

STREAMPROBE

IPTV

QoS & QoE monitoring throughout the entire video delivery chain

STREAMPROBE SOLUTION PROVIDES A CENTRALIZED OVERVIEW OF THE **SERVICE AVAILABILITY AND VIDEO QUALITY THROUGHOUT ALL THE STRATEGIC STAGES OF THE MEDIA PROCESSING & DELIVERY FLOW, BY 24/7 MONITORING**. IDEAL FOR ALL **TV SERVICE PROVIDERS & NETWORK OPERATORS** – LINEAR BROADCAST TV, IPTV, CABLE TV, SATELLITE TV, OTT, VOD, NPVR – **TRANSPORT CONTRIBUTION & DISTRIBUTION** AND **SERVICE PLATFORM PROVIDERS**, LOOKING TO **ENSURE THE BEST END-USER QUALITY OF EXPERIENCE ALL WHILE OPTIMIZING OPEX**.



APPLICATIONS

- **Service oriented** end-to-end **Availability (QoS)** and **Quality (QoE)** assurance
- **Increase uptime** by detecting issues before your customers do
By 24/7 real-time supervision & alerting
- **Optimize OPEX** daily operation & maintenance
Drill down analysis, on-error proof recording
- **Quality Reports** generation for **SLA commitments**
- **Compliance** 24/7 recording
- **Secure Ad Insertion revenues** by 24/7 control of all SCTE-35 triggers

BENEFITS

- **One single comprehensive & easy to use web GUI** to manage a wide variety of Streams & Services
Studio, contribution, encoding, packaging, live/VOD, ad insertion, multiplexing, broadcast transport signalling...
Ready for future Services diversification
Fast training of operational teams to work with a single tool
- All Services Quality view at-a-glance: **Live Thumbnail Mosaic Wall**
- Powerful NBI/API for 3rd Party **NMS integration for Orchestration**
- **Pay as you grow** with flexible licensing & deployment architecture
HighDensity full SW solution installed on-prem bare-metal / virtualized, cloud AWS

QoS - Service Availability & Integrity

- Full **MPEG-2 TS** monitoring (SPTS/MPPTS)
- **IP transport** issues detection (RTP, FEC)
- **ETSI TR 101 290** compliance (priority 1, 2, 3, MDI)
- TS structure: **PSI/SI, service(s), bitrates**

Live Thumbnail Mosaic Wall

- **All services view at-a-glance** on a thumbnail wall, real-time update
- **Highly customisable per user**: grouping, audio levels, subtitles, penalty box
- **Monitoring by exception**: display only faulty services – penalty box
- **MacroService view**: track Service Quality in several monitoring points through the delivery chain
- **Live service streaming** over low bandwidth links (service compression)

Confidence monitoring - visual video check

- **Live service streaming** over **low bandwidth links** (transcoding)
- GUI display, with **3rd party dashboard integration/display** capabilities

Ad Insertion monitoring

- Make sure the **Ad Inserter receives and can use the triggers**: triggers presence, integrity and timing
- **Prevent video defects on the Ad Inserted stream** by checking the splice point quality/integrity: IDR frames, PTS accuracy
- Make sure the **triggers point the correct frame and prove the Ad Insertion**: splice point thumbnails, frames analysis for automatic detection of change of scenery, video recording

HighBitrate monitoring capacity

StreamProbe IPTV: up to 3Gbps of services monitored in // per Appliance (COTS, AWS, VM): full monitoring features (QoS, QoE, Video Streaming, Recording, SCTE-35, CAS, HEVC/4K)

StreamProbe IPTV HighBitrate: up to 10Gbps (1000 services) monitored in // per Appliance (COTS): QoS, QoE, SCTE-35, CAS monitoring features

QoE - Service Audio/Video Quality

- Full content monitoring
- **Audio & Video defect** detection: freeze, black screen, silence
- **Subtitles** DVB and Teletext: decoding and display
- Video display: thumbnails & video streaming

Recording

- **24/7 compliance recording**
- **Proof recording on-error** on fault detection
- **Schedule recordings** at predefined date – event recording
- **Easy access** to all recordings directly via the **web GUI**

Control Access monitoring

- Check the scrambling information EMM/ECM: presence, repetition, bitrates
- **FTA <-> scrambled transition monitoring**: transition timing alarms with detailed graphical display

System Integration & NBI

- **Configurable alarming thresholds**: general, daily and weekly alarm profiles **configurable per service**
- NMS integration: **SNMPv2** support for alarm traps
- Monitoring information available via an **open API** (HTTP/JSON API)
- **Service thumbnails & video streaming** capability for **3rd party dashboard** display

ORDERING_CODES

StreamProbe IPTV	Video QoS & QoE Monitoring for IPTV – Linear Multicast
options	<p>Bitrate (Mbps, Gbps) : Define the bitrate capacity to monitor</p> <p>SW Pack ACCESS : Full QoS & QoE: ETR 101 290 monitor, Audio & Video Quality check, Mosaic overall Service Quality</p> <p>SW Pack PERFORMANCE : Operational Add-ons: ETR 101 290 monitor, Audio & Video Quality check, Mosaic overall Service Quality, Recording, Video Streaming</p> <p>SW Pack ULTIMATE : Additional Services: ETR 101 290 monitor, Audio & Video Quality check, Mosaic overall Service Quality, Recording, Video Streaming, 4K HEVC monitor, Ad Insertion monitor SCTE-35, CAS Scrambling <> FTA transitions</p>
sales@test-tree.com	www.test-tree.com