STREAMPROBE

ST 2110 ST 2022-6

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

- **End-to-end Availability (QoS) and Quality (QoE) for all Video Services**
- **Increase uptime** by detecting issues before your customers do
  By 24/7 real-time supervision & alerting
- **Optimize daily operation & maintenance**
  Drill down analysis, on-error proof recording
- **Quality Reports generation for SLA** commitments
- **Compliancy 24/7 recording**

BENEFITS

- **One single unified web GUI for all Services Management**
  Contribution, encoding, packaging, transport, linear, VOD
  Fast training of operational teams
- All Services Quality view at-a-glance: **Live Thumbnail Mosaic Wall**
- **Pay as you grow with flexible licensing & deployment architecture**
  HighDensity full SW solution – **up to 100Gbps of uncompressed streams per 1RU Appliance**

QoS - Service Availability & Integrity

- Uncompressed streams over IP: SMPTE **ST 2110**, **ST 2022-6** (SDI over IP)
- **IP transport** issues detection (RTP, FEC)

QoE - Service Audio/Video Quality

- Full content monitoring
- **Audio & Video defect** detection: freeze, black screen, silence
- Video thumbnails display
- SD, HD, 3G, UHD support

Live Thumbnail Mosaic Wall

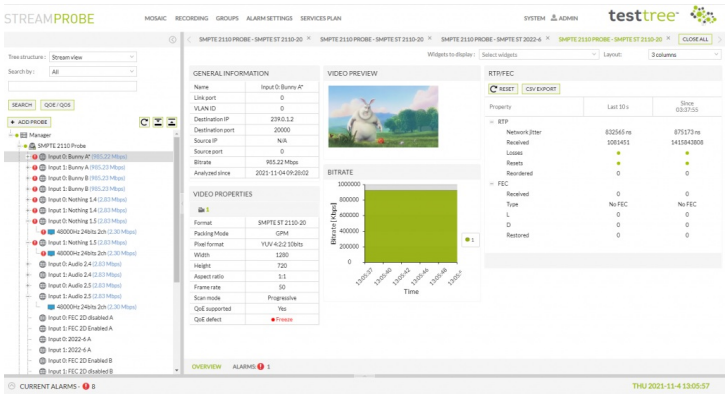
- **All services view at-a-glance** on a thumbnail wall, real-time update
- **Highly customisable per user**: grouping, audio levels, penalty box
- **Monitoring by exception**: display only faulty services – penalty box

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 provisioning API f**or 3rd party NMS **Orchestration**

Understand how **SMPTE ST 2110** drives the transition of **uncompressed video** management **towards IP architectures.**

ST 2110 Standard details



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MONITORING FEATURES

QoS - Service Availability & Integrity check	ST2110-20, ST2110-30 PCM, ST2022-6 video FEC support (packets recovered/lost), IP jitter
QoE - Service Audio/Video Quality	Video defect detection: freeze, black screen Audio defect detection: silence, level too low/high, noise Video pixel format: YCbCr-4:2:2; bits depth: 8 bits, 10 bits, Interlaced/Progressive Audio sample rate: 44100, 48000, 96000; number of channels up to 64; sample depth: 16 bits, 24 bits SD, HD, 3G, UHD
Thumbnail Mosaic view	All services view at-a-glance on a thumbnail wall, real-time update Highly customisable per user: grouping, audio levels, penalty box Monitoring by exception: display only faulty services – penalty box
System Integration & NBI	Configurable alarming thresholds: general, daily and weekly alarm profiles configurable per service Alarm log history CSV export SNMPv2 support for alarm traps Monitoring information available via an open API (HTTP/JSON API) Service thumbnails can be retrieved via API call – for 3rd party dashboard display Service provisioning API for 3rd party NMS Orchestration

TECHNICAL CHARACTERISTICS

SW solution: custom Linux OS
Performance CPU, RAM, HDD depending on the bitrate capacity to monitor
100Gbps maximum capacity per Appliance
Supporte input(s): 25Gb IP ports

ORDERING CODES

StreamProbe 2110	**Video QoS & QoE Monitoring for Uncompressed Streams**
Options	**Bitrate (Gbps)** : Define the bitrate capacity to monitor **SW Pack ACCESS** : Full QoS & QoE

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