

PESQ Advanced

Enhanced PESQ Test Agent

All the features of PESQ PLUS :

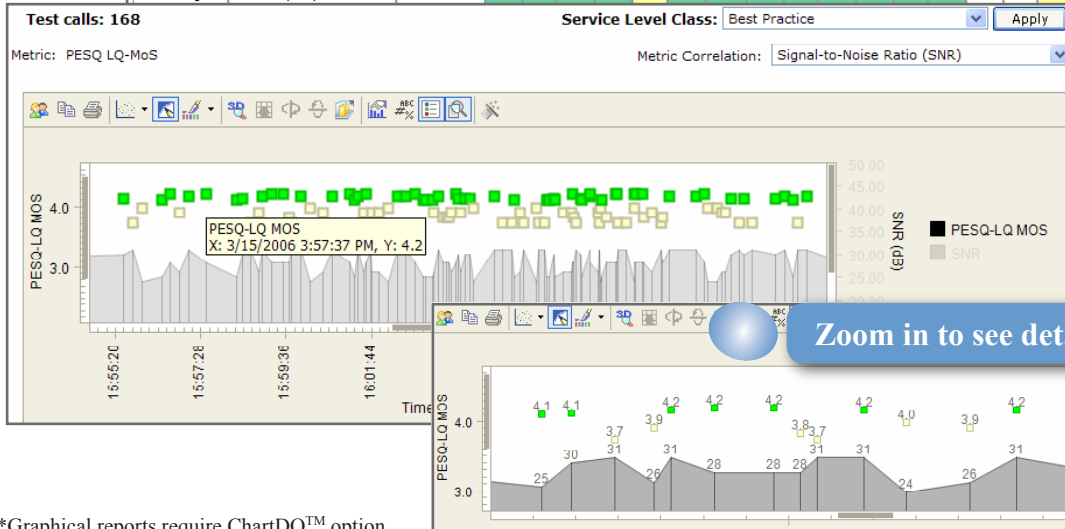
- ▶ long-term testing
- ▶ graphing capabilities
- ▶ min/max reporting
- ▶ multi-language support

Perceptual Evaluation of Speech Quality

Summary View Detailed View Test Call View Chart View Show report specs

Service Level Class: Best Practice Apply Show minimal and maximal values

		Performance		Connection		PESQ-LQ MOS			Clipping (Overall)						Hangover			Speech			Noise							
		CCR	PDD	PESQ-LQ MOS			Ratio		Events		Avg. Dur.		Events		Avg. Dur.		Power			WBN								
		%	sec	Avg.	Min.	Max.	%																					
Canada	Minacom (000)	100	1.6	0.1	14.8	3.98	3.73	4.20	0	0	0	0	0	0	0	0	2	2	3	104	61	135	-37	-41	-34	24	20	28
	Minacom International (777)	100	1.9	0.1	14.8	4.00	3.73	4.20	0	0	0	0	0	0	0	0	2	2	3	105	61	135	-38	-41	-34	22	20	28
	Minacom National (555)	100	0.5	0.1	1.3	4.02	3.73	4.20	0	0	0	0	0	0	0	0	2	2	3	103	61	135	-37	-41	-34	24	20	20
	Summary - Canada	100	1.3	0.1	14.8	4.00	3.73	4.20	0	0	0	0	0	0	0	0	2	2	3	104	61	135	-37	-41	-34	24	20	28
United Kingdom	Minacom (000)	100	0.6	0.1	1.3	4.00	3.73	4.20	0	0	0	0	0	0	0	0	2	2	3	106	93	135	-37	-39	-34	25	20	28



View min, average, and max values of any metric over the full call duration.

Service level class color codes also apply to graphed points

Visually correlate PESQ LQ MOS to other measured parameters for troubleshooting and sensitivity analysis.

*Graphical reports require ChartDQ™ option

The Minacom PESQ Advanced PowerProbe® Test Agent introduces unique, extended capabilities to perceive speech quality testing to help service providers identify long-term and transient speech impairments, and quickly identify underlying service issues.

With PESQ Advanced you can place test calls of custom duration, from 1 minute to 24 hours. Testing beyond the 2 minute period offered by standard PESQ tests allows you to capture long-term call-quality degradation: VoIP and mobile call quality often suffer after several minutes, as jitter buffers in session border controllers, premises equipment, and gateways reach capacity and begin to drop packets.

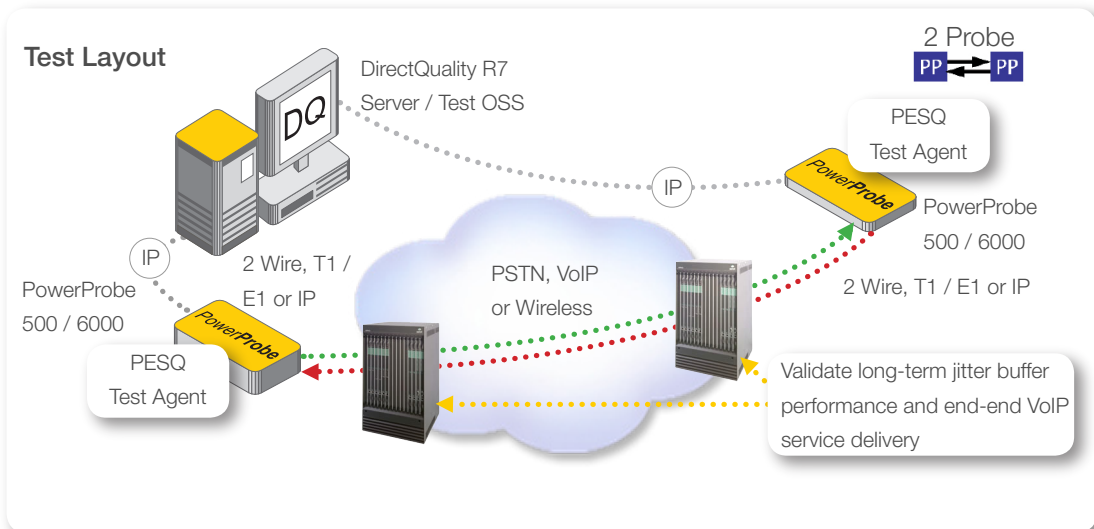
Minacom's PESQ Advanced test agents calculates results every 15 seconds for the duration of the test call, identifying short-term speech distortion often caused by bursts of network traffic.

Key Features

- ▶ Perform long-duration PESQ tests up to 24 hours with a single test call
- ▶ Results generated every 15 seconds
- ▶ Max/Min/Average results reporting to detect long-term variation and transient quality issues
- ▶ Graphical MOS and correlated speech impairment results
- ▶ 295 pre-recorded test files for natural, perceptive speech testing in 9 languages, male & female speakers
- ▶ Custom speech file support for testing in any language or dialect

Tektronix' Communications Business Division –

Enabling Next-Generation Network Innovation



For Further Information

Tektronix maintains a comprehensive, constantly expanding collection of application notes, technical briefs and other resources to help engineers working on the cutting edge of technology.

Please visit www.tektronix.com

Contact Tektronix:

Please visit www.tektronix.com/communications

Phone:
1-800-833-9200 option 1
+1-469-330-4000
Active Test Office:
(514) 380-5530

Locate your nearest Tektronix representative www.tektronix.com/contactus

Natural Speech Files Included:

Each file is an optimized, 10 second speech samples equivalent to an hour of natural speech, featuring accurate phonetic spectrum, rhythm, and dynamic range for each language and type of speaker.

Standard Natural Speech Files (NSF)

- | | |
|----------------------|----------------------|
| NSF female 01 | NSF male 02 |
| NSF male 01 | NSF female & male 02 |
| NSF female & male 01 | NSF female & male 03 |
| NSF female 02 | NSF female & male 04 |

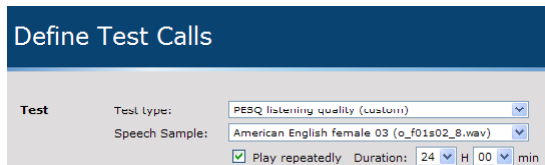
American English

10 second files are played sequentially in Standard PESQ for a 2 minute test duration

Over 280 additional speech reference files in 9 languages

Exclusive to PESQ Advanced

- | | | |
|--|--------------------------------|-------------------------------|
| ► ITU-T p.862 Female (8 samples) | ► French male (22 samples) | ► Korean female (18 samples) |
| ► ITU-T p.862 Male (12 samples) | ► German female (10 samples) | ► Mandarin female (9 samples) |
| ► American English female (21 samples) | ► German male (10 samples) | ► Mandarin male (10 samples) |
| ► American English male (15 samples) | ► Japanese female (18 samples) | ► Spanish female (10 samples) |
| ► British English female (9 samples) | ► Japanese male (24 samples) | ► Spanish male (10 samples) |
| ► British English male 01 | | |
| ► Cantonese female (10 samples) | | |
| ► Cantonese male (9 samples) | | |
| ► French female (11 samples) | | |



Set test call duration from 1 minute to 24 hours. Test results are recorded every 15 seconds.

Ordering Information:

- | | |
|------------|---|
| PP-650-005 | ITU-T PESQ Advanced Test Agent |
| PP-650-005 | ITU-T PESQ Advanced Test Agent & MCI VQES Combo Agent |
| DQ-300-001 | ChartDQ Charting (optional for PESQ Advanced) |

Tektronix
Enabling Innovation

Copyright © 2007, Tektronix, Inc. All rights reserved. Tektronix products are covered by U.S. and foreign patents, issued and pending. Information in this publication supersedes that in all previously published material. Specification and price change privileges reserved. TEKTRONIX and TEK are registered trademarks of Tektronix, Inc. All other trade names referenced are the service marks, trademarks or registered trademarks of their respective companies.