Smart Building Technology and Hybrid Work Solutions

Cisco Talent and Collaboration Centers

Innovation Suite Design Guide

Open

Overview and Intent

This document provides guidance on creating the Innovation Suite, including space design, technology, and furnishings.

The intent of these Cisco Design Guides is to help organizations drive a repeatable and standardized approach to deploying collaboration spaces, leading to reduced implementation costs, quicker deployments, reduced solution complexity, and easier maintenance and support. Most importantly, the designs outlined in these documents will deliver an amazing experience for both in-person users of the space, as well as those participants connecting remotely.

The specifications and details in this document reflect how Cisco has approached the creation of these types of spaces in our own office environments. This should not be interpreted as a "validated design." Every project is different, therefore, assembling a multi-disciplined team of experts is critical to ensure success. This includes, but is not limited to, IT and facilities teams, architects and space designers, acousticians and lighting designers, change-management consultants, and a Cisco-certified integrator. These individuals need to be brought in at project inception to understand end-user requirements, assess the technical environment, and evaluate the attributes of the specific space, including overall layout, physical structure, accessibility, acoustics, electrical and mechanical systems, and external factors such as noise, light and temperature.

Room Description

A perfect space for a team meeting or when colleagues want to get together to share ideas and/or brainstorm. The informal setting, the mix of seating types, and varying postures provide choice and encourage interaction. Depending on the overall programing of the floor, this space can be oriented either landscape or portrait. It can also be deployed in the open plan or as subset of a larger collaboration area. Regardless of setting or location, the Cisco Board Pro 75 is the perfect multi-functional device for the space.

Supported Collaboration Activities

Information Sharing	
Brainstorming	✓
Team Building	✓
Decision Making	

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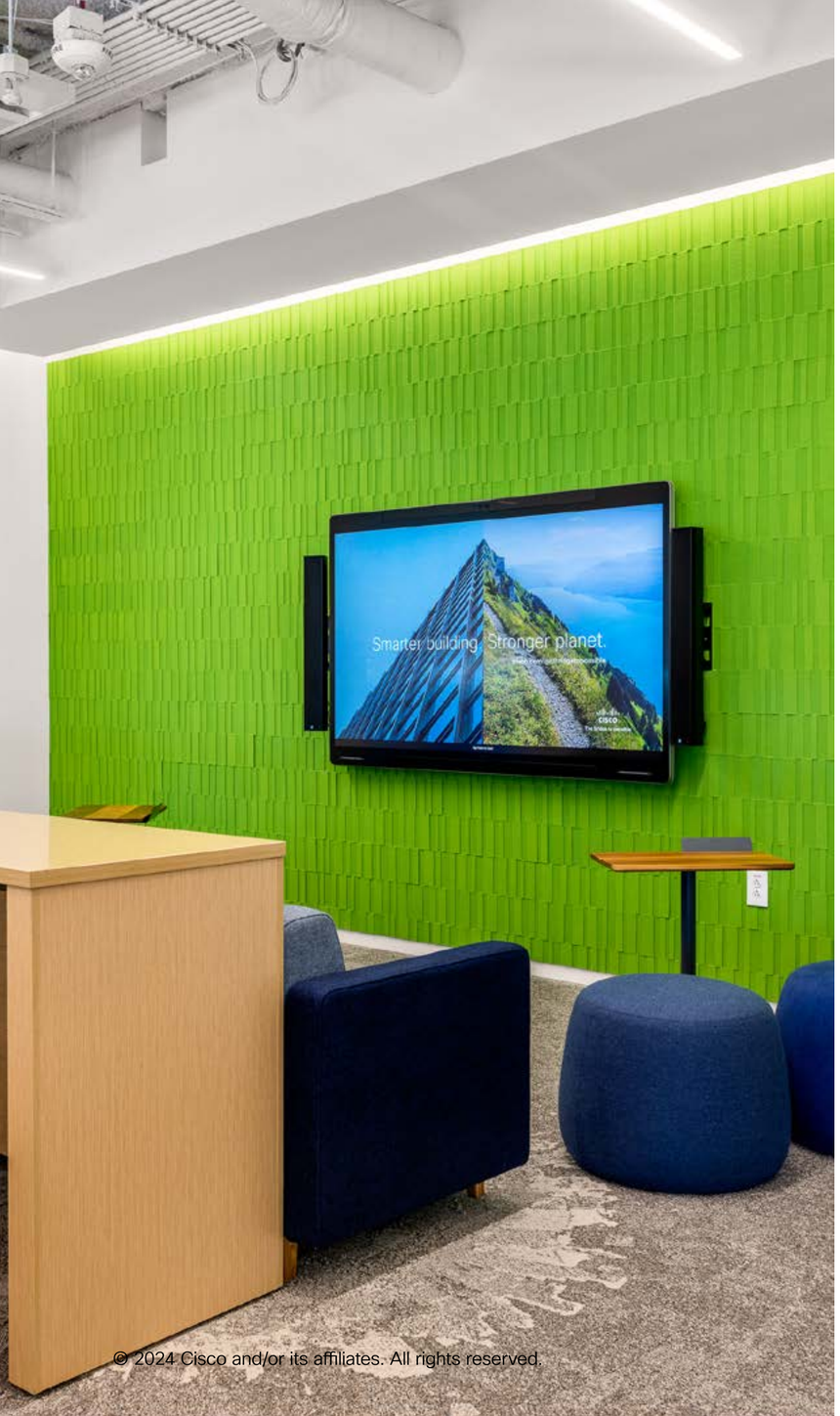
Visualization of key Cisco elements

Innovation Suite

Cisco Board Pro 75

Cisco Room Navigator for Wall



Video Device Mounting Options

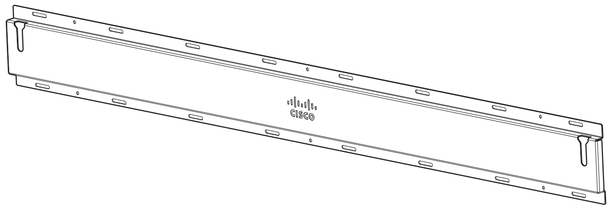
Innovation Suite

There are two mounting options for the video device in the Innovation Suite, directly on the wall or leveraging an A/V compatible credenza. Several factors will go into determining which option is best.

Option 1: Wall Mount

Cisco Board Pro 75 Mounting Bracket - Requires wall to be blocked and electrical and data to be elevated.

Board Pro 75



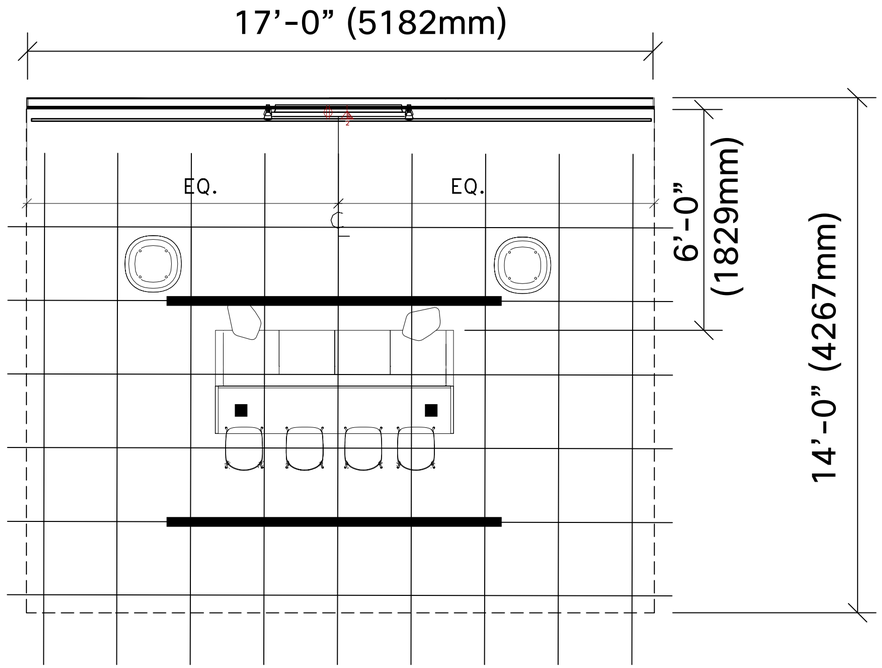
Option 2: Credenza Option

Low profile A/V compatible credenza - Fully integrated cabinets available from a number of specialized vendors, many eliminate the requirement for the wall to be blocked and electrical moved. Perfect for new and retrofit installations, allowing for quick and efficient installation. Check with manufacturers for specific details.

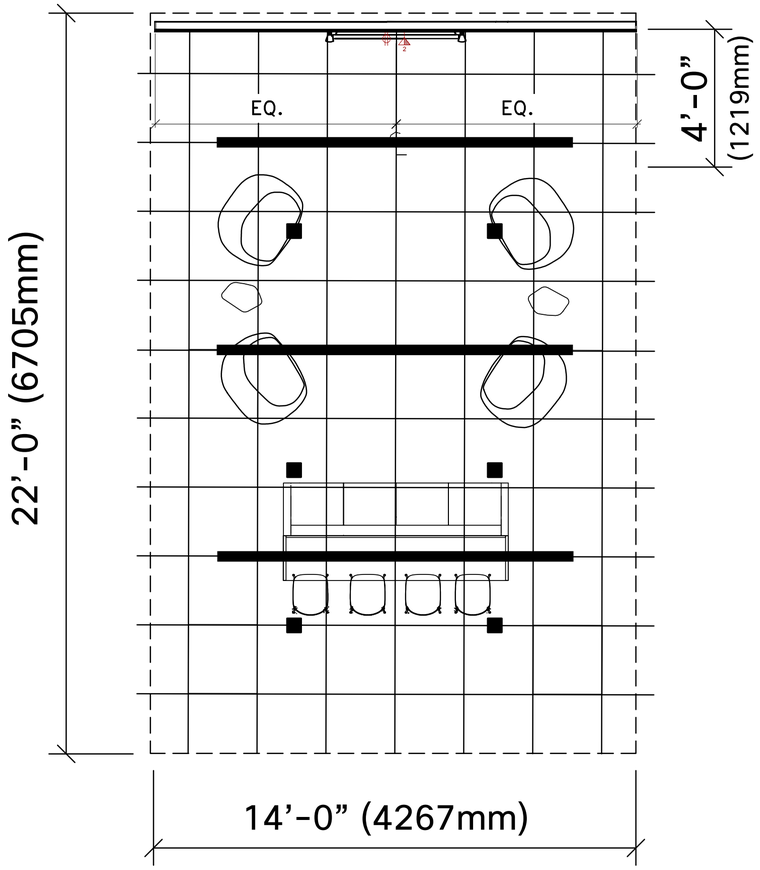
Composite Plan

Innovation Suite

Option 1: Landscape



Option 2: Portrait



Graphics Symbols

ACOUSTICAL CEILING AND GRID

HVAC DIFFUSERS (T.B.D.) - SHOWN AS EXAMPLE ONLY

LIGHT FIXTURES

LIGHT FIXTURES

FURNITURE SYSTEMS version DEVICES

DUPLEX RECEPTACLE

DATA RECEPTACLE

POWER AND COMMUNICATION

WALL / CEILING / FLOOR version DEVICES

DUPLEX RECEPTACLE

DATA RECEPTACLE

LIGHT SWITCH

AV RECEPTACLE

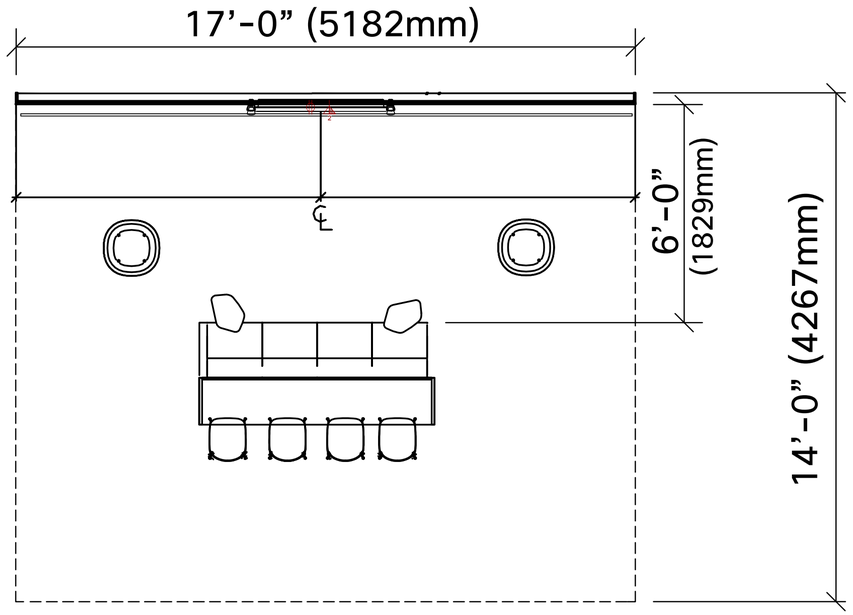
TABLE version MICROPHONE

COMBINATION POWER & VOICE / DATA INFEED

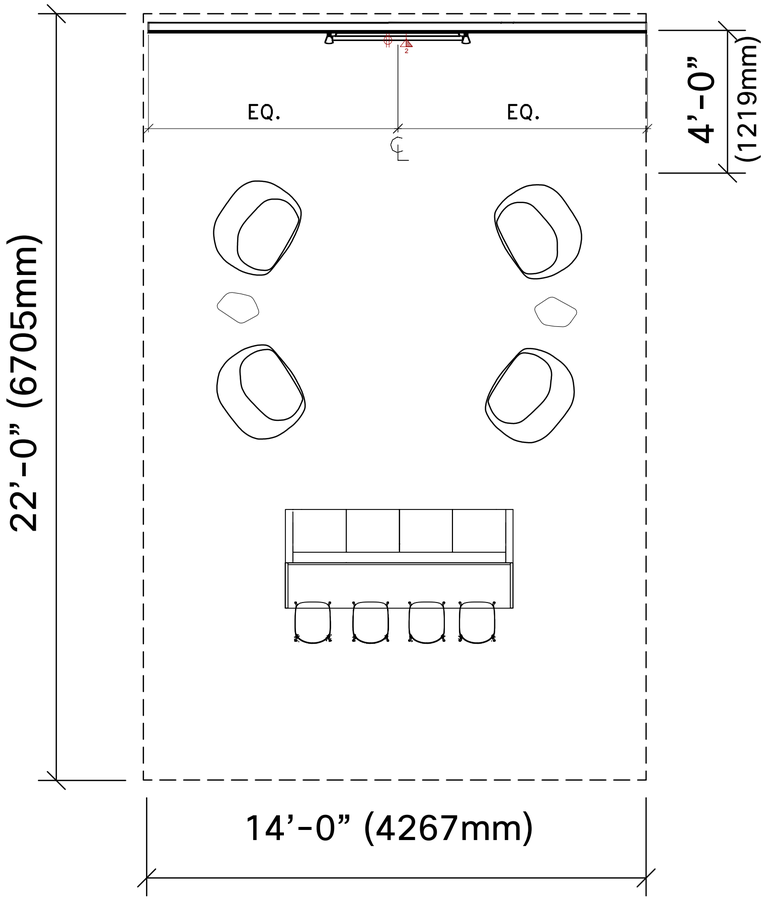
Room Layout

Innovation Suite

Option 1: Landscape



Option 2: Portrait



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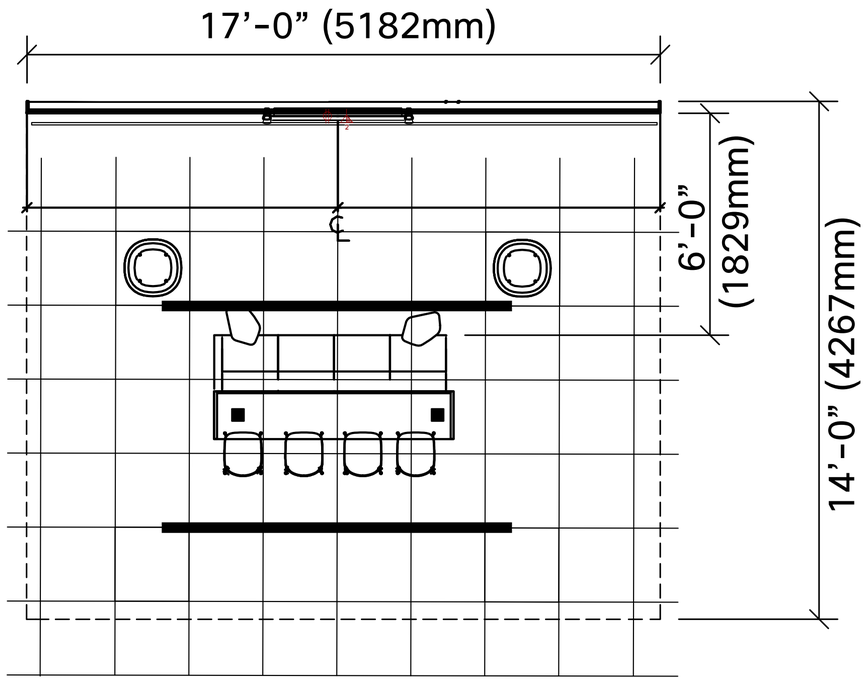
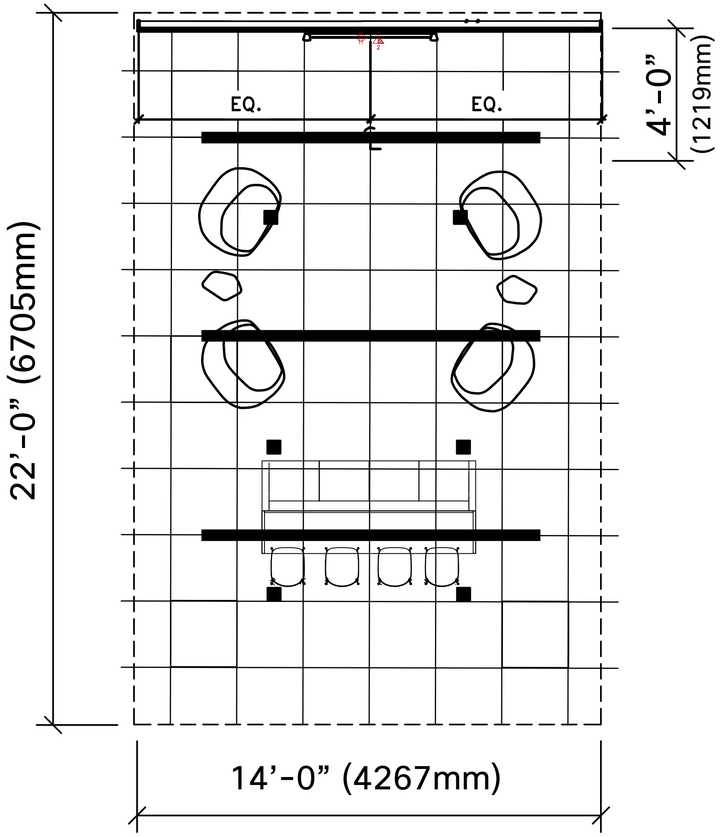
Reflective Ceiling Plan

Innovation Suite

Option 1: Landscape



Option 2: Portrait



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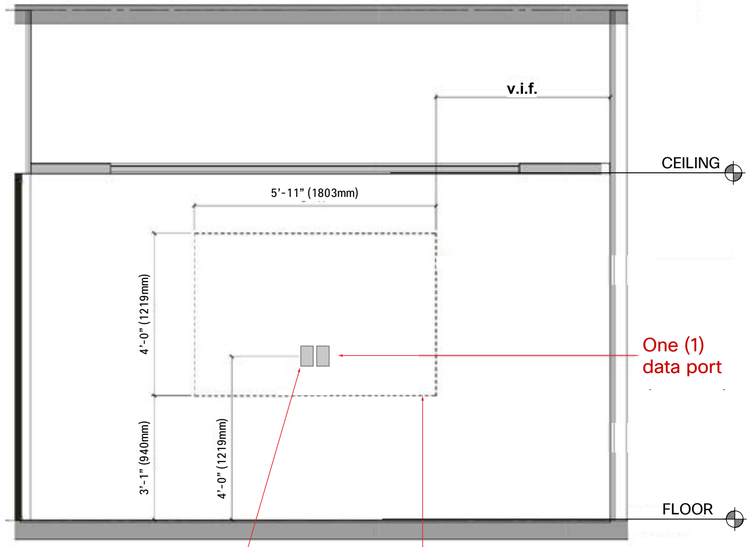
Room Elevations

Innovation Suite

Conduit Elevation



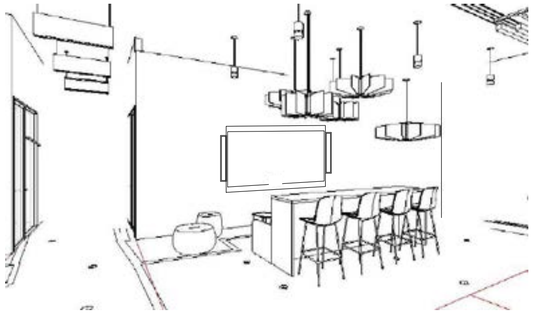
One (1)
data port

NOTE
Power and Data
to be Recessed

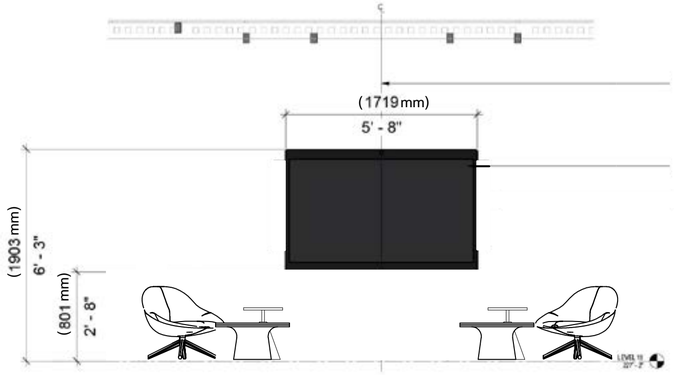
One (1)
duplex outlet

11-Ply (or similar approved), prior to screen installation. Steel fixings must be able to support screen specification. Wall should be made-good to match existing wall finish

Perspective View



Front Elevation

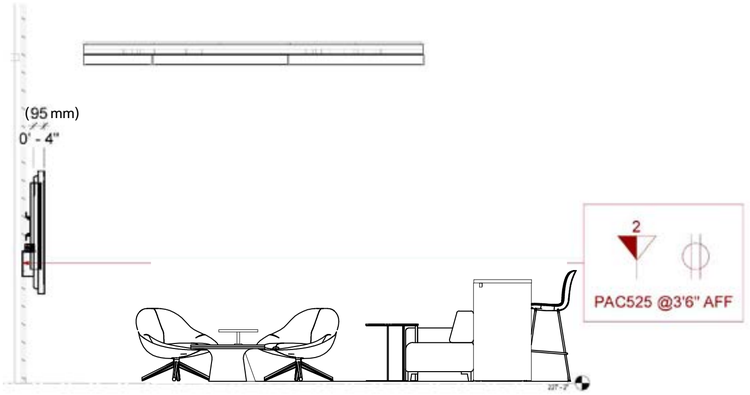


AV Centre Line

Cisco Board 75 Pro
Wall Mount

NOTE: AV Centre Line will be determined by Dimensions on Room Specific Floor Plans

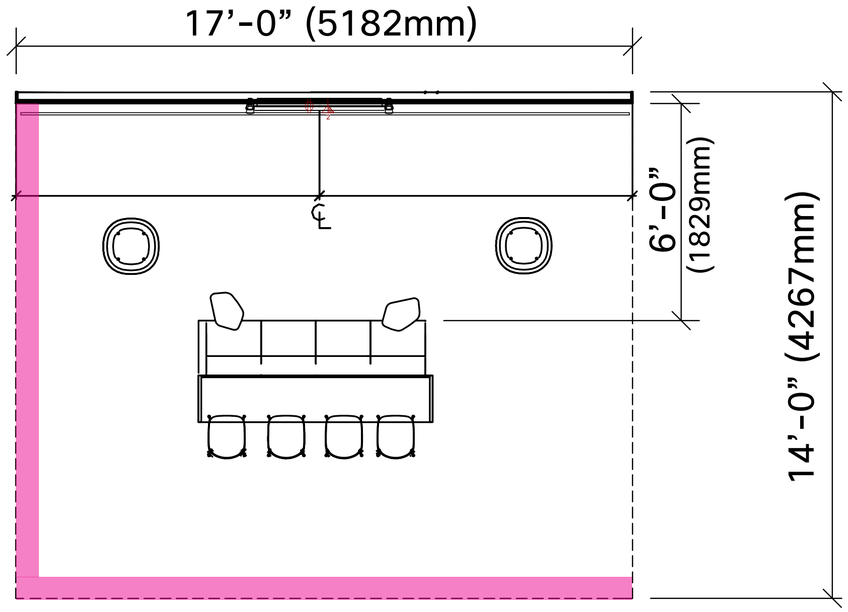
Side Elevation



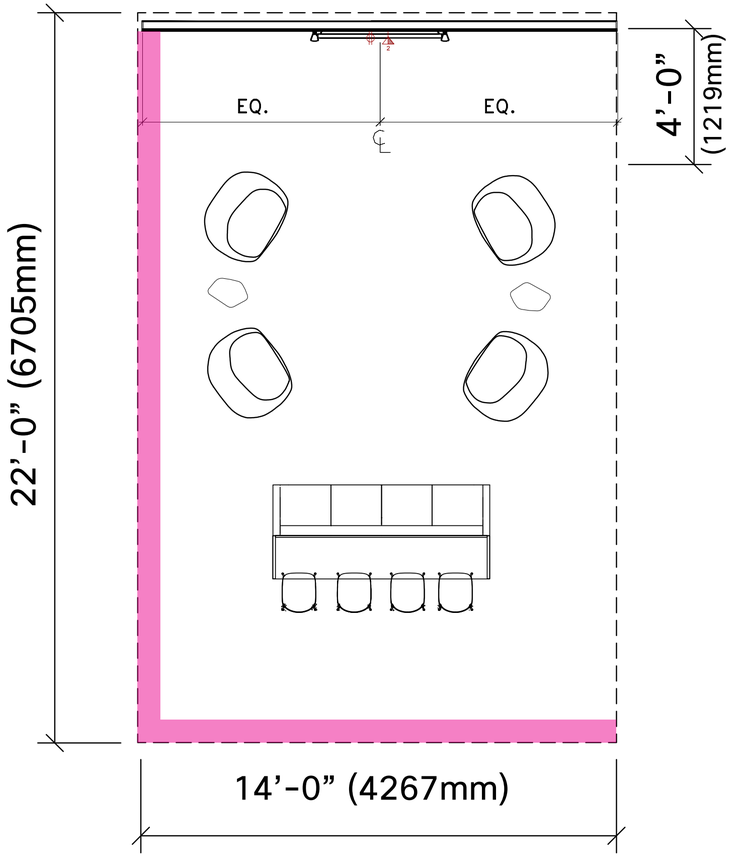
Acoustical Considerations

Innovation Suite

Option 1: Landscape



Option 2: Portrait



Note: Acoustic recommendations are made assuming this Innovation Suite is deployed as an enclosed room. If the space is in the open plan please consult an acoustic specialist to determine how best to optimize the space.

Power & Data

Innovation Suite

General Specifications

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

Power & Data

If wall mounted, one (1) recessed data jack and one (1) duplex outlet on wall behind video device. If wall mounted both power and data should be recessed. If using a credenza, power and data can be at standard height, per local code.

Exploded IT Diagram

Innovation Suite

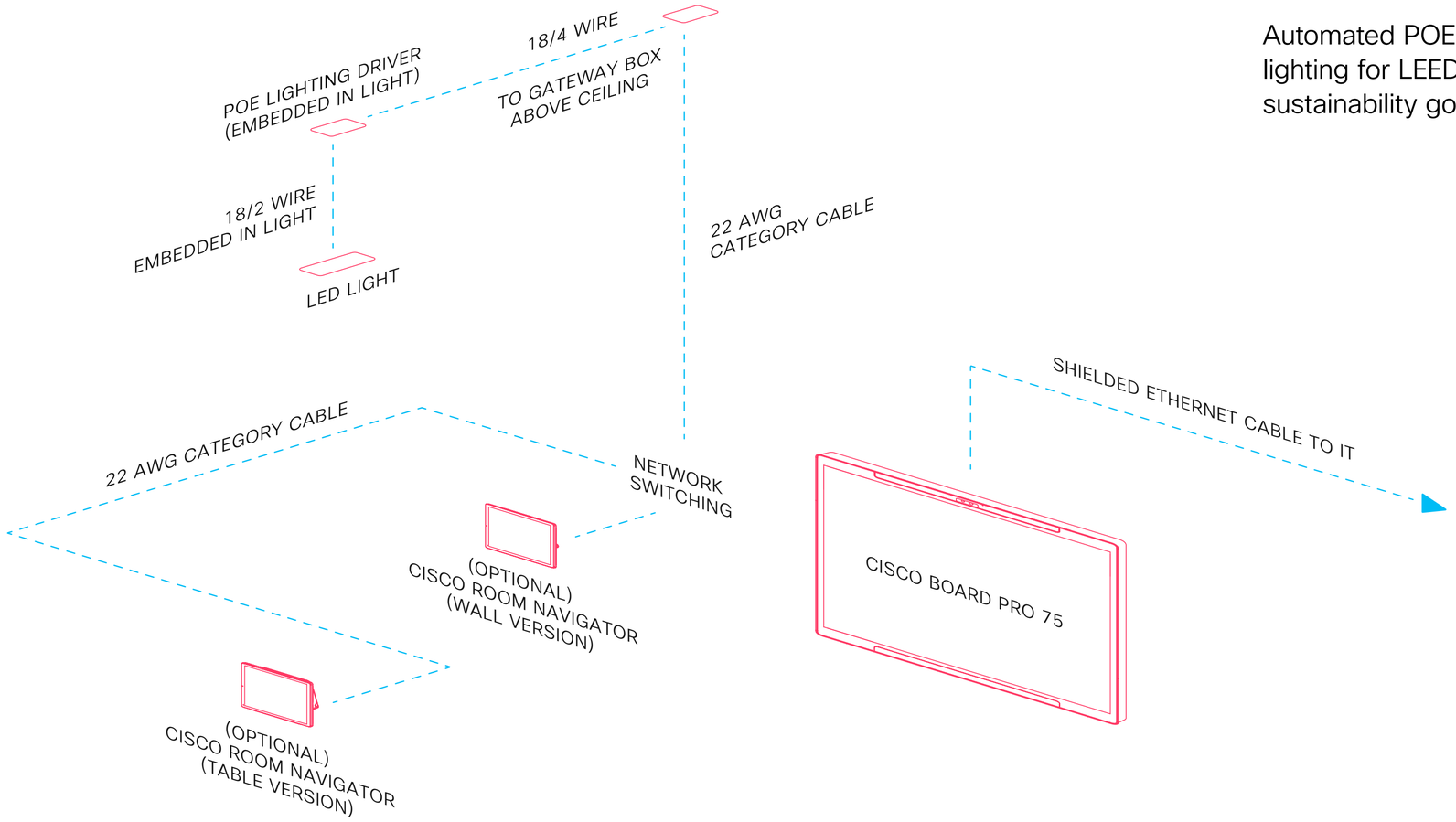
Core drilling required for Cisco Room Navigator (Table Version)

Need ceiling elements

Wall blocking required

(when device is wall mounted))

Consideration: USBC charging & convince outlets on the tabletop for occupant convenience

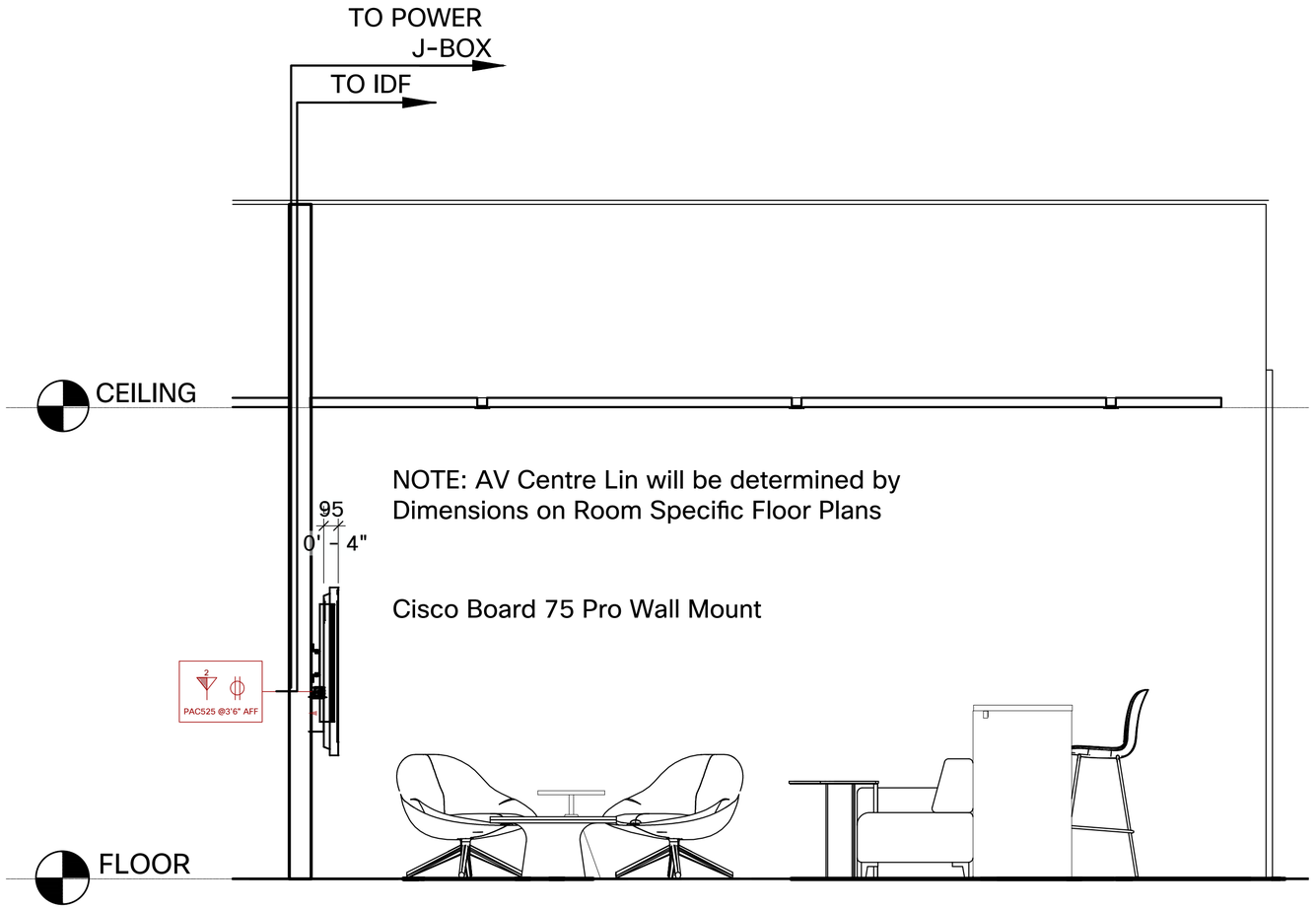


Automated POE lighting for LEED & sustainability goals

Audio reinforcement devices and quantity dictated by room size / layout

Connectivity View

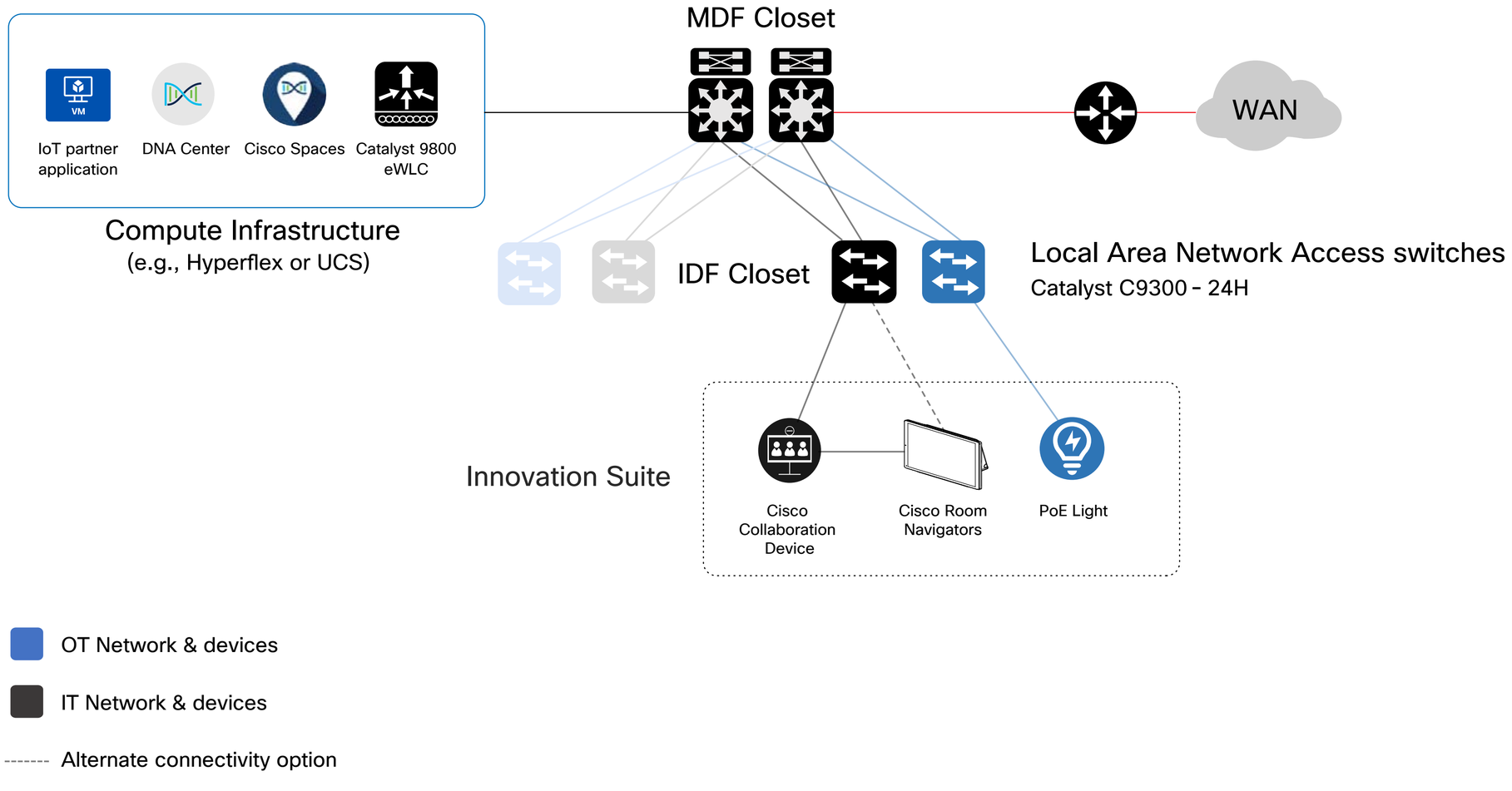
Innovation Suite



IT/OT Reference Architectures

Innovation Suite

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



IT/OT Bill of Material

Innovation Suite

Cisco Products

- **CS-BRD75P-K9** Cisco Board Pro 75
- **CS-BRD75P-WMK=** Cisco Board Pro 75 Wall Mount
- **CS-T10-TS-K9=** Cisco Room Navigator for Table (Optional)
- **CS-T10-WM-K9=** Cisco Room Navigator for Wall (Optional)

IOT Considerations

- IAQ coming from the Cisco Room Navigator, No additional IoT IAQ
- Occupancy sensing is coming from the Cisco Endpoints and IoT sensor
- Suggested lighting specifications: 220LPW raw, 140LPW delivered
- Each Medium Collaboration room POE lights being power by 4 ports on the ceiling
- Traditional DC Wall Switch
- Ensure device is not connected to 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 (Sample)

Innovation Suite

OT/Space Testing

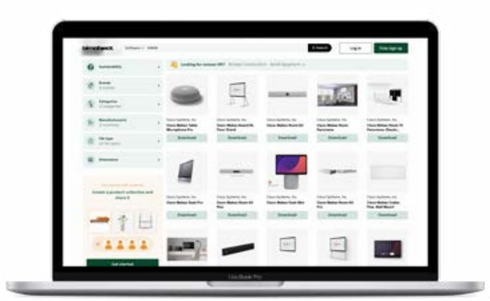
- [ ] Verify manual adjustment of lights, shades and environmentals are operational from wall controls
- [ ] Confirm lighting occupancy sensor is functional
- [ ] Check any tabletop power and data functionality
- [ ] Verify any smart buildings integrations are working properly

IT Testing

- [ ] Internet connectivity of Cisco Collaboration device
- [ ] Initiate test calls on video endpoint (via Board Pro 75, 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
- [ ] Verify the Cisco Smart Workspaces display is showing proper presence status

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 www.bimobjects.com, search "Cisco".



Resources

cisco.com

Guide: Best Practices for Creating Effective Video-enabled Rooms

Best Practices (PDF)

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

Version 6 (March 8, 2024)