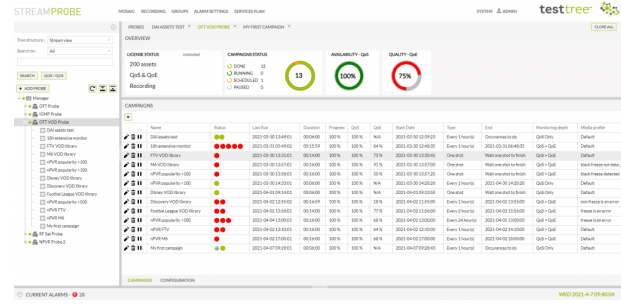


STREAMPROBE

VOD

QoS & QoE check for all VOD based services: xVOD, Catch-up/Replay, PVR, all ABR assets...

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 VOD based Services
- Increase uptime by detecting issues before your customers do
- On demand monitoring of both static & dynamic libraries
- Optimize daily operation & maintenance
- Drill down analysis, on-error proof recording
- Quality Reports generation for SLA commitments

BENEFITS

- Highly configurable monitoring Campaigns
- One single unified web GUI for all Services Management
- Contribution, encoding, packaging, transport, linear, VOD
- Fast training of operational teams
- Pay as you grow with flexible licensing & deployment architecture
- HighDensity full SW solution
- Centralized or distributed architecture, bare metal, virtualized, on-prem, cloud AW

Monitor what you need, when you need

- Highly configurable monitoring Campaigns adapted for both static & dynamic libraries
- One-shot or recurrent (several hours, days, weeks..) monitoring Campaigns
- Monitoring modes: QoS, QoS & QoE, QoS with QoE the first time only
- ABR asset provisioning: manual (CSV import) or automatic via a dedicated API (requires specific integration services)

Library Quality Stats & Reports

- QoS & QoE quality evaluation globally for each Campaign, and also detailed down to the asset itself
- All quality statistics & monitoring results exported within PDF report files*
- Fault history reports for operational maintenance

QoS - ABR Assets Availability & Integrity

- Full HLS, MPEG-DASH monitoring
- Playlist integrity check
- All Profiles availability check
- Fast library availability check when limited to QoS only

QoE - Audio/Video Service Quality

- Full content monitoring of all ABR profiles
- Audio & Video defect detection: freeze, black screen, silence
- ABR Subtitles HLS WebVTT and DASH TTML: decoding and display
- Video image display

Per Asset dedicated monitoring results

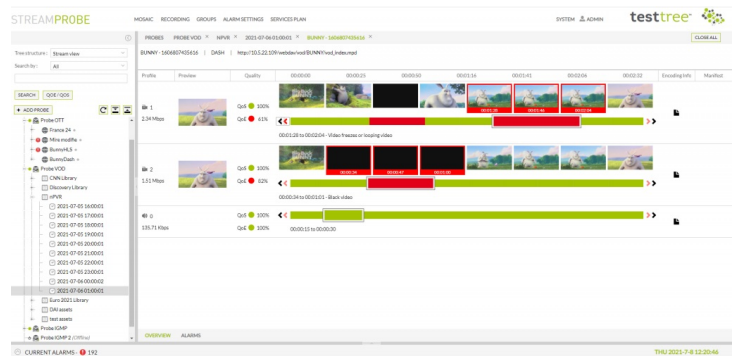
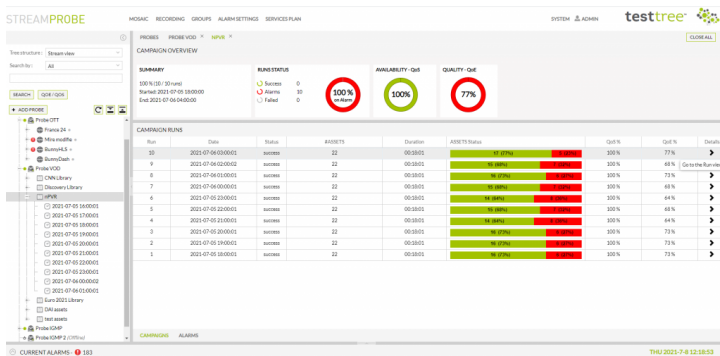
- ABR asset Quality overview: alarms timeline with associated video thumbnails
- Visual tool for fault investigation on all ABR stream's profiles, up to 7 days

DRM support

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

System Integration & NBI

- Configurable alarming thresholds per Campaign
- NMS integration: SNMPv2 support for alarm traps



MONITORING FEATURES

QoS - ABR Assets Availability & Integrity check	Full HLS, MPEG-DASH monitoring Playlist integrity check All Profiles availability check Fast library availability check when limited to QoS only
QoE - Service Audio/Video Quality	Video defect detection: freeze, black screen, missing Intra frame Video encoding information: type, pixel format, profile, level, GOP structure and size, image count and weight, width, height, aspect ratio, frame rate and type, VB delay Audio defect detection: silence, level too low/high Audio encoding information: type, channel number and layout, sample rate and format Subtitles HLS WebVTT and DASH TTML: decoding and display Formats: MPEG-1 audio, MPEG-2 audio/video, AAC, HE-AAC, HE-AACv2, AC3 Dolby Digital, EAC-3 Dolby Digital Plus, SD & HD MPEG-4 AVC/H264, 4K HEVC/H265
Highly configurable monitoring Campaigns	Adapted for both static & dynamic libraries One-shot or recurrent (several hours, days, weeks...) Monitoring modes: QoS, QoS & QoE, QoS with QoE the first time only ABR asset provisioning: manual (CSV import) or automatic via a dedicated API (requires specific integration services)
Library Quality Stats & Reports	QoS & QoE quality evaluation globally for each Campaign, and also detailed down to the asset itself All quality statistics & monitoring results exported within PDF report files* Fault history reports for operational maintenance
Asset dedicated monitoring results	ABR asset Quality overview: alarms timeline with associated video thumbnails Visual tool for fault investigation on all ABR stream's profiles, up to 7 days
DRM support	ABR streams decryption capabilities Via direct Key Server access (proprietary, CPIX) CENC, Sample-AES, AES-128 - Widevine, FairPlay, PlayReady
System Integration & NBI	Configurable alarming thresholds per Campaign NMS integration: SNMPv2 support for alarm traps

TECHNICAL CHARACTERISTICS

SW Appliance solution: Linux OS, VM (ESXi >v6.0, KVM), AWS
Performance CPU, RAM, HDD depending on the number of assets to monitor simultaneously
* *Contact us for availability

ORDERING_CODES

StreamProbe VOD	Video QoS & QoE Monitoring for all xVOD services – non-linear OTT services
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options

#Assets : Define the number of assets to monitor simultaneously
SW Pack ACCESS : Full QoS & QoE
SW Pack PERFORMANCE : Operational Add-ons
SW Pack ULTIMATE : Additional Services

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