

# Cisco Talent and Collaboration Centers

Small Collaboration Room Design Guide



### Introduction

# Overview and Intent

This document provides guidance on how to effectively design a Small Collaboration Room.

This design brings space layout, technology, and furnishings together to create an optimal experience for those present locally and for remote attendees.

Each customer project is unique. Thus, it is important to involve local facilities teams, workplace design resources, architects and space designers, IT, and a Cisco-certified integrator. The collective goal is to finalize the details of any design, verify the applicability and address any local concerns — electrical/mechanical, orientation and location of the room within the floor plan, accessibility, circulation, and external factors such as noise, light, and temperature.

# Room Description

Small groups get work done. These Small Collaboration Rooms are the perfect setting to bring in-person and remote colleagues together. The 120° field of view of the Cisco Room Bar, and the 55" display, ensure everyone is in view and work gets done.

### **Supported Collaboration Activities**

Information Sharing	
Brainstorming	
Team Building	
Decision Making	<b>✓</b>

### **Table of Contents**

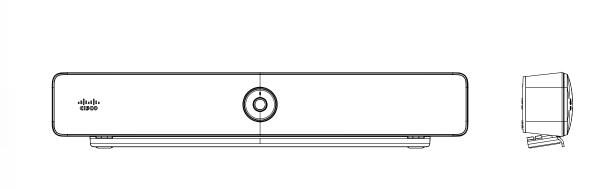
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# Visualization of key Cisco elements





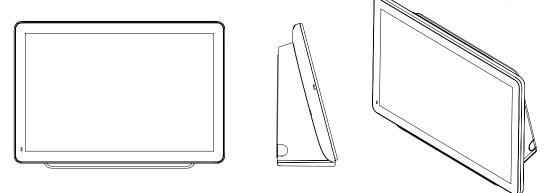


55" Display

LG / Panasonic / Samsung / Sony



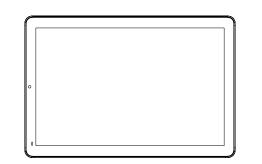
Cisco Room Navigator for Wall

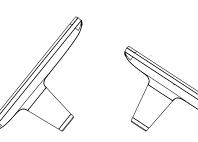




Cisco Room Navigator for Table

Cisco Room Bar







## Certified Third Party Displays





Webex certified displays have been tested for compatibility and robustness of their video interfaces, optical characteristics, and basic security practices.

When connected to a Cisco collaboration device they will automatically reconfigure to the optimal configuration already tested and verified.

This list of verified devices was update on April 25, 2025. For up to date information on certified and compatible Cisco collaboration device partner offers, click on the link below.

Vendor	Product or Series	Firmware version
Samsung	QMB	1040.7
Samsung	QBB	1040.7
Samsung	QMC	1061.0, 1080.7
Panasonic	EQ2	2.4
LG	UN640S	03.76.05
LG	UL3J	03.08.41
LG	UH5J	03.24.01
LG	UR640S	03.17.00
LG	UM5K	3.70.30
Sony	BZ30J, BU30J, BZ35J, BU35J, BZ40H, BU40H, BZ40J, BU40J	6.5929
NEC	M751, M861, M981	1.200
NEC	MA431, MA491, MA551, P435, P495, P555	3.203
Sharp	PN-LA652, PN-LA752, PN-LA862	1.112
Sharp	M431-2, M501-2, M551-2, M651-2	R5.306

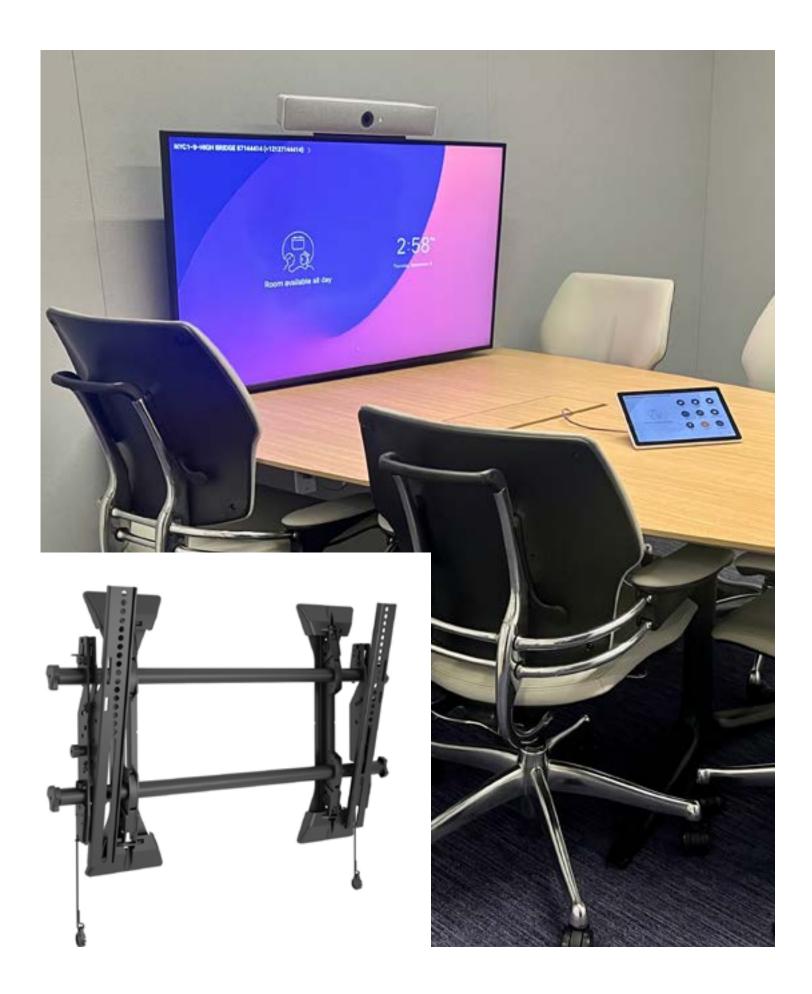
# Video Device Mounting Options

### Cisco Room Bar

With the Cisco Room Bar, it is best that the display is mounted on the wall. If the wall mounting option is selected, the wall will need to be blocked and power and data recessed into the wall. As with other small room applications, it is important to elevate power and data and locate it either in the center of the mount or off-set, away from the wall. This will ensure that the electrical outlets and data jacks will not be seen from outside the room.

If wall mounting is not an option, the display can also be free-standing on the table or mounted on a low-profile credenza unit that either tethers to the wall or is free-standing. In either of these scenarios, it is best to locate power and data at standard height from the floor, per local code.

### Wall Mounted Option

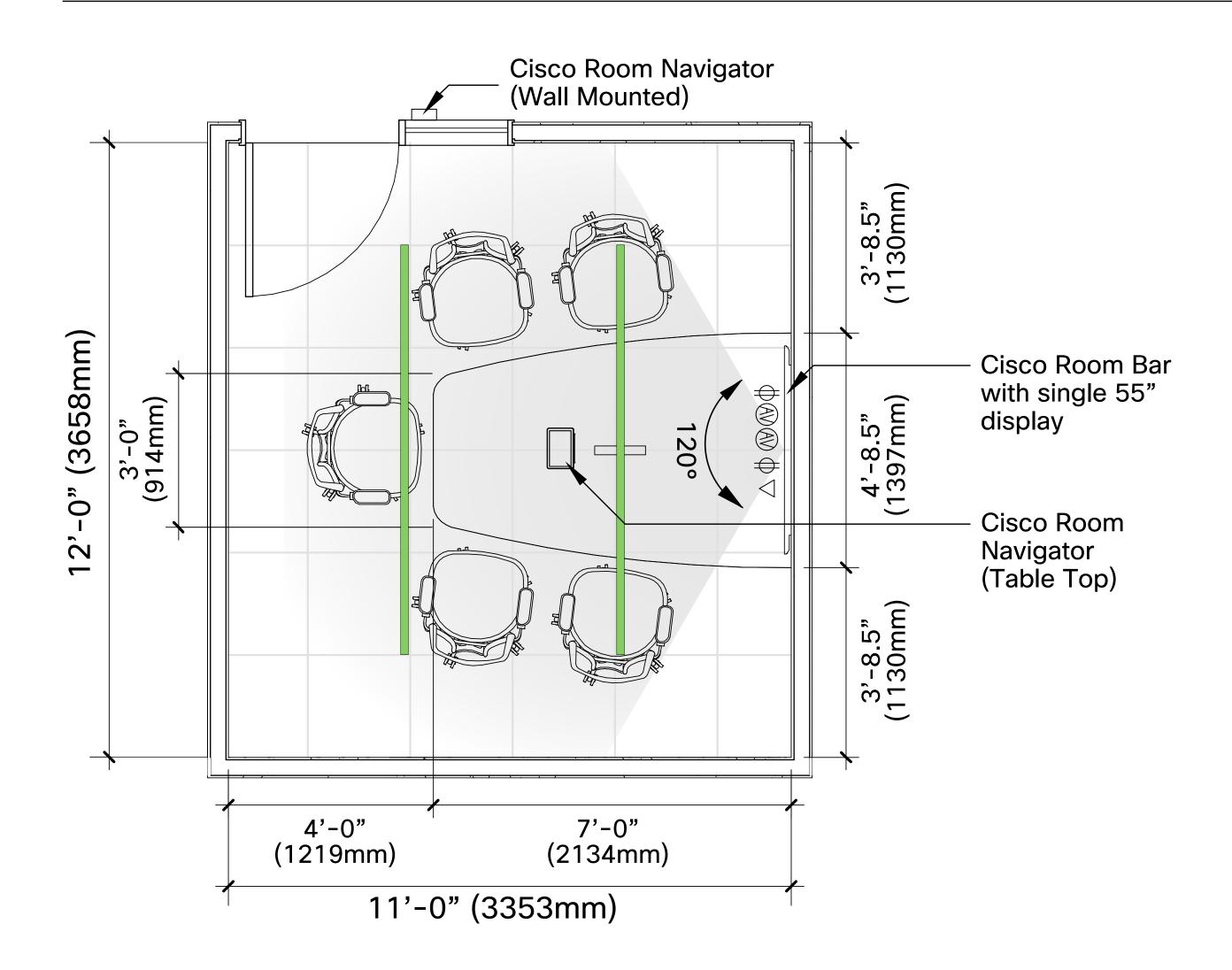


### Credenza Option





# Composite Plan



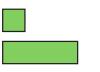
### **Graphics Symbols**



Acoustical Ceiling & Grid



HVAC Diffusers (T.B.D.)
Shown as Example Only



Light Fixtures



Acoustical Wall

### Furniture Systems Version Devices

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Duplex Receptacle & Grid

 $\square$ 

Data Receptacle

#### **Power and Communication**

WALL / CEILING / FLOOR VERSION DEVICES

Third Party Speakers (Optional)

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Duplex Receptacle

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Data Receptacle

**)** 

AV Receptacle

Light Switch

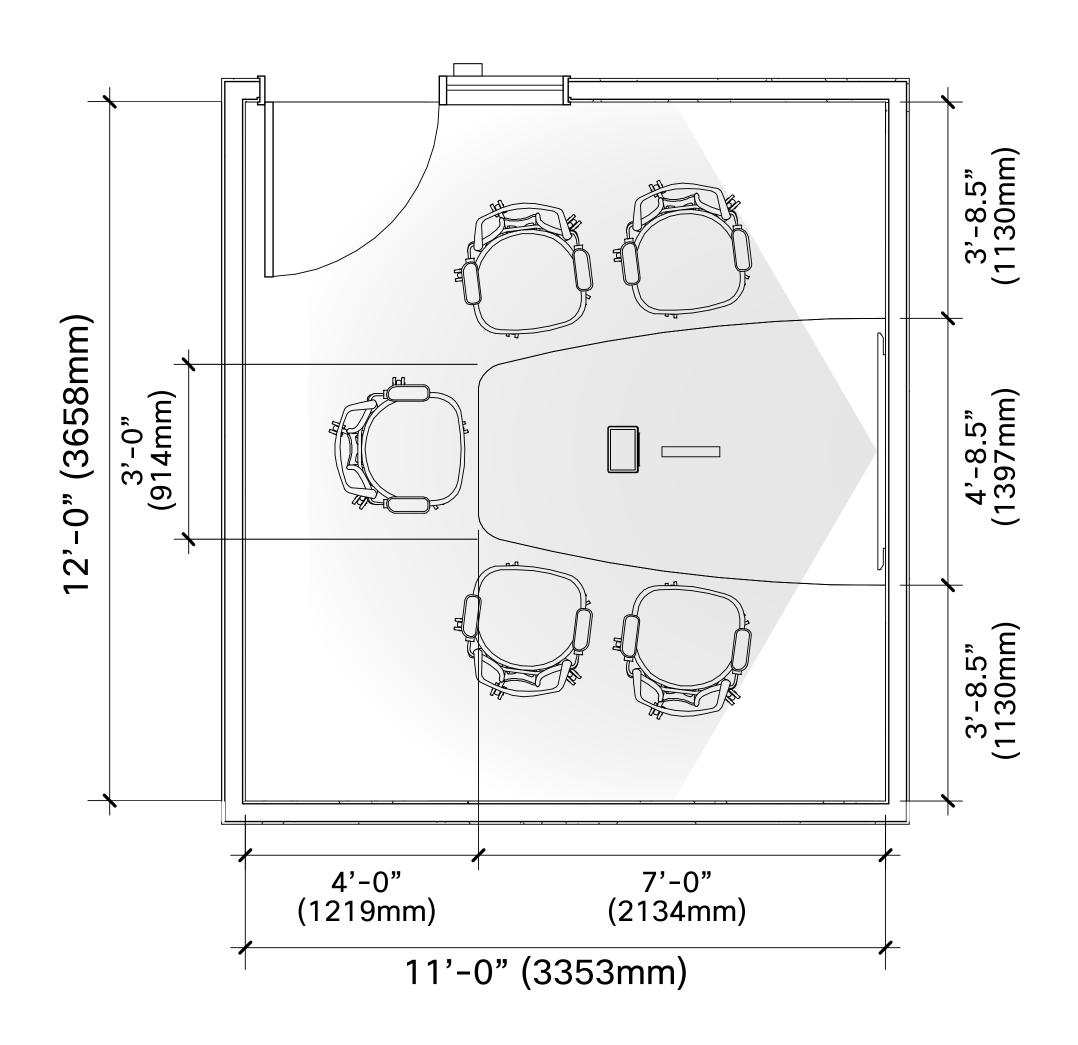
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Table Version Microphone

PV

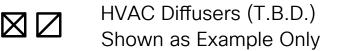
Combination Power & Voice / Data Infeed

# Room Layout



### **Graphics Symbols**





**Acoustical Wall** 



### Furniture Systems Version Devices

Duplex Receptacle & Grid

Data Receptacle

#### **Power and Communication**

WALL / CEILING / FLOOR VERSION DEVICES

Third Party Speakers (Optional)

Duplex Receptacle

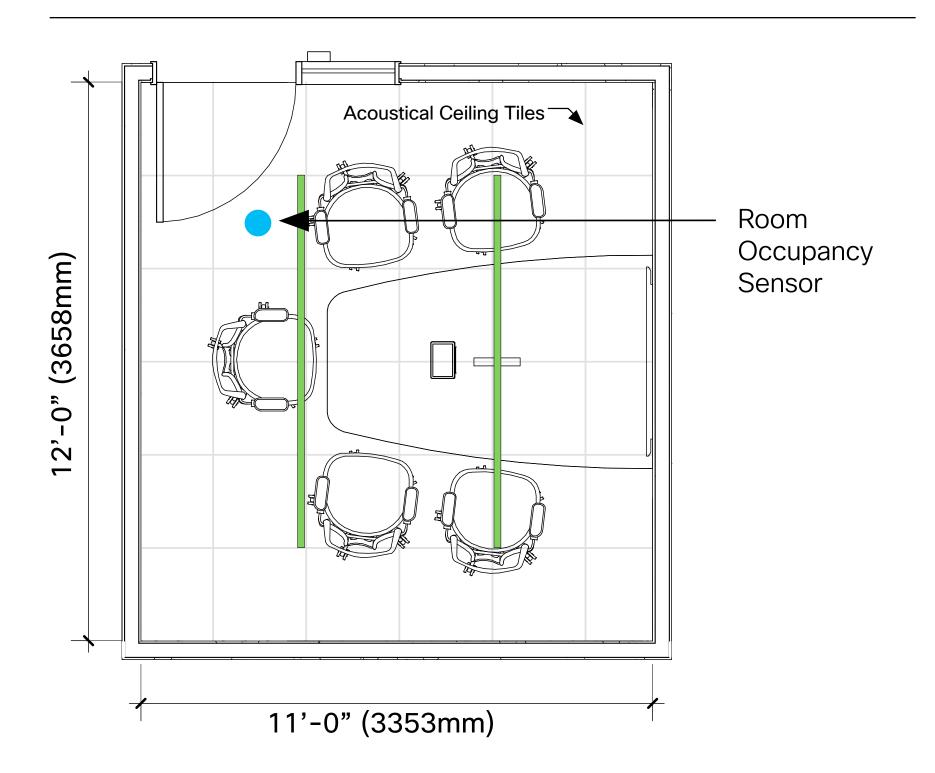
**AV** Receptacle

M Table Version Microphone

Combination Power & Voice / Data Infeed

## Reflective Ceiling Plan & Acoustical Treatment

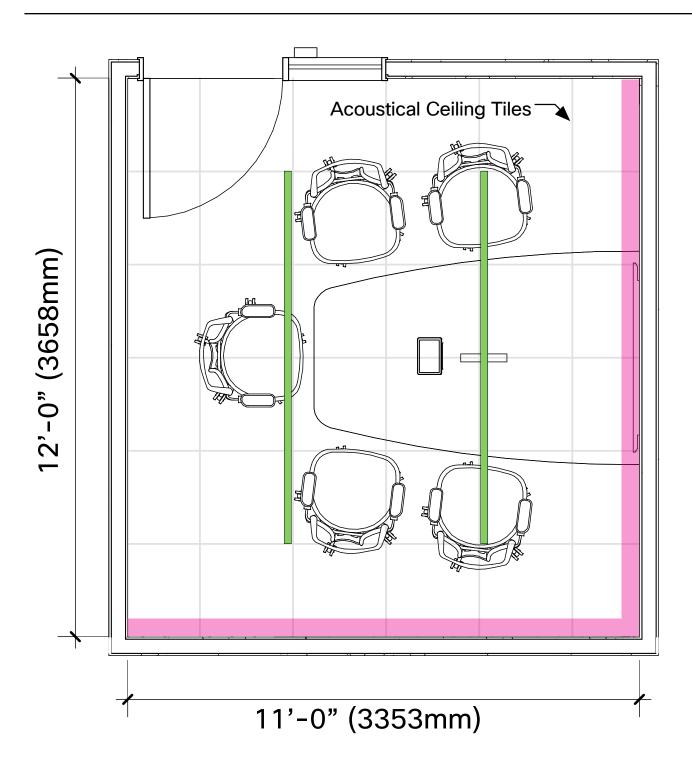
### Reflective Ceiling Plan



A glare-free luminary with a beam angle of 90° or wider is recommended.

In addition, fixtures selected should have a color temperature of ~4000K and color rendering index (CRI) of 85 or better.

### **Acoustical Treatment**



Installation of an absorptive ceiling, through the use of acoustic ceiling tiles, as well as the addition of acoustical panels to two adjoining walls within the room (preferably opposite the device and away from the entry location) is highly recommended.

### **Graphics Symbols**



HVAC Diffusers (T.B.D.)
Shown as Example Only



Furniture Systems Version Devices

Duplex Receptacle & Grid

**Acoustical Wall** 

Data Receptacle

**Power and Communication** 

WALL / CEILING / FLOOR VERSION DEVICES

Data Receptacle

Third Party Speakers (Optional)

Duplex Receptacle

\$ Light Switch

AV Receptacle

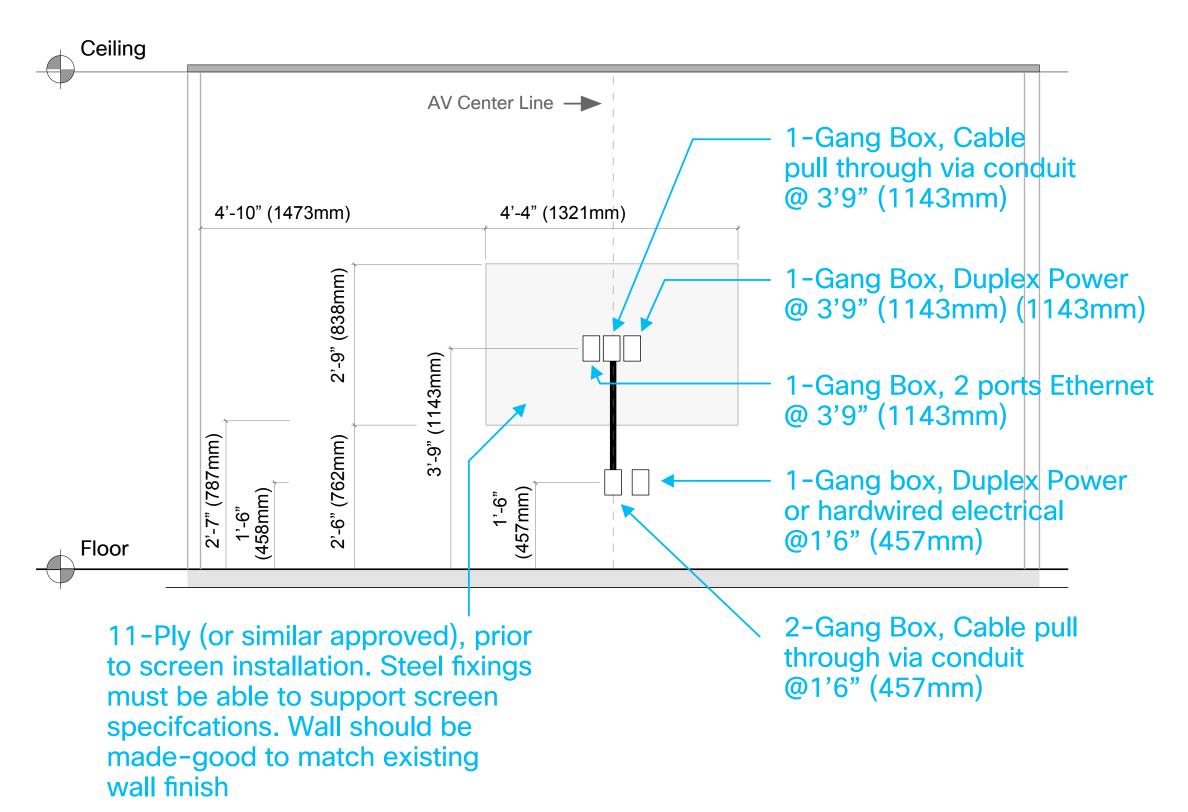
M Table Version Microphone

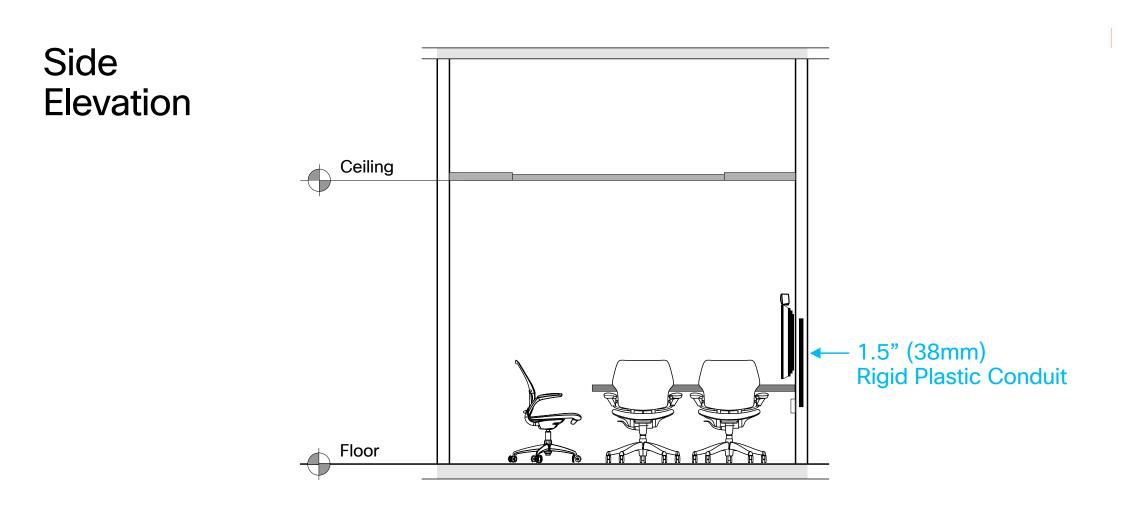
Combination Power & Voice / Data Infeed

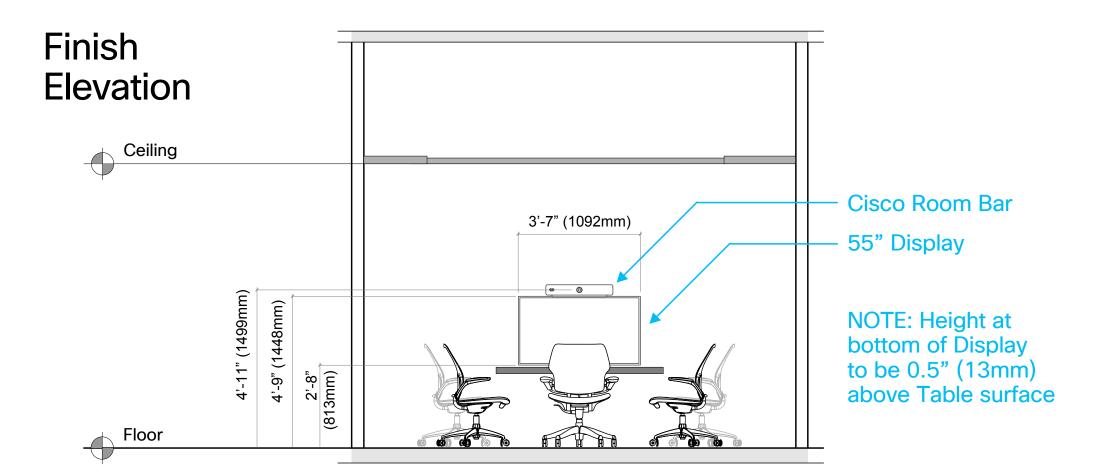


### Room Elevations

### **Construction Elevation**







### Power & Data

### **General Specifications**

Power and data requirements need to be verified for each project. Provide video device power and data even if the project plan does not include it on day one. Based on the design of this space, core drills and floor boxes are not typically required.

### Power & Data

Provide one (1) duplex power outlet and one data receptacle with two ethernet ports on the wall behind the video device. If wall mounted, both should be recessed, and the location should be either centered on the wall or off-center, away from the door and/or sidelight (so not visible). The exact location of power and data should be determined based on the specific wall mount that is selected; please confirm with the A/V integrator. If a credenza/table unit is used, power and data can remain at standard height per code. If power is also required at the table, then an additional duplex outlet or hardwired connection should be included under the table. In either case, please confirm with the furniture provider.



# Exploded IT Diagram



### Cisco Room Navigator for Table (required)

The recommended approach is to connect the Cisco Room Navigator for Table directly to the Cisco Room Bar using a network cable. The two can also be connected over the IT network if an ethernet port is available under the table.

#### Cisco Room Navigator for Wall

It is recommended to run the cable inside the wall or through the door frame directly back to a network switch.

#### **Table Top Charging**

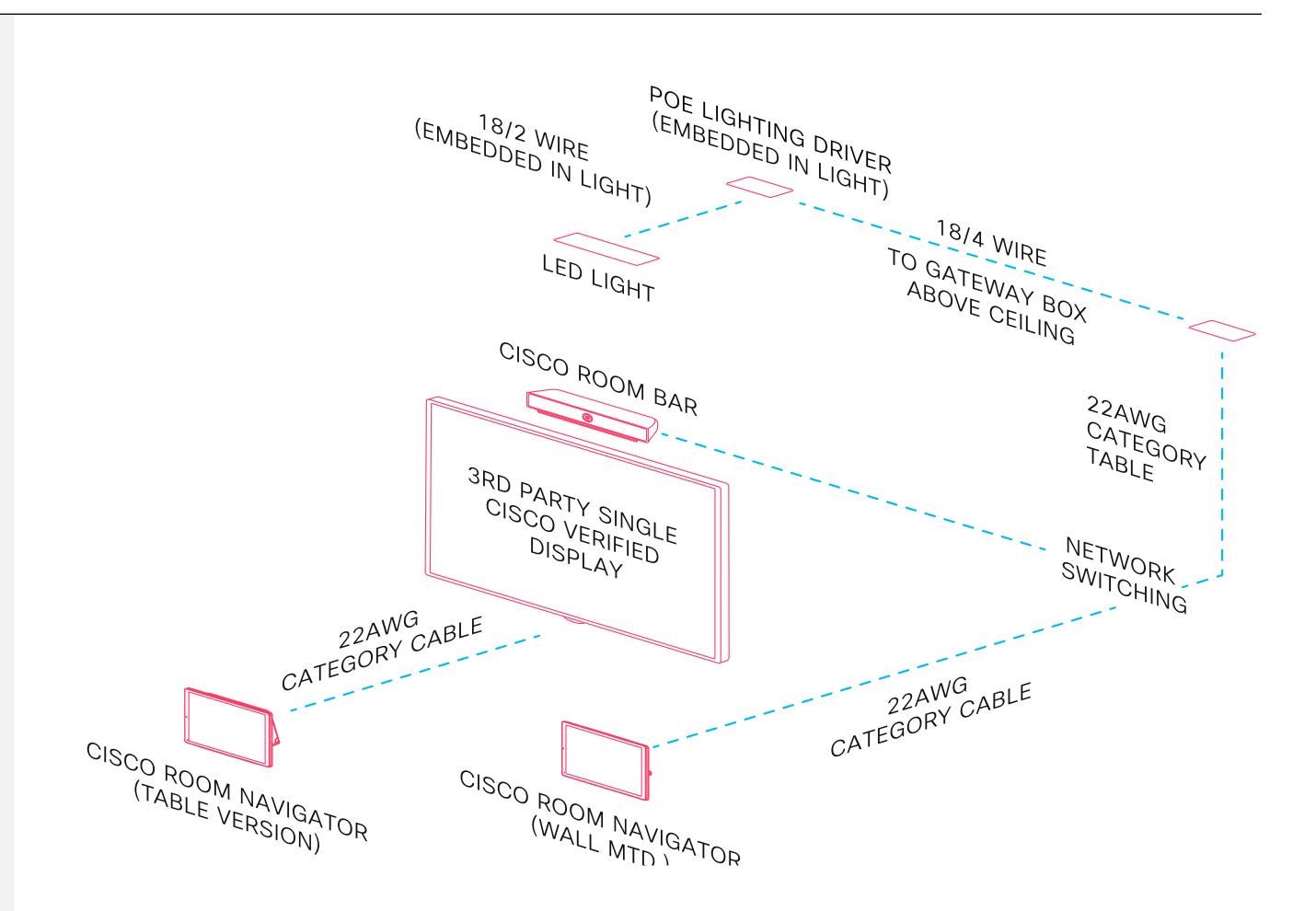
USB-C charging and convenience outlets on table top. Ensure the size of the trough and layout can accommodate a variety of laptop power supplies.

#### Wall Blocking

Required when the device is wall-mounted. The size and composition of blocking materials should be determined based on the overall weight of the solution deployed.

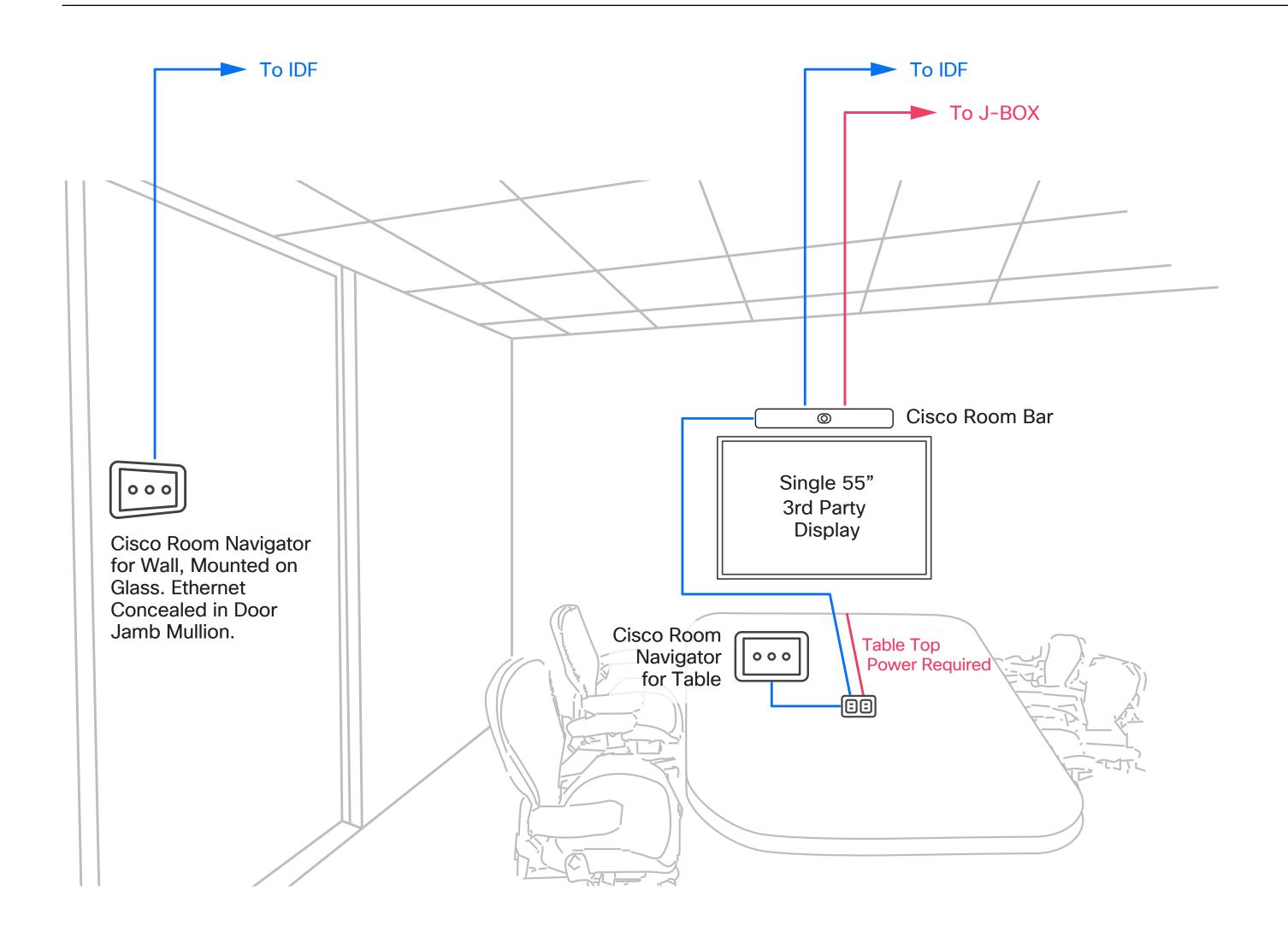
#### Core Drilling

Not typically required. With the table connected to the wall, all cables can run on the underside of the table surface, passing to the top of the table through a table trough. Access to the underside of the table can be either a grommet behind the display or a wall conduit (as shown in elevation drawings).





# Connectivity View



EthernetPower

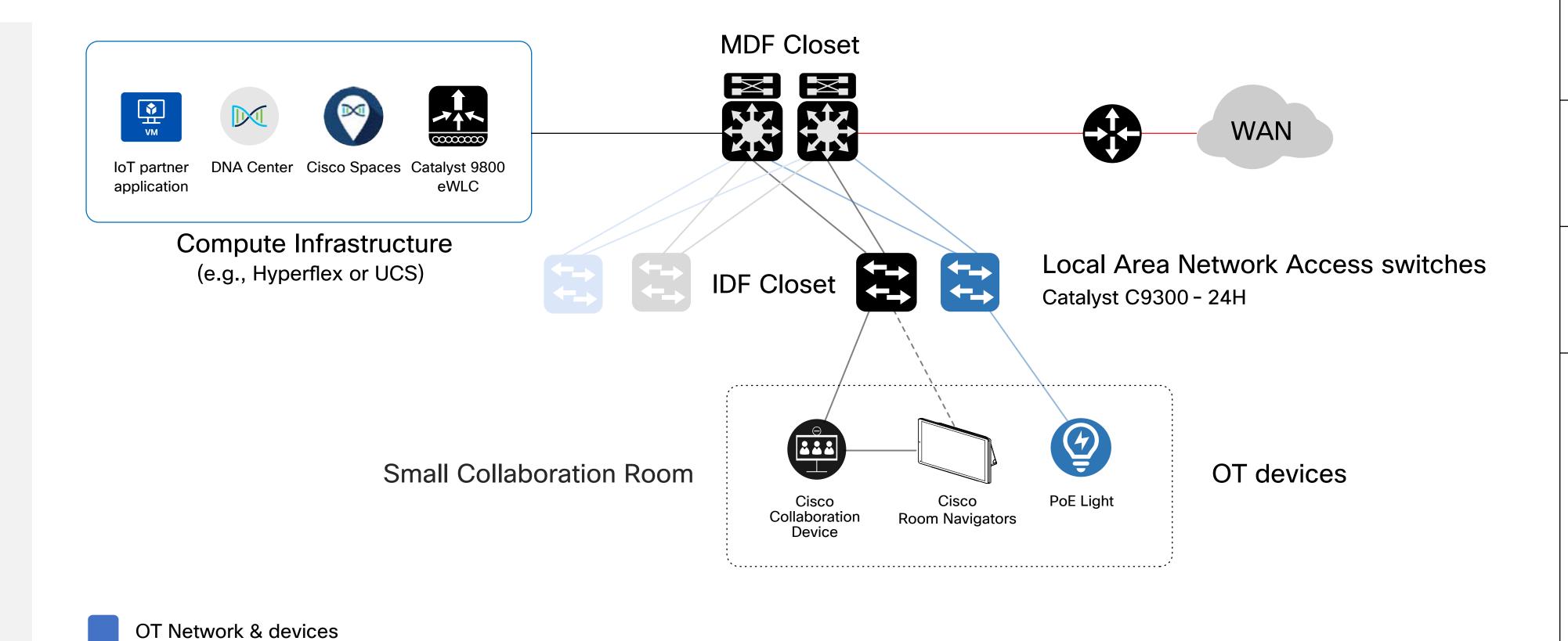
# IT/OT Reference Architectures

IT Network & devices

----- Alternate connectivity option



- Separate IT and OT network layout
- Port based DHCP allocation
- 90W UPoE+



# IT/OT Bill of Material

### **Cisco Products**

- CS-BAR-T-K9 Cisco Room Bar

• CS-T10-TS-G-K9 Cisco Room Navigator for Table (included with Cisco Room Bar)

• CS-T10-WM-K9= Cisco Room Navigator for Wall

### Non-Cisco peripherals

- Single 65" Display

### **IOT Devices**

- IAQ coming from the Cisco Room Navigator, No additional IoT IAQ
- Occupancy sensing is coming from the Cisco Endpoints
- Suggested lighting specifications: 220LPW raw,140LPW delivered
- Small Collaboration room lights being power by a 4 ports on the ceiling
- Traditional DC Wall Switch
- Ensure device is not plugged into a ASHRAE 90.1 outlet

### External microphones and speakers

- Mic and speakers are embedded in the Cisco Endpoints, No additional mic or speakers required



# Commissioning-User Acceptance Testing (UAT) Criteria

### OT/Space Testing

- Verify manual adjustment of lights, shades and environmentals are operational from wall controls
- Confirm that smart building integrations, specifically lighting and shading controls, work from Room Navigator and via voice commands (if applicable)
- Check any tabletop power and A/V cable functionality

### IT Testing

- Verify internet connectivity to video device
- Initiate test calls on video endpoint (via Room Navigator, Webex app and voice controls)
- Validate environmental metrics are being displayed on collaboration device and Room Navigator
- Confirm help videos are loaded
- Confirm that Room Navigator Wall is powered and that booking function is working properly. Check that booking function is also available within the room on the Room Navigator-Table version and via voice commands
- Verify the Cisco Smart Workspaces display is showing proper presence status

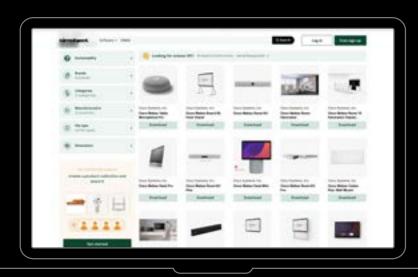




# clsco

### Design Files

Design files (Revit, AutoCAD, Sketch up, Rhino3D, etc.) for Cisco's collaboration devices, network switches, wireless access points and Meraki security cameras can be found at <a href="https://www.bimobjects.com">www.bimobjects.com</a>, search "Cisco."



### Resources

Guide: Best Practices for Creating Effective Video-enabled Rooms

Cisco Room Bar Data Sheet

Cross View Room Preparations Guidelines

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The intent of this document is to highlight the details, components and partners used in the creation of a Large Collaboration Room. Any reference herein to any specific commercial products or service does not necessarily constitute or imply its endorsement or recommendation.

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