

# MPEG Transport Stream (TS) Logging and QoE Monitoring

Networks, Stations, Cable and IPTV operators are continually challenged to do more with less. They need to assure an ever increasing array of high quality digital programming, handle broadening array of regulatory requests, while delivering an increasingly complex metadata (DVB subtitles, EIT/PSIP, interactivity) to leverage the new digital TV ecosystem. To do this, networks, stations and operators must be able to proactively monitor and quickly troubleshoot items from the details of MPEG metadata all the way down to the quality of the rendered content.

Based on Volicon's award-winning broadcast Observer system, MPEG Transport Stream (TS) logging with the Observer TS<sup>®</sup> enables networks, broadcasters, Cable and IPTV operators to do more than ever before. With continuous logging of MPEG transport streams, monitoring program QoE, and the ability to seamlessly export and stream MPEG TS or low resolution proxies, the Observer TS allows for efficient operation with WAN and enterprise wide clients. Logging the native MPEG TS greatly simplifies troubleshooting, chronic resolution, and regulatory proof of conformance. This capability is an add-on to the core Observer feature set opening the door for a variety of new use cases.

## Volicon Observer™ TS<sup>®</sup>

### Key Benefits:

- Same familiar Observer interface and enhanced features
- Native MPEG TS (ASI/IP/DVB) logging
- Simplifies signal flow for broadcast logging
- Improved logging density – more streams per Rack Unit (RU)
- Low resolution proxy allows for affordable long term storage
- Operation over WAN enterprise with low res proxy
- Easy repurposing of full rate and resolution TS log
- Content QoE Analysis and alarming - SNMP or email
- Off line analysis of MPEG metadata: AC-3, Dialnorm, PSIP, DVB-Subtitles, TR 101 290

### Key Use Cases:

- Broadcast and Network compliance logging
- Cable and IPTV ingest logging and monitoring
- Content repurposing
- Media monitoring digital TV broadcasts

## Key Features:

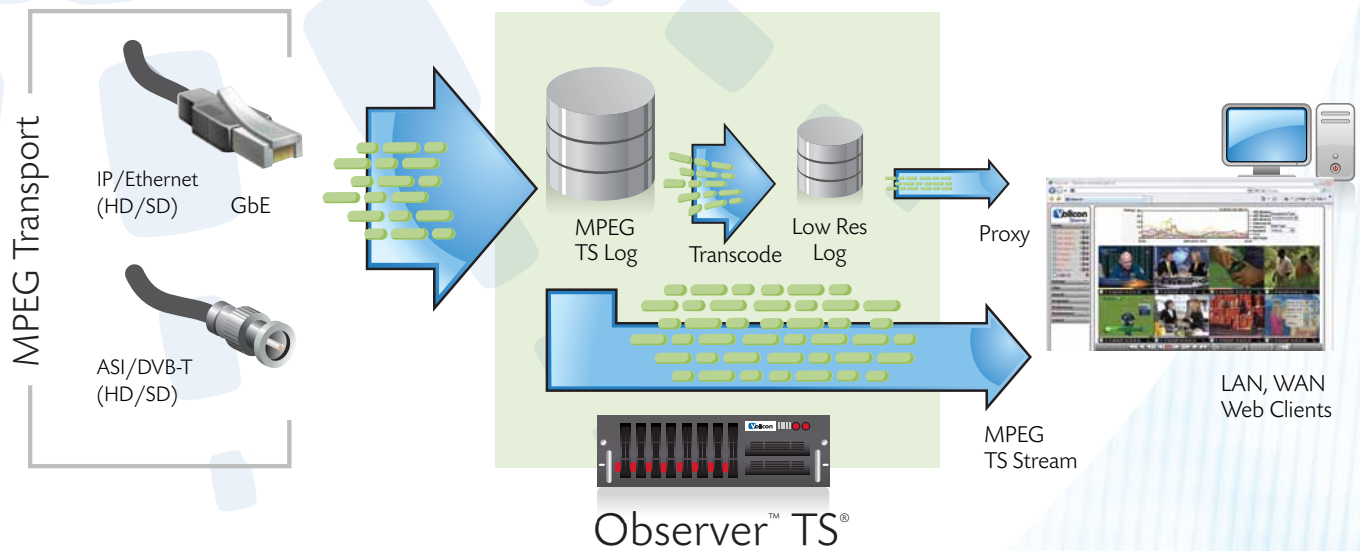
All the familiarity of Observer Enterprise features:

- 24x7 logging of content (TS and proxy)
- Observer Web client with DVR controls
- BS. 1770/EBU/ATSC Loudness Module
- A/V QoE Monitoring and Alerting Module
- Rating & As-Run-Log Import Module
- Content Match Module (CMM)
- Producer Module for Transcoding

### PLUS:

- **Video Codecs** – MPEG-2 Video, MPEG-4 AVC (H.264)
- **Audio Codecs** – MPEG-2 Audio (MP3), AAC, AC-3(DD)
- **Content Capture - MPTS or SPTS**
  - Configurable programs and PIDs
  - Configurable duration by program
- **TS Content clipping and export**
  - Any point to any point – no fixed boundaries
  - Off line Transport Stream Analysis
- **PID Monitoring** - DVB Subtitles, AC-3 Dial Norm

## MPEG TS Logging - Separate MPEG TS & Low Res Logs



Observer™ TS®

	Observer TS Professional	Observer TS Enterprise
Target Market	Stations/Broadcasters	Networks, Cable and IPTV Operators
TS Log	7-30 days, up to 23 Mbps	7-365 days, up to 100s of Mbps
TS Streams	Up to 3 SPTS/MPTS	From 1 to 100s of SPTS/MPTS
Low Res Proxy Log	7-90 days	7-365 days
Interfaces	ASI, IP/Ethernet, DVB-T	ASI, IP/Ethernet, DVB-T
Size	1 RU, 19" Rackmount	3RU to 8RU+, 19" Rackmount
Storage	Up to 7.3 TBs of RAID-1/5 content	Up to 100+TBs of RAID-6 content
Fans and Power Supplies	single, fixed	1+1 Redundant, Hot Swap

**Volicon**