



PRODUCT
BRIEF

Avaya Video Telephony Solution

Making Video as Simple and Full Featured as Voice

The Avaya Video Telephony Solution makes video communication as simple as a phone call, by integrating the premier video capability from Polycom into Avaya IP Telephony. The solution provides both point-to-point and multipoint capability, and leverages the presence and instant messaging capabilities of Avaya IP Softphone, giving users improved collaboration capability for real-time decision making – in the office, at home, or on the road. Using a single IP network for voice and video applications, the solution allows businesses to reduce costs, simplify network management, and make video a significant component of enterprise communications.

Built on open, standards-based protocols, the solution provides a full range of video telephony capabilities including:

- **Desktop video:** allows users to place a voice call with Avaya IP Softphone and add video – appearing on each user's PC – with the click of a button. Audio can be delivered to the PC or to the enterprise desk phone.
- **Conference room video:** enables users to quickly launch a group voice and video call using a Polycom VSX series system
- **Multipoint video:** provides voice and video conferencing for users in multiple locations by leveraging a Polycom MGC Multipoint Control Unit (MCU)

The solution employs a converged voice and video gatekeeper, using a single dial plan for voice and video, and connecting video endpoints directly and seamlessly with Avaya Communication Manager and the Polycom MGC, or a Polycom VSX series conference room video system. As a result, the video endpoints are automatically registered with Communication Manager, and the video conference is established quickly and easily, integrated with the voice call.

With the optional Presence and Instant Messaging capabilities of the Avaya IP Softphone, users can quickly and easily identify the availability of the party or parties they're trying to reach, and join them for a voice or video call quickly and easily.

The Avaya Video Telephony Solution provides:

- Ability to identify a person's availability with Presence, place a phone call as usual, then add video with a single click
- Easy access to high quality person-to-person or group video conferencing
- Unified dial plan for simple, convenient calling
 - Share same address book of all voice and video endpoints
 - Seamlessly add video to a voice call by simply dialing a voice extension when both endpoints are video-enabled (don't need to know the IP address for video)



- Bandwidth management, preventing saturation of the WAN and ensuring optimal performance of video and other applications on the network
- Ad-hoc point-to-point or multipoint video conferencing, using Avaya telephony speed dial and conferencing capability

Business Benefits:

- Adopt a single IP infrastructure that integrates voice and video applications, makes video easier to manage across a distributed enterprise, and lowers Total Cost of Ownership (TCO)
- Deploy a single network management system for voice and video, including common signaling, standardized dial plan, shared directories, and common authentication and authorization procedures
- Leverage the comprehensive features of Avaya Communication Manager and Avaya IP Softphone, while introducing new video capabilities
- Take advantage of the latest Polycom video capabilities for best video conferencing experience
- Reduce infrastructure requirements by maximizing the gatekeeper functionality of Communication Manager

Solution Features:

- Unified network management system for voice and video, including: common signaling, a standardized dial plan, integrated directories, and common authentication and authorization procedures



- Converged voice and video gatekeeper allowing direct connection and automatic registration between Communication Manager, MCU, and VSX video endpoints
- Access to Avaya telephony features including hold, transfer, forward, coverage paths that can hunt for a user on various pre-determined numbers, and audio conferencing with IP or PSTN users, via the Polycom VSX
 - Support for standards based endpoint registration
 - H.323 to 3G gateways and support for 3G mobile devices
 - Support for Wideband Audio (G.722.1 Siren 7 and Siren 14/annex C) between trunked Communication Manager systems
- High quality video conferencing:
 - H.261, H.263, H.264
 - Siren 14 (VSX-to-VSX)
 - H.239 People+Content™ (VSX-to-VSX)
 - Internal Multipoint Option – up to 4 sites
- Bandwidth management capability, including privilege based prioritization allowing bandwidth ranges for specific users or conference rooms

Solution Components:

- Avaya Communication Manager v4.0
- Avaya IP Softphone R 6 + Avaya Integrator for Polycom Video R2.0
- Avaya Network Management Console v. 3.0, part of the Avaya Integrated Management Suite
- Polycom VSX conference room video system v.8.5.3
- Polycom MGC multipoint control units v.9
- Optional third party gatekeeper, eg. Polycom PathNavigator
- Support for any USB web cam
- Polycom Global Management System
- Polycom HDX v1.0.2

Component Features

Avaya IP Softphone

- Video controls integrated into IP Softphone
- Automatic or manual initiation of video

- Load balancing
- Ability to mute video
- Supported in Road Warrior and Shared Control modes
- Administrative capabilities including statistics and logging reports
- Support for a range of video codecs, depending on camera and processor speed, including H.261, H.263, H.264
- Communication Manager acts as a gatekeeper for audio, video, and telephony features
- If no camera is available, system is auto configured to a receive-only model
- Support for standards based (H.323) endpoint registration for quick connection
- Secure authentication of Polycom VSX Series endpoints and Avaya IP phone and Softphone
- Gatekeeper capabilities

Solution Requirements:

Avaya IP Softphone R 5.2

Software:

- Avaya IP Softphone R 6 + Avaya Integrator for Polycom Video R2.0
- Integrated with Avaya Communication Manager as gatekeeper
- Supports hold, transfer, and coverage via Communication Manager
- Supports IP Softphone, VSX, and MGC
- Supports send only and receive only for video, as well as video mute
- Supports USB Web Cams

Avaya Communication Manager v4.0

Avaya Communication Manager includes new enhanced features, including integration with Polycom video conferencing capability. The Avaya Video Telephony Solution integrates Communication Manager and Avaya IP Softphone with Polycom video conferencing capability, resulting in a comprehensive, easy-to-use video collaboration solution. Solution benefits include:

PC Specifications for Support of IP Softphone with Video

OS Support	Windows 2000, Service Pack 3 or higher Windows XP, Service Pack 1 or 2
USB Support	USB 1.1 or USB 2.0
Processor	1 GHz for USB camera 1.5 GHz to invoke H.264 codec (USB cameras only)
RAM	512 MB
Hard Drive Space	50 MB
Speaker Option	Road Warrior mode – a full duplex sound card with headset or headphones Shared Control mode - Avaya 2400, 4600 or 6400 Series Phone
Network Access	Broadband IP connection (LAN, DSL or Cable – minimum 128kbps upstream for internet connection)
Video Memory	8 MB minimum
Color	256 colors (or better)
SVGA Monitor Resolution	1024 x 768 (or better)
Microsoft® Internet Explorer	Version 6.0 or later
Microsoft DirectX® Software	Version 9.0b or later
Recommended USB Cameras	Logitech QuickCam 4000, Logitech QuickCam 5000, Logitech Notebook, and Creative Notebook WebCam. ViaVideo compatible

Avaya Communication Manager v4.0

Hardware:

- S8700 or S8500 server (supports 1000 video calls)
- S8300 server (supports 75 video calls)
- Communication Manager H.323 trunk to a third party gatekeeper

Additional Hardware

- Polycom VSX Room Systems:
 - VSX 3000
 - VSX 5000
 - VSX 7000e
 - VSX 7000s
 - VSX 8000
 - V500

- Polycom MGC Multipoint Control Units:

- MGC 25
- MGC 50
- MGC 100

Learn More

To learn more about the Avaya Video Telephony Solution contact your Avaya Client Executive or Avaya Authorized BusinessPartner, or visit avaya.com.

About Avaya

Avaya delivers Intelligent Communications solutions that help companies transform their businesses to achieve market-place advantage. More than 1 million businesses worldwide, including more than 90 percent of the FORTUNE 500®, use Avaya solutions for IP Telephony,

Unified Communications, Contact Centers and Communications Enabled Business Processes. Avaya Global Services provides comprehensive service and support for companies, small to large. For more information visit the Avaya Web site: <http://www.avaya.com>.

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