Surveyor™ TSc

Compact, Portable, Full-Featured Transport Stream QoS Monitoring for Access or Edge Networks

MARKET CHALLENGE

You are responsible for making sure that your MPEG2 Transport Streams are being given the proper Quality of Service (QoS) across your Access/Edge Networks. When something is wrong, you need to be able to quickly identify where, and why. And to address the most challenging problems, you need to be able to quickly deploy monitoring capabilities in the field, wherever and whenever they are needed.

The introduction of 1+ Gbps to the home, DOCSIS 3.1 and IPTV delivery bring changes to your network which can increase and amplify QoS risks, as your key video content traverses new and immature network infrastructure on its way to your customer. You must detect video impairments as quickly as possible, hopefully before they impact the user's viewing experience, or viewership and revenue are put at risk.

By monitoring your network's performance with TR 101-290 (QoS) parameters, you can quickly detect, identify, and resolve problems that could impact a significant number of viewers - and effectively manage that risk.
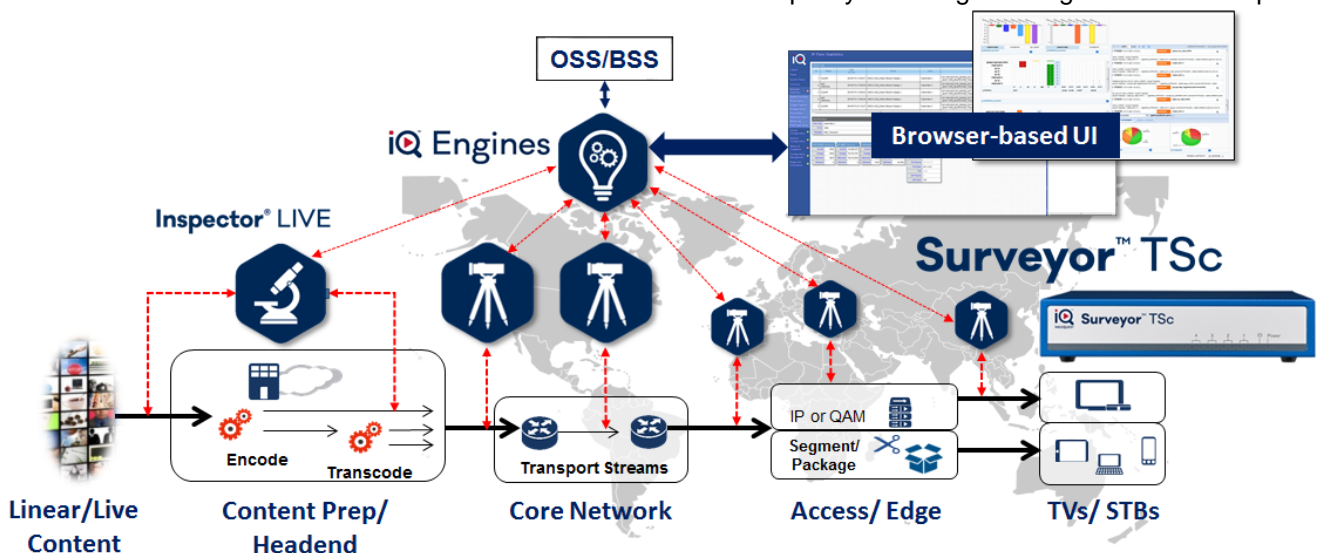
THE IQ SOLUTION

Surveyor TSc (Transport Stream, Compact) is a portable, medium capacity, scalable MPEG-2 Transport Stream monitor that provides comprehensive digital QoS monitoring. Designed for Access/Edge/Remote deployment, Surveyor TSc continuously monitors up to 2 Gbps of video traffic at line rate and in real time, measuring, trending and alarming on the TR 101-290 metrics for each program. Surveyor TSc is designed to locate transport impairments as they happen and produce actionable insights that allow you to address issues before they impact the customer viewing experience.

Surveyor TSc delivers comprehensive video QoS monitoring, enabling diverse network applications such as:

- Full time 24x7 line rate monitoring of video network performance, at the head end, hub offices and local serving offices.
- Flow-by-flow, program-by-program troubleshooting
- Video network design and engineering

Surveyor TSc can be used standalone, or as part of a multi-element quality assurance platform - a FoQus Platform - through the use of iQ Engine solutions such as iVMS and cVOC and iQ Acquisition solutions such as Inspector LIVE and Surveyor TSc's bigger brother, Surveyor TS. This platform provides operators with a comprehensive view of content quality from origin through network transport.
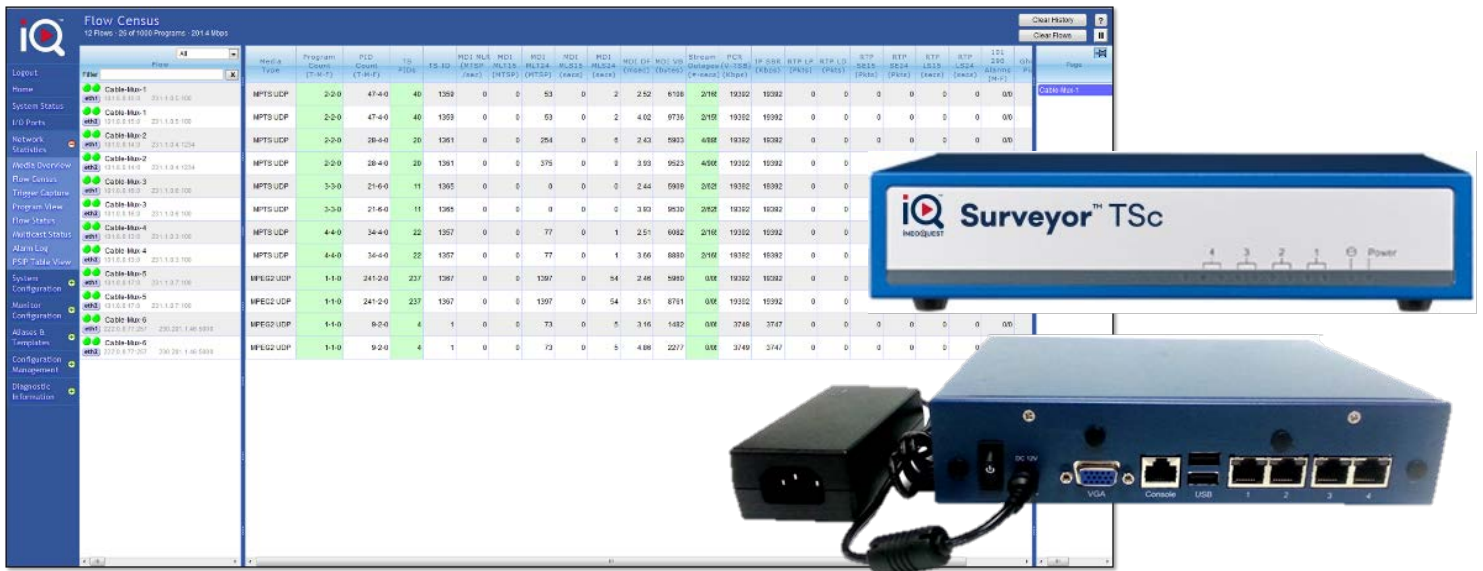
FEATURES AND BENEFITS

- Real-time, line rate monitoring and measurement of up 2 Gbps of video traffic and up to 500 programs/128K PIDs, sized for edge/access applications.

- Licensable capacity options for aligning cost to application, and growth flexibility: 50/100/250/500 program options

- TR 101-290 QoS metrics and RFC 4445 Media Delivery Index (MDI) metrics for standards compliance

- Detection of SCTE-35 program insertion signals for validation

- Unicast, multicast and broadcast support for comprehensive stream handling

- MPEG2, MPEG4, AVC/H.264, HEVC/H.265 support for broad codec visibility

- SD, HD and UHD support to handle all of your video

- Triggered capture of impaired video for post analysis

- Browser-based, backward compatible GUI interface with prior IneoQuest G-series probes for quick adoption

- 4x 10/100/1000Base-T Ethernet support via RJ45: 2 Media, 1 Management, 1 "future"

- 100-240 VAC, 50/60 Hz external power supply for easy deployment using commercial power.

- IPv6 capable

- An element of the IneoQuest FoQus Platform, allowing you to easily grow a comprehensive video assurance capability as you go

SPECIFICATIONS

Description	Specification
Dimensions of chassis:	Width X Height X Depth 208 mm x 44 mm x 181 mm (8.19" X 1.73" X 7.13")
Weight of chassis:	1.8 kg (3.96 lbs)
Power (using external AC Power Supply)	0.5 A @ 100 VAC, 0.2 A @240 VAC, 50-60 Hz
Typical operation with 2 active 1 Gbps ports	47 watts (444 BTU/h)

Surveyor TSc provides the intelligence you need to
Raise Your Video iQ.

Surveyor™ TSc is an element of the **IneoQuest® FoQus™ Platform**, the industry's premier portfolio of complementary video quality intelligence solutions. The platform is built on multiple data acquisition elements which collect real-time metrics from critical points in the video distribution chain—from content preparation, through network delivery, to playback. This data is then aggregated, correlated and processed by IneoQuest's powerful iQ Engines™, to provide an immediate and accurate view into the performance and quality of your video content and services.

Actionable Video Quality Intelligence

If you provide video to viewers – or provide critical video delivery services and infrastructure – the **IneoQuest FoQus Platform** has solutions that give you unparalleled visibility into the health of your video business.