

## **Tektronix Delivers New Network Monitoring Solutions to Ensure Superior Video Quality of Service**

**New Automated Management Software, IPM400A Probe and DVB-S2 support Empower Cable, Telco and Broadcast Operations Staff to Quickly Identify and Resolve Customer Impacting Problems**

BEAVERTON, Ore., September 9, 2009— Tektronix, Inc., a leading worldwide provider of test, measurement and monitoring equipment, today announced the new VQNet™ Video Service Assurance Manager and IPM400A network probe, designed to help cable, telco and broadcast operators to proactively detect and resolve customer impacting problems across their IP networks. Tektronix also announced a DVB-S2 interface for its MTM400A Transport Stream Monitor.

With consumer options for watching digital video and rich media content continually expanding, maintaining Quality of Service (QoS) and Quality of Experience (QoE) has emerged as a key to success for service providers. Along with increasing competition, network operators also must manage the complexity of delivering multiple services over IP-based networks. The challenge for operators is to find tools that not only give useful information about service quality but also can direct them on how to efficiently solve problems before they severely impact customers. Moreover, operators need analysis insight across all network layers, including IP, RF and transport stream (TS).

### **Empower Operations Staff**

Tektronix network monitoring solutions are designed to empower operations staff with the simplest information necessary to identify and resolve customer impacting issues.

Adherence to SCTE-142 and A/78 TS error classifications of importance allows the solution to focus attention on customer impacting errors that need immediate corrective action. Video and audio backhaul allows actual content to be fed back to a central monitoring point to see and hear the actual content being broadcast. SCTE-35 DPI Splice Point monitoring allows the user to ensure that local and advertising content revenue is realized. EIA-608/708 and SCTE-20/21 closed caption tests along with Region Rating Table monitoring displays in the thumbnail and EPG views ensure adherence with US FCC mandates. In addition real-time buffer analysis captures encoding and multiplexing issues that can cause black frame, freeze frame or set top box reboots.

Providing views across entire facilities and networks, VQNet™ can be incorporated into existing workflows. It presents key information in terms operation staff can easily understand and take action to resolve. This is made possible through an intuitive user interface that displays warnings and alarms when it detects errors impacting customer viewing quality. To further assist operators, the software can display video thumbnails from multiple points in the network and can backhaul video and audio content from any probe in the network. For more difficult problems, engineers are able to easily see detailed information on the root cause of issues at the IP, RF or TS layers at any point in the network.

“Today’s digital content goes through considerable processing before it gets delivered to the end user. Monitoring of both the IP and TS layers is critical to ensuring the best possible experience for the viewer,” said Paul Robinson, CTO, Video Products, Tektronix. “With these new and comprehensive solutions, Tektronix will enable content distributors and operators to automate monitoring of video quality and differentiate their services from the competitors.”

Working in concert with the VQNet™ management software, Tektronix delivers a powerful and scalable probe architecture. This includes the new IPM400A concurrent probe that provides real-time analysis of all

video and audio content within a GigE link, and the MTM400A directed diagnostic probe which provides deep analysis capability for ASI and QAM, COFDM and DVB-S/S2 RF links. This architecture gives operators unprecedented scalability in depth of measurement and visibility across their head-end network. VQNet™ also supports the Tektronix RFM300 8-VSB probe for ATSC transmission and ingest monitoring.

The IPM400A can monitor up to 500 IP flows (sessions) and all essential parameters including TS errors, IP packet inter-arrival time (PIT) and MDI. This ensures IP and TS integrity across a broad set of video services on even a fully loaded GigE link.

The new DVB-S2 interface for the MTM400A Transport Stream Monitor enables Satellite Direct To the Home (DTH) broadcasters and other operators that ingest and distribute content via satellite to efficiently deliver superior Quality of Service (QoS) levels as they adopt the latest standard for transmission of MPEG-2 or MPEG-4 audio and video streams.

#### Availability

VQNet™ software, the IPM400A and the MTM400A DVB-S2 interface can be ordered now and will be available in Q4, 2009.

#### About Tektronix

Tektronix is a leading supplier of test, measurement, and monitoring products, solutions and services for the communications, computer, and semiconductor industries - as well as military/aerospace, consumer electronics, education and a broad range of other industries worldwide. With 60 years of experience, Tektronix enables its customers to design, build, deploy, and manage next-generation global communications networks, computing and advanced technologies. Headquartered in Beaverton, Oregon, Tektronix has operations in 19 countries worldwide. Tektronix' Web address is [www.tektronix.com](http://www.tektronix.com) .

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