

Video Conferencing Demo from Dialogic

The Dialogic® Video Conferencing Demo provides several examples of how video conferencing can be deployed. You can download this demo free-of-charge and use it for 45 days to demonstrate video conferencing solutions that support the latest endpoints, including smartphones and tablets.

Why Develop Video Conferencing Solutions?

The demand for video conferencing is growing rapidly for several reasons — advances in webcam-enabled messaging and smartphones, the widespread availability of IP network connectivity, a more geographically dispersed workforce with significant increases in home office use and business travel, and a higher comfort-level with video communications within the population as a whole.

Until recently, multipoint video conferencing was expensive in large part because it relied on complex proprietary platforms, and this, in turn, kept adoption rates low. But as interest in video conferencing grows, new approaches that leverage software and standard hardware platforms are emerging.

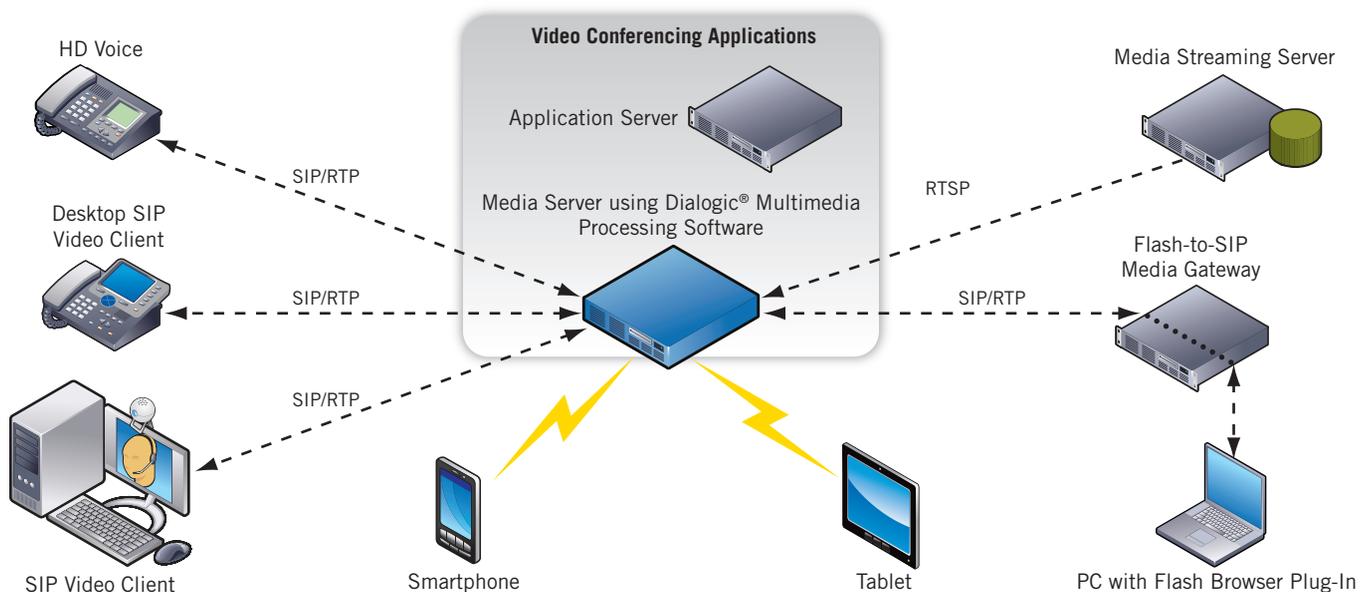


Figure 1. Multimedia Conferencing Solution

The Dialogic Video Conferencing Demo allows you to demonstrate video conferencing applications for up to 10 (ten) callers on smartphones, tablets, PC clients with softphones, or IP video phones. The applications you develop can be expanded to support larger conferences with up to 240 participants. Figure 1 illustrates an example of a multimedia conferencing solution that is based on the demo.

The current version of the demo was created using the Asterisk dial plan interface on top of the DiaStar® Server (DSS), which is based on the same multimedia processing engine as other Dialogic® Multimedia Processing Software products. Dialogic is in the process of updating the demo to add other media control interfaces.

Demo Highlights

- **Successfully tested for interoperability with smartphone and tablet-based iPhone, iPad, and Android video clients** — Supports the latest mobility endpoints for video conferencing solutions
- **Provides an open-source SIP Registrar**— Enables easy SIP-based calling from SIP-compliant terminals on the internet
- **Successfully tested for connectivity with Flash-based browser plug-ins using a third-party Flash2SIP gateway** — Greatly improves access and ease-of-use for PC-based video conferencing using a standard browser without special client software
- **Supports advanced “ad-hoc” and “controlled” video conferencing with either standard- or high-definition video resolution** — Improves the user experience and enables the development of innovative video conferencing solutions
- **Can support an RTSP client function** — Allows the streaming of internet content into a video conference using external streaming servers

What Solutions Can You Build?

The initial version of the demo includes sample applications that provide ad-hoc and password-protected video conferencing. You can also build a wide variety of video conferencing solutions based on the demo. Here are just a few of the possibilities:

Business or Social Use

You can create an application for ad-hoc or scheduled video conferences with participants using the devices shown in Figure 1. Some dating sites use video conferencing, for example.

Training or Company Presentations

A single live presenter can stream training sessions or company meetings. Including a Flash-to-SIP media gateway (as shown in Figure 1) allows content to be distributed to participants who are using computers with standard internet browsers and without requiring special client software. (The demo has been successfully tested with third-party Flash-to-SIP media gateways.)

Recording a Video Conference

Adding a video conference recording feature allows training sessions, company presentations, or call center transactions to be stored for future reference. This feature can also be used to create video blogs or reports, for example.

Entertainment

Video conferencing is a popular way of presenting entertainment or special events. Internet-based content can be streamed into a video conference using the RTSP protocol, allowing multiple participants to view and discuss the content in real time.

Real-Time Monitoring Using a Remote Webcam

Input from a “Webcam” can be streamed into a video conference over RTSP to allow family members or a group of friends to witness a wedding, reunion, or local soccer game even if they cannot attend in person.

Technical Specifications

Interfaces	SIP/RTP, RTSP (client only)
Audio Coders	G.711u/a, G.722, G.729a, G.729b
Video Coders	H.263, H.263++, H.264, MPEG-4
Video Formats	VGA, CIF, QCIF, Sub-QCIF
Video Features	Play/Record Video transcoding, transrating, and transizing Video overlays Video conferencing
Other Features	1, 4, 6, 9 image tiling Attendee captions Static image display Video clip display “Ad-hoc” and “controlled” conference modes Conference recording can be added RTSP client can be added Tone detection and generation
Call Progress Analysis	Pre-connect busy and ringback tone detection Post-connect positive voice/answering machine/fax/modem detection
Deployment environment	Single ISO install, standalone

Check the website at www.dialogic.com/vcdemo periodically, as the demo will continue to be upgraded.

Working with the Dialogic® Video Conferencing Demo

Here are some possible steps for working with the video conferencing demo.

1. Try the proof-of-concept video conferencing platform deployed by Dialogic. Contact your local Dialogic sales representative for instructions. Local contact information is available at www.dialogic.com/contact.
2. Download the demo at www.dialogic.com/vcdemo. Once you install and configure the demo, you can start developing a video conferencing application based on it.
3. When your application is ready, request a 45-day trial license from Dialogic, which allows access to advanced multimedia functionality developed by Dialogic.
4. Enhance and test your application with input and support from Dialogic. At this stage, you should be able to dimension your system and determine hardware requirements based on the number of users, types of video terminals supported, available bandwidth, codecs, resolution, frame rates, etc.
5. After 45 days, order standard licenses for Dialogic Multimedia Processing Software.

Want to Learn More?

For more information, contact your local Dialogic representative. Contact information is available at www.dialogic.com/contact.



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