



Issue 80 - NAB 2009 Special

HIGHLIGHTS

- ▶ Introducing DVStation-Mini² DVB-T
- ▶ Remote Viewer Quality Monitoring
- ▶ IP Traffic Generation & Monitoring
- ▶ 8PSK/DVB-S.2 Test & Measurement
- ▶ Transport Stream Recording With Transrating
- ▶ VISUALmpeg Qualify - Automated Quality Assurance
- ▶ Cost-Effective MPEG-TS Analysis
- ▶ EndGame - End-to-End IPTV Monitoring

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- ➔ Booth SU6007

Pixelmetrix draws focus to its DTV Monitoring, Measurement & Analysis tools at NAB 2009

At booth SU6007, Pixelmetrix will feature its multitude of DTV quality of service solutions.

Highlights include **Remote Viewer Quality Monitoring** with the Electronic Couch Potato™ (ECP) and Consolidator Engine™; **IP Traffic Generation and Monitoring** with the DVStation-IP³ and **8PSK/DVB-S.2 Test and Measurement** with the Emmy® Award winning DVStation-210 and DVStation-Mini; **Transport Stream Recording with Transrating** demonstrating the functionality of the DVStor; **Automated Quality Assurance** presenting the VISUALmpeg Qualify; **Cost-effective MPEG-TS Analysis** illustrating support for DVB and ATSC, as well as **End-to-end IPTV Monitoring** with EndGame™.

"2009 marks the 10th year of Pixelmetrix' foray into the Test, Measurement and Monitoring business for the world's cable, satellite, terrestrial and digital TV operators. From humble beginnings, over the past decade, we have expanded our suite of quality assurance tools to meet customers' needs – helping them more quickly deploy their networks and optimize their service delivery. To each one of our valued customers: we thank you," said Danny Wilson, President and CEO of Pixelmetrix.

"In these trying times, we remain dedicated to further helping you optimize costs and efficiency as television undergoes its dramatic technological revolution. We invite all those attending NAB to come by our booth and check out everything that is new from Pixelmetrix!," he continued.

Asia (HQ):

Tel: +65 6547 4935
Fax: +65 6547 4945

Europe:

Tel: +41 56641 0317
Fax: +41 56500 0161

North America:

Tel: (954) 472 5445
(866) PIXEL US
Fax: (212) 671 1549

Introducing the DVStation-Mini² DVB-T

The DVStation-Mini² DVB-T is an extension of the DVStation-Mini line up. The DVStation-Mini² DVB-T combines high quality DVB-T RF measurements and in-depth TS analysis. It is designed for 24/7 operational monitoring and assurance of the quality and continuity of DVB-T services. The DVStation-Mini² DVB-T also offers in-depth checks of both RF and TS layers. Besides the SMPTE-310/ASI port, other features include video thumbnails for H.264 video streams in SD and HD.

The DVStation-Mini² DVB-T also comes with On-air Content Validation (OCV) and DVB-H options. OCV allows automatic identify discrepancies between the expected baseline and actual broadcast content. With DVB-H, it can be used to analyze time-slice generation, DVBH FEC and long-term performance monitoring.



Amit Sood to present Telecom Technology paper

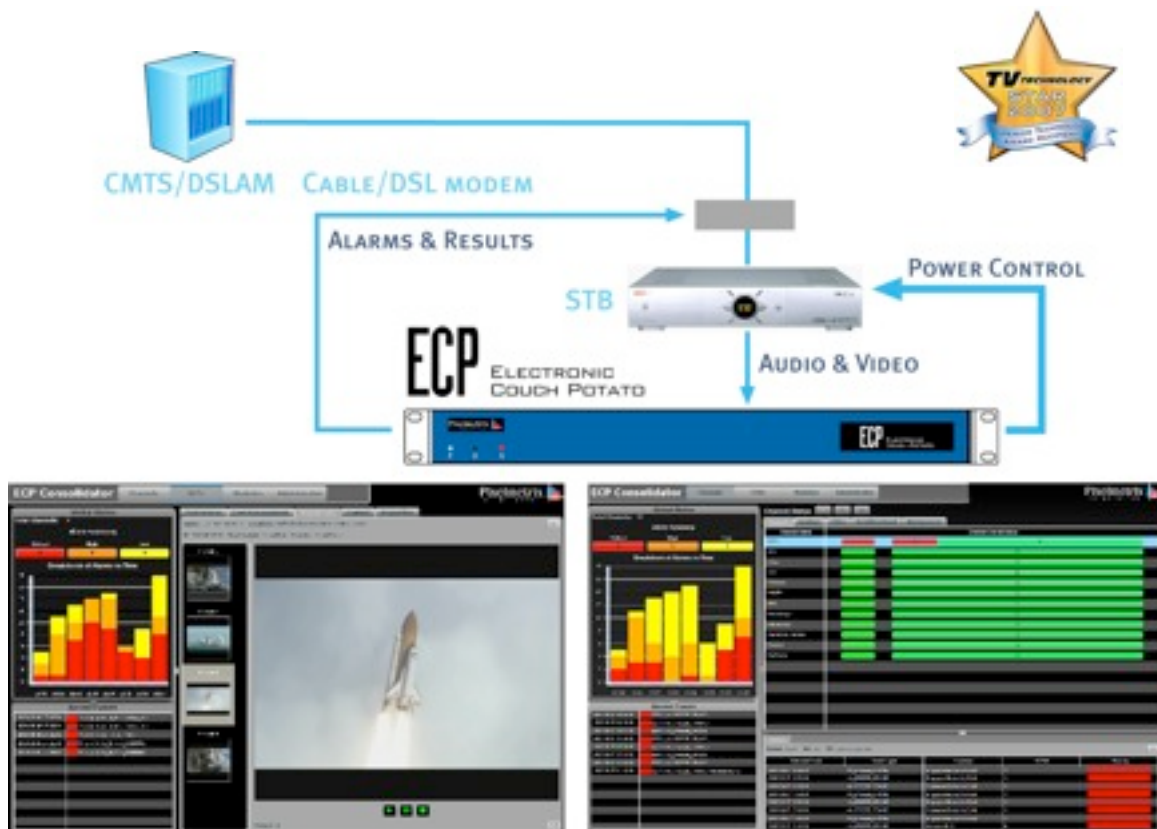
Amit Sood, Product Manager, IPTV, will be speaking at the NAB Telecom2009 Conference, in place of Danny Wilson. His presentation, titled "Television is more than Video over IP", is scheduled for Wednesday, April 22, 9.25am in Room N232, Las Vegas Convention Center.

His talking points will include the concept of delivering video over existing IP networks, overcoming challenges the IP media presents in delivering content, a three-dimensional view to measuring and monitoring the performance of television delivery, and more.

Remote Viewer Quality Monitoring

The Electronic Couch Potato™ (ECP™) is an after the network probe that measures and reports the end-users' experience for delivered video services. Collecting telemetry from multiple ECPs™ distributed across a wide network and presenting it effectively is essential to the value proposition of the product. A population of the ECPs™ deployed throughout the network are configured, managed and controlled by the Consolidator Engine™, which also provides intelligent presentation of information reported by the ECPs™.

One of the key features of the ECP™ is telepresence, which allows remote monitoring of the audio and video output of the STB. This is achieved by encoding the audio and video signals and streaming them back to the central site. In addition, numerous measurements and parameters for QoE and QoS are reported. This facilitates a close audit of what is really going on 'out there'.

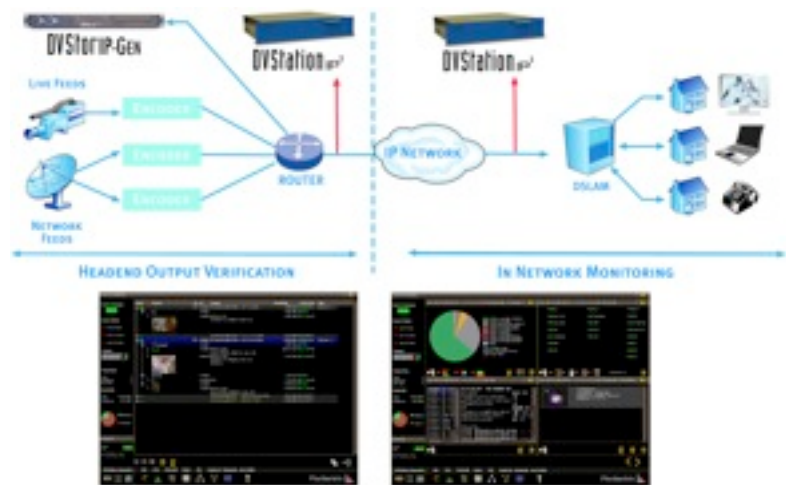


IP Traffic Generation & Monitoring

A one-stop monitoring engine for IP and Transport Stream Analysis, the DVStation-IP³ allows for detailed service visualization and IP Headend Output verification for IPTV networks. It provides, on all services, MPEG-2 and H.264 main profile thumbnails, Media Delivery Index (MDI) for packet loss and jitter measurements as well as video presence, freeze or blackout displays.

Another feature, the RSV™ (Remote Service View), allows service providers to visually validate content integrity and quality at remote site by real time streaming to a central monitoring console over the IP network.

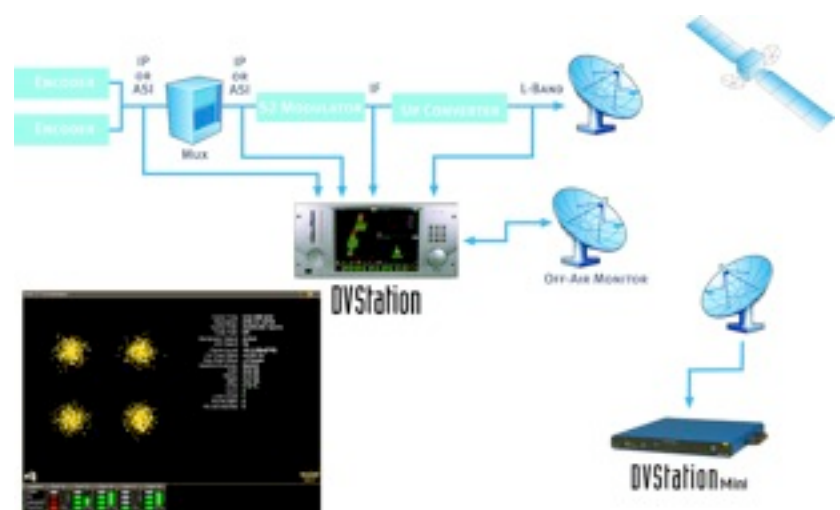
Integrated in the network with the DVStorIP-Gen, designed to simulate a fully operational IP video delivery headend, the duo makes a complete video over IP quality assurance solution - monitoring all MPTS and/or SPTS streams on a fully loaded GigE link, allowing all layer coverage: video content, TS and IP layers, impairments on the fly and many more.



8PSK/DVB-S.2 Test & Measurement

This illustrates the efficacy of the DVStation and DVStation-Mini, together with the DVB-S.2 ASLF, in satellite transmission monitoring. DVB-S.2 ALSF (Advanced Satellite Line Interface) is a multi-standard solution for the monitoring of digital satellite transmission. It supports DVB-S.2, DVB-DSNG and DVB-S modulation of MPEG-2 transport streams.

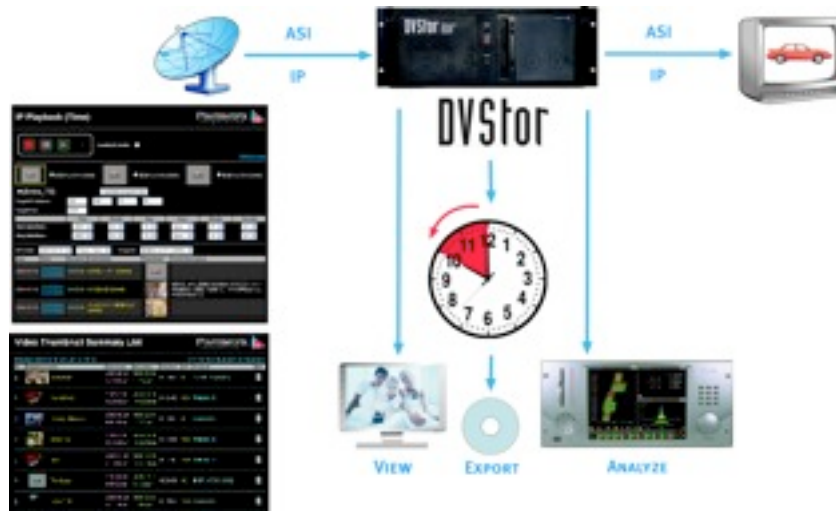
Operators need to reach the optimum Signal to Noise Ratio (SNR) to achieve the best power utilization on their satellites. Be it Ku-band spot beams or C-band wide beams, all satellite transmission has to be reliable, as there is inherently no in-band back-channel to ensure quality.



With an accurate front-end and award-winning transport stream analysis technology, satellite transmissions are in safe hands with the ASLF series and the Pixelmetrix DVStation family.

Transport Stream Recording With Transrating

A complete tool for compliance recording, this solution offers recording of complete TS including subtitles, meta data, PSIP and interactive content. It allows easy search, playout and export of recorded segments, integrates with analysis platform, provides real-time transrating and eliminates human intervention with automatic loop-back. Locating non-compliant content is a now a cinch, thanks to the EPG. Operators can archive between 30 to 90 days for quality audits and mandatory legal compliance.



VISUALmpeg Qualify - Automated Quality Assurance

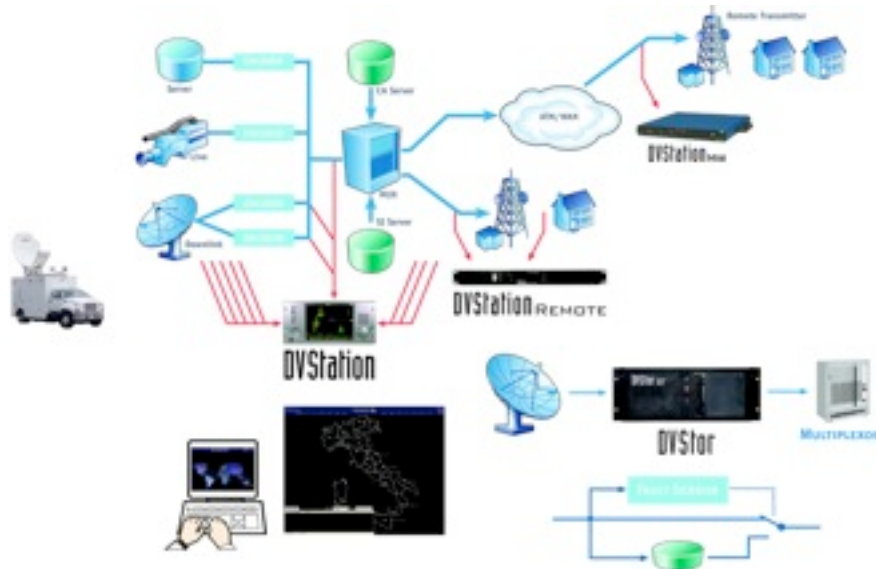
The VISUALmpeg Qualify™ is an expansion of Pixelmetrix array of video and audio quality analyzers, offering a new level of off-line quality assessment for audiovisual streams with comprehensive support for most current industry video and audio encoding standards and media containers. With a new and scalable distributed architecture, the VISUALmpeg Qualify™ allows for parallel test administration and browsing of results. It provides file-based video and audio analysis for VOD content.



Cost-effective MPEG-TS Analysis

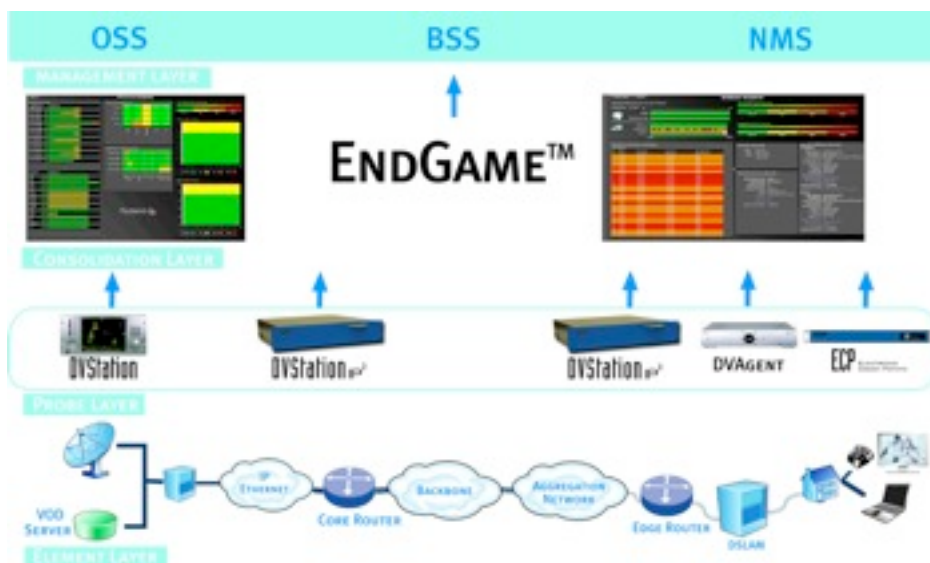
Need compact and rugged monitoring probe built for the road? You've found it here! You can also get video thumbnail view and real-time full-frame view of video service being up-linked or down-linked.

The DVStation, DVStation-Remote, DVStation-Mini and DVStor pack a punch for cost-effective MPEG-TS analysis.



EndGame - End-to-End IPTV Monitoring

EndGame™ is the Quality Management Solution for IPTV, which the company believes to be the first truly End-To-End IPTV Quality of Service monitoring solution. EndGame™ provides IPTV Content Aggregators and IPTV Operators with a suite of tools spanning the entire content delivery chain, allowing operators to track Quality of Service problems from a single customer, back through the network right to the headend. Brilliant graphical consolidation of information from multiple nodes within the network enables IPTV operators to find, isolate and troubleshoot quality-related issues the fastest way possible.



DVStation

DVStor

DVShift

About DVStation

Pixelmetrix has focused on creating a single self-contained monitoring station that can analyze thousands of parameters within hundreds of digital television signals. Through the use of plug-in modules and parallel processing, it can monitor all these parameters real-time, simultaneously and continuously. Whether it is monitoring for compliance of an RF carrier, MPEG transport stream, picture quality or program content, development efforts are targeted at assuring the quality of the signal, integrity of the program service and delivery of essential technical information to the right people, in a timely and meaningful manner.



The DVStation-Remote is a compact version of the flagship DVStation, ideal for smaller-sized facilities. Consisting of one to four book-sized Pod modules and a single 1U rack-mounted Remote Controller, the system is operated through a LAN or dial up telephone, allowing database or user access from a personal computer.

The DVStation-Pod is a low-cost tool that can analyze and troubleshoot digital broadcast signals. Lightweight and portable, it easily slips into a tool case. DVStation-Pod borrows most of the advanced features of the DVStation, including its extraordinary user-friendly interface, on-board transport stream capture, internal playback and analysis, as well as error and measurement logging.



The DVStation-IP³ offers a one-stop monitoring engine for IP and Transport Stream Analysis, detailed service visualization and IP Headend Output verification for IPTV networks. It provides, on all services, MPEG-2 and H.264 main profile thumbnails, Media Delivery Index (MDI) which allows packet loss and jitter measurements as well as video presence, freeze or blackout displays.

The DVStation-Mini provides a compact and cost-effective way for terrestrial, cable and satellite operators to maintain visibility of network quality and performance. It offers comprehensive TS monitoring and is optimized for remote site deployment.



TS Time Shift

This unique product is ideal for delayed re-broadcast across time zones and provides stable, user-programmable delays from seconds to days.



DVShift

DVShift is a great improvement over the conventional approach of utilizing separate audio/video delay equipment which simply does not work with the

advent of multi-channel audio, multiple subtitles or closed captioning, and especially so with multimedia content such as MHP.

TS Recording & Playback

The DVStor system provides real-time recording and playback of MPEG transport streams over a pair of ASI interfaces.



DVStor

Capable of recording more than three days of MPEG-2 transport stream, the full integration with our DVStation Preventive Monitoring platform

means past alarms and errors can be fully investigated and analyzed.

Asia (HQ):

Tel: +65 6547 4935
Fax: +65 6547 4945

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(866) PIXEL US
Fax: (212) 671 1549

info@pixelmetrix.com
sales@pixelmetrix.com
www.pixelmetrix.com