

An efficient software tool which simulates VoIP connections at a Ethernet node. Particularly it is optimized for the measurements within VoIP systems and for the range VoIP equipped with numerous auxiliary functions such as connection list, collection by quality criteria etc. Also measuring of speech quality is possible, in order to be able to make a statement about the quality of a connection.

Supported VoIP protocols:

- SIP/SDP, H.323

Speech quality analysis by:

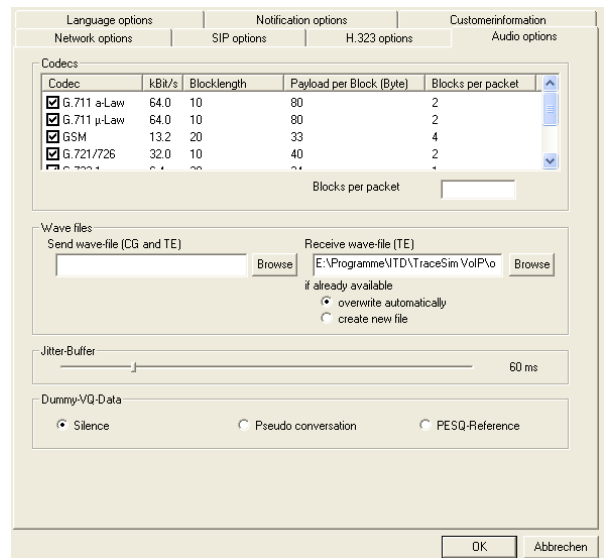
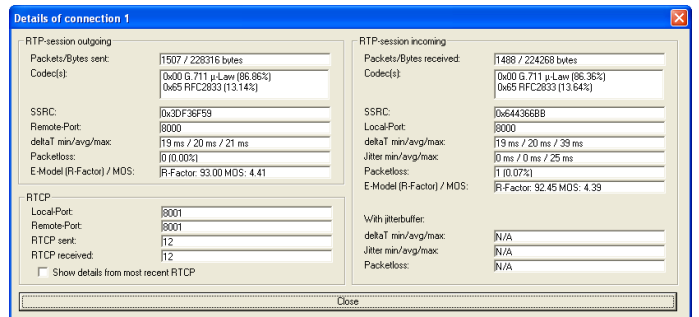
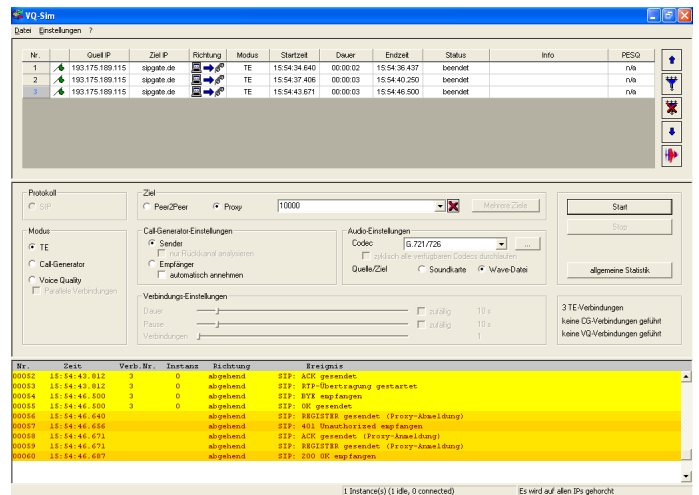
- E-Modell (ITU-T Rec. G. 107)
- PESQ (ITU-T Rec. P.862)

Supported audio codecs:

- G.711 (A-Law, μ -Law), GSM, G.721
- G.729A, G.723.1, iLBC

The optimal measuring and analysis system:

- With installation and start-up of VoIP nets
- Within the range of the service achievement, maintenance, quality assurance and preservation of evidence
- For the locally error tracing
- To create test scenarios for different applications
- Easy to learn
- For analysis and monitoring of speech quality
- To produce VoIP traffic (VoIP load)
- Training and teaching system



System requirements:

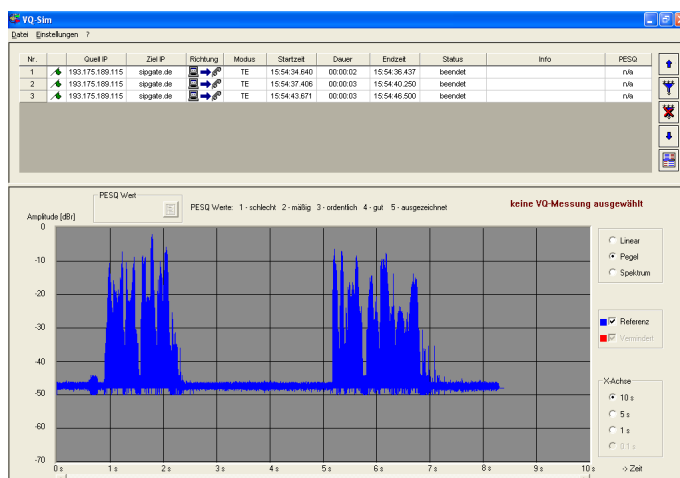
- OS: Win2000, WinXP, WinVista, Win2003 Server
- Memory: min. 512 MByte
- Hard Disk Space: min. 1 GByte
- Processor: min. 1,4 GHz

Features and Benefits

- TE Mode to simulate an End Device
- Call Generator Mode to send or receive up to 300 parallel VoIP connections*²
- VQ Mode to analyse the quality of speech according to PESQ (ITU-T P.862) with up to 50 parallel VoIP connections
- Automated test of a network to detect the maximal possible number of parallel VoIP connections with good quality
- Integrated job planer to execute automated tests
- Incoming and outgoing connection list
- Operation in Peer-to-Peer and Proxy-Mode
- Six different audio codecs
- Priorisation: VLAN-Tagging, DiffServ, TOS
- Clearly structured User Interface
- Wide connection list with supplementary details to each connection
- Connections with problems are marked with red flags
- Filter functions to search connections with problems
- Log window to represent the connection processes
- Wide statistics
- Print of statistic
- Export of important measurement data in a XML file
- Print of connection info

- Export of connection data (source IP, destination IP, direction, start time, duration, end time, status, cause, used codecs, jitter, packet loss, PESQ value etc. for each connection, which was marked to print)
- Creation of a test report for the customer
- External Client tool for incoming calls as remote station (unlimited use, available for Windows and Linux)
- SIP protocol to establish a connection
- H.323 protocol to establish a connection
- QoS measurement VoIP-, ISDN- and Analog endpoints
- Constant monitoring of speech quality by automatically QoS tests

*² Higher number of parallel connections are in development



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