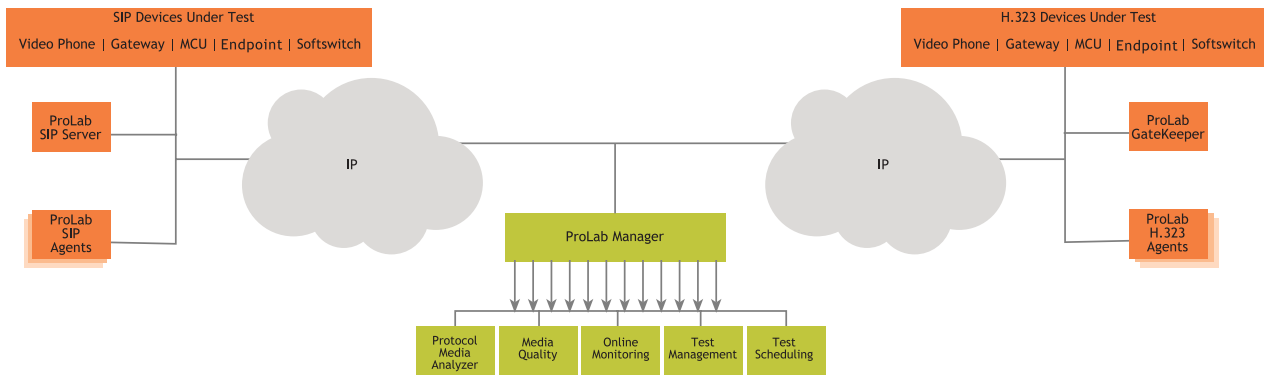




# ProLab™ H.323 Test Solution



The ProLab H.323 Test Agent is based on RADVISION's award-winning H.323 Protocol Toolkit. Controlled by the ProLab Test Manager, the ProLab H.323 Test Agent receives scenarios, runs them upon command, generates traffic to the Device under Test (DUT), collects test results and returns them to the ProLab Test Manager in real time. By simulating H.323 endpoints, ProLab H.323 Test Agents can initiate and terminate H.323 calls.



## The ProLab H.323 Test Agent Features

### Advanced Signaling

- Simulate multiple IP addresses and multiple registrations
- Q.931 call signaling (tunneling, fast start, overlap sending, loopback, early H.245, DTMF)
- Add and remove ASN.1 field
- RAS messages (e.g. RRQ, ARQ, DRQ, GRQ)
- H.245 (media loop, roundtrip delay, flow control, DTMF v1.0, DTMF v2.0, video fast update)
- Calls to multiple sources and/or destinations
- Multiplexing, Progress, Notify, Parallel
- Multiple registrations to gatekeeper
- Annex E (using UDP), Annex L, Annex M

### H.450, H.235

- H.450.1-3 (transfer, activate, reroute, forward)

### Media

- RTP/RTCP (recording and playing voice and video)
- DTMF-RFC 2833
- FECC camera control
- Transmission of RTP voice- and video-encoded packets employing a wide variety of codecs
- RTP loopback

### Stress and Performance

- Capacity to generate and receive thousands of calls
- High capacity and volume
- Poisson and random call distribution/duration

## ProLab Gatekeeper Agent

Also based on RADVISION's award-winning Gatekeeper Toolkit, the ProLab Gatekeeper Agent simulates all of the functionality of an H.323 gatekeeper and includes gatekeeper policies such as direct mode, routed mode, and H.245 proxy mode. Additionally, the ProLab Gatekeeper Agent is capable of simulating positive and negative responses for atypical testing.

## ProLab Gatekeeper Agent Features

- Direct, routed, and proxy mode
- H.450 supplementary services
- Bandwidth control
- Neighbor configuration
- RAI/RAC
- Automatic and manual mode policy settings
- Registration procedures
- Address translation services
- Admissions control
- Bandwidth control and management
- Call control signaling, call management, authorization

## H.323 Standards Supported

- ITU H.323 v4
- ITU H.225.0 v4
- ITU H.245 v10
- ITU H.235 v2  
(with Annex D security procedures)
- H.450.1
- H.450.2
- H.450.3
- H.323/Annex E
- H.323/Annex L
- H.323/Annex M1
- H.323/Annex M2
- H.323/Annex M3
- H.323/Annex Q

### About RADVISION

RADVISION (NASDAQ: RVSN) is the industry's leading provider of high quality, scalable and easy-to-use products and technologies for videoconferencing, video telephony, and the development of converged voice, video and data over IP and 3G networks. For more information please visit our website at [www.radvision.com](http://www.radvision.com).

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### VoIP Media Analysis & Quality Testing

The VoIP Protocol & Media Analyzer enables advanced analysis and monitoring of all the media streams, including packet loss, jitter, latency, bandwidth, and RTP delay. It also simulates multiple error network conditions, such as packet loss, duplicate packets, delay, and corrupted payload, and monitors the call signaling H.323, SIP, SDP and media quality, including audio and video.

### Video Quality

The new perceptual Video Quality measurement uses different video metrics. It intrusively analyzes received video streams and perceptually scores relevant degradations on a 5-point MOS scale. Additional key performance indicators (KPIs), like PSNR and blockiness, are output to allow experts to make a more detailed analysis. Video Quality measurement can be used for SIP, H.323 and 3G-324M.

### Voice Quality

The ProLab Media analyzer analyzes Voice Quality, measured by digitized voice lines. MOS is based on the subjective opinions of actual users rating the quality of the voice line on a scale from 1-5. The model provides measurements based on packet loss, jitter, and round trip delay.

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