



## Company Facts at a Glance

### Organization

**Telchemy® Incorporated** – the leading provider of IPTV and Voice over IP (VoIP) Fault and Performance Management technology. Over 50 million units of Telchemy's **VQmon®** voice and video performance monitoring agent have been licensed by more than 90 equipment vendors and integrated into over 100 product lines. Founded in 1999, Telchemy has products deployed worldwide and markets its technology through leading networking, test and management product companies.

### Corporate Strategy

- Promote IP Video/VoIP Performance Management across all real-time multimedia services
- Customize Telchemy technology for each customer application
- Drive development and use of ETSI and IETF Standards and QoS/QoE reporting protocols
- Market Telchemy technology as stand-alone products or OEM software
- Develop innovative network solutions based on emerging market needs

### Technology & Product Solutions

**VQmon®** provides fast, accurate real-time monitoring and analysis of IPTV/IP videoconferencing sessions and VoIP calls, producing real-time QoE feedback in the form of video Mean Opinion Scores (MOS) and listening and conversational quality metrics for voice in both R factor and MOS form. VQmon also provides detailed diagnostic information on video session/call quality, including the severity and distribution of packet loss, discards and jitter.

#### **VQmon®/HD and VQmon®/SA-VM**

Advanced, non-intrusive video performance monitoring and quality analysis for IPTV, IP Videoconferencing, and streaming video applications. VQmon/HD and VQmon/SA-VM analyze multiple RTP and MPEG-2 TS video streams—even encrypted streams—and consider key factors such as GoP structure, content type, and recency to produce highly accurate perceptual quality scores and other diagnostic information. VQmon/HD and VQmon/SA-VM are designed for use in:

- IPTV Set-Top Boxes
- IP Videoconferencing Equipment
- IPTV Probes/Analyzers

#### **VQmon®/SA**

Sophisticated call quality analysis software for:

- Probes & Analyzers
- Routers
- Service Assurance Systems

#### **VQmon®/EP and VQmon®/EP-DS®**

Integrated call quality monitoring and management software for:

- Enterprise IP Telephony
- VoIP Broadband
- 3G Cellular

**SQmon®** is a family of modular system software that includes sophisticated video monitoring, VoIP probe, and mediation functions.

#### **SQlive™**

Sophisticated real-time IP video monitoring application compact enough for use in IPTV set-top boxes, yet powerful enough to monitor high volumes of video streams at the head end. SQlive extracts real-time quality data from RTP/MPEG-2 TS video streams without decoding, even when scrambling/DRM is in use. Providing detailed per-frame quality analysis and a rich set of QoE metrics including Video MOS, SQlive presents a versatile, scalable solution for a wide range of IP video performance management applications.

#### **SQprobe®**

Advanced VoIP probe that monitors high speed packet streams, automatically detects active VoIP calls, analyzes each call, and generates alerts when quality falls below a specified service level threshold.

#### **SQmediator®**

Advanced VoIP mediation application that collects and correlates QoS/QoE reports sent by endpoints such as IP phones and gateways. SQmediator monitors service across a network, summarizes call quality metrics from call quality records, and provides integration with SNMP-based reporting applications.

Both SQprobe and SQmediator are available for selected versions of Linux, Microsoft Windows, and Sun Solaris.

#### **Voyager™**

A full-featured, affordably priced Plug-and-Play VoIP probe designed for Enterprise workgroup, branch office, and small business environments. Voyager passively monitors up to 25 concurrent calls and reports real-time quality and performance metrics and threshold alerts. An integrated active test agent enables Voyager to generate test calls for SLA monitoring or advanced troubleshooting.

## Technology & Product Solutions (Cont'd)

**DVQattest®** A sophisticated, highly scalable distributed active test application for Voice and Video over IP networks. DVQattest's small, powerful software test agents can be installed on PCs or servers throughout an Enterprise network, or quickly downloaded to VoIP/IPTV subscriber desktops to allow residential service providers to gather performance metrics directly from the customer premises. Each DVQattest agent can generate multiple RTP media streams simulating a wide variety of voice and video traffic types. Integrated VQmon® performance analysis technology allows agents to report extensive, real-time quality and performance metrics and path statistics to the DVQattest Controller graphical user interface.

- DVQattest/EN** for Enterprise is designed for:
- Pre-deployment Testing
  - Service Level Agreement (SLA) Monitoring
  - Problem Diagnosis

- DVQattest/RE** for Residential Service Providers is designed for:
- Pre-signup Subscriber Qualification
  - Remote Troubleshooting
  - Net Neutrality Testing

## Markets

Telecom Carriers and Service Providers • 3G Cellular Service Providers • Cable Companies • Fortune 500 and Enterprise

## Customers

Telchemy markets its technology through leading networking, test and management product companies, including:

- AnaCise Testnology Pte Ltd
- Artiza Networks, Inc.
- AudioCodes Ltd.
- BlueNote Networks
- Brix Networks
- Brooktrout Technology
- Communicado
- Counterpath Solutions, Inc.
- Ditech Networks
- Empirix
- Finisar Corporation
- GL Communications Inc.
- Global IP Sound
- Ixia
- JDS Uniphase
- NextTone Communications, Inc.
- NetHawk
- Nortel Networks
- Opticom
- Pivotal, Ltd.
- RADCOM
- Shenick
- Spirent Communications
- Sunrise Telecom Pro.Tel Division
- Tektronix
- Tollgrade Communications, Inc.
- Touchstone Networks
- U4EA Technologies Limited
- VeEX Inc.
- WildPackets, Inc.

## Alliances & Partnerships

- Texas Instruments Incorporated
- Motorola/Trinity Convergence

## Standards

VQmon is the first call quality monitoring software that supports RTCP XR (IETF RFC 3611) and enhanced QoS reporting protocols for ITU H.323 and H.248, G.799.1 and IETF SIP; VQmon supports ETSI TS 101 329-5 Annex E.

## Ownership

Privately held

## Headquarters

Duluth, Georgia (Metro Atlanta)

## Executive Management

Alan D. Clark, Ph.D, President and CEO

Board of Directors:

- Alan D. Clark  
President and CEO, Telchemy
- Joe Formichelli  
Senior Vice President, Gateway, Inc.
- Bob Jones  
Founder of Equinet, Sonix, Mayze Systems, and SteebackBrix Networks

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