

Divisible Workspace Blueprint

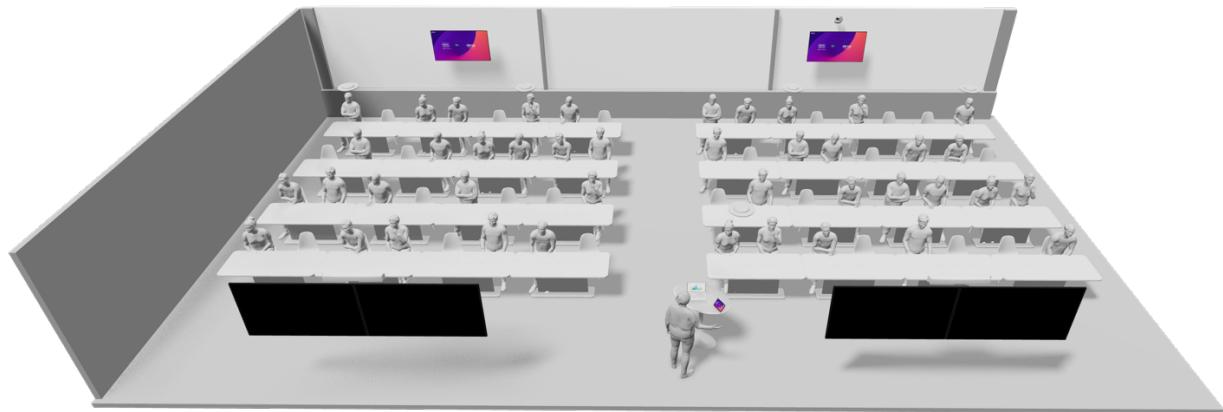
Cloud Registered Installation Guide

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

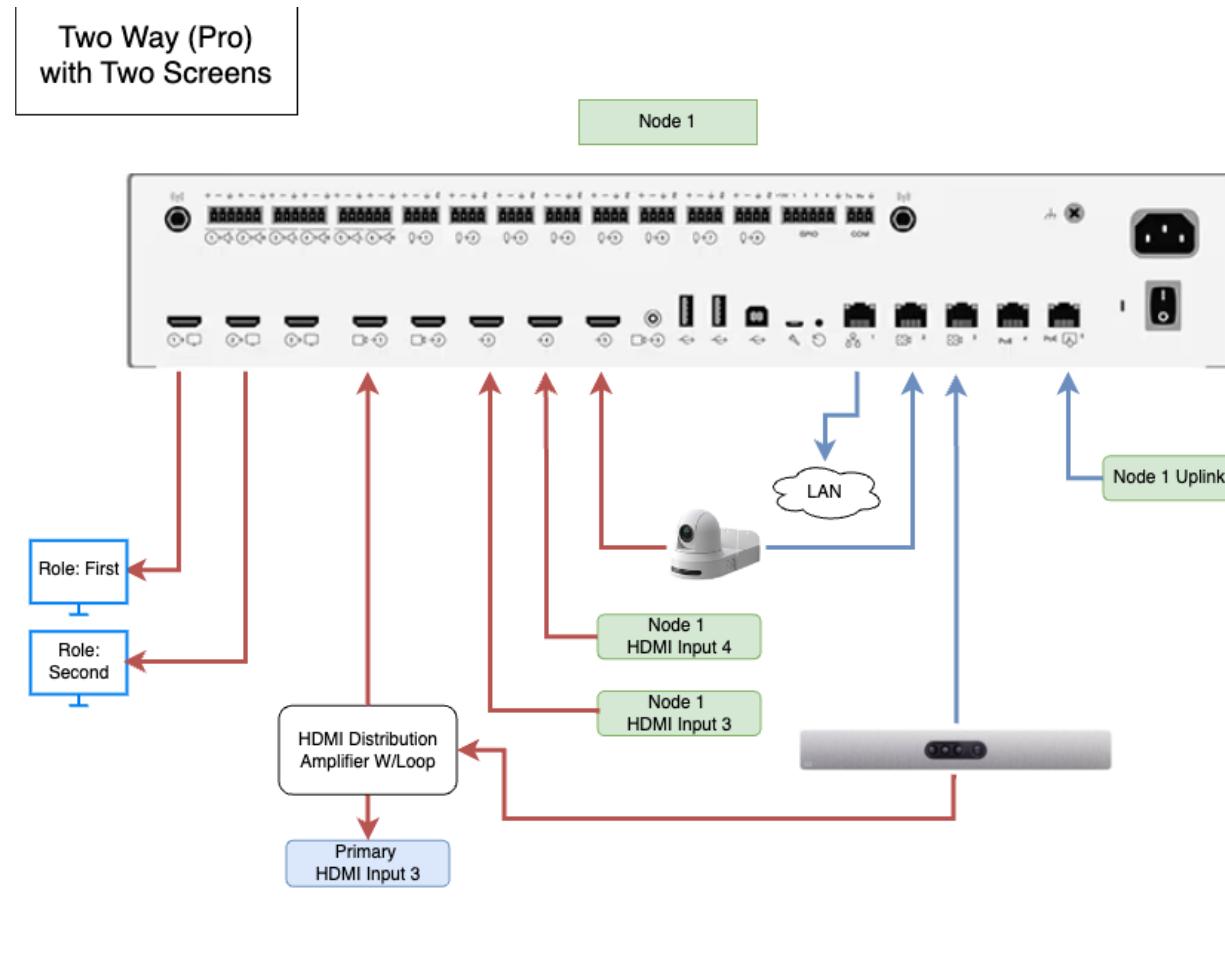
You can find the User Guide documentation here: [User Guide](#)

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:



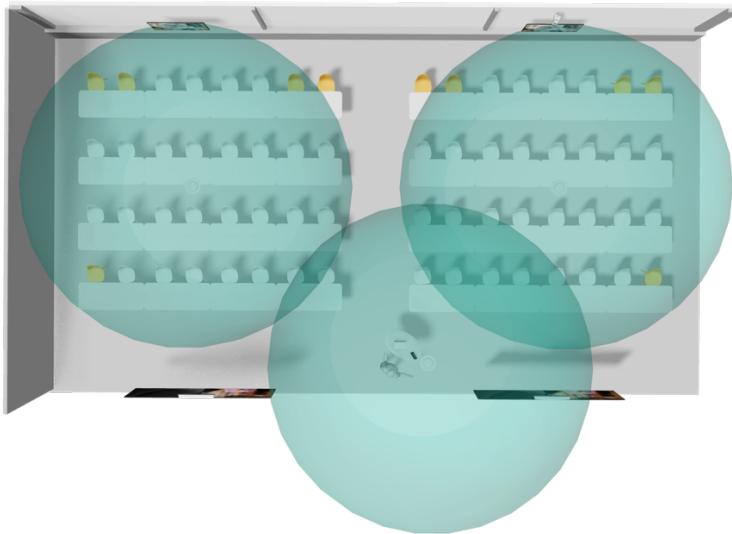
IMPORTANT

Do not power on any Codecs, switch or connect Scheduler Panels until expressly instructed. The Blueprint leverages several mechanisms that rely on a pre-defined order of operations.

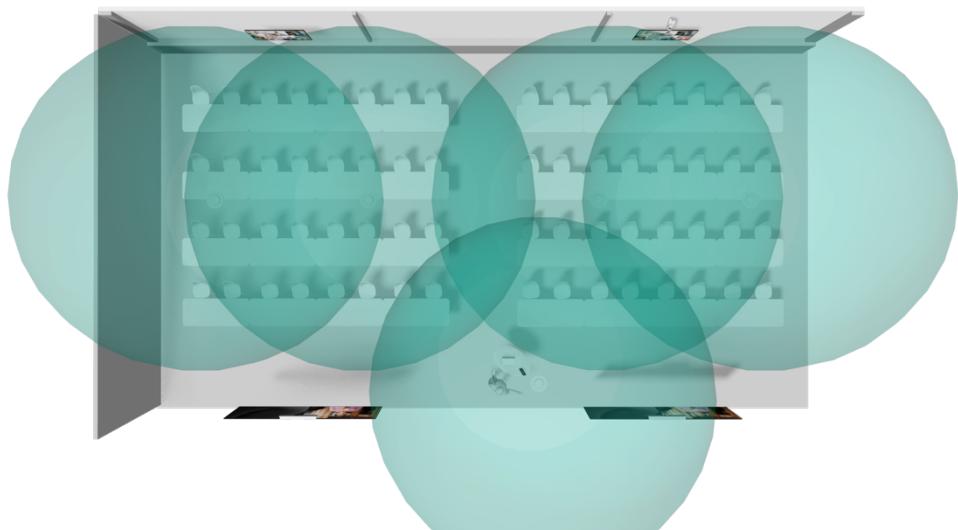
Microphone Installation Guidance

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

Configuration Tasks

*Please do **not** power on your Codecs or Switch until **Step 4**.
If you are deploying Scheduler Panels, do **not** connect them until **Step 5**.*

Step 1: Prepare the USB Key

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

Download the appropriate “**ciscotr.cfg**” file to match the n-way and switch model you are deploying from the GitHub Repository: [Switch Configurations](#)

Place the “**ciscotr.cfg**” file into the **root directory** of the USB Key.

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

Step 2: Configure the Switch

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

Power on the switch. Do **not power on the Codecs.**

*Switch auto-configuration will take **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 3: 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
Video > Input > CameraConfigMode	Auto

Example Screenshot:

The screenshot shows the Control Hub interface with the 'Templates' page open. At the top, there's a breadcrumb navigation: '< Templates'. Below it, a header bar with a back arrow, the title 'Divisible Workspaces', and an 'Actions' dropdown. The main content area has two sections: 'General' and 'Details'. The 'General' section contains a description: 'Sets the required configuration settings for Divisible Workspaces.' and a count of '5 Configurations'. The 'Details' section shows the last edit date as '03/27/2025' and the last editor as 'Mark Lula'. It also shows the creation date as '02/28/2025' and the creator as 'Mark Lula'. Below these sections is a table of configuration settings with their current values:

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

Step 4: Power on and Register Codecs

Power on your codecs.

If not pre-configured, follow the steps documented here (<https://help.webex.com/en-us/article/ndb7w0db/Generate-an-activation-code-for-a-device>) to create new Control Hub Workspaces for each of the physical Divisible Workspaces.

Follow on the on-screen wizard to register the codecs in each physical workspace to their respective Control Hub Workspace using the 16-digit codes from above.

Step 5: Connect Scheduler Panels (Optional)

If deploying Scheduler Panels, connect the additional Room Navigators to their appropriate ports on the Catalyst 9K switch.

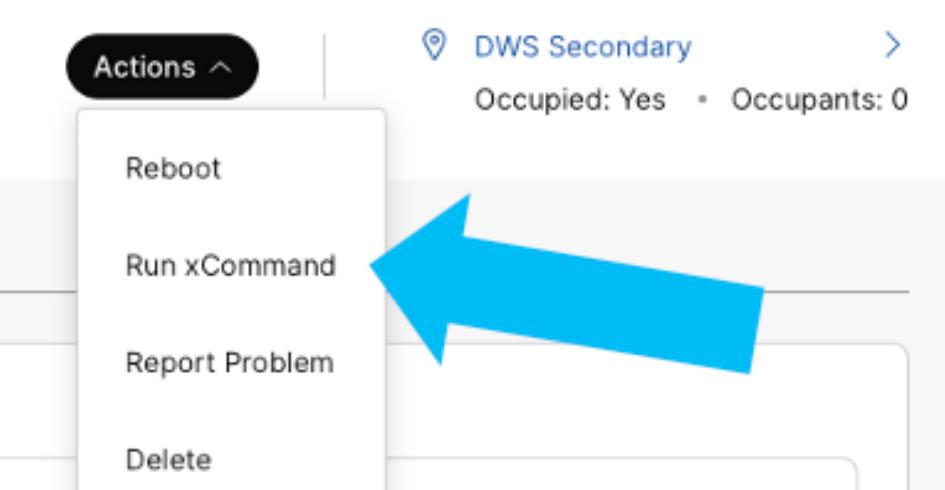
Step 6: Apply Configuration Template

Apply the previously created configuration template by following the steps documented here (https://help.webex.com/en-us/article/n5pqqcm/Device-configurations-for-Board,-Desk,-and-Room-Series-devices#Cisco_Task.dita_d08ea382-e100-4abb-87da-50bf62727953) to **all** Divisible Workspaces (Primary and Nodes).

Step 7: Configure the Node Room(s)

From the left-hand menu select Devices then search for the first **Node Room** and select it.

In the top right, Click **Actions** and select **Run xCommand**.



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

The screenshot shows the RoomOS interface with the following components:

- Run xCommands**: The title of the main window.
- Search for a command name**: A search bar at the top.
- Time**, **UserInterface**, **UserManagement**, **UserPresence**: Buttons in the left sidebar.
- UserManagement > User**: A section header in the right panel.
- Add**, **Delete**, **Get**: Buttons in the right panel.

A large blue arrow points from the **UserManagement** button in the sidebar to the **Add** button in the right panel.

Complete the highlighted values:

The screenshot shows the **UserManagement > User** add form with the following fields:

- Arguments**: A section header.
- * indicates a required field**: A note.
- Role ***: A dropdown menu with options: Admin (selected), Audit, User, Integrator, RoomControl. A blue arrow points to the **Admin** option.
- ClientCertificateDN**: A string input field.
- Active**: A dropdown menu with options: True (selected), False. A blue arrow points to the **True** option.
- Username ***: An input field containing **YOUR USERNAME**. A blue arrow points to this field.
- Passphrase ***: An input field containing **YOUR PASSWORD**. A blue arrow points to this field.
- YourPassphrase**: A string input field.
- ShellLogin**: A dropdown menu with options: Select an option (selected), User, Admin. A blue arrow points to the **Select an option** option.
- PassphraseChangeRequired**: A dropdown menu with options: False (selected), True. A blue arrow points to the **False** option.

Click **Execute**.

Step 8: Download Wizard Macro

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

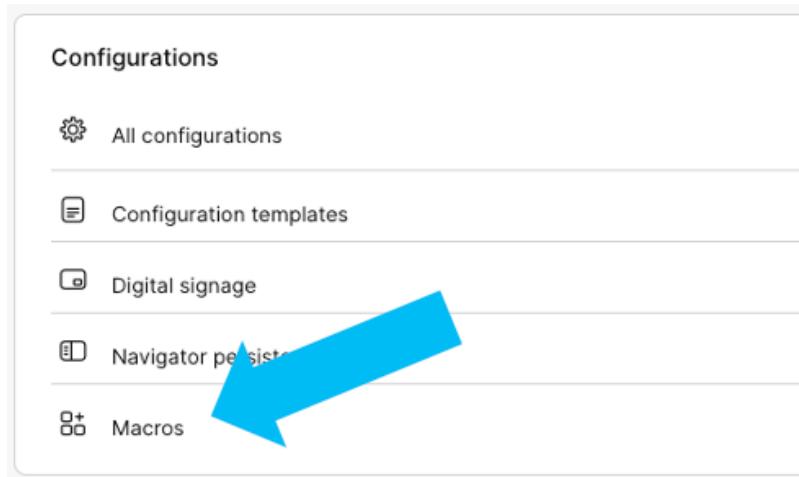
Note, your browser may restrict the download due to it being a JavaScript file.

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

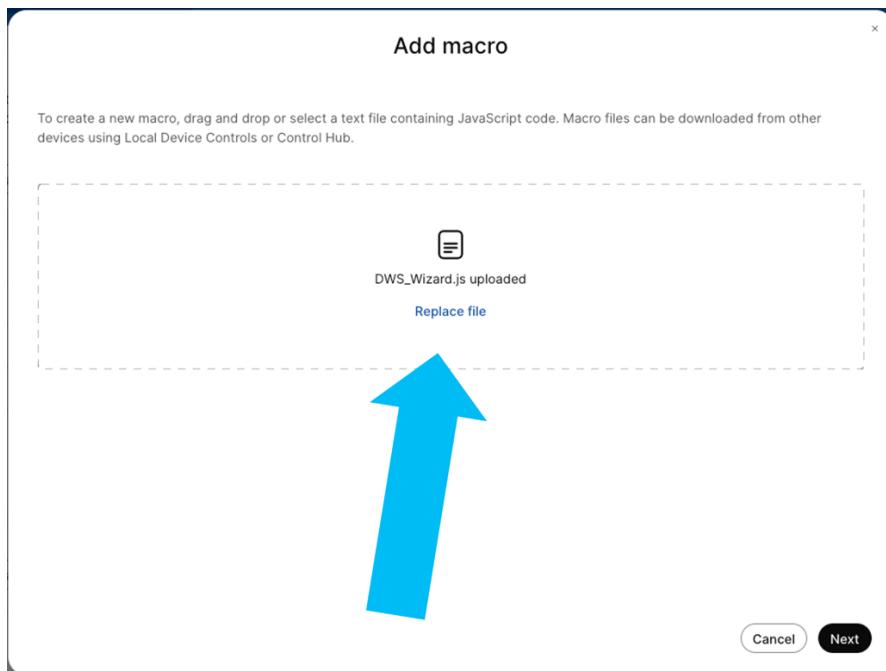
Step 9: Deploy the Wizard Macro to the Primary Room

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

Select **Macros**.



Click **Add Macro** then Upload the **DWS_Wizard.js** file.



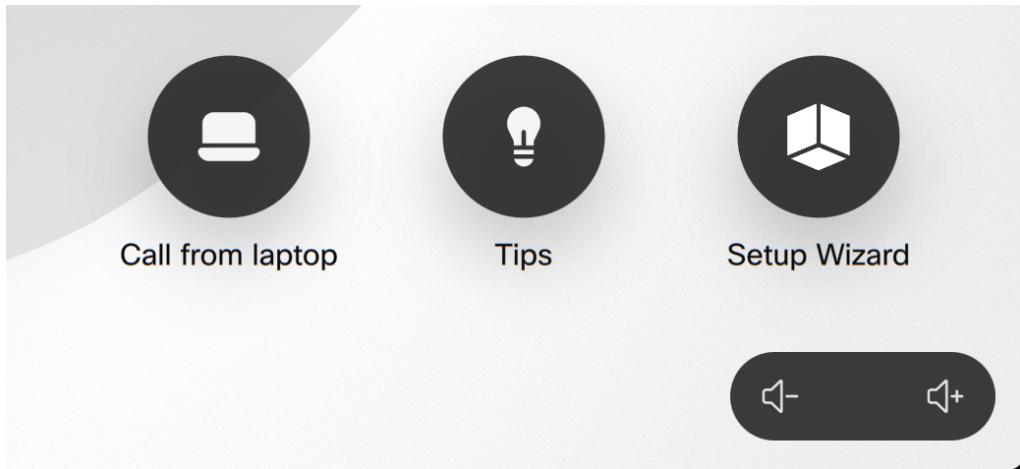
Do not rename the macro.

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

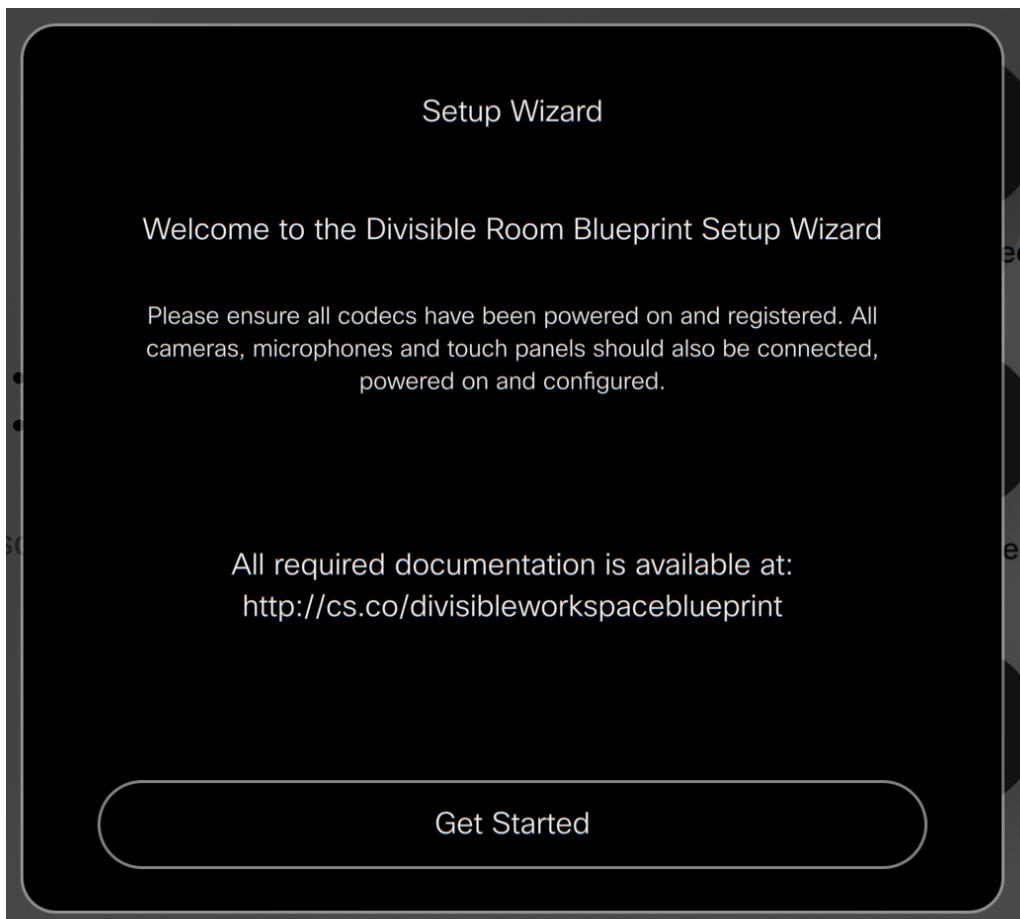


Step 10: Complete the Setup Wizard

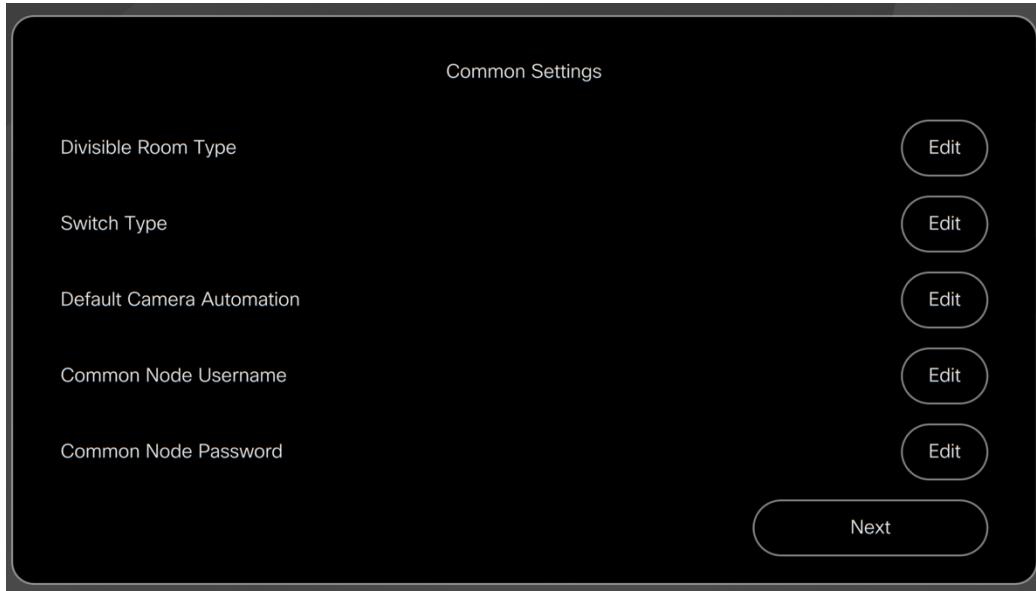
On the room Navigator, select **Setup Wizard** from the home screen.



Complete each step of the wizard.

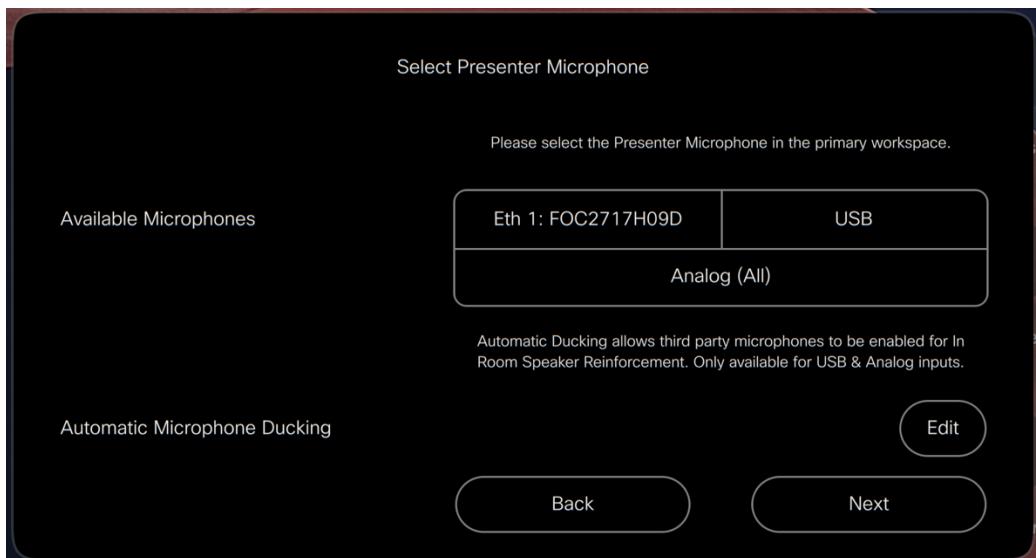


The first step is where your common settings will be configured. When entering the Username and Password, use the credentials you configured in Step 5.

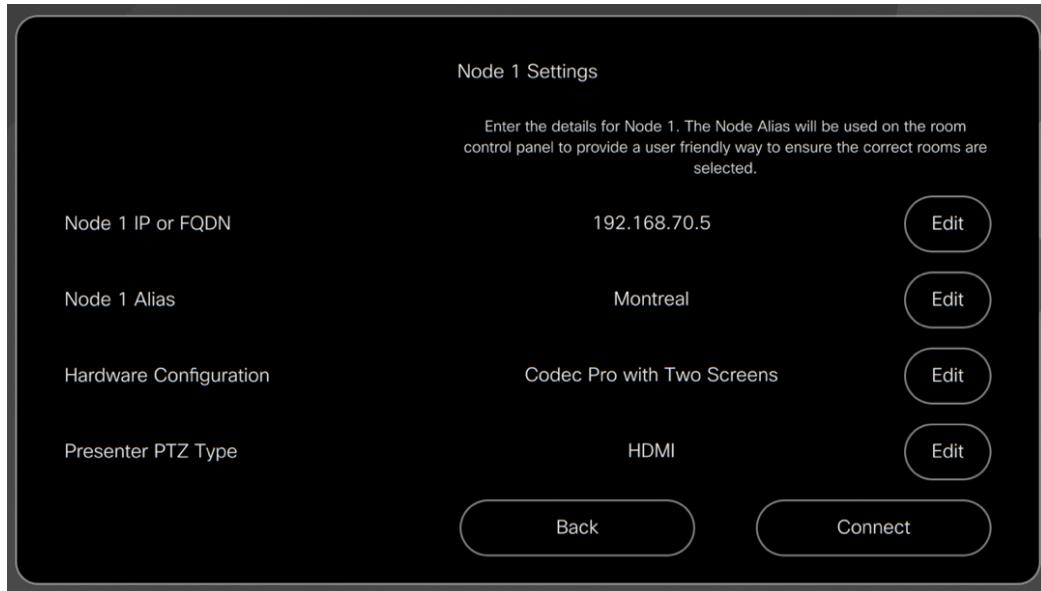


You will then be asked to select the Presenter Microphone. Cisco IP Microphones will be shown as serial numbers.

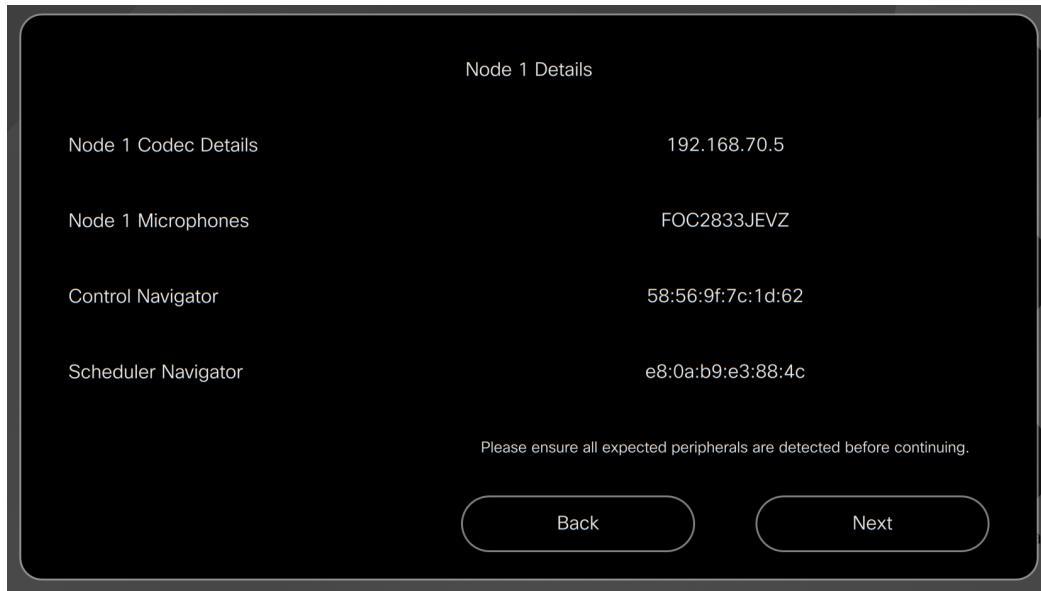
If you are using a 3rd party microphone over USB or Analog for the presenter, you can set the default for Automatic Microphone Ducking of the Cisco Pro Series microphones to support Presenter Lift scenarios.



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

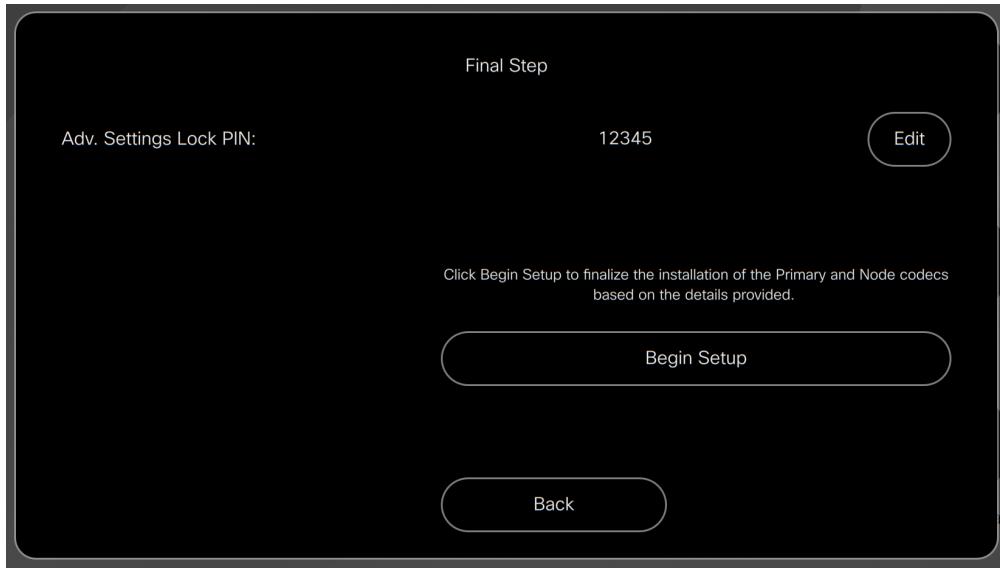


The macro will connect to the Node Codec and gather all peripheral details. Please validate all expected peripherals have been found. If not detected, hit back, connect the peripheral and click **Connect** again.

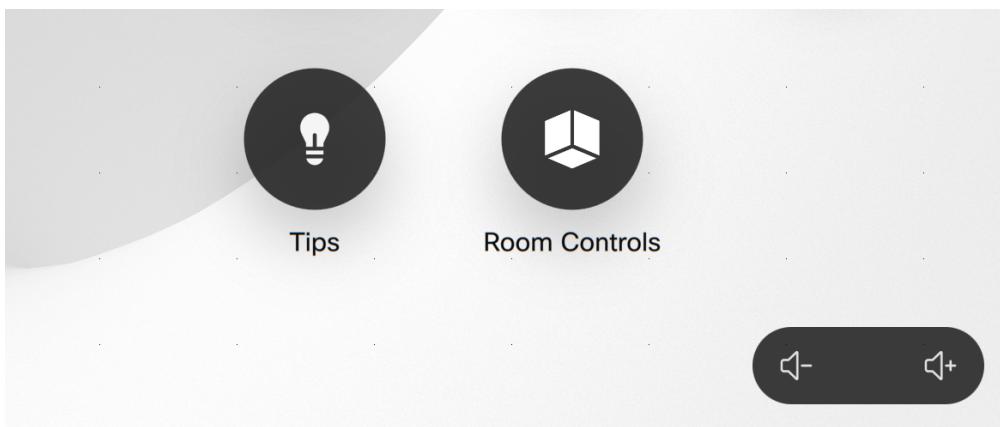


If you selected Three Way Divisible, you would repeat the steps above for Node 2.

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

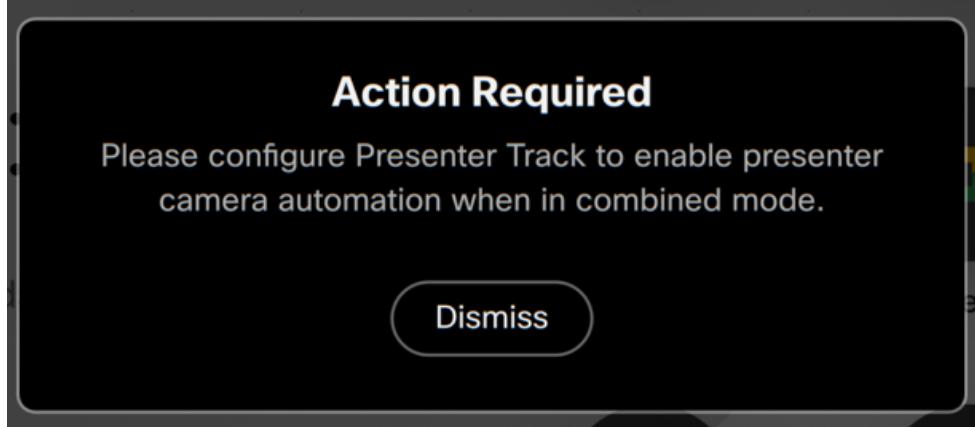


On the Room Navigator Home screen, you should now see the **Room Controls** button.



Post Wizard Configuration

On the Primary Workspace you will be prompted to configure Presenter Track to enable the presenter-based camera automation capabilities in combined mode operations.



Installation Complete!