PRYSM®

Synthesis Collaboration Platform

Synthesis provides the user interface and collaboration capabilities offered in Prysm's Cascade series of video walls and displays. Present, share, move, resize, and annotate all types of content through on-screen touch, PCs or mobile devices. Simultaneously display and interact with multiple live inputs including video, telepresence, and web apps. Configurable projects and workspaces allow teams to share the use of a Cascade system with other groups, save their work between sessions, and pick up where they left off when they next meet.

Synthesis connects to a Prysm cloud collaboration service to store content on the cloud and mirror the content to geographically distributed teams for simultaneous collaboration. Synthesis integrates with customers' existing collaboration applications and infrastructure to deliver higher returns on IT and facility investments.

Synthesis state-of-the-art collaboration software runs on the collaboration appliance. The collaboration appliance takes AV input from multiple content sources and provides local storage, network connectivity, and AV output to the Cascade video wall or display.

For more information, contact us at sales@prysm.com, 1.877.99.PRYSM or +1.408.586.1100.

Collaboration Features

▶ **Media and File Display** – Simultaneously display multiple media objects, document files, web browsers, live video sources (TV, video conference, streaming media players), information from in-room devices (smart-phones, tablets, PCs), and information from remote PCs. [1]

▶ **Real-time, Multi-site Collaboration** – All media objects uploaded to the cloud server are available for collaboration by up to 10 Cascade systems. Changes to the workspace content by any user is replicated and synchronized across all other Cascade systems in the workspace.

- Follow Me Mode [2] – Ensures that all interactions by host are presented to every participant, including workspace transitions. Cascade systems of different aspect ratios will pan if needed to display the latest active content.
- Participant Panel [2] – Easily identify workspaces in use and the names of each active participant.
- Display Synchronization [2] – Workspaces are accurately rendered to fit the various aspect ratios of a users display.

▶ **Video Teleconference** – On-screen video teleconference control panel for use with Cisco or Polycom hardware based codecs.

▶ **Audio Synchronization** – Local HDMI live source audio is synchronized and includes discrete mute controls for each live source feed.

▶ **Markup and Annotation** – Choose from multiple pen colors and stroke widths to annotate any file-based media, browser or live source and save it for future reference.

▶ **Projects and Workspaces** – Collaboration is accomplished through secure projects and its associated workspaces. Workspace content and layout is actively saved for future use and review.

▶ **Web Browser** – An integrated browser to display web content.

▶ **Capture and Share Content** – Take snapshots of any actively displayed object to save and share via on-screen email. [3]

▶ **Whiteboard** – Type notes or create freeform drawings.

▶ **On-Screen Keyboard** – Use multiple scalable keyboards. [4]

▶ **Dynamic or Fixed Content Layout** – Choose to freely move and resize content or fix content to predefined locations via snap grids.

▶ **Media and File Storage** – Store common enterprise media objects and file types on the collaboration appliance or in the cloud.

[1] Remote desktops (RDP or VNC) cannot be mirrored.
[2] Feature is only available in Synthesis version 2.0 and greater, which requires cloud server integration.
[3] Snapshots are attached as image files (.png) to an email that is sent through a configurable SMTP server.
[4] Currently only available in English.

Integration Options [1]

▶ **Live Video Source Integration** – Integrate up to 12 live video sources into a Cascade video wall or display. Live video may include teleconferencing feeds [2], TV signals, media players, media streaming devices, or in-room personal devices. Inputs are typically handled via standard HDMI and DVI interfaces or popular third-party wireless solutions.

▶ **Interactive Input Control** – A PC or laptop connected directly to the collaboration appliance can be controlled (via touch or mouse) directly from the Cascade video wall.

▶ **Cloud or Local Server** – Integrate Synthesis to the Prysm cloud or an on-premise collaboration server across Cascade systems.

▶ **Remote Desktop Integration** – Industry standard remote desktop software is leveraged to support the display of remote PCs that can be controlled directly from the video wall or display.

▶ **Microsoft Active Directory** – User authentication, presentation of network resources (file servers, printers, etc.), and remote administration of the collaboration appliance.

▶ **Microsoft SharePoint** – User access control to information assets, content management services, and implementation of enterprise database searches.

▶ **Control System Integration** – APIs are provided to facilitate integration with popular control systems (AMX, Crestron, Extron, etc.).

▶ **Customization** – Third-party applications and/or control interfaces can be integrated subject to API availability.

Administration Features [3]

Manage Synthesis settings from any location through a user friendly administration web portal.

▶ **User Accounts and Authentication** – Manage users and accounts with secure authentication to ensure that only authorized parties have access to specified projects and workspaces.

▶ **Templates** – Load, create, and save settings profiles for Synthesis backup and application to new Synthesis systems.

▶ **Content Customization** – Place a logo and select custom colors for the UI to match corporate branding.

▶ **Aspect Ratio** – Preset the aspect ratios for the unique displays in your environment to ensure all content is rendered properly.

▶ **Snap Grids** – Select from a default list or create custom snap grids to fix content to predefined locations on the display.

▶ **Activate and Configure Custom Options** – Set custom configurations for each Synthesis instance remotely.

[1] Some options may require a Prysm professional services agreement. Contact Prysm for details.
[2] Currently only available for Cisco and Polycom VTC.
[3] Feature is only available in Synthesis version 2.0 and greater, which requires cloud server integration.

Collaboration Appliance Technical Specifications

System

Operating System (OS)	Windows 8.1
Processor	Single Intel® i7 or Dual Intel® Xeon
RAM (GB)	16 – 32 [1]
HDD	2 × 512 GB SSD

I/O

Video Inputs	1 to 12 inputs:
	▶ HDMI 1.4a up to 1920 × 1080 @ 60 fps
	▶ SD/HD/3G-SDI up to 1920 × 1080 @ 60 fps
	▶ DVI up to 1920 × 1080 @ 60 fps or up to 4096 × 2160 @ 30 fps
	▶ VGA
	▶ YPbPr
	▶ CVBS
Video Outputs	4 to 12 outputs: Up to 3840 × 2160 @ 60 fps per output
Audio Output	Analog 3.5mm jack or digital (optical) output, (configured via the standard MS Windows audio drivers)

Power

Consumption Typical (W)	300 – 450 [1]
Consumption Max (W)	500 – 800 [1]

Heat Output

Maximum (BTU/hr)	1700 – 2700 [1]

Mechanical

Weight (lbs)	40 (18 kg) – 55 (25 kg) [1]
Dimensions [2]	
W × H × D (in)	16.8 [3] × 7.0 × 15.0
W × H × D (mm)	483 × 177 × 381
Rack Mount Height (U)	4

[1] Varies based on customer requirements.
[2] Base model.
[3] Fits standard 19.0 in. racks with the addition of rack-mount ears.