

# Divisible Workspace Blueprint

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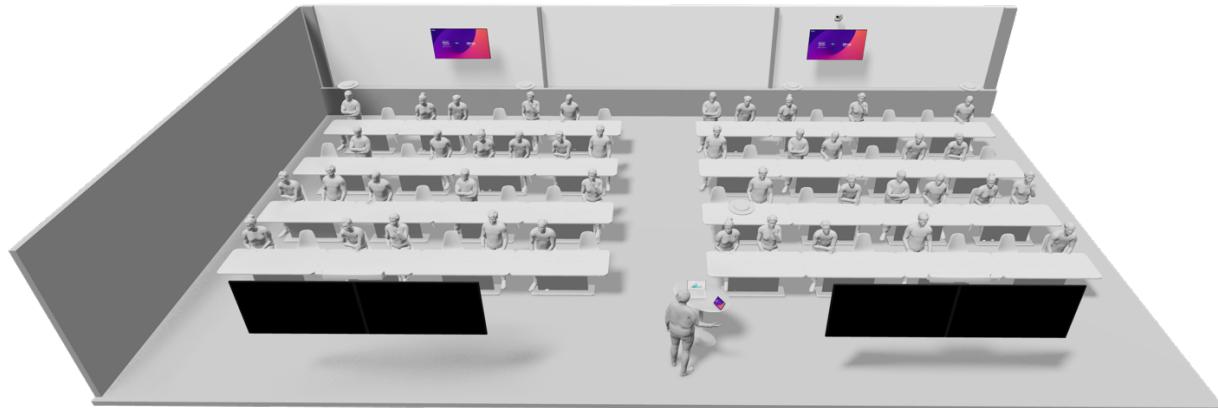
## On Premise Installation Guide

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](#)

Air Gapped installations should leverage this guide: [Air Gapped Installation 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)

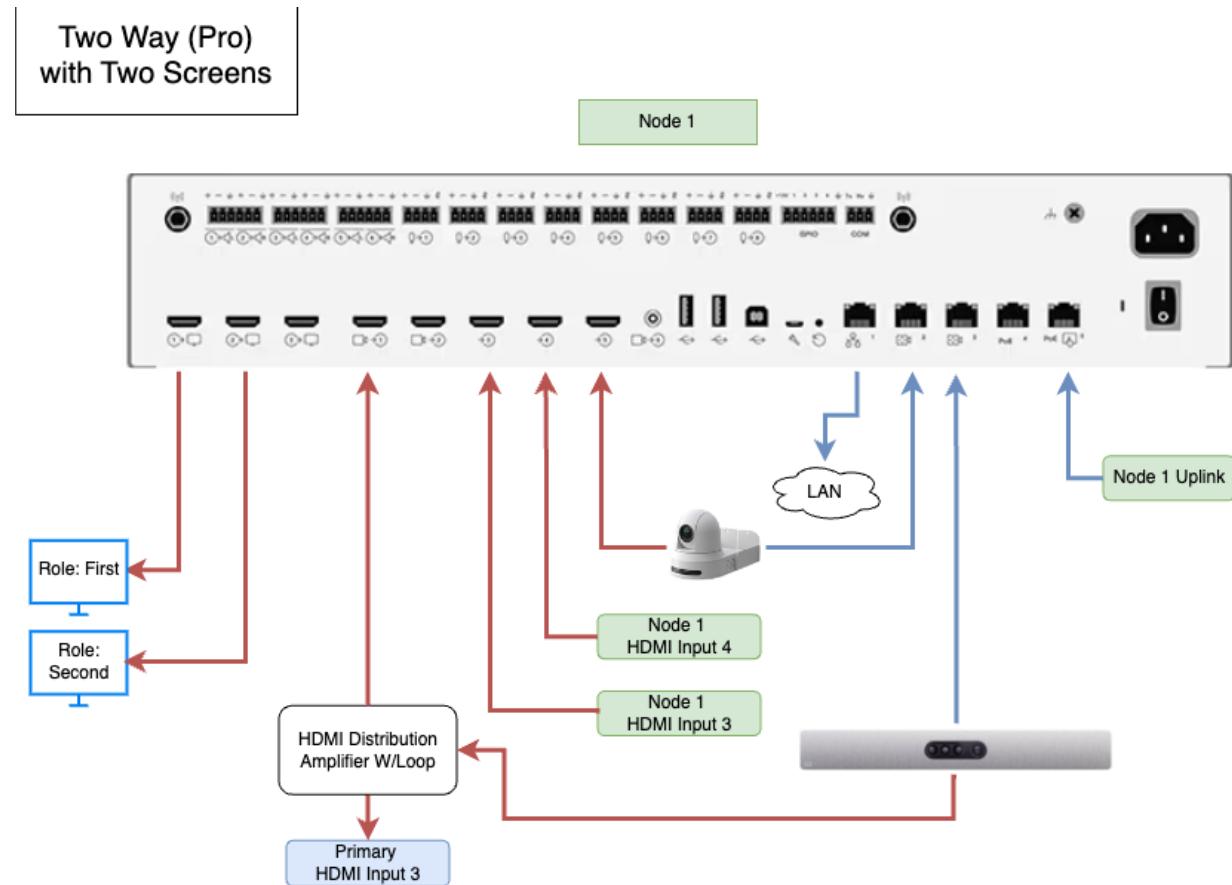
You can find the User Guide documentation here: [User Guide](#)

# 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.

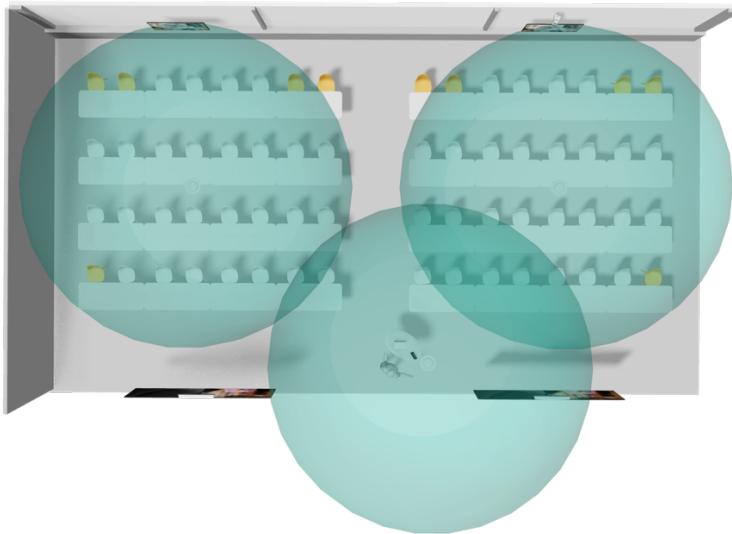
Example Diagram:



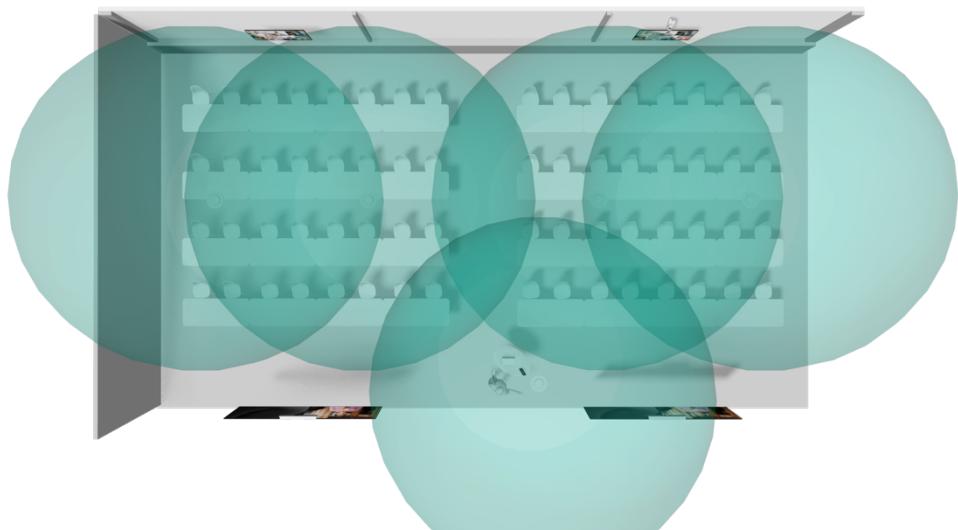
## Microphone Installation Guidance

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

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

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## 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 ciscotr.rtr.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 3: Configure the Switch

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

Power on the switch.

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*Please do **not** power on the Codecs yet.*

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*The auto-configuration will take approximately **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 4: Register Codecs

**Power on your codecs.**

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

## Step 5: Configure the Codec Users

Log into your **Secondary Room** 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**.

The screenshot shows the 'Add New User' form. A large blue arrow points from the top-left towards the 'Username' field. Another blue arrow points from the bottom-right towards the 'Your passphrase' field. A third blue arrow points from the middle-left towards the 'Status' section. A fourth blue arrow points from the middle-right towards the 'Client Certificate DN' field. A fifth blue arrow points from the bottom-left towards the 'New passphrase' field. A sixth blue arrow points from the bottom-right towards the 'Confirm passphrase' field. A seventh blue arrow points from the middle-left towards the 'Roles' section. A eighth blue arrow points from the middle-right towards the 'Require passphrase change on next user sign in' checkbox. A ninth blue arrow points from the bottom-left towards the 'Create User' button.

**Add New User**

Username

Roles  Admin  Audit  RoomControl  Integrator  User

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

Confirm passphrase

Your passphrase

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

Click **Create User**.

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*(Optional) Repeat Step 5 on the Primary Codec*

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## Step 6: Set the baseline Codec Configurations

Log into your **Secondary Room** 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
<b>HttpClient &gt; AllowInsecureHTTPS</b>	True
<b>HttpClient &gt; Mode</b>	On
<b>Macros &gt; Mode</b>	On
<b>Macros &gt; EvaluateTranspiled</b>	False
<b>Video &gt; Input &gt; CameraConfigMode</b>	Auto

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*(Required) Repeat Step 6 on 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 to the Primary Room

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

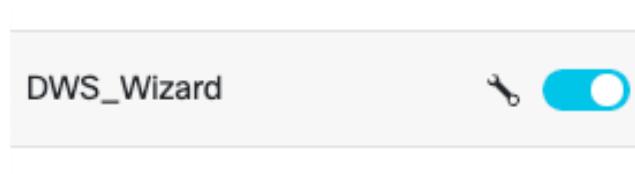
On the left-hand menu, select **Macro Editor**.

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.

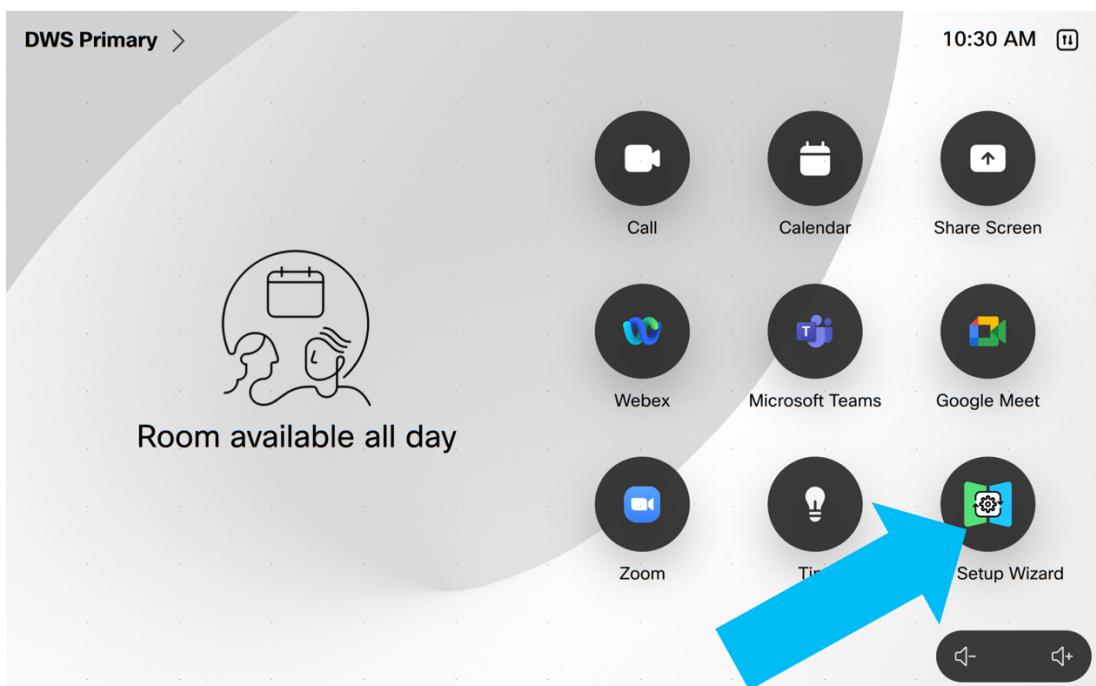
You will now see **DWS\_Wizard** added to the left-hand pane.

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

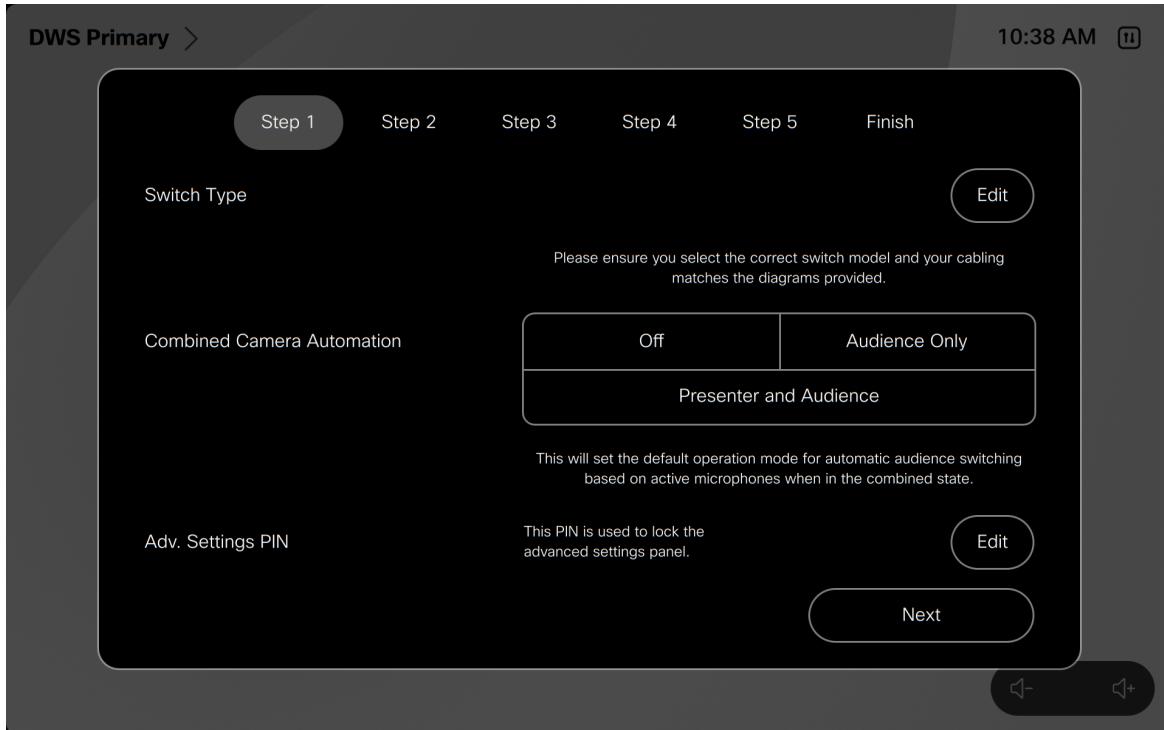


## Step 9: Complete the Setup Wizard

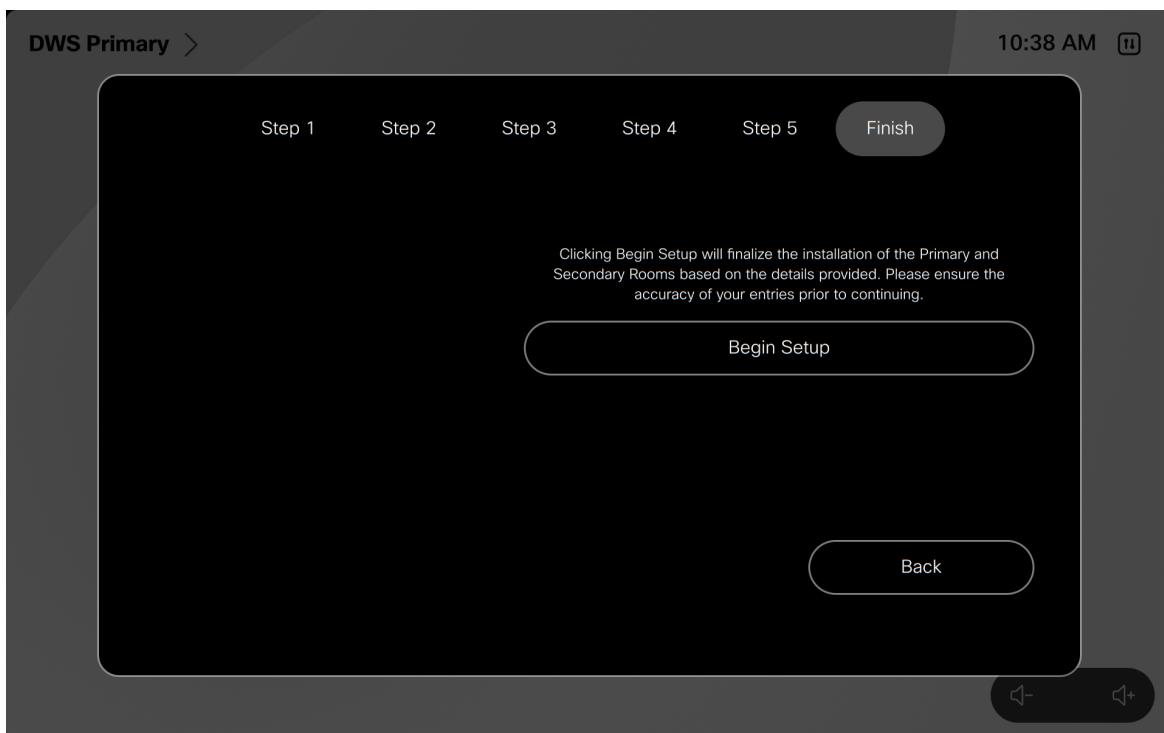
On the room Navigator, select **Setup Wizard** from the home screen.



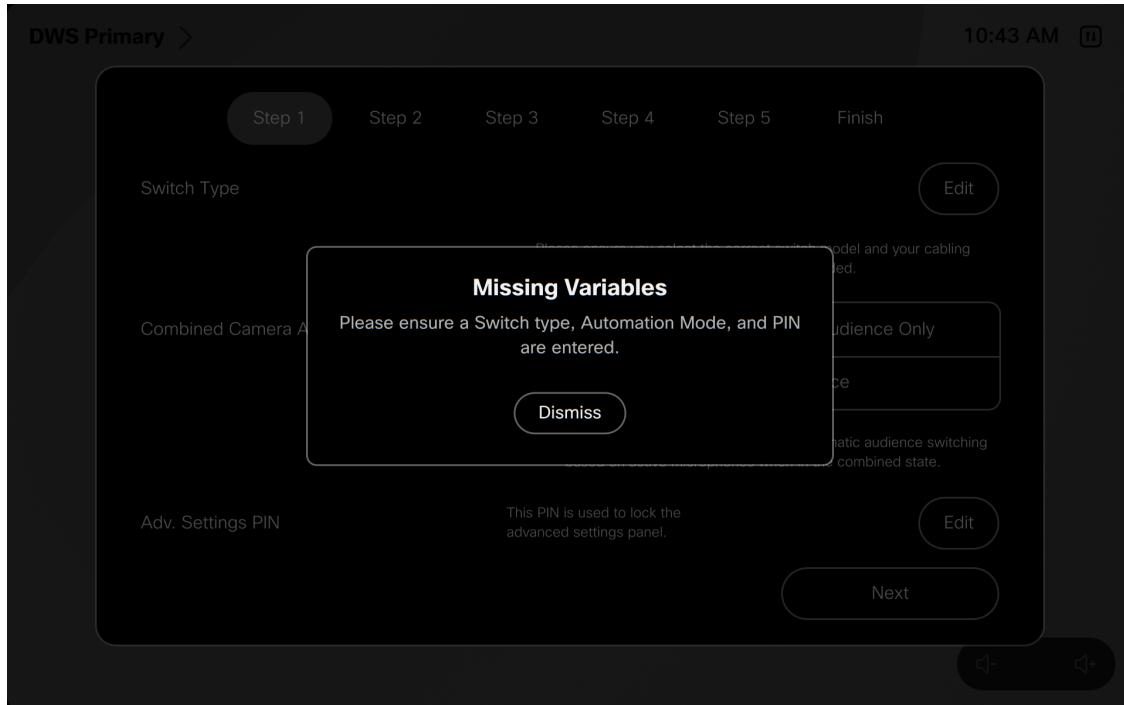
Complete each step of the wizard.



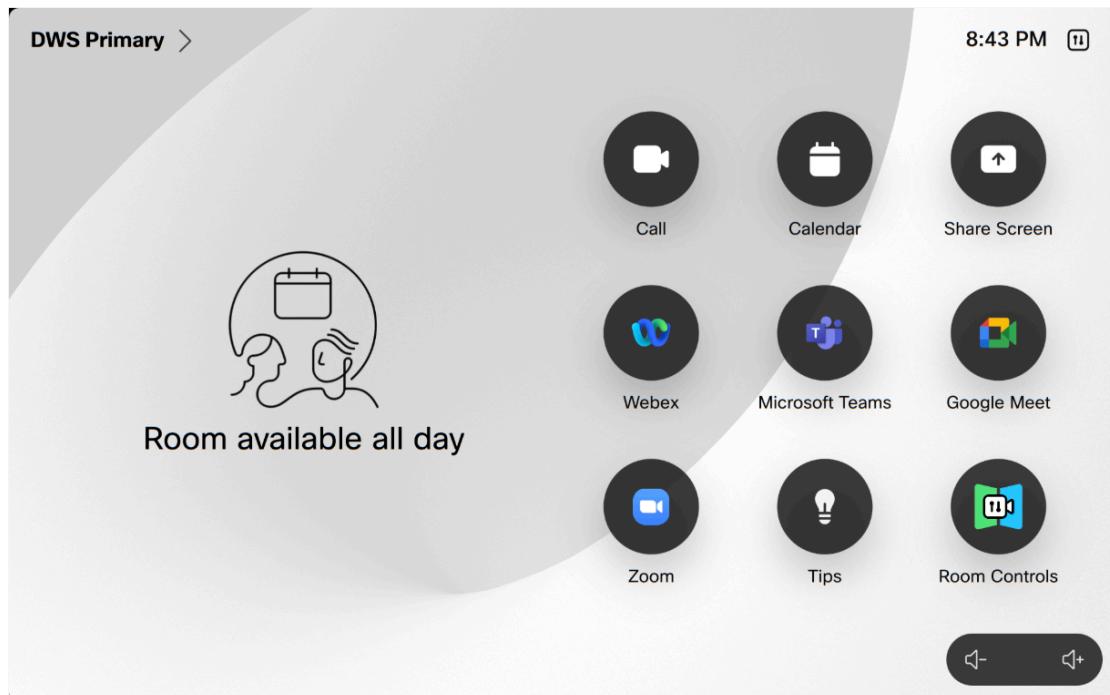
Click **Begin Setup** to finalize your configuration.



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.



Installation Complete!