect Scheduler Panels

Power on your codecs. Register them to your premise infrastructure using the initial start-up wizard.

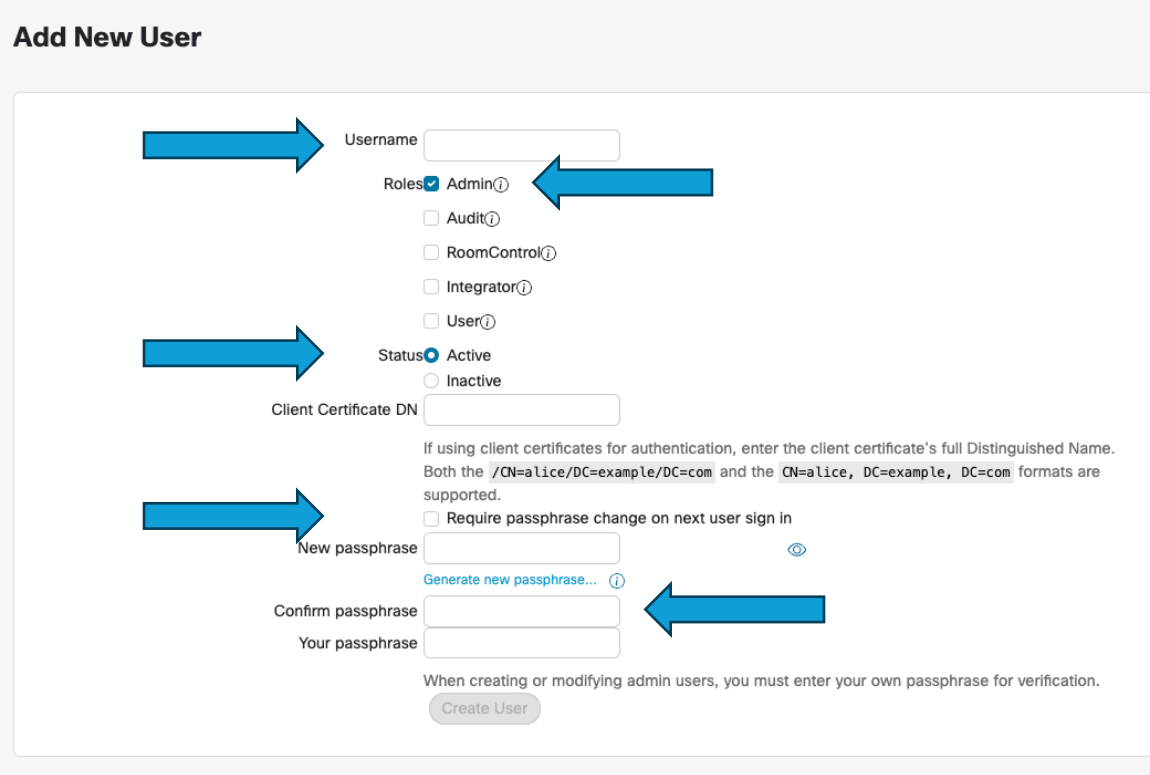
You may now connect the Scheduler Panels to their appropriate ports on the Catalyst 9K switch.

Step 5: Configure Local Admin Users

Log into your **Node** Codec using its IP Address in your web browser. The default username is **admin** with a **blank** password. If you are asked to set a password, please do so now.

On the left-hand Menu, Select **Users** then click **Create User.**

Enter a **Username**, Select the Role as Admin, Enter the passphrase, confirmation and the password you set for the **admin** user above. Ensure the "Require passphrase change on next user sign in" is **Unchecked**.



Click **Create User**.

Repeat Step 5 on all Node Codecs and optionally on the Primary Codec

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Step 6: Set the baseline Codec Configurations

Log into your **Node** Codec using its IP Address in your web browser.

On the left-hand menu, select **Settings**.

Modify the following configurations to the provided values:

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

---

*(**Required**) Repeat Step 6 on **ALL** Node Codecs and the **Primary** Codec*

Step 7: Download the Wizard Macro

Download the **DWS_Wizard.js** macro file from GitHub: **HERE**

Note, your browser may restrict the download due to it being a JavaScript file. Follow the guidance provided within your browser to complete the download.

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

Step 8: Deploy the Wizard to the Primary Room

Log into your **Primary Room** Codec using its IP Address in your web browser.

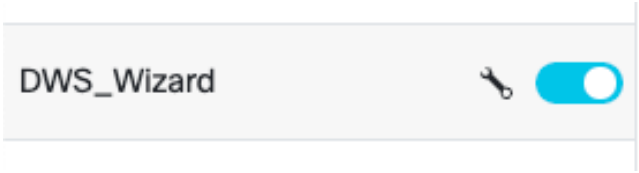
On the left-hand menu, select **Macro Editor**.

While in the editor window, you can install the macro by:

1. Drag and drop the **DWS_Wizard.js** on the middle pane.
2. Select **Import from file** and select the **DWS_Wizard.js** file.

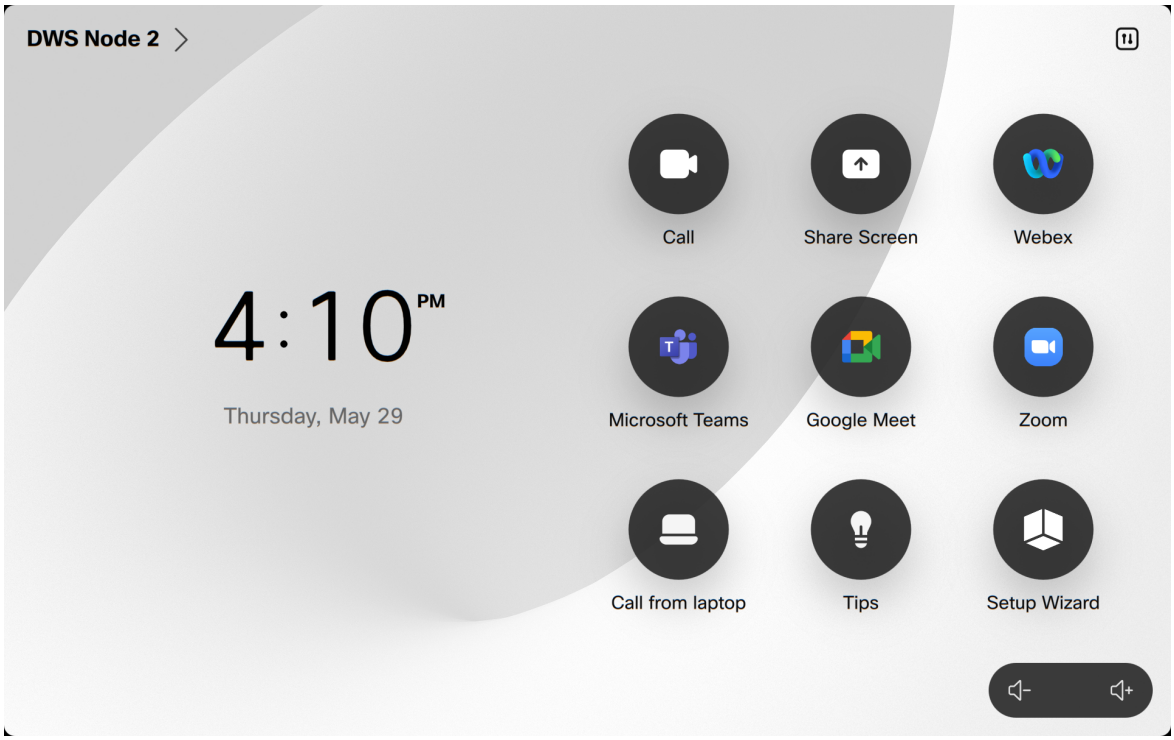
You will now see **DWS_Wizard** added to the left-hand pane.

Toggle the **DWS_Wizard** Macro to **On.**

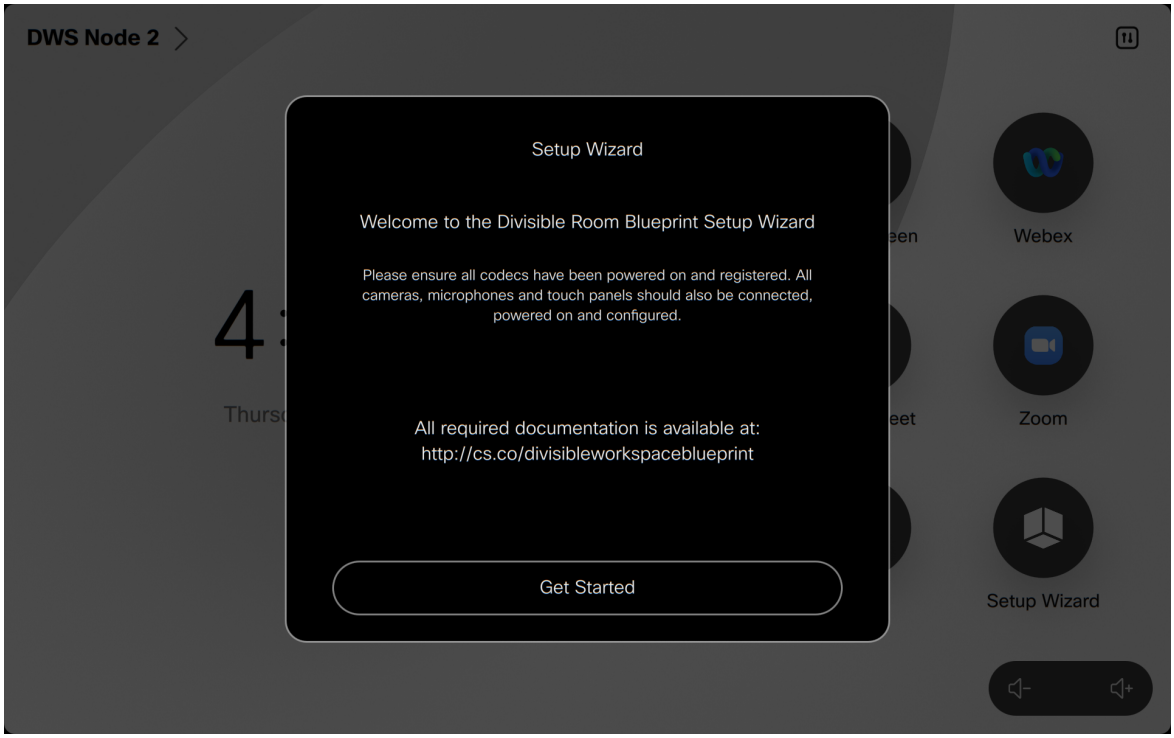


Step 9: Complete the Setup Wizard

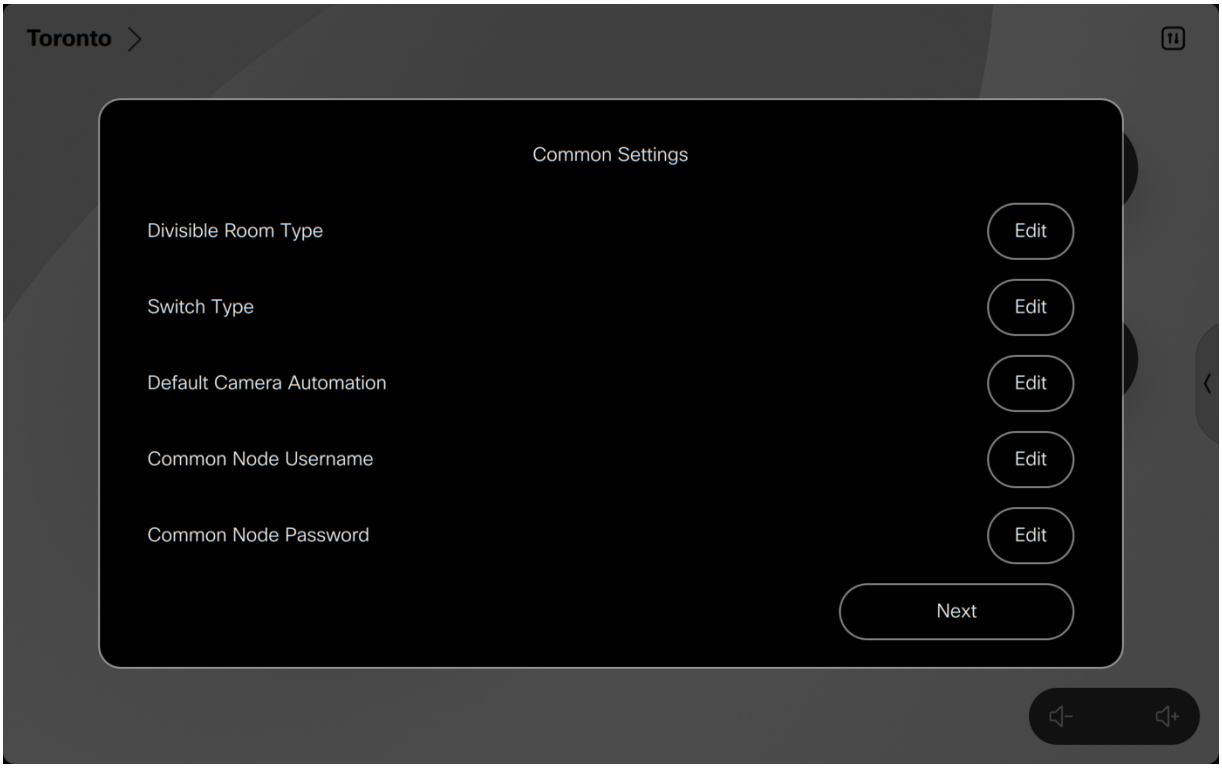
On the room Navigator, select **Setup Wizard** from the home screen.



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.

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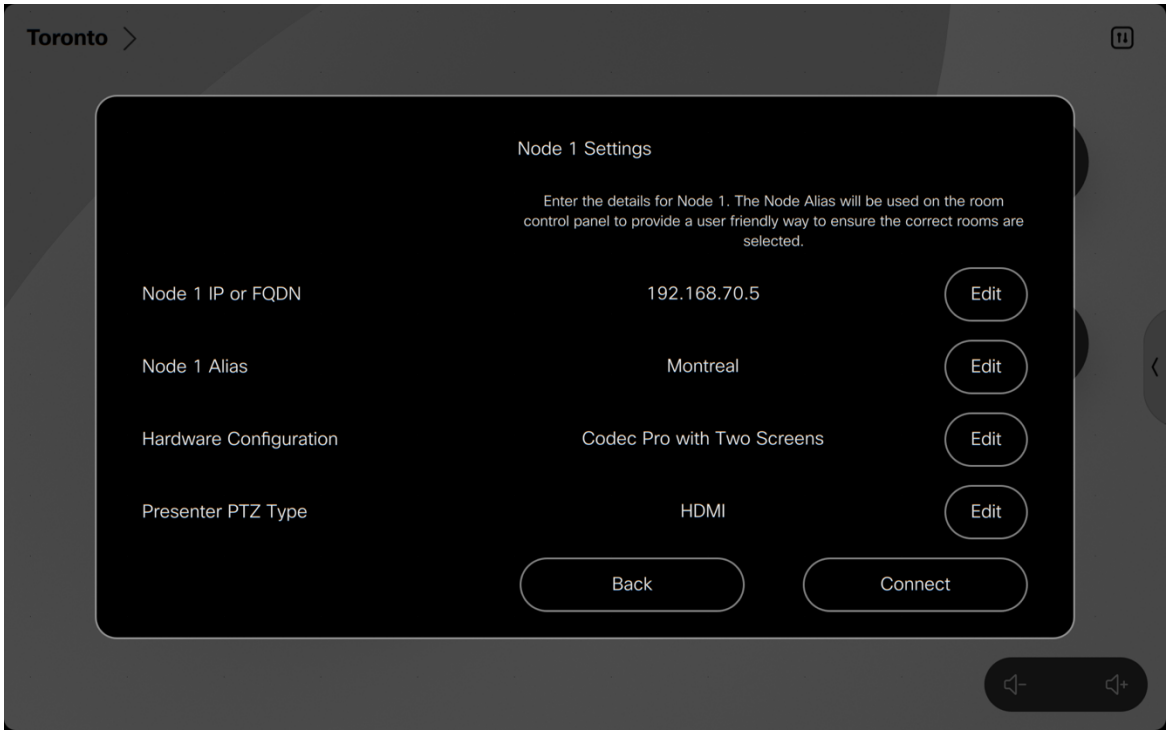
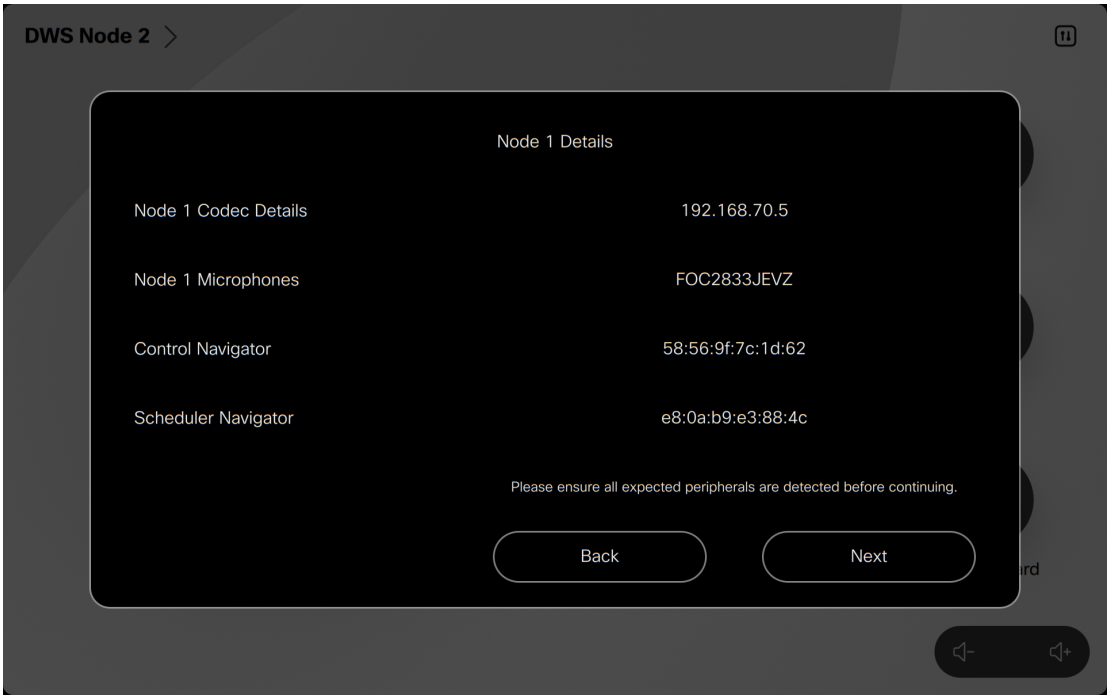
*If you are **NOT** using a Cisco IP Microphone as the presenter microphone during combined operation, select either USB or Analog and proceed.*

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

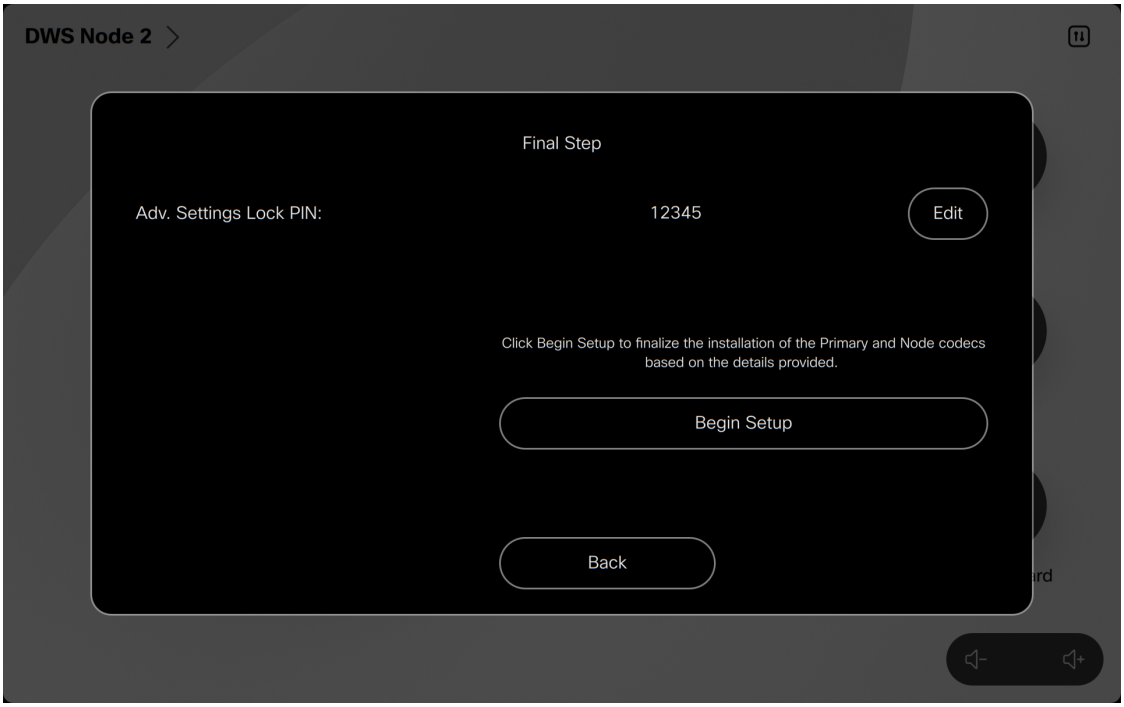


The macro will connect to the Node Codec and gather all peripheral details. Please validate all expected peripherals have been found. If not detected, hit back, connect the peripheral and click **Connect** again.

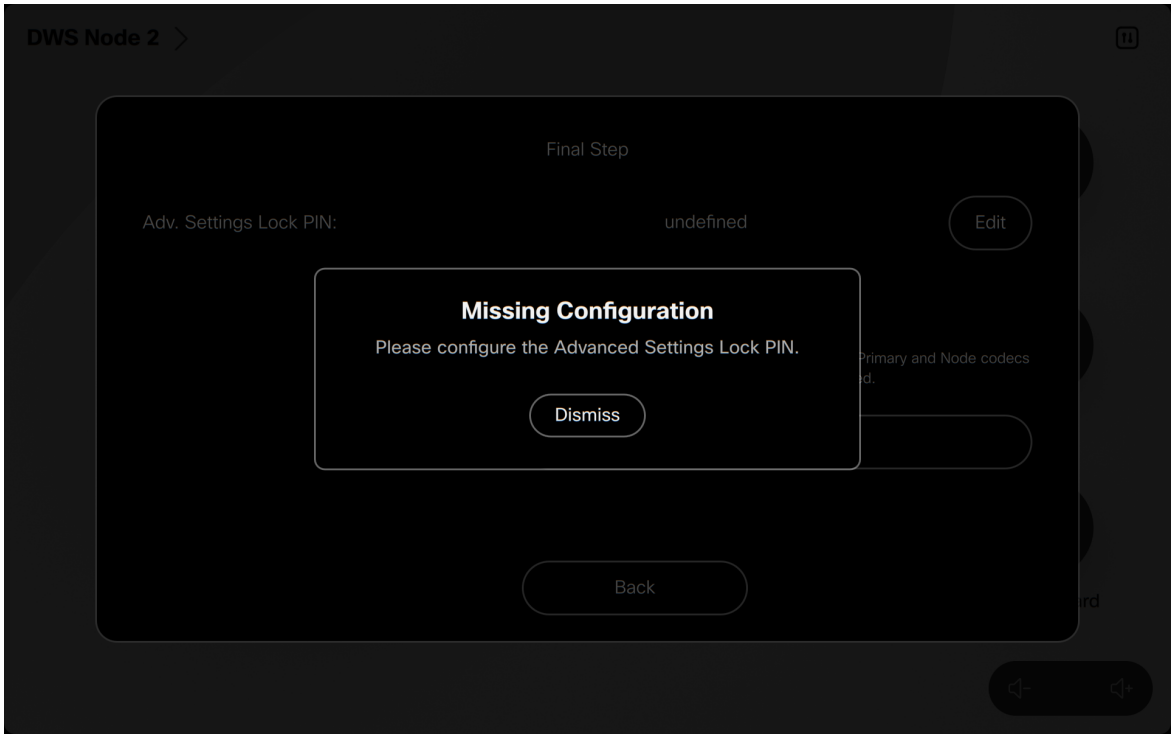


If you selected Three Way Divisible, repeat the steps above for Node 2.

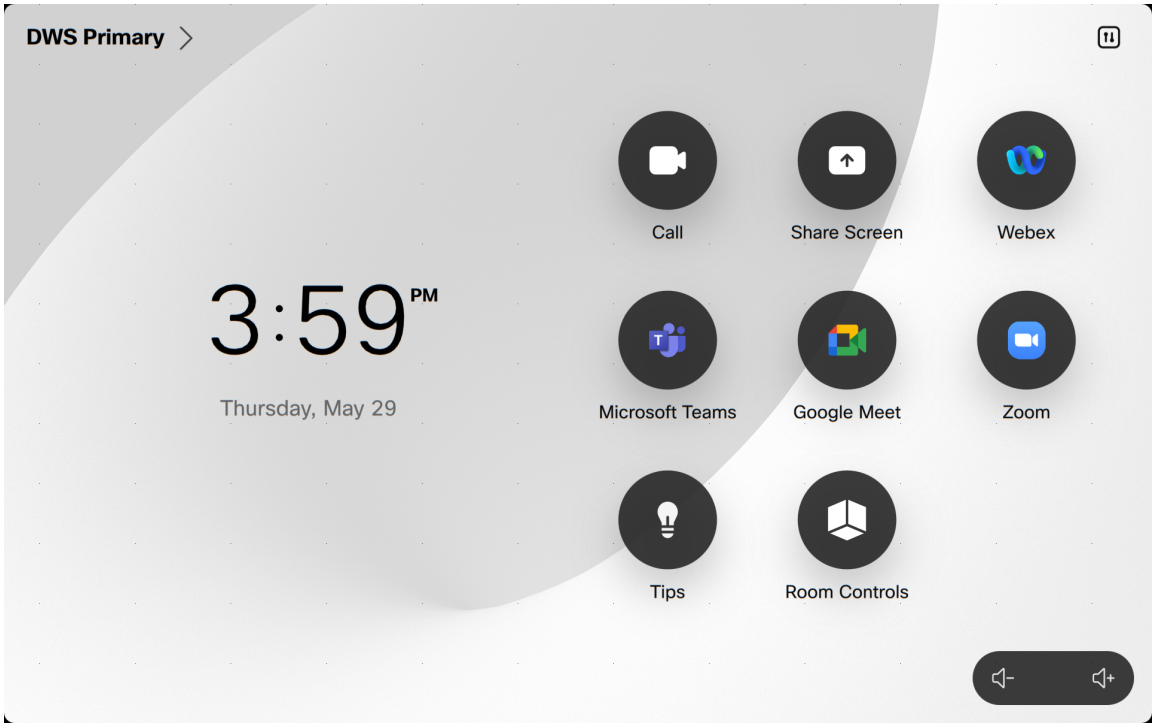
Click **Begin Setup** to finalize your configuration.



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

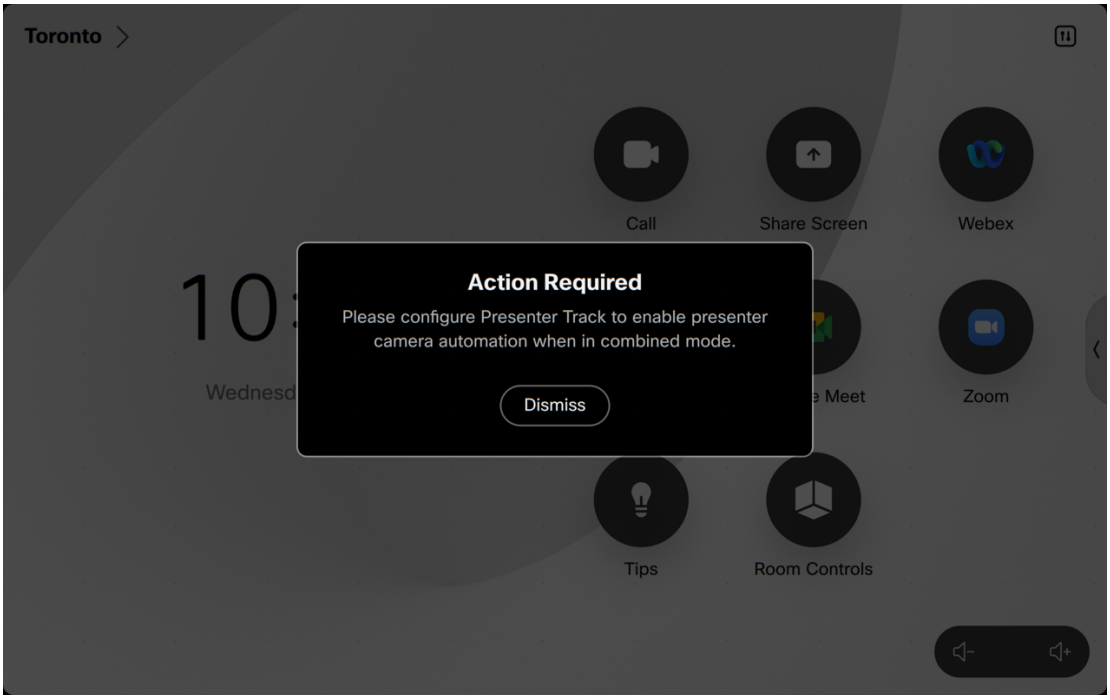


On the Room Navigator Home screen, you should now see the **Room Controls** button.



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!