

Providius offers cutting-edge solutions that passively analyze both the IT and the broadcast side of operations, providing a clear and concise picture of your systems in real-time. The unique combination of network telemetry and media analysis on a single dashboard is what sets Providius apart, making us the trusted partner of numerous organizations worldwide.

## Broadcast Media Guard (BMG)

**The BMG can acquire, decode, and analyze a wide variety of media flows across multiple high-capacity IP interfaces (up to 100Gb/s) simultaneously.**

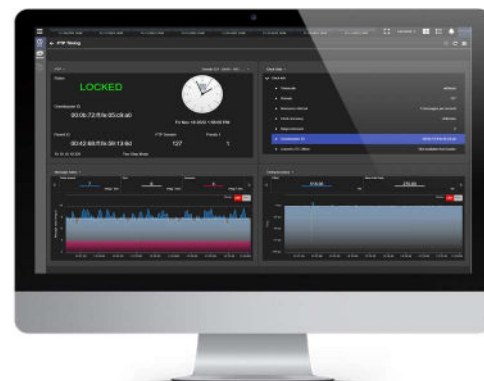
- Media analysis is critical as it enables the measurement and monitoring of the quality and integrity of IP media. This is crucial for ensuring that the delivered content is of the highest possible quality and is free of errors or disruptions.
- Acquire, decode, and analyze a wide variety of media flows (uncompressed and compressed) across multiple high-capacity IP interfaces concurrently.
- BMG is an indispensable and reliable software for Engineering, Operations, and System Integration



**BMG Managed Services Dashboard**



**BMG Stream Analysis Dashboard**



**BMG PTP Analyzer Dashboard**

## Key Features

- ✓ Zero-footprint software that provides precision network packet timing analysis
- ✓ Simultaneous decoding and monitoring of multiple media types
- ✓ 24/7 real-time monitoring, capable of monitoring by exception notification
- ✓ NMOS IS-04/IS-05 support for network discovery and patch management
- ✓ VM or bare metal deployments accessed anywhere using secure web UI

## BROADCAST MEDIA GUARD

Having the right monitoring and visualization technologies in place to proactively identify impairments and service disruption is imperative to the success of the operation. That is why Providius has engineered the BMG to be the 24/7 eyes and ears on your media network.



Production  
Trucks / OB



Broadcast  
Networks



Live Production  
ST 2110/ST 2022



Venues &  
Live Events



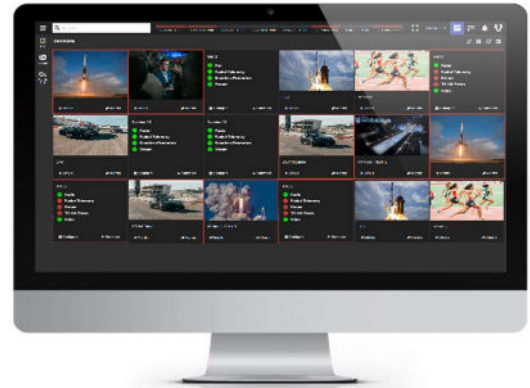
Media  
Head Ends



Transmission  
Facilities



**BMG Event Management  
Dashboard**



**BMG Services Overview  
Dashboard**

### Features & Benefits

BMG offers an advanced suite of apps and tools to ensure complete coverage for any media network, including:

#### Telemetry, Capture, Decode, Analyze

##### Uncompressed Formats

- ST-2022-6 (SDI over IP)
- ST-2022-7 plus path skew
- ST-2110-20/30/40 all parts
- Including:
  - Packet pacing analysis (-21)
  - 32-bit audio decode + analysis (-31)
  - NMOS IS-04/IS-05 compliant
- AES-67
- RAVENNA

##### Compressed Formats

- MPEG-2 Video
- H.264 Video
- HEVC Video
- JPEG XS Video
- JPEG 2000 Video
- NDI Video\*
- SRT\*
- MP1-L1 Audio
- AAC Audio
- HE-AAC Audio
- A-52 Audio

\* Contact us for availability

#### Ancillary Data Analysis

- Closed caption decoding (CEA-608/708)
- Loudness monitoring (EBU-R-128/ITU-1770/ATSC A/85)
- DVB Transport Layer Analysis ETR 101 290
- Commercial signaling analysis & logging (ANSI SCTE-35/SCTE-104)



Ancillary Data  
Inspection



Packet & Timing  
Analysis



24/7  
Monitoring

## Packet & Timing Characterization

- Packet jitter and inter-packet arrival time (IPAT)
- RTP sequencing
- PTP analysis including lock, GM, BMCA...
- Timing comparison

## Visualization and Notification

- Alarm timeline latching and logging
- Audio metering
- Blended telemetry signal compare
- Multi-CODEC mosaic
- Multiuser personalized albums
- Notifications including SNMP, Syslog, and Slackbot
- Time series historical graphing
- Fully open API for 3rd party integration

## ORDERING INFORMATION:

### **BMG-BASE**

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

- BMG-LIC-CODEC**
- BMG-LIC-JXS**
- BMG-LIC-NDI\***
- BMG-LIC-RPRT**
- BMG-LIC-BDS30**
- SLA-SMW-YEARLY**

BMG Additional CODEC License  
BMG JXS License  
BMG NDI License  
BMG PDF Accessible Reports License  
BMG 30 Day Big Data Storage License  
Additional 1 Year Support & Maintenance Warranty

### **Compute Hardware (Optional)**

- SRV-2CPU-100GB-1TB**
- SRV-2CPU-100GB-8TB**
- QSFP28-10MSR4-AR**
- QSFP28-10MSR4-CO**
- QSFP-SFP10G-ADP**

1RU, Dual XEON, Dual NIC up to 100Gb/s, 1TB HDD  
1RU, Dual XEON, Dual NIC up to 100Gb/s, 8TB HDD  
Arista Compatible, QSFP28 100G-SR4 850nm 10m  
Cisco Compatible, QSFP28 100G-SR4 850nm 10m  
QSFP+ to SFP+ Adapter Module

## About Us

For nearly a decade, Providius has been a pioneering force in the Media & Entertainment industry, delivering unparalleled solutions to the most pressing challenges faced by organizations utilizing IP media and IT infrastructures in high-stakes, mission-critical environments.

Providius Corp. is a privately held company headquartered in Canada

