DVBCcontrol

Intuitive tools that enables you to Control DVB!

Catalogue 2019/2020

- DVBAalyzer
- DVBMosaic
- DVBMonitor
DVBControl

DVBControl.com is dedicated to develop innovative high-quality solutions for the professional TV broadcast industry.

Our team has a background in the broadcast market that goes back to 1995 when we worked for various broadcast companies doing research, expertise and implementation projects. In 2006 we started our company RTSS where we developed a very successful product range under the brand name DVBControl.

As a leading company for analyzing and monitoring solutions for transmission and streaming infrastructures, we provided more than 1000 installations monitoring over 25,000 services worldwide.

Customers can interact directly with our development team to customize our software to meet their specific requirements and wishes. DVBControl.com develops also custom products for the broadcast market. Please do not hesitate to contact us if you have a project.
**DVBA**

**DVBA**

Powerful analyzing of all aspects of DVB/ATSC/ISDB Transport streams.
Usage of different high-level overviews, down to bit interpretation.

**DVBM**

**DVBM**

Real-time mosaic overview showing multiple services received from multiple Transport Streams. Detection, visualization and signaling of freeze, black, silence, PID lost, service lost and input lost behavior.

**DVBM**

**DVBM**

Automated powerful complex real-time 24/7 compliance monitoring of all aspects of DVB for multiple Transport Streams. Usage of Multiple checks, templates, sites, users, severities, notifications and actions.
DVBAnalyzer

DVBAnalyzer enables powerful analyzing of all aspects of DVB/ATSC/ISDB Transport Streams. This can be done with high level summary overviews, down to bit interpretation.

By quickly identifying different fields of interest, DVBAnalyzer helps developers, broadcasters, system integrators and field engineers during maintenance, development and testing of equipment, network and services.

Features
- PID structures
- Service structures
- SI/PSI/PSIP structures
- ETR-290 compliance
- Timing
- Bitrate measurement
- Teletext
- Subtitling
- Layout Manager
- Thumb overview
- Media Viewer
- UDP Multicast output
- Video Quality
- Logical Channel
- Private Data
- Object/Data Carousels
- GOP structures
- PTS-DTS Timing
- Buffer behaviour
- Audio measurement
- Loudness measurement
- DVB-H analyzing
- 3D
- AIT-Viewer
- DVB-T2 Viewer
- Table overview
- Descriptor overview
- Bitrate Distribution
- Hex Viewer
- Burst Viewer
- PCR Timing
- IP Traffic
- Logging
- Filtering
- Plugins
- Preferences
- EPG
- Multiple views
- SCTE-35 Viewer
- MPEG-2 / AVC (H264) / HEVC (H265) video
- MPEG / AAC / Dolby® Digital / Dolby® Digital + / Dolby® E audio
- DVBPlayer
- DVBStreamRecorder
- TSReConverter
- TSSPlitter

Input Support
File, ASI, DVB-C, DVB-T/T2, DVB-S/S2, DVB-H, Unicast, Multicast and OTT.
**PID Overview**
PID-oriented overview of the analyzed Transport Stream, presenting all component details.

**Media Viewer**
Watch or listen to TV and Radio Services. Overlaid Teletext, Subtitles and EPG now/next information.

**Teletext Viewer**
Teletext information available in the analyzed Transport Stream can be shown in different representations:
- Graphics
- Tree
- Grid
- Statistics

**Subtitle Viewer**
DVB Subtitles and their timing properties can be shown using the Subtitle Viewer window.
- Details
- Log
Bitrate Overview
Visual overview of PID and Service bitrate comparisons are possible in four representations:
- Bar
- Time
- Stacked
- Pie
- Bitrate distribution

EPG
A visual grid representation of EPG events are displayed in the EPG Viewer window. EPG data can be shown in different representations:
- Grid
- Details

ETR-290
ETR-290 compliancy results are shown in two different views:
- ETR-290 Viewer
- ETR-290 History

Thumb Overview
Three different Thumb Overviews can be shown:
- Thumbnails Only
- Brief Details
- Full Details
**Video Quality**
Live video quality measurements, using thresholds:
- Blocking
- Blurring
- Ringing
- Waveform Luma/RGB
- Vectorscope
- Histogram Luma/Red/Green/Blue

**PCR Viewer**
PCR Viewer displays every second a graphical overview of the PCR (Program Clock Reference) frequency and precision.
- PCR Jitter snapshot
- PCR Jitter snapshot
- PCR Interval

**Hex Viewer**
Hex Viewer enables in-depth analyzing of Bits, Bytes and their interpretations.
Implemented for:
- PES (Audio/Video/Data)
- Sections
- SCTE-35
- MIP (DVB-T)
- TS-packets

**GOP and Buffer Viewer**
Graphical presentation of the picture order and buffer behavior in GOP (Group of Pictures) structures of Video components.
Different display types can be used for in-depth audio analyzing:
- Samples
- Equalizer Bars
- Frequency Spectrum
- Spectrograph
- Goniometer
- Loudness (1770-3, EBU R-128)

Easy management for all your favorite inputs and services. Possibility to tune to one of your favorite inputs, by only 1 mouse click.
- Source view
- Service view

### Audio and Loudness Viewer Favorites

- PID structures
- Service structures
- SI/PSI/PSIP structures
- ET290 compliance
- PID Overview
- Service Overview
- Grid Overview
- Bitrate Overview
- Thumb Overview
- Table Overview
- Description Overview
- MIP Overview
- AIT Overview
- Logical Channel Overview
- Media Viewer
- PCR Viewer
- EPG Viewer
- Teletext Viewer
- Subtitle Viewer
- Hex viewer
- Burst Viewer
- DSMCC Viewer
- IP Traffic Viewer
- SCTE-35 Viewer
- Multicast Output
- PTS-DTS Viewer
- GOP Viewer
- Buffer Viewer
- Video Quality
  - Waveform
  - Vectorscope
  - Blocking
  - Blurring
  - Ringing
  - Histograms
- 3D Media Viewer support
- Audio Viewer
- Loudness Viewer
- Audio Metadata Viewer
- RDS Viewer
- Dolby®-D/DD+ Support
- Dolby®-E Support
- DVB-H Viewer
- DVB-T2 Viewer
- Logs

### Ordering

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DVBMosaic
Real-time mosaic overview showing multiple services received from multiple Transport Streams.
Detection, visualization and signaling of freeze, black, silence, PID lost, service lost and input lost behavior.
Intuitive configuration for multiple walls, which can decode MPEG-2/AVC/HEVC Video, MPEG, AAC and Dolby® Audio, Teletext and DVB-Subtitles.
Walls can be completed using clocks and graphics.

Features
- Freeze detection
- Black detection
- Silence detection
- Input Lost detection
- PID Lost detection
- Service Lost detection
- Multiple walls
- Acknowledge mode
- Visual signaling
- Audio alerts
- SNMP traps
- Mail alerts
- Web enabled
- Remote control
- DVBDVMonitiConnectivity
- Round Robin
- ETR290 (Level 1) measurements
- Aspect ratio detection
- Teletext
- DVB-subtitles
- Clocks
- Images
- Preferences
- MPEG-2 / AVC (H.264) / HEVC (H.265) video
- MPEG / AAC / Dolby® Digital / Dolby® Digital + / Dolby® E audio
- SMPTE 2110

Input Support
File, HD/SD SDI, SMPTE 2110, ASI, DVB-C, DVB-T/T2, DVB-S/S2, DVB-H, Unicast, Multicast and OTT.
**Wall configuration**
Up to 14 walls can be configured with different Service components:
- Video (SD/HD/UHD)
- Audio
- DVB-Subtitles (SD/HD)
- Teletext
  (Subtitles, Newsflash, Interrupted, Subpages)
- Images
- Clocks

**Multiple displays**
When using DVB MOSAIC with a multi display output adapter, the output of the mosaic can be spread across multiple screens.

**Advanced monitoring techniques**
- End of program detection (stills and/or loops)
- Possibility to specify active regions
- Advanced scheduling system
Web view
The Remote Web Interface enables viewing the Video thumbs and audio bars, via Web, on remote locations. Including selection, fullscreen and error display.

Tally
5 different tally colors can be used. Either as border or as UMD (Under Monitor Display).
Preferences
Customized preferences have impact on behavior and are categorized in different tabs:
- Application
- Layout
- Measurements
- ETR 290 Options
- Round Robin
- DVBMonitor Support
- Remote Web Interface

Signaling Types
All measurement errors and clearing will be logged via multiple communication routes:
- On-screen visualization
- Audio alerts
- SNMP traps
- Email
- Mobile notifications (SMS / iOS / Android)
- Scripting
- DVBMonitor Integration
DVBMosaic Solution

Multiple DVBMosaic agents can seamlessly be integrated with the DVBMosaic Server and Clients. This will enable remote monitoring of all connected DVBMosaic Clients, from all over the world.

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<thead>
<tr>
<th>Type</th>
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<td>Software Base</td>
<td>DVBMosaic base software license, including 10 License Points</td>
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<td>DCL-Base</td>
<td>DVBMosaic Light base software license, including 10 Light License Points*</td>
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<td>DCL+10</td>
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<td>DC+RR</td>
<td>Automatic Round Robin cycling between different Wall configurations</td>
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* ‘Light’ means no checks are enabled.

Benchmark

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License Point System

1 SD TV Service = 1 License Point
1 HD TV Service = 2 License Points
1 UHD TV Service = 4 License Point
1 LD TV Service = 0,5 License Point

Every TV service has 1 Video and 1 Audio component
Video: MPEG-2, AVC, HEVC
Audio: MPEG, AAC
For Dolby® decoding, extra Dolby® license are needed

1 Teletext or DVB-Subtitle = 0,5 License Point
1 Audio = 0,2 License Point
ETR-290 Level 1 (MPTS) = 1 License Point
ETR-290 Level 1 (SPTS) = 0,2 License Point
DVBMonitor

DVB Networks are getting more complex rapidly. Besides the growing amount of Services, also the varieties of components that must connect and interact in a specific way to be successful are getting beyond human perception.

All activities together are responsible for the behavior and quality of a DVB network. Thereby DVB networks evolve constantly with changes in services, parameters, devices and their firmware releases. It can be concluded that a DVB network owner constantly needs to be aware of the quality of his DVB network!

The most reliable means to know how a DVB network performs is to continuously measure in real-time its behavior through comparison to a set of recommendations for various stream elements.

The key question which has to be answered is: What do you accept or not in your DVB network?

To ensure that all DVB signals meet the customer requirements, constant real-time compliancy checks are needed.

Features

- Multiple Transport Streams
- Multiple Configurable Compliancy Checks
- Multiple Templates
- Multiple Notifications
- Multiple Organizations
- Multiple Sites
- Multiple Users

Input Support

File, ASI, DVB-C, DVB-T/T2, DVB-S/S2, DVB-H, Unicast, Multicast and OTT.
Table Changes
Table changes can be monitored and logged. Compare tables/sections by all previously received versions. Now you can quickly see what has changed!

Service Overview
A Service-oriented overview of the analyzed Transport Stream is displayed in the Service Overview window. All Services are quickly comparable now.

SCTE-35
Real-time monitoring for SCTE-35 advertisement insertion signaling:
- Splice signaling
- Segmentation support
- Syntax validation
- Presence monitoring
- Private Identifiers support
- Detailed logging
**Video Quality**
Besides continuous monitoring for blocking, blurring and ringing, using the Video Quality Template, also a time visual representation can be given of the last minute of video quality and bitrate measurements of a video service.

**Thumbs Overview**
Thumbs will be shown for all video services which are decoded together with their status.

**Checks and Templates**
All compliancy checks are categorized in different category templates:
- Transport Stream compliancy
- Bitrate compliancy
- Service compliancy
- SI / PSI / PSIP compliancy
- Video compliancy
- Audio compliancy
Hex Overview
Hex overview enables in-depth analyzing of Bits, Bytes and their interpretations. Implemented for:
- PES (Audio/Video/Data)
- Sections
- SCTE-35
- MIP (DVB-T)
- TS-packets

Teletext
Teletext information available in the analyzed Transport Stream can be displayed in different representations:
- Graphics
- Grid

Loudness
Powerful Loudness measurements for multiple Audio services coming from multiple Transport Streams. Loudness is measured according to the ITU-R BS.1770 standard and EBU R-128 recommendation. Real-time display of Services, Programs and Graphs.

PID Overview
A PID-oriented overview of the analyzed Transport Stream completed with additional (meta) information is displayed in the PID Overview window. All PID’s are quickly visible and comparable now.
ETR-290 compliancy results are shown for:
- Level 1
- Level 2
- Level 3

* DVBMonitor also has additional checks next to ETR-290

Bitrate
Besides continuous monitoring for PID, Service and TS bitrates, using the Bitrate Template, also a time visual representation can be given of bitrates.

Ordering

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Software Base</strong></td>
<td></td>
</tr>
<tr>
<td>DM-Base</td>
<td>DVBMonitor base software license, including 10 License Points</td>
</tr>
<tr>
<td><strong>Software Options</strong></td>
<td></td>
</tr>
<tr>
<td>DM+10</td>
<td>10 extra License Points</td>
</tr>
<tr>
<td>DM+40</td>
<td>40 extra License Points</td>
</tr>
<tr>
<td>DM+100</td>
<td>100 extra License Points</td>
</tr>
<tr>
<td>DM+DD5</td>
<td>5 Dolby® Digital Plus decoders</td>
</tr>
<tr>
<td>DM+DD20</td>
<td>20 Dolby® Digital Plus decoders</td>
</tr>
<tr>
<td>DM+DD50</td>
<td>50 Dolby® Digital Plus decoders</td>
</tr>
<tr>
<td>DM+DE5</td>
<td>5 Dolby®-E decoders</td>
</tr>
</tbody>
</table>

License Point System

<table>
<thead>
<tr>
<th>Inputs:</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 SPTS, with monitoring = 1 License Point</td>
<td></td>
</tr>
<tr>
<td>1 MPTS, with monitoring = 5 License Points</td>
<td></td>
</tr>
<tr>
<td>1 TS, without monitoring = 0,5 License Point</td>
<td></td>
</tr>
<tr>
<td>Video:</td>
<td>Description</td>
</tr>
<tr>
<td>1 SD TV Service = 1 License Point</td>
<td></td>
</tr>
<tr>
<td>1 HD TV Service = 2 License Points</td>
<td></td>
</tr>
<tr>
<td>1 UHD TV Service = 4 License Points</td>
<td></td>
</tr>
<tr>
<td>1 LD TV Service = 0,5 License Point</td>
<td></td>
</tr>
<tr>
<td>Audio:</td>
<td>Description</td>
</tr>
<tr>
<td>1 Audio = 0,5 License Point</td>
<td></td>
</tr>
<tr>
<td>For Dolby® decoding, also extra Dolby® licenses are needed</td>
<td></td>
</tr>
<tr>
<td>Data:</td>
<td>Description</td>
</tr>
<tr>
<td>1 HbbTV = 1 License Point</td>
<td></td>
</tr>
<tr>
<td>1 Teletext = 1 License Point</td>
<td></td>
</tr>
<tr>
<td>1 DVB-Subtitle = 1 License Point</td>
<td></td>
</tr>
</tbody>
</table>

PID Overview
A PID-oriented overview of the analyzed Transport Stream completed with additional (meta) information is displayed in the PID Overview window. All PID's are quickly visible and comparable now.