

# Divisible Workspace Blueprint

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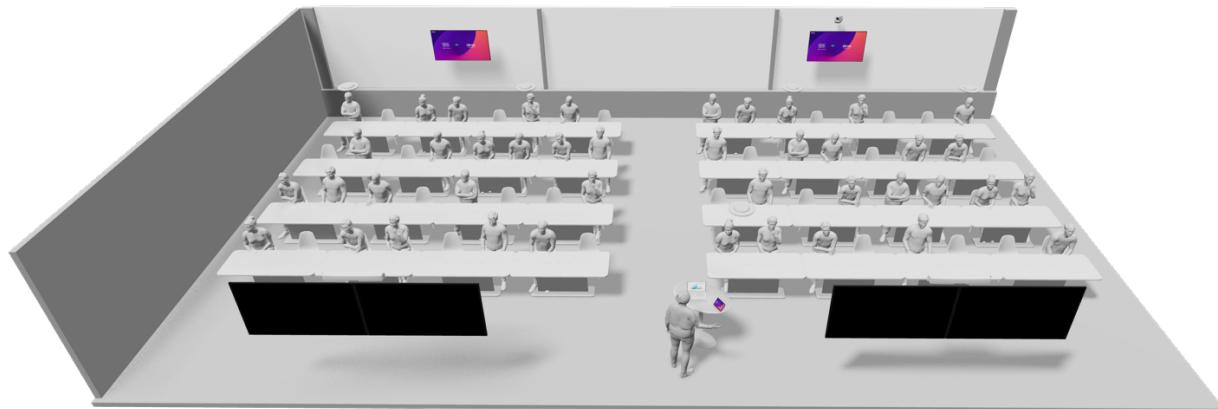
## On Premise Installation Guide

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](https://eurl.io/#nakTe_Vn3)

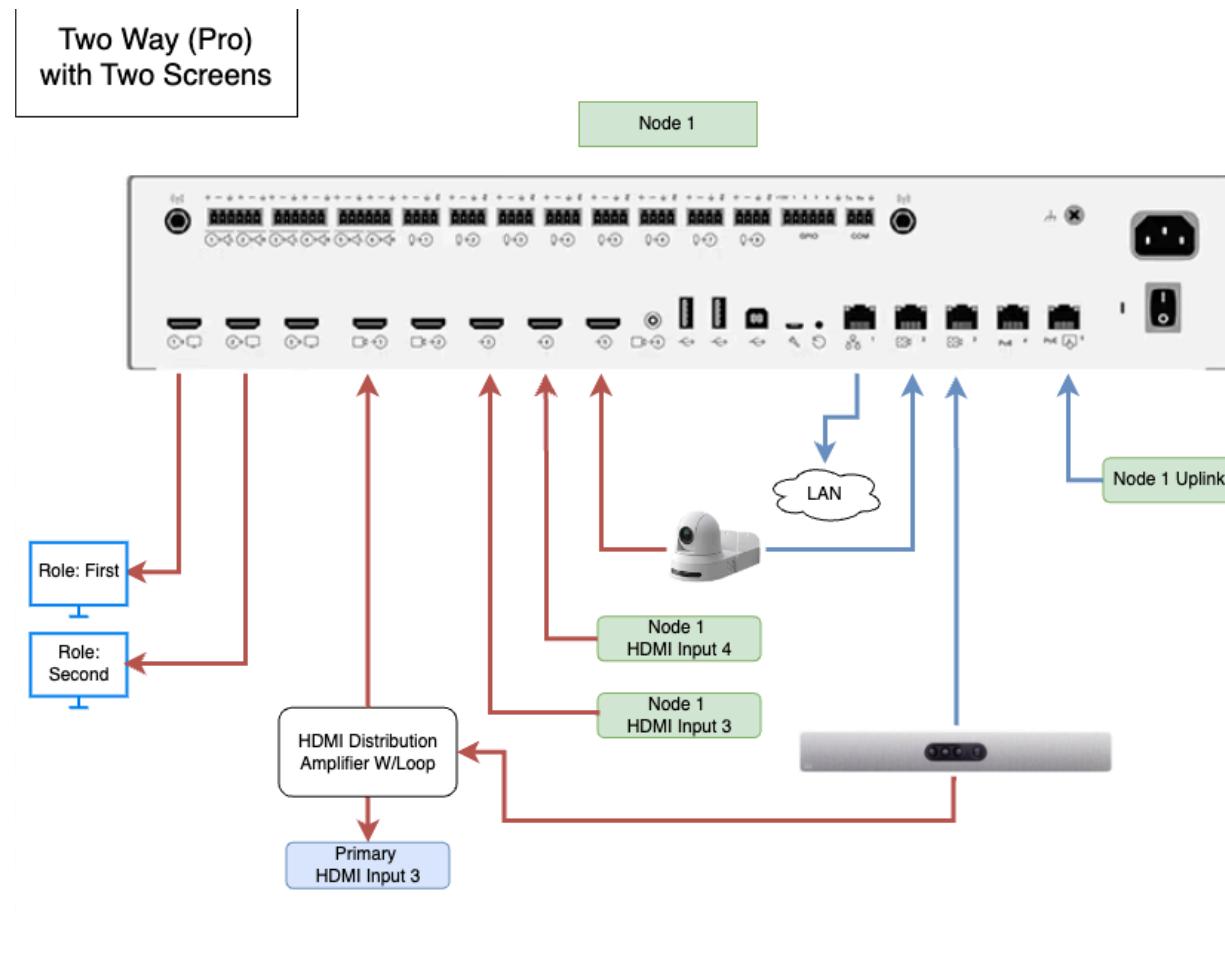
You can find the User Guide documentation here: [User Guide](#)

# 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:



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### IMPORTANT

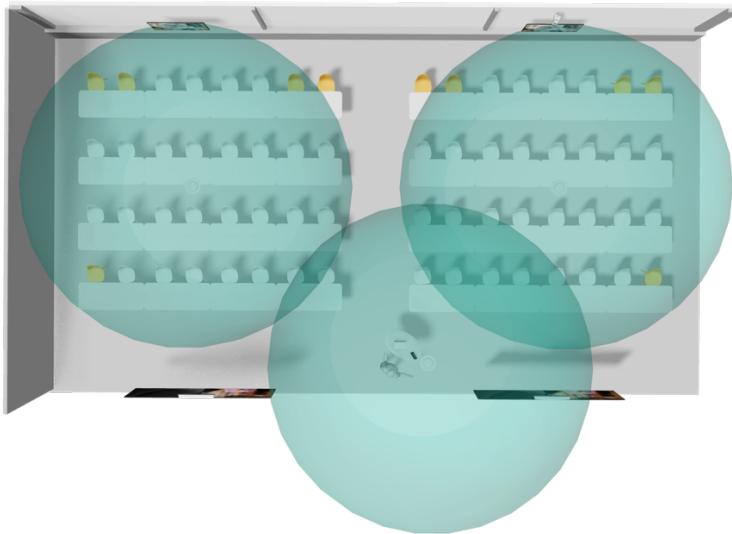
***Do not power on any Codecs, switch or connect Scheduler Panels until expressly instructed. The Blueprint leverages several mechanisms that rely on a pre-defined order of operations.***

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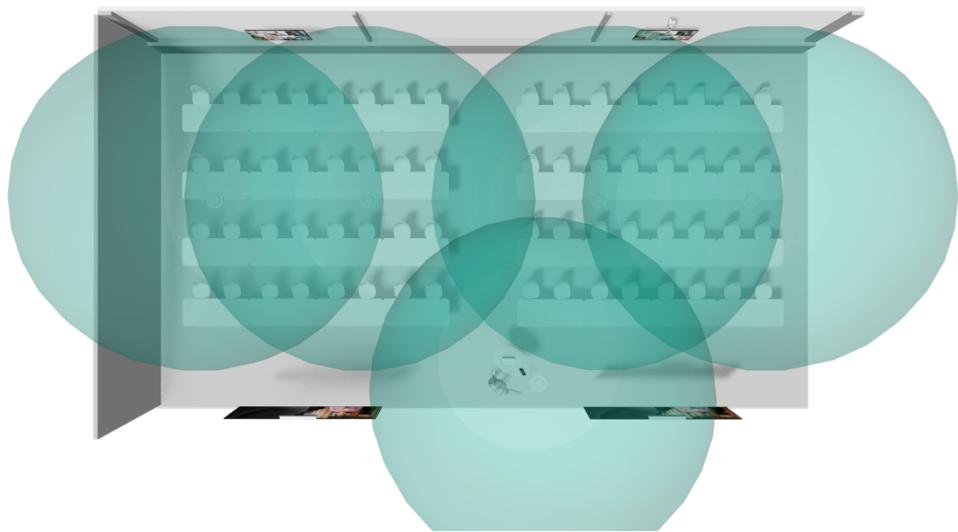
## Microphone Installation Guidance

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

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*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**.*

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### 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.

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

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### 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.**

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*Switch auto-configuration will take **6 minutes**.*

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**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: Register Codecs

### **Power on your codecs.**

Register them to your premise infrastructure using the initial start-up wizard and selecting the appropriate option.

## Step 4: Connect Scheduler Panels (Optional)

If deploying Scheduler Panels, connect the additional Room Navigators 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**.

**Add New User**

The screenshot shows the 'Add New User' configuration page. It includes fields for Username, Roles (Admin selected), Status (Active), Client Certificate DN, and password fields for New passphrase, Confirm passphrase, and Your passphrase. A note at the bottom states: 'When creating or modifying admin users, you must enter your own passphrase for verification.' Blue arrows highlight the flow of data entry: one arrow points right from the 'Username' field, another points left from the 'Roles' section, a third points right from the 'Status' section, a fourth points right from the 'Client Certificate DN' field, and a fifth points left from the 'Your passphrase' field.

Username

Roles  Admin (i)

Audit (i)

RoomControl (i)

Integrator (i)

User (i)

Status  Active

Inactive

Client Certificate DN

If using client certificates for authentication, enter the client certificate's full Distinguished Name. Both the /CN=alice/DC=example/DC=com and the CN=alice, DC=example, DC=com formats are supported.

Require passphrase change on next user sign in

New passphrase

Generate new passphrase... (i)

Confirm passphrase

Your passphrase

When creating or modifying admin users, you must enter your own passphrase for verification.

Create User

Click **Create User**.

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**Required:** Repeat Step 5 on **ALL** Node Codecs  
Can also be **optionally** applied on the Primary Codec

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## Step 6: Set the baseline Codec Configurations

Log into your 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
Video > Input > CameraConfigMode	Auto

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

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## 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.*

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

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## Step 8: Deploy the Wizard Macro to the Primary Room

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

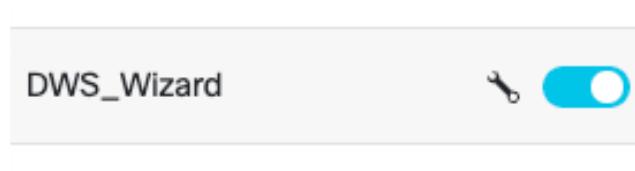
On the left-hand menu, select **Macro Editor**.

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.

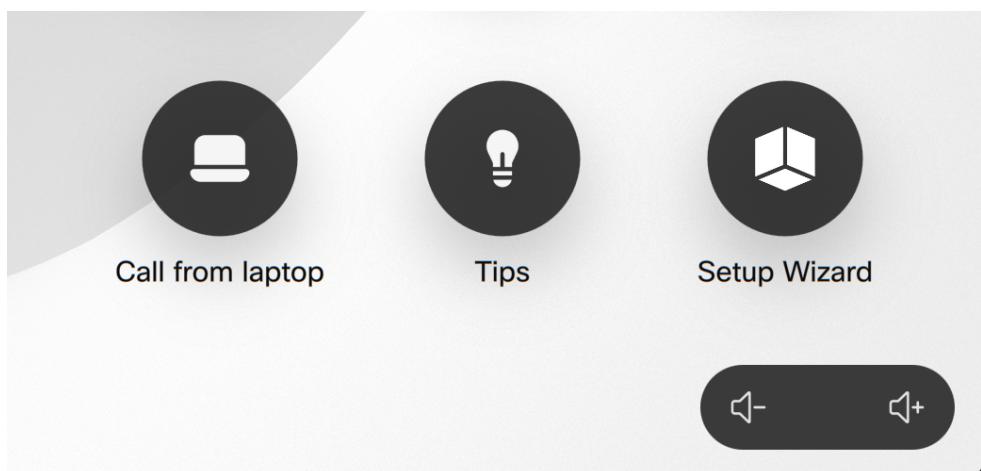
You will now see **DWS\_Wizard** added to the left-hand pane.

Toggle the **DWS\_Wizard** Macro to **On**.

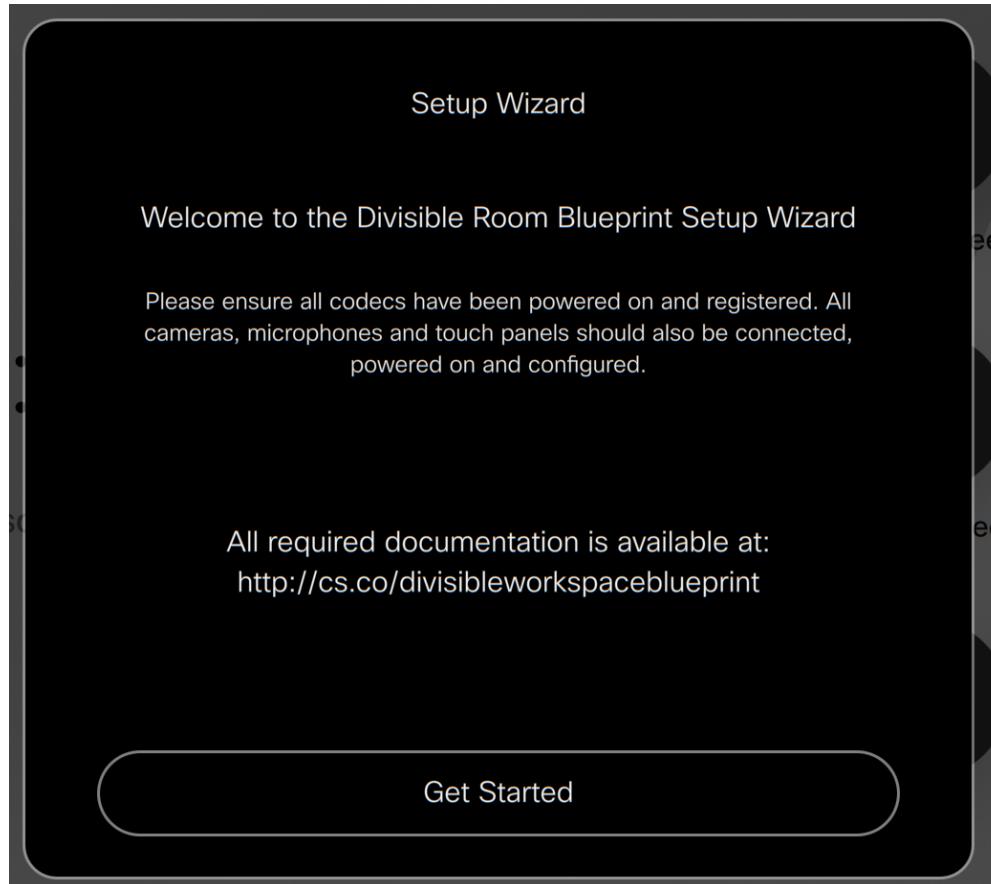


## Step 9: Complete the Setup Wizard

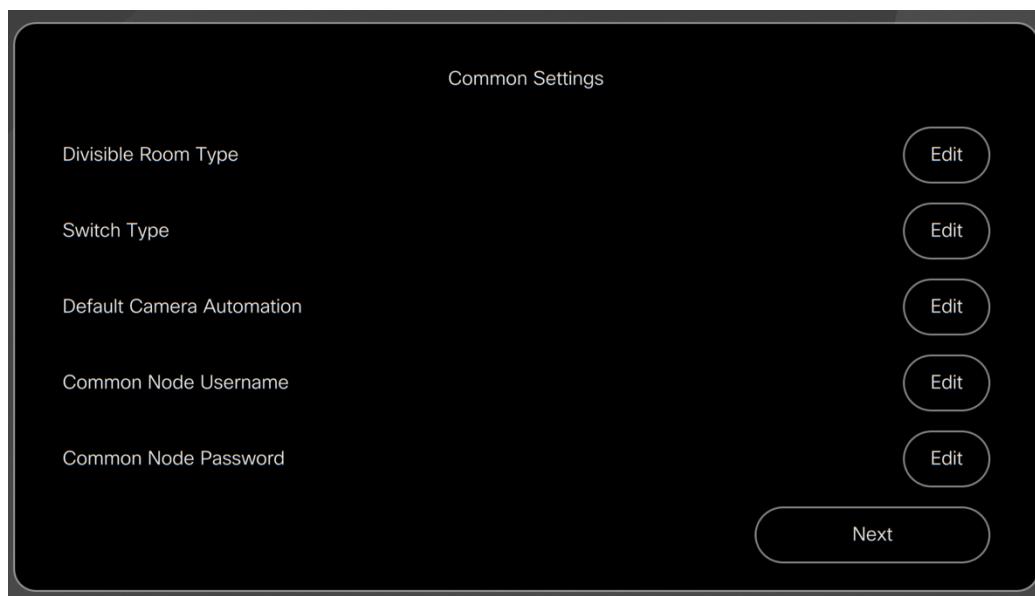
On the room Navigator, select **Setup Wizard** from the home screen.



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.

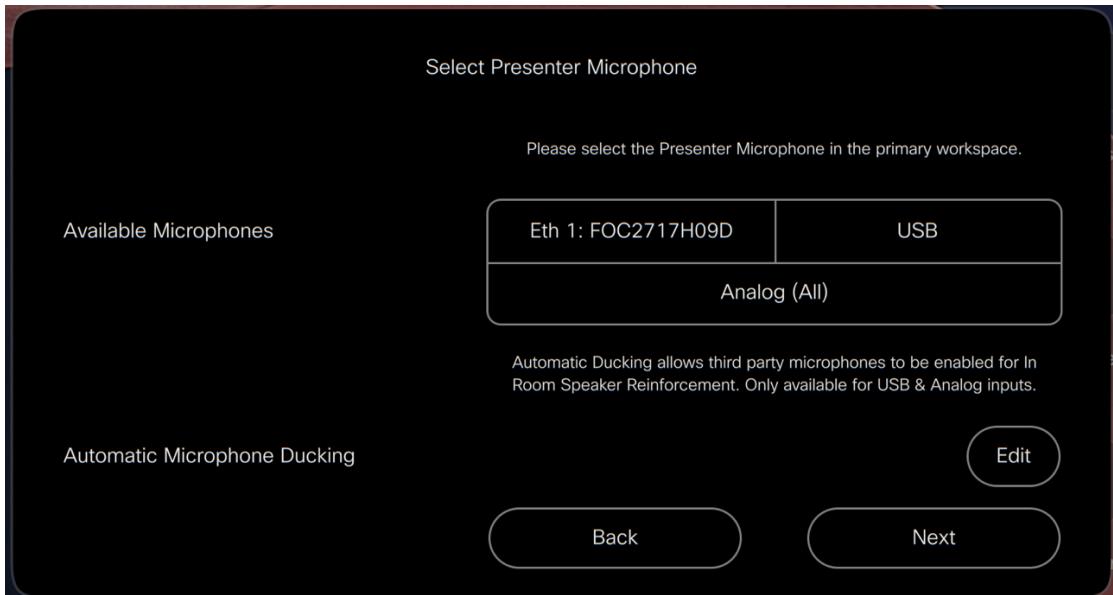


You will then be asked to select the Presenter Microphone. Cisco IP Microphones will be shown as serial numbers.

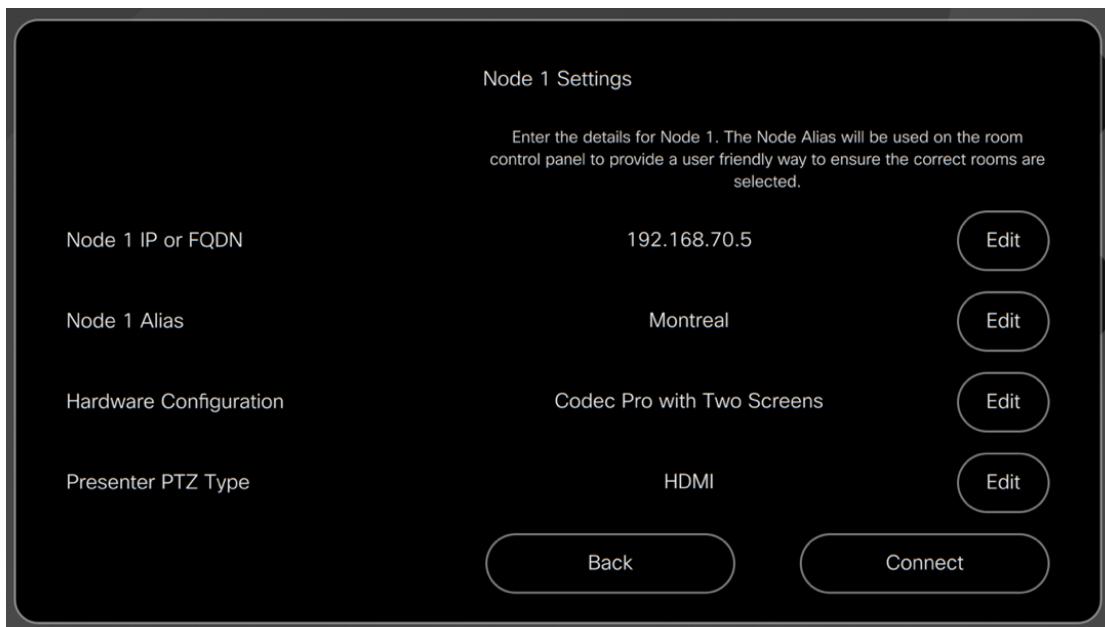
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*If you are using a 3<sup>rd</sup> party microphone over USB or Analog for the presenter, you can set the default for Automatic Microphone Ducking of the Cisco Pro Series microphones to support Presenter Lift scenarios.*

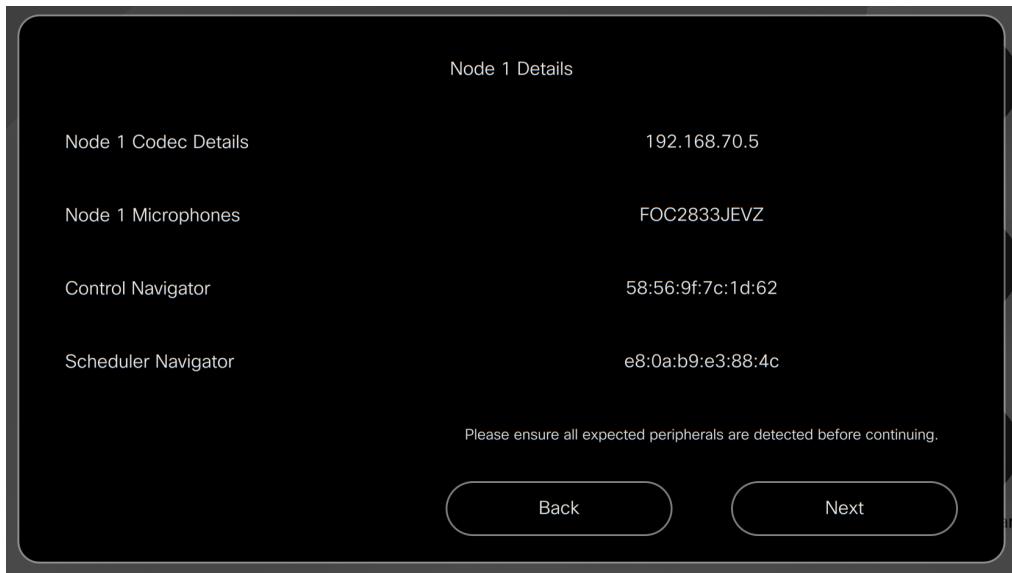
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When you get to the Node Codec setting page, Enter the details and click **Connect**.

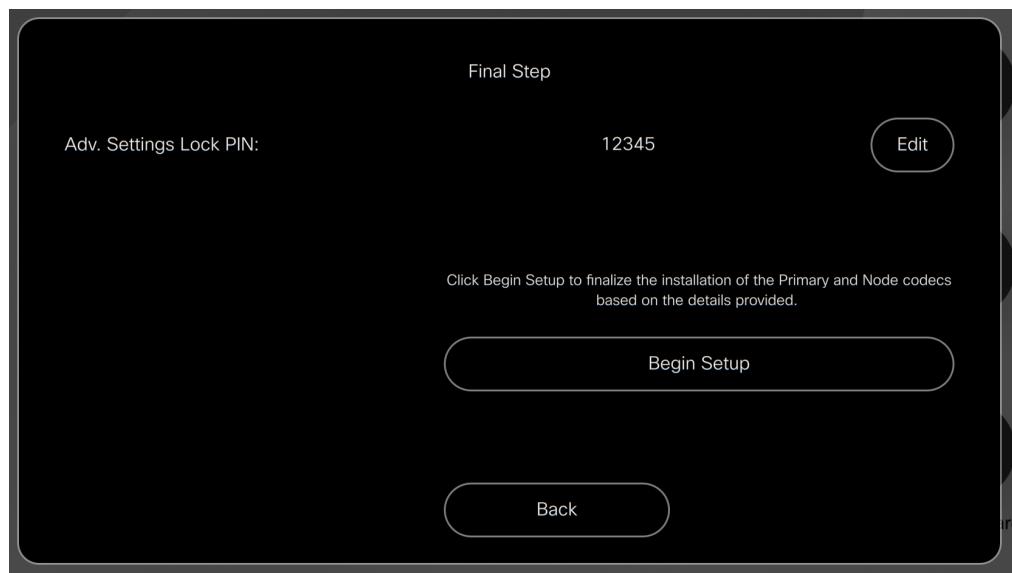


The macro will connect to the Node Codec and gather all peripheral details. Please validate all expected peripherals have been found. If not detected, hit back, connect the peripheral and click **Connect** again.

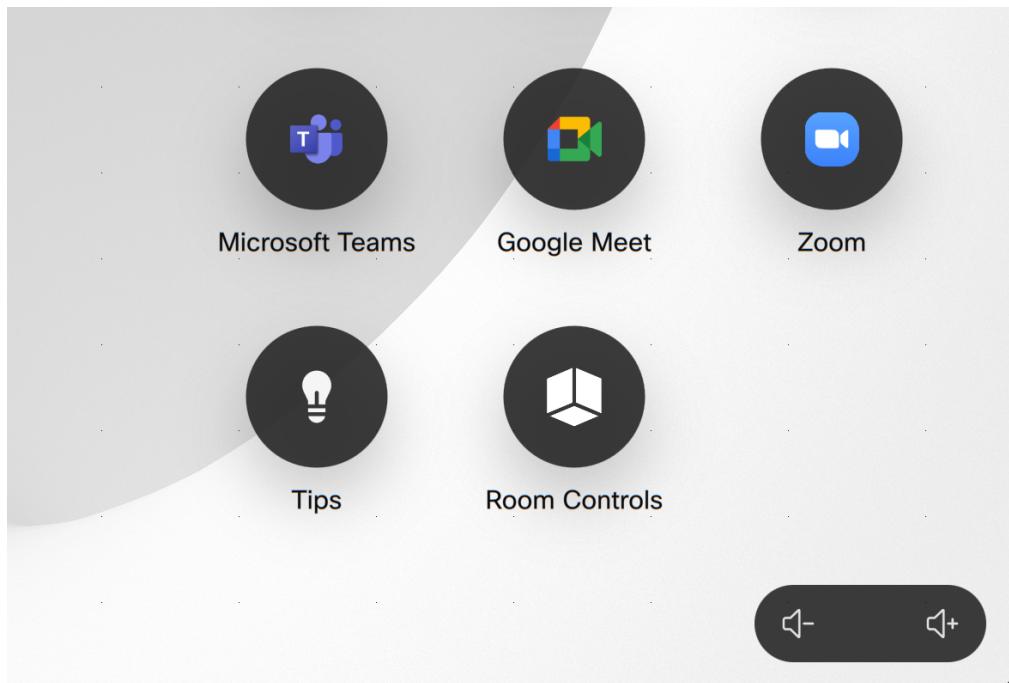


If you selected Three Way Divisible, repeat the steps above for Node 2.

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

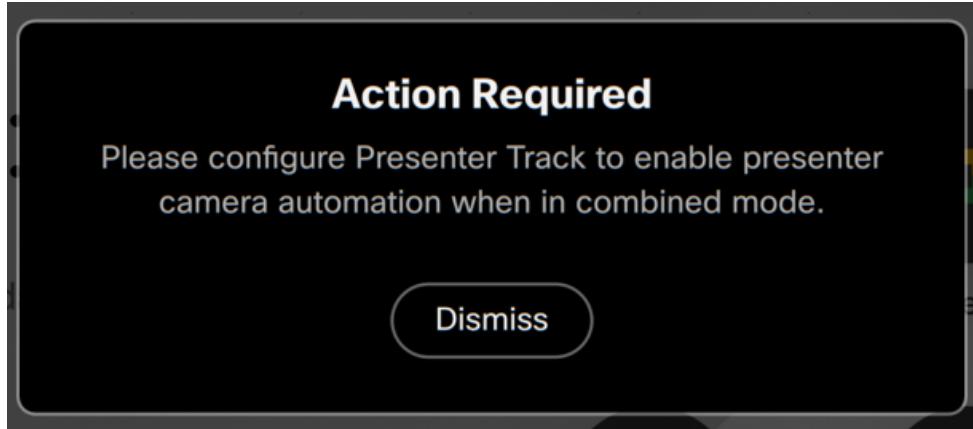


On the Room Navigator Home screen, you should now see the **Room Controls** button.



## Post Wizard Configuration

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



Installation Complete!