


# STREAMPROBE

OTT

## One single Consistent Monitoring Solution for Contribution / Encoding / Packaging



powered by

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**
- **Compliance 24/7 recording**

#### QoS - ABR Service Availability & Integrity

- Full **HLS, MPEG-DASH** monitoring (playlist and profiles)
- **HTTP connection** quality and streams availability
- **Complete or partial monitoring** – adapt the monitoring load to your infrastructure (Origin load and network CDN capacity)

#### 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

#### 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**

#### DRM support

- ABR streams decryption capabilities
- Via **direct Key Server access** (proprietary, CPIX)
- **CENC, Sample-AES, AES-128** – Widevine, FairPlay, PlayReady



### 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  
Centralized or distributed architecture, bare metal, virtualized, on-prem, cloud AWS

#### QoE - Service Audio/Video Quality

- Full content monitoring (all TS services and ABR profiles)
- **Audio & Video defect** detection: freeze, black screen, silence
- **TS Subtitles** DVB and Teletext: decoding and display
- **ABR Subtitles** HLS WebVTT and DASH TTML: decoding and display
- Video display: thumbnails & video streaming

#### Thumbnails History view

- ABR stream **Quality overview** in time: **alarms timeline** with **associated video thumbnails**
- **Visual** tool for **fault investigation** on all ABR stream's profiles, up to 7 days

#### VOD assets monitoring

- **xVOD** libraries, assets for **DAI, Catch-up/Replay, PVR**
- **Highly configurable monitoring campaigns** for both static and dynamic libraries
- Assets **provisioning**: **manual** or **automatic** (specific system integration)

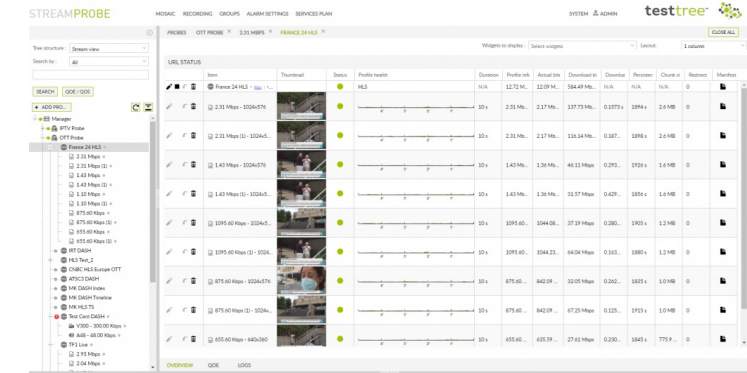
#### System Integration & NBI

- **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



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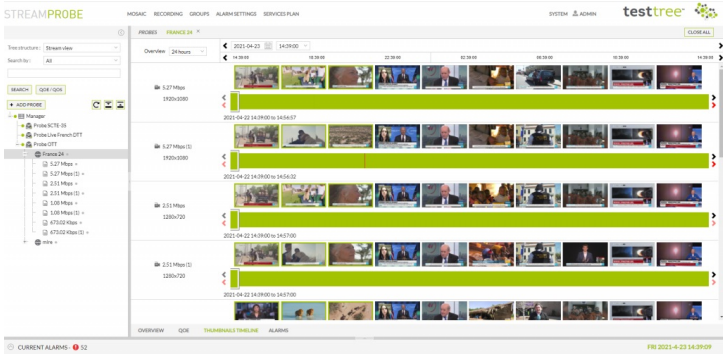
## MONITORING FEATURES

QoS - ABR Service Availability & Integrity check	<p>HLS, MPEG-DASH: playlist integrity &amp; network performance check</p> <p>Manifest integrity check, content display &amp; download</p> <p>Profile information: availability, type, bitrate statistics, codec, resolution, base and relative URL, playlist content/format, chunk number, media sequence, persistence...</p> <p>Chunk HTTP information: availability, length, bitrate statistics, playlist format</p> <p>HTTP connection time statistics: connection, DNS redirection, upload, download</p> <p>Complete monitoring: full playlist, profiles availability and content check</p> <p>Partial monitoring: playlist and/or profiles availability</p>
QoE - Service Audio/Video Quality	<p>Video defect detection: freeze, black screen, missing Intra frame</p> <p>Video encoding information: type, pixel format, profile, level, GOP structure and size, image count and weight, width, height, aspect ration, frame rate and type, VB delay</p> <p>Audio defect detection: silence, level too low/high</p> <p>Audio encoding information: type, channel number and layout, sample rate and format</p> <p>Subtitles HLS WebVTT and DASH TTML: decoding and display</p> <p>Formats: MPEG-1 audio, MPEG-2 audio/video, AAC, HE-AAC, HE-AACv2, AC3 Dolby Digital, EAC-3 Dolby Digital Plus, SD &amp; HD MPEG-4 AVC/H264, 4K HEVC/H265</p>
Thumbnail Mosaic view	<p>All services view at-a-glance on a thumbnail wall, real-time update</p> <p>Highly customisable per user: grouping, audio levels, subtitles, penalty box</p> <p>Monitoring by exception: display only faulty services – penalty box</p>
Thumbnails History view	<p>ABR stream Quality overview in time: alarms timeline with associated video thumbnails</p> <p>Visual tool for fault investigation on all ABR stream's profiles</p> <p>7-day history depth</p>
Recording	<p>24/7 compliancy recording with predefined history depth</p> <p>On-error recording on fault detection</p> <p>Scheduled recording at predefined date &amp; time</p> <p>Access the recordings directly via the GUI</p> <p>Preview of the recorded video</p> <p>Download capability (full or partial)</p> <p>Associated alarms timeline</p> <p>For both TS &amp; ABR streams</p> <p>Storage capacity to dimension depending per project</p>
VOD assets monitoring	<p>xVOD libraries, assets for DAI, Catch-up/Replay, PVR (Personal Video Recorder)</p> <p>Highly configurable monitoring campaigns for both static and dynamic libraries</p> <p>Assets provisioning: manual/CSV file or automatic (specific system integration)</p>
DRM support	<p>ABR streams decryption capabilities</p> <p>Via direct Key Server access (proprietary, CPIX)</p> <p>CENC, Sample-AES, AES-128 – Widevine, FairPlay, PlayReady</p>
System Integration & NBI	<p>Configurable alarming thresholds: general, daily and weekly alarm profiles configurable per service</p> <p>Alarm log history CSV export</p> <p>SNMPv2 support for alarm traps</p> <p>Monitoring information available via an open API (HTTP/JSON API)</p> <p>Service thumbnails can be retrieved via API call – for 3rd party dashboard display</p>

## ORDERING\_CODES

StreamProbe OTT	Video QoS & QoE Monitoring for OTT Live services
options	<p><b>Bitrate (Mbps)</b> : Define the bitrate capacity to monitor</p> <p><b>SW Pack ACCESS</b> : Full QoS &amp; QoE</p> <p><b>SW Pack PERFORMANCE</b> : Operational Add-ons</p> <p><b>SW Pack ULTIMATE</b> : Additional Services</p>

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## TECHNICAL CHARACTERISTICS

SW Appliance solution: Linux OS, VM (ESXi >v6.0, KVM), AWS
Performance CPU, RAM, HDD depending on the bitrate capacity to monitor

