

# VEGA TSA

The Transport Stream Analyzer

## Perfecting MPEG-2 Delivery

### Vega TSA Advantages

- Uniquely focused to analyze and debug MPEG-2 Transport streams
- Based on the comprehensive debug platform of industry leading Vega family of Analyzers

### Vega TSA Features

- Comprehensive statistics of stream occupancy and packet distribution
- Top-level summary of elementary content, such as Profile, Level, Resolution, Bit rate, and more
- Bandwidth statistics of all programs
- Syntax and values: packet header, PES Header, SI, PSI, PSIP and more
- PCR/PTS inaccuracy, PCR/PTS intervals, PCR jitter, PCR drift rate, PCR frequency offset, PTS/DTS analysis
- T-STD buffer analysis
- EPG view
- Analysis of DVB subtitles, Teletext data, TR101 290 Priority checks
- Detailed error messages along with standards violated
- Messages in XML format for ease of distribution
- Facility to store analyzed data for future reference

### Vega TSA Standard Support

- MPEG-2 Systems: ISO/IEC 13818-1:2007(E), ISO/IEC 13818-1:2007/Cor.1:2008(E)
- ATSC a65b, DVB EN 300 468 V1.3.1 (1998-02)
- ISDB: ARIB STD - B10, Version 4.6-E2
- ARIB STD-B1 Annex C, ARIB TR-14
- TR101 290 - Priority Checks: ETSI TR 101 290 V1.2.1
- CableLabs VoD: MD-SP-VOD-CEP2.0-I02-070105, ETV(OC-SP-ETV-AM1.0-I05-091125)
- DSM-CC: ISO/IEC 13818-6:1998
- PCAP: - RFC 2326 (RTSP), RFC 3261 (SIP), RFC 2327 (SDP), RFC 3550 (RTP)
- DVB-H: ETSI EN 301 192 V1.4.1
- DVB Subtitle: ETSI EN 300 743 V1.3.1
- Teletext: European Telecommunication Standard ET300 706

Interoperability, reliability, and efficiency are some of the parameters that distinguish quality MPEG systems used in the broadcast industry.

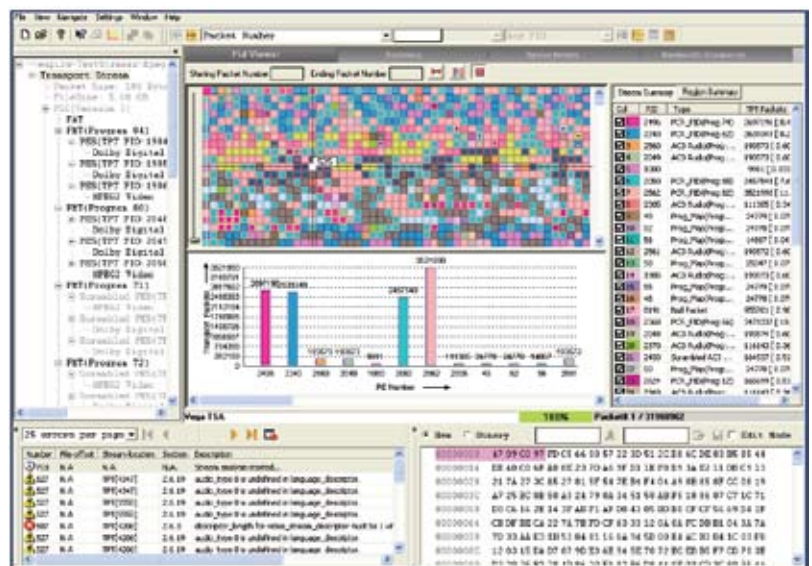
Media professionals working on MPEG systems, such as encoders, decoders, multiplexers, and demultiplexers, need to test and debug the integrity of MPEG-2 Transport streams for standards compliance: Can the MPEG-2 Transport stream be decoded correctly? Do the packets carry data? Is the clock accurate? Is the buffer occupancy below overflow?

Fulfilling this need, Interra's Vega TSA is a comprehensive, offline analysis and debugging software that significantly reduces development time and cost, increases productivity, and enables media professionals to quickly bring-to-market high quality, standard-compliant MPEG systems.

Vega TSA analyzes encoded MPEG-2 Transport streams based on ATSC, DVB, ISDB, TR101 290, CableLabs VoD, and MPEG standards and provides a microscopic view into the stream: from structural hierarchy down to encoded bits. Vega TSA precisely pinpoints standards violation in the stream and provides graphical representation of details, such as stream occupancy, bandwidth utilization, timing inaccuracy, and more.

Vega TSA is based on the debug platform of industry-leading Vega H264 Analyzer. Thus, apart from Transport stream analysis, Vega TSA users can also debug, analyze, and perform standards compliance tests on all elementary streams that are part of the MPEG-2 Transport stream.

Backed by production-proven expertise and superior support of Interra, Vega TSA is the perfect debug tool to develop technologies for MPEG Systems.



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