

*Web-based GUI
with Multi-User Support*

*Multi-Test Agent control from the same
controller interface*

*Tones, Voice, Fax and Data Modem traffic
mix on any channel*

Signaling

Make Call, Receive Call, End Call

Analog - FXO/ FXS Loopstart

ISDN PRI - NI2, 4ESS, 5ESS, DMS100, Euro ISDN

Tone Streaming

Generate/ Detect DTMF

Generate/ Detect Custom Tones

Voice Streaming

Play/ Record

Duplex transmission support

Voice clips - A-law and Mu-law Artificial Speech

Test Stimulus for QoV analysis

Fax Streaming

Send/ Receive Fax

V.17, V.29, V.27ter, V.34 hdx modulations

Send/ Receive/ Polling/ Turnaround polling

Page formats: A4, B4, A3

Image encoding: MH, MR, MMR, JPEG

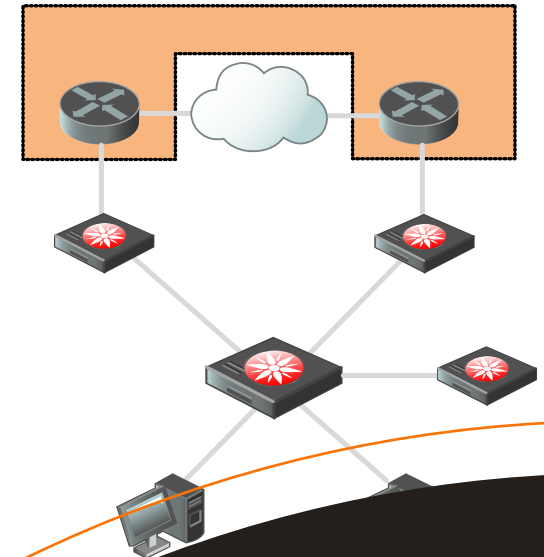
ECM Mode: None, Frame size 64/256 bits

Data Modem Streaming

Send/ Receive File

Duplex transmission support

V.22, V.22bis, V.32, V.32bis, V.34 modulations



Voice, Fax and Data Modem Traffic Generator



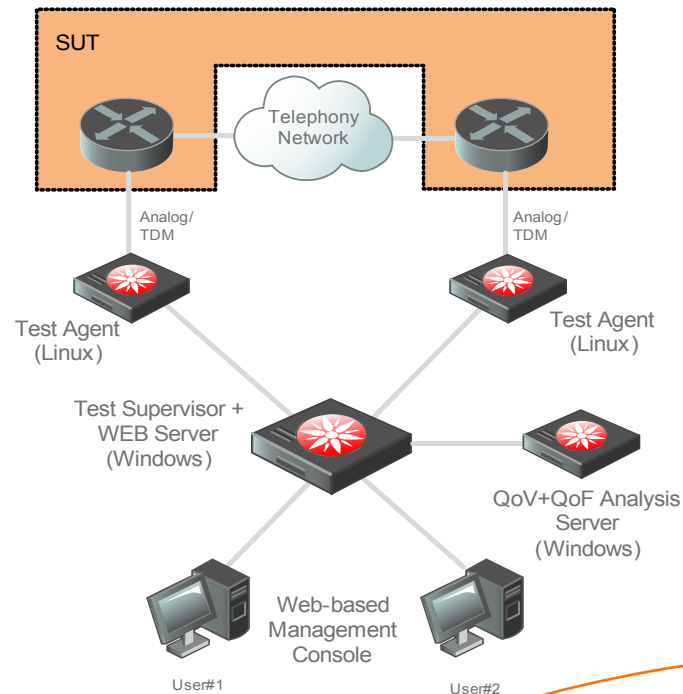
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FULL TRAFFIC MIX WITH QUALITY OF VOICE AND QUALITY OF FAX ANALYSIS

Zoltes Voice, Fax and Data Modem Traffic Generator (VFD) is an end-to-end testing tool for PSTN enabled devices using generic call flows and media streaming features across analog and TDM telephony interfaces.

KEY FEATURES

- > Multi-User support with WEB-based management console
- > Multi-Test Agent control from the same controller interface
- > Tones, Voice, Fax and Data Modem traffic mix on any channel
- > Execution control
 - > Flexible dial plan support
 - > Conditional If and Loop statements in Test Script
 - > Rerun test if failed, stop after failure, continue after failure
- > Test Statistics
 - > Summary
 - > Detailed
- > Test Results
 - > Thresholds, Error Codes per failure
 - > List of error codes with summary description
 - > Ability to load the PCM recording files in Adobe Audition (CoolEdit) or similar analysis tool
- > Test Automation via TCL and SOAP



BENEFITS

- > All-in-one tones, voice, fax and data modem traffic generator for analog and TDM networks
- > Assess media streaming transmissions with Quality of Voice and Quality of Fax analyses
- > Originating/ terminating PCM recordings available for further in-depth analysis
- > Flawless integration with Zoltes V.34 Fax Analyzer

ANALYSIS RESULTS

Quality of Voice Analysis

PESQ

- > PESQ MOS / LQ
- > Proportion of degraded file muted
- > Longest mute section

PSQM

- > PSQM, PSQM+ Score

PAMS

- > Listening Effort (LE)/ Listening Quality (LQ)

P.56 Measurements, Method B

- > Active Level/ Voice Activity/Noise Level/ Peak Level

Quality of Fax Analysis

- > Transaction Efficiency (FOM)
- > Cut-off ratios (ECM and Non-ECM)
- > Speed reduction ratios (ECM and Non-ECM)
- > ECM and Non-ECM Image Quality Metrics

Data Modem Statistics

- > V.34, V.32, V.32bis, V.22bis, V.22 Sessions
- > Data Rate Tx min/ max, Rx min/ max
- > Retransmits initiated/ granted
- > Renegotiations initiated up/ down/ granted
- > Synchronous/ Asynchronous links
- > LAPM/ MNP links
- > No compression sessions