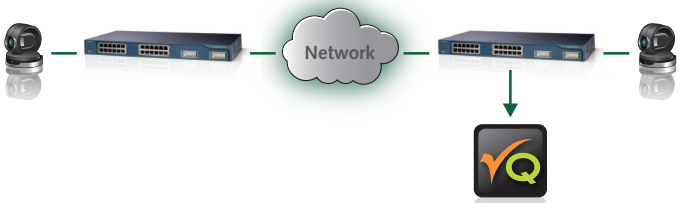
RADVISION®
Delivering the Visual Experience®

VQ MONITOR

VQ Monitor

Measure and Improve the Quality of the User Experience for Voice and Video over IP Communications

RADVISION's VQ Monitor quantifies and measures the user experience for Voice and Video communications based on objective and subjective parameters. Powered by RADVISION's advanced techniques that are unprecedented in scope, VQMonitor guarantees that applications maintain the highest correlation with the Voice and Video Quality user experience. VQ Monitor provides comprehensive **passive offline, non-intrusive,** analysis and measurement of media applications to improve the user experience, and enable monitoring, diagnostics and troubleshooting.



VQ Monitoring for Monitoring Video Quality in your network

RADVISION developed unique VQ algorithms and a method to enhance the ITU-T standard G.1070 with proprietary advanced technology. RADVISION integrates an objective element that uses previously-collected data to develop an automatic system that rates VQ just as the human eye would – in addition to techniques that take into consideration advanced image-analysis factors. This level of innovation, which effectively predicts user assessment, is unique to RADVISION's VQ algorithms.

Video Quality measurement algorithms

VQ Monitor is the ideal solution for:

- **Service Providers:** Video-share, Video Streaming, Video Conferencing, Video Services, Video Ring-back and other video services
- **Enterprises:** Video Streaming, Video Conferencing, Video Applications, IPTV
- **R&D and QA-Labs:** Media-server, Video Conferencing, Set-Top Box, Video Applications, Video Gateways, Video Transcoding and IPTV

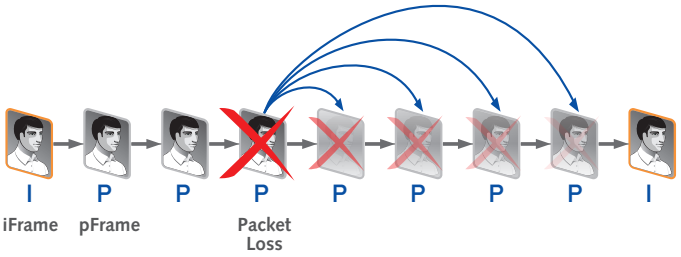
VQ Monitor benefits:

- Enhance the end-user experience
- Optimize video equipment investments
- Adapt video equipment uniquely for the network
- Gain insight on user experience through reporting, diagnostics and troubleshooting

Technology

RADVISION's **unique Video Quality solutions** are based on network parameters, codec parameters and image analysis to guarantee that the highest correlation with the end user experience is maintained. The integrated approach enables isolating operability issues and improving audio and video quality, as well as reporting call user experience and media diagnostic data (frame-based).

Packet Loss Propagation



Features		
Applications	Interface	Supporting Wireshark, NetMon, 3GP and ProLab interface
	Audio & Video Quality	Audio and Video Quality algorithm based on reference algorithm and RV uniqueness
	Automation	VQ Monitoring can be controlled by a third-party application through the command line interface and XML
	Reporting	Various built-in templates as a basis for your custom-made
		Test Results Report, which can be viewed as a graph or a table and exported in JPEG, PDF, Excel or XML format
	DEEP Analysis	Comprehensive, frame-based Video and Audio analysis, using no reference-based methodology
	Cause Analysis & Improvement	Cause analysis and improvement options, per frame and per stream
	Playback	Audio and Video play back (including zooming)
Codec	Video Codec	H.263, H.263+, H.264, Mpeg4, 3GP, MP4
	Video Profile	QCIF, CIF, VGA, 4CIF, 16CIF, 480p, 720p
	Audio Codec	G.711, G.722.1, G.723.1, G729, G728, AAC, AMR, G.722, G726, AMR-WB
KPI	Video KPI	Video MOS, I-P Frame, Compression Level, Image Complexity, Packets per Frame, Frame Duration, Bandwidth, Image Loss Propagation, Frame per Second, MTU Frame, Video Size, Interval, etc…
	Audio KPI	Audio MOS, Packet Size, Bandwidth, Packet Loss Burst, Interval, etc…
	Network KPI	Packet Loss, Jitter, Bandwidth, Timestamp, etc…

VQ Algorithm	Description	H.263	H.263+	H.264	Mpeg4
Objective	Objective VQ algorithm based on network and video parameters	√	√	√	√
Subjective	RADVISION's **Human Vision Database**, enhanced with thousands of video samples integrated into RADVISION's VQ Monitoring application	√	√	√	√
Content Type	Determines how a viewer will experience the video motion	√	√	√	√
Compression Level	The correlation between compression level and VQ	√	√	√	√
Cause Analysis	VQ Monitoring enables detailed cause analysis as a means for improving video quality.	√	√	√	√
Improvement	VQ Monitoring recommends a better option and indicates the improvement in video quality when it is adopted	√	√	√	√
Packet Loss Propagation	The effect of packet loss on video stream is influenced significantly by the intra/inters distribution	√	√	√	√
HD (Bit Rate Analysis)	Supports SD and HD	√	√	√	√

Radvision Added Value

About RADVISION

RADVISION (NASDAQ: RVSN) is the industry's leading provider of market-proven products and technologies for unified visual communications over IP and 3G networks. With its complete set of standards based video networking infrastructure and developer toolkits for voice, video, data and wireless communications, RADVISION is driving the unified communications evolution by combining the power of video, voice, data and wireless – for high definition video conferencing systems, innovative converged mobile services, and highly scalable video-enabled desktop platforms on IP, 3G and emerging next generation networks. For more information about RADVISION, visit www.radvision.com

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