



MITEL

TeleCollaboration Solution

Real, Live Interaction

Mitel® TeleCollaboration Solution combines the immersive power of next-generation high-definition video conferencing with extremely flexible desktop and simple collaboration capabilities not seen in traditional video-conferencing products.

TeleCollaboration Solution delivers life-size interaction through high-definition (1080 x 1920 pixels) video and immersive, spatial wideband audio. While high-definition video streams require larger network bandwidth and performance characteristics, extensions to standard video coding (H.264 and other MPEG-4 formats) are used that support transmission of these video streams over considerably lower bandwidths and with greater tolerance to network impairments than alternative high-definition systems. With real-time eye-to-eye contact, non-verbal aspects such as facial expressions and body language are captured – resulting in greater understanding and interaction between everyone involved.

Natural, Face-to-Face Experience

TeleCollaboration Solution features Virtual Shared Space (VSS), which ensures life-size video that can be modified to optimize your collaboration experience. High-definition cameras are co-located at the bottom center of each participant's screen. Everyone has full view of the others and, most importantly, has direct eye contact with them. Imagine a table large enough to seat all the participants of your meeting – at any given location, the participants at remote sites turn to look at each other as if they were around the same table. You know the participants are not in the same room, but through telecollaboration, the illusion is very realistic.





TeleCollaboration Solution

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Simplicity of Use

The illusion of being in the same room requires more than face-to-face interactions. It requires ease of sharing material as if you were physically together. Telecollaboration means that documents, presentations, pictures, and even your desktop can be shared and collectively edited using simple drag-and-drop commands. And starting a meeting is as easy as walking into a room. Instantly establish telecollaboration sessions at the touch of a button on a phone, or even by a simple click of a mouse. With Mitel, telecollaboration brings a natural, intuitive, and immediate collaborative experience.

Green Technology

Because of their simplicity and effectiveness, telecollaboration interactions provide positive experiences that promote the solution's increased use. This results in greater company-wide productivity while decreasing intra-company travel. Decreased need for business travel reduces costs, brings a fast return on investment, and lessens a company's carbon footprint.

Deployment Options

Mitel TeleCollaboration Solution is comprised of two configuration types.

High Definition Office / Small Meeting Room

The High Definition Office provides a two-screen, highly interactive solution which lets executives take full advantage of high-definition conferencing and collaboration from the comfort of their office. The large high-definition screens extend the computer desktop, helping busy executives work more effectively and spontaneously interact with local and remote colleagues for significantly increased productivity. This configuration is optimized for one to three participants. Mitel TeleCollaboration Solution has been designed to allow easy future growth.

High Definition Meeting Room

This three-screen solution for meeting rooms brings virtual teams together in a life-like environment. The High Definition Meeting Room delivers price / performance characteristics that support local installations, ensuring the ease of access so important to widespread usage. The High Definition Meeting room configuration also supports an optional camera for multipoint viewing. This configuration is optimized for four to six participants per room to share in the telecollaboration experience.

Features

Video Capabilities

Live video feeds include point-to-point or multi-point high-definition video connections involving:

- SIP call control and media negotiation
- Up to three-party video conferencing supported
- Extensions to the base MPEG4 or H.264 encoder ensure uniform network load and packet transport error resiliency
- Continuous adjustment of video encoder operating parameters in response to feedback regarding far-end packet arrival data (varying image bit rate, then frame rate as required, depending on network transport capacity)
- Display segments that can be dynamically and arbitrarily sub-divided and assigned to live video feeds, stored video files, shared computer desktops, stored data files, or streamed multimedia content
- Choice of purely "presentation" mode or conferencing / collaboration applications

Audio Capabilities

- Integrated conference bridge performs the mixing function for remote meeting rooms, as well as dial-in, audio-only participants
- Audio streams are transmitted separately from but may be associated with specific video streams, and are individually synchronized with the video at the receiving end of the network
- CD-quality stereo audio originating from local physical media, attached PCs, or remote video wall servers
- Beam-forming microphone conference phone operation with (stereo) acoustic echo cancellation
- Support for wideband telephony audio

Collaboration Capabilities

- A shared desktop from an adjunct network-attached PC (including streamed multi media content)
- Multiple desktop sharing sessions supported across multiple sites
- Any Internet accessible content supported, either manually obtained using a browser or through programmed RSS feeds
- Data files and presentation materials displayed on the video wall may originate from a variety of sources
- Desktop sharing may be controlled to only specific sites or across all sites
- Sharing may be read-only or read / write
- Sharing files and computer desktops performed through a simple interface: place content in the "local" space for private, in-room viewing; place content in the "common" space for display to all or only selected remote sites

User Interface and Controls

VoiceFirst™ application provides intuitive control, allowing users to:

- Turn telecollaboration system on / off
- Initiate or answer an audio or video call from one or more sites
- Escalate from audio call or conference bridge to video conference
- Manage audio volume control
- Turn on / off HD (wideband) sound
- Lock the conference

HD Controller graphical user interface provides:

- Simple drag and drop video call initiation / termination
- Simple drag and drop desktop sharing to one or more remote sites
- Manage audio-volume control
- Turn on / off HD (wideband) sound
- Lock the conference

TeleCollaboration Solution Specifications

	HD Office / Small Meeting Room	HD Meeting Room
Screens	Two 1080p HD displays	Three 1080p HD displays
Cameras	One HD camera (camera / lens / cable)	Two HD cameras (camera / lens / cable)
Dial-In Capability	Up to 10 participants (20 with additional license)	Up to 10 participants (20 with additional license)
Wideband Audio	100 – 7000 Hz	100 – 7000 Hz
Frame Rate	30 fps over a local Firewire 800 or Gigabit Ethernet link	30 fps over a local Firewire 800 or Gigabit Ethernet link
Resolution	1080 x 1920 pixels	1080 x 1920 pixels
IP Phone Compatibility	Mitel 5340 IP Phone	Mitel 5340 IP Phone
Bandwidth Requirement	2.5 Mb/s or more	2.5 Mb/s or more

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