

Broadcast Monitoring Gateway Media Stream Analyzer

The exponential growth of IP based media networks has allowed both broadcast operations and service providers to scale faster than ever. Consumers are now being offered the luxury of watching any content, anywhere and at any time, and expect the highest level of service without compromise.



This unification between IP networks and streaming media does present its own set of challenges to ensure that media is originated, processed and delivered in compliance. IP flows can frequently suffer from packet loss, jitter, encoding impairments and transport violations to name a few.

Having the right monitoring and visualization technologies in place to proactively identify impairments and service disruption is imperative to the success of the operation. Providius has engineered the Broadcast Monitoring Gateway (BMG) high density analysis platform as the 24/7 eyes and ears of both your video service and delivery network.

The Broadcast Monitoring can acquire, decode, and analyze a wide variety of media flows across multiple high-capacity IP interfaces (up to 100Gb/s) including:

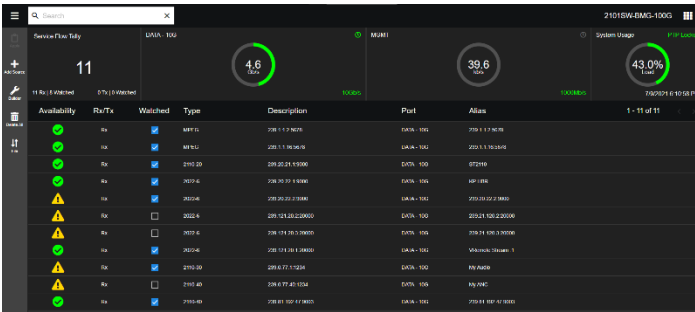
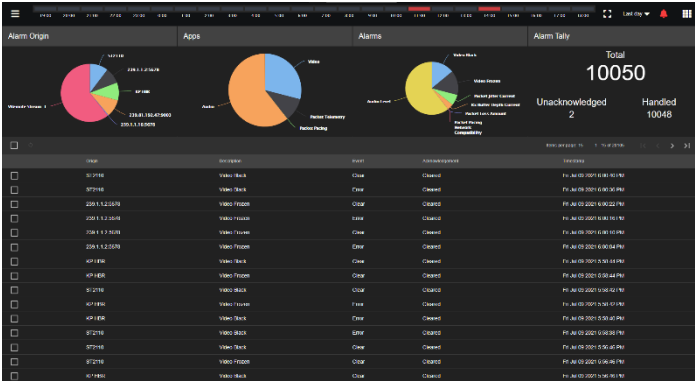
- **Uncompressed Production Formats** **SMPT 2110 (all parts), 2022-6/-7**
- **Compressed Formats** **MPEG-2 TS, H.264, HEVC, JXS, NDI***
- **Audio Formats** **MP1-L1, AAC, HE-AAC, A-52, AES67, RAVENNA**
- **OTT/ABR Formats** **HLS**

The BMG incorporates the essential analysis and decoding processing necessary to alert the operation tiers of service and packet transport related impairments for production, linear and adaptive bitrate (ABR) defined services. At the heart of the BMG, packets are processed for service compliance with also the unique ability to analyze the conditions of the delivery network. This dual focussed analysis approach provides a clear demarcation between video delivery and video processing thereby drastically reducing the mean time to repair (MTTR) and eliminating finger pointing between transport and processing departments.

Features & Benefits

- precision software analysis
- simultaneously monitor multiple media types
- monitoring by exception and mosaic
- runs on COTS/VM compute platforms
- remote access client stations
- control system integration / NMOS

Measurement Apps & Tools



- Full 2110-20/30/40 analysis
- Full 2110-21 packet pacing analysis
- Closed caption decoder
- Loudness
- TR 101290
- SCTE-35/104
- Packet jitter and IPAT
- ST2206-7 analysis and path skew
- Notifications SNMP, Syslog, Slackbot
- Audio metering
- Time series historical graphing
- RTP sequencing
- PTP analysis incl. lock, GM, BMCA, etc
- Timing comparison
- Alarm timeline, latching and logging
- Blended telemetry signal compare
- Multi-CODEC mosaic
- Multiuser personalized albums
- NMOS Compliant
- ... and many more

Ordering Information:

BMG-BASE

BMG Base Software Application
includes 1 year maintenance warranty from date of installation

Software Licenses (Optional)

BMG-LIC-CLIENT

*Contact us for availability
BMG Additional Client Seat Licence

BMG-LIC-CODEC

BMG Additional CODEC Licence

BMG-LIC-JXS

BMG JXS Licence

BMG-LIC-NDI*

BMG NDI Licence

BMG-LIC-RPRT

BMG PDF Accessible Reports Licence

BMG-LIC-BDS30

BMG 30 Day Big Data Storage Licence

BMG-SM-1YR

Additional 1 Year Support & Maintenance Warranty

Compute Hardware (Optional)

SRV-2CPU-100GB-1TB

1RU server, Dual XEON, Dual NIC, up to 100Gb/s, 1TB Storage

SRV-2CPU-100GB-8TB

1RU server, Dual XEON, Dual NIC, up to 100Gb/s, 8TB Storage