DVBControl

Catalogue 2015/2016

Intuitive tools that enables you to Control DVB!

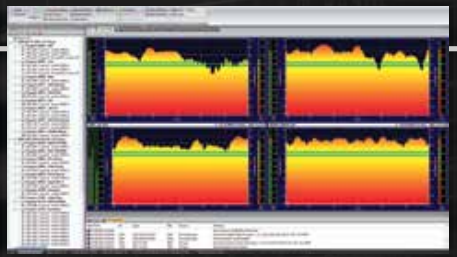
- DVBAnalyzer
- DVBMosaic
- DVBLoudness
- DVBMonitor
- DVBProcessor
- IPProbe
- DVBPlayer
- DVBEncoder
- DVBStreamRecorder

DVBAnalyzer

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

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.



DVBLoudness

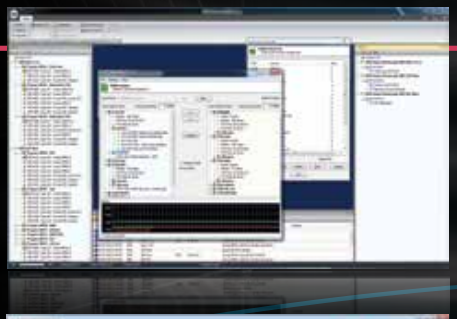
Powerful real-time Loudness measurements for multiple Audio services coming from Multiple Transport Streams. Loudness is measured according to the ITU-R BS.1770 standard and EBU R-128 recommendation.

DVBMonitor

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.

DVBProcessor

Toolkit for generation and altering of multiple DVB streams, both SPTS and MPTS.
Different building blocks: Audio Level Control (ALC), PES Synchronization,
Teletext transcoding/generation, SI/PSI generation and Test-stream generation.



IPProbe

Real-time network measurements for multiple IP interfaces. Detection of Packet loss,
IAT (Inter Arrival Time), Delay factor (RFC 4445), Bitrate and ETR290 problems.

DVBPlayer

E asy playout application for transport stream files.

Output to File, UDP (Unicast or Multicast) or ASI.

DVBEncoder

H.264 encoding and streaming of HD/SD SDI, HDMI, and Composite inputs.

Option for DVBMosaic and DVBLoudness.

DVBStreamRecorder

Instant and scheduled Stream recording.

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.

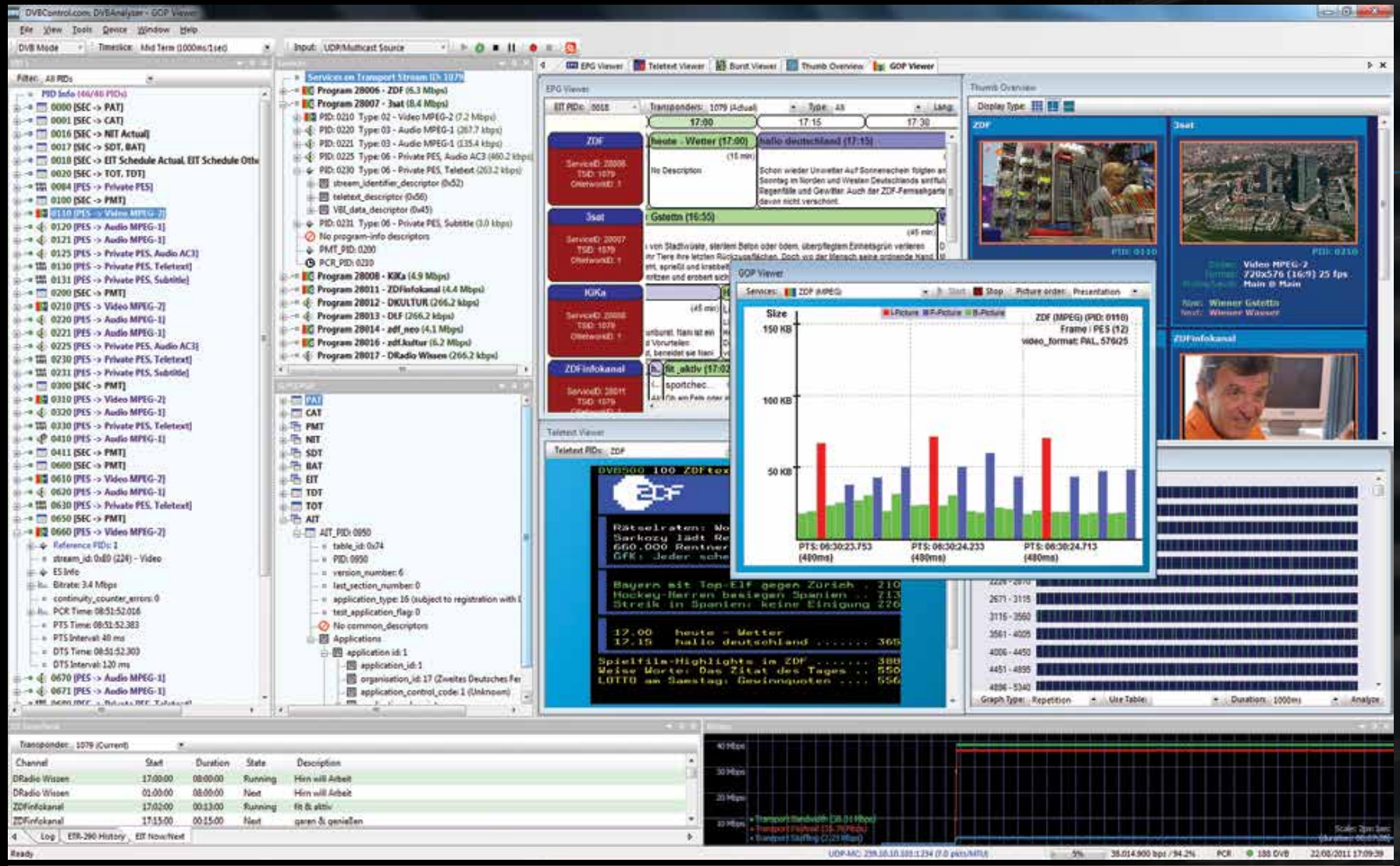
By quickly identifying different fields of interest, DVBAnalyzer helps developers, broadcasters, system integrators and field engineers during maintenance, development and testing of equipment, network and services.

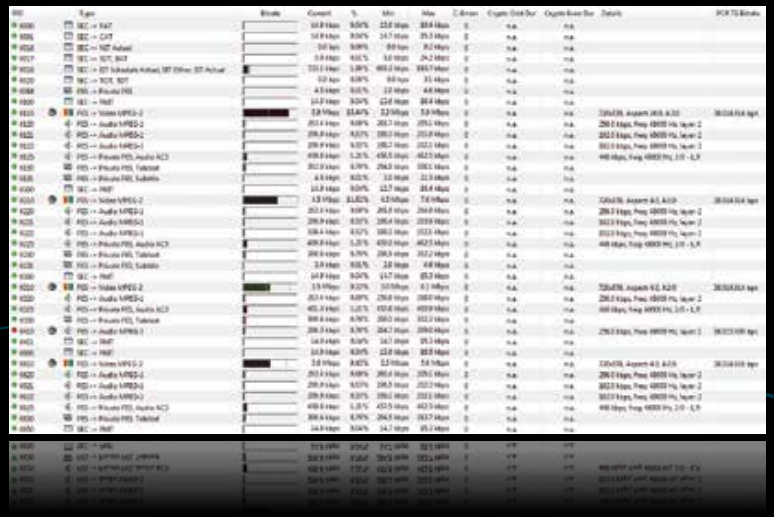
Features

- 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 analysing
- 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 (H.264) / HEVC (H.265) video
- MPEG / AAC / Dolby® Digital / Dolby® Digital + / Dolby® E audio

Input Support

File, ASI, DVB-C, DVB-T/T2, DVB-S/S2, DVB-H, Unicast, Multicast and OTT.


DVBControl.com: DVBAnalyzer - GOP Viewer
File View Tools Device Window Help
EPG Viewer
Teletext Viewer
Burst Viewer
Thumb Overview
GOP Viewer
Services on Transport Stream ID: 1079
Program 28006 - ZDF (6.3 Mbps)
Program 28007 - 3sat (8.4 Mbps)
Program 28008 - KiKa (4.9 Mbps)
Program 28011 - ZDFinfokanal (4.4 Mbps)
Program 28012 - DKULTUR (266.2 kbps)
Program 28013 - DLF (266.2 kbps)
Program 28014 - zdf_neo (4.1 Mbps)
Program 28016 - zdf.kultur (6.2 Mbps)
Program 28017 - DRadio Wissen (266.2 kbps)
heute - Wetter (17:00)
hallo deutschland (17:15)
Gstettn (16:55)
Size
150 KB
100 KB
50 KB
ZDF (MPEG) (PID: 0110)
Frame | PES (12)
video_format: PAL, 576i25
Video MPEG-2
720x576 (16:9) 25 fps
Main @ Main
Now: Wiener Gstettn
Next: Wiener Wasser
ZDFinfokanal
Bayern mit Top-Elf gegen Zürich
Hockey-Herren besiegen Spanien
Streik in Spanien: keine Einigung
12.00 heute - Wetter
12.15 hallo deutschland
Spielfilm-Highlights im ZDF
Weise Worte: Das Zitat des Tages
LOTTO am Samstag: Gewinnquoten
Channel
Start
Duration
State
Description
DRadio Wissen
ZDFinfokanal
Ready



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

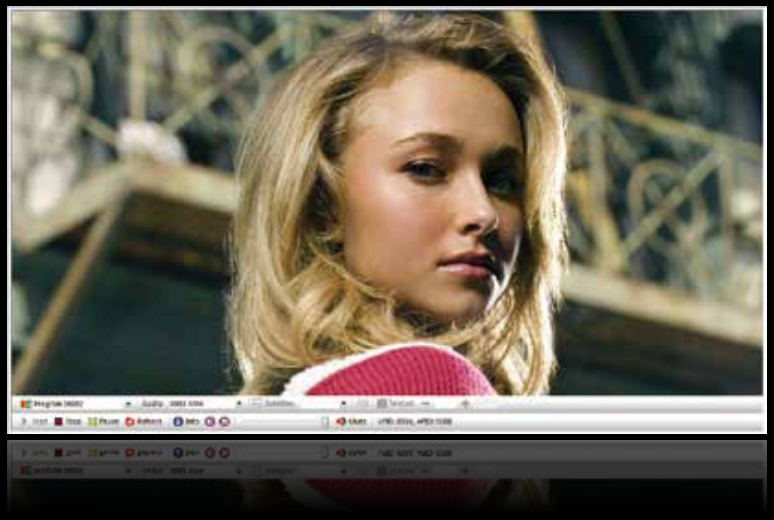
Teletext information available in the analyzed Transport Stream can be shown in different representations:

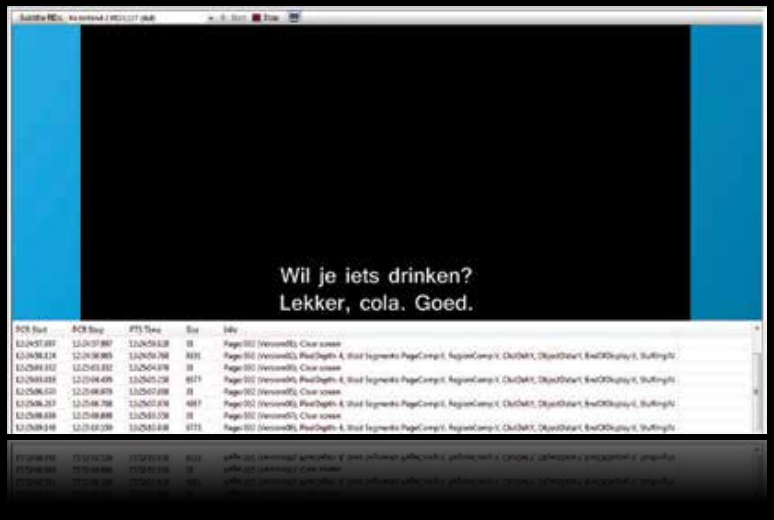
- Graphics
- Tree
- Grid
- Statistics

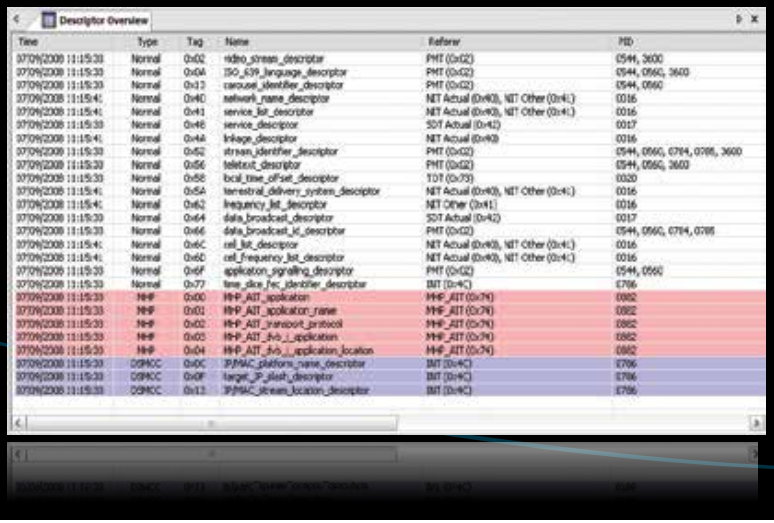
Subtitle Viewer

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

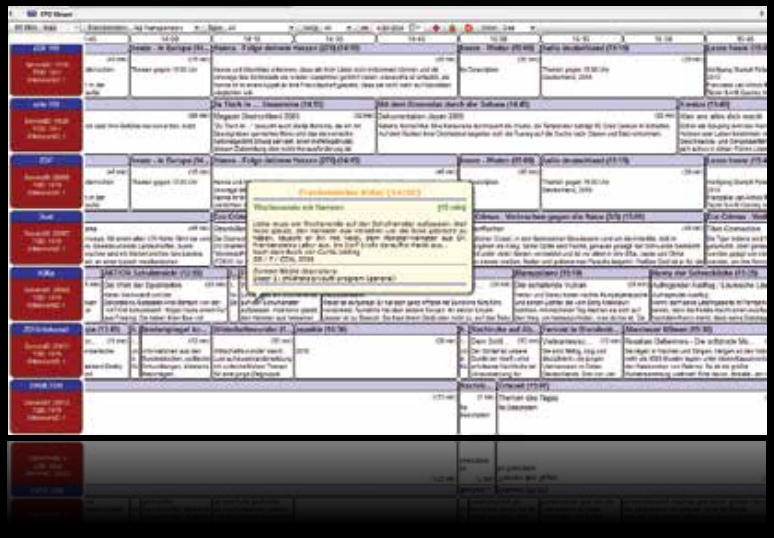
ETR-290 compliancy results are shown in two different views:

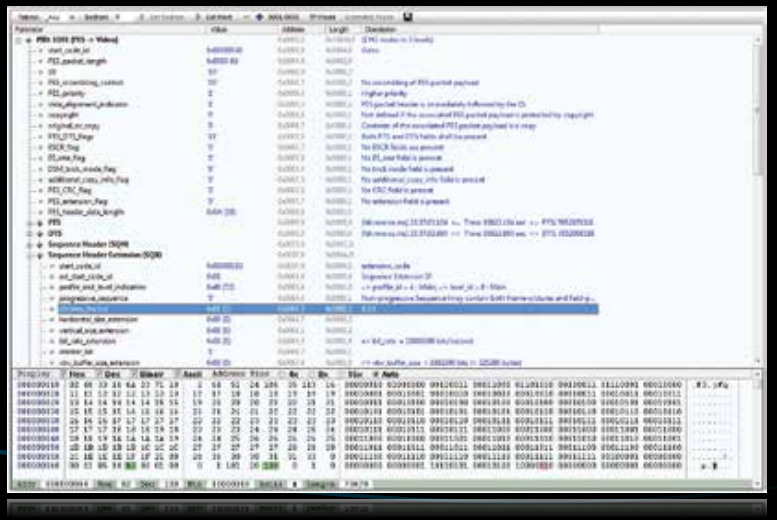
- ETR-290 Viewer
- ETR-290 History

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

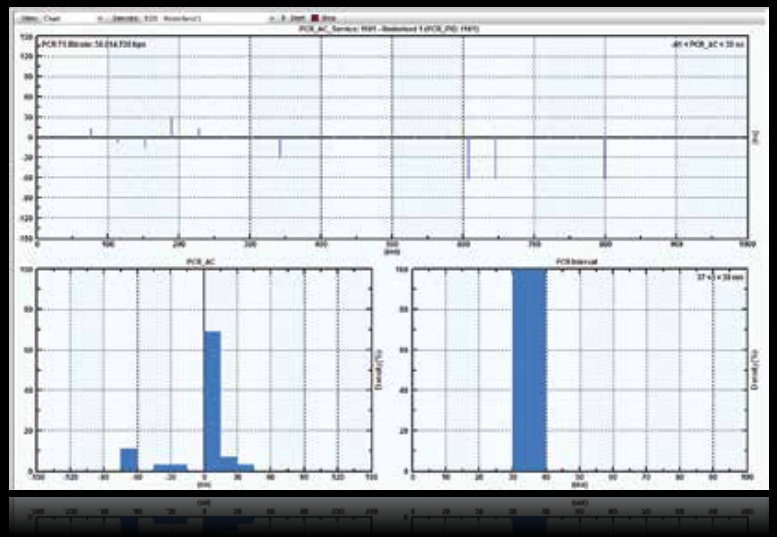
Hex Viewer

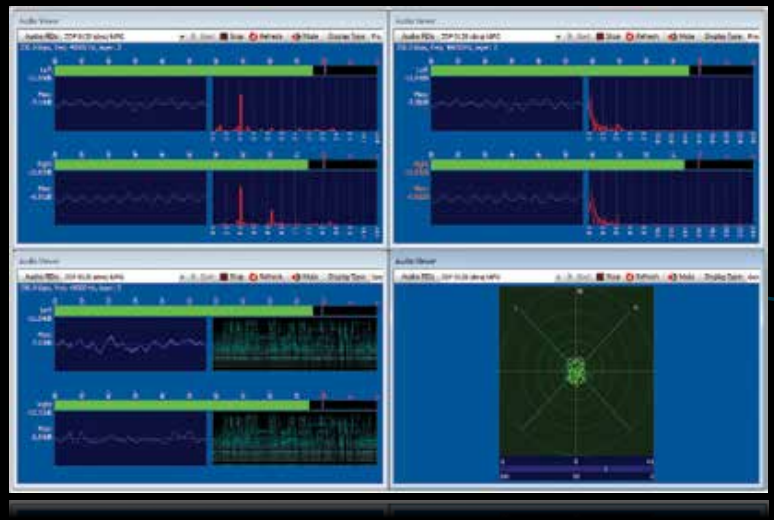
Hex Viewer enables in-depth analyzing of Bits, Bytes and their interpretations.
Implemented for:

- Sections
- 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.





Audio Viewer

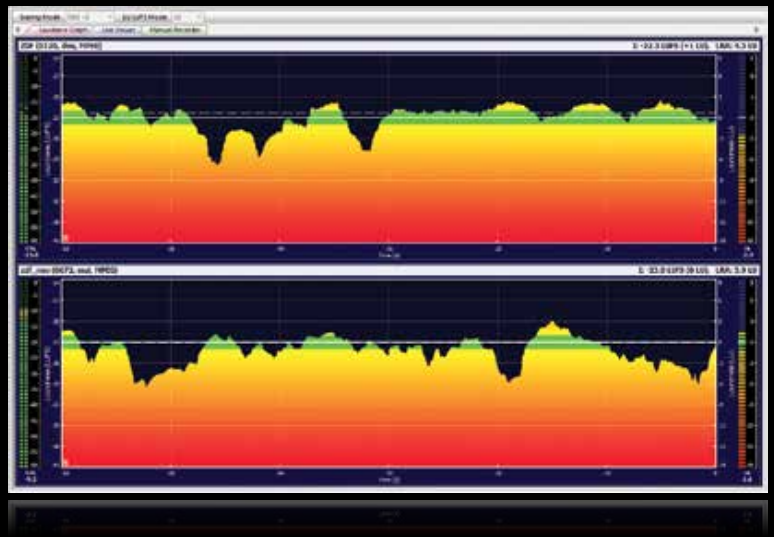
5 different display types can be used for in-depth audio analyzing:

- Samples
- Equalizer Bars
- Frequency Spectrum
- Spectrograph
- Goniometer

Loudness Viewer

Measures Loudness levels according to the ITU-R BS.1770-2 standard and EBU R-128 recommendations.
Different views can be chosen to get maximum information:

- Live Viewer
- Loudness Graph
- Manual Recorder
- LRA measurements



- **Ordering**

Features	Base sofware	Option	Option	Option	Option	Option	Option	Option	Option	Option
	DA-Base	*DA-TP*	*DA-OD*	*DA-AV*	*DA-VQ*	*DA-3D*	*DA-AA*	*DA-DD*	*DA-DE*	*DA-DH*
PID structures	●									
Service structures	●									
SI/PSI/PSIP structures	●									
ET290 compliancy	●									
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										●
Logs	●	●	●	●	●	●	●	●	●	●

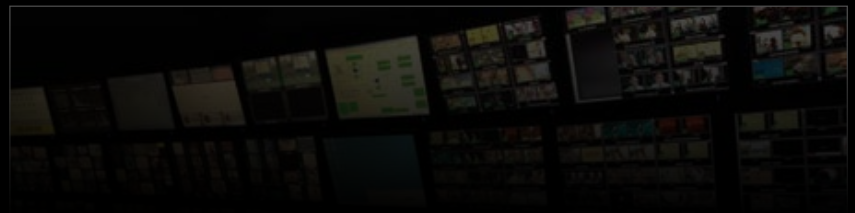
DVBMosaic

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
- DVBMonitor connectivity
- 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

Input Support

File, HD/SD SDI, ASI, DVB-C, DVB-T/T2, DVB-S/S2, DVB-H, Unicast, Multicast and OTT.


Aspect Error
Freeze+Silence
Freeze Error
Freeze+Silence
Aspect Error
DVBControl
Monday
1.1 TS_sync_loss
1.2 Sync_byte_error
1.3 PAT_error
1.4 Continuity_count_error
1.5 PMT_error
1.6 PID_error
N24

Preferences

Customized preferences have impact on behavior and are categorized:

- Application
- Measurements
- SNMP
- Email
- Audio
- DVBMonitor
- Round Robin
- SyslogD
- iPhone
- Android

Wall configuration

Up to 10 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 DVBMosaic with a multi display output adapter, the output of the mosaic can be spread across multiple screens.

Round Robin

Automatically changing of walls can be realized using the Round Robin option.
The walls to be included and their display time can be customized by the user.

Signalling Types

All measurement errors and clearing will be logged via multiple communication routes:

- On-screen visualization
- Audio alerts
- SNMP traps, Email alerts
  Iphone / Android Notifications
- DVBMonitor integration

DVBMonitor Solution

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

- **Ordering**

Type	Description
Software Base	
DC-10	DVBMosaic base software license, including 10 License Points
DCL-10	DVBMosaic Light base software license, including 10 Light License Points*
Software Options	
DC+10	10 extra License Points
DCL+10	10 extra Light License Points (Can only be used with DCL-10 Base License)
DC-DD5	5 Dolby® Digital Plus decoders
DC-DD20	20 Dolby® Digital Plus decoders
DC-DD50	50 Dolby® Digital Plus decoders
DC-DE5	5 Dolby® -E decoders
DC-RR	Automatic Round Robin cycling between different Wall configurations

* 'Light' means no checks enabled.

- **Benchmark**

CPU	SD MPEG-2	SD AVC/H.264	HD MPEG-2	HD AVC/H.264
i7-930	40	25	10	5
i7-980	70	50	20	9
Dual X5550	75	55	22	10
Dual X5675	110	75	30	15
Dual E5-2680V2				26
Dual E5-2687V3				30

License points calculation
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

DVBLoudness

Powerful real-time 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.

DVBLoudness is very modular and can be used in flexible and scalable environments enabling a wide range of users to analyze and control Loudness process behavior and the impact of process improvements.

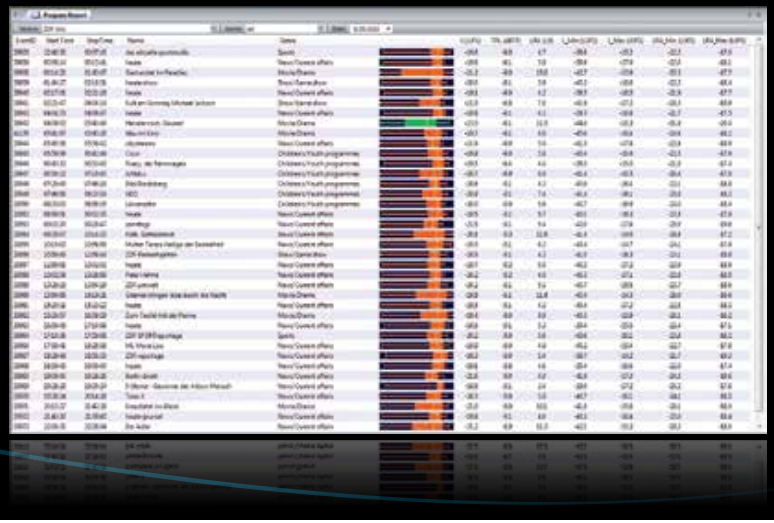
Features

- Momentary loudness
- Short Term loudness
- Program loudness
- Service loudness
- Loudness Range (LRA)
- True Peak Level
- Manual/External Triggered
- Live Meter (60 seconds)
- Remote Client
- Omnibus Playout Support
- SNMP
- Visual Onscreen Alarms
- Control of Audio Level Control (ALC) equipment
- DVBMonitor integration
- Loss of Input detection
- Loss of Service Component detection
- Silence detection
- MPEG / AAC / Dolby® Digital / Dolby® Digital + / Dolby® E audio

Input Support

File, HD/SD SDI, ASI, DVB-C, DVB-T/T2, DVB-S/S2, DVB-H, Unicast, Multicast and OTT.


Home
Live Viewer
Program Report
Station Report
Loudness Graph
Manual Record
ORF1 ger AC3
I: -27.0 LUFS (+4 LU), LRA: 4.2 LU
DRadio Wissen ger
I: -18.0 LUFS (+5 LU), LRA: 2.2 LU
0 Errors
110 Messages
Date/Time
ID
Input
PID
Service
Message



Live Viewer

- Up to 16 Live Meters
- Short Term Chart with colour scale
- Integrated Loudness value
- Momentary Loudness
- Loudness Range
- True Peak Level

Program Report

- Program Name/Genre
- Start/Stop Time
- Integrated Loudness value
- Loudness Range
- True Peak Level
- AC-3 Dialnorm

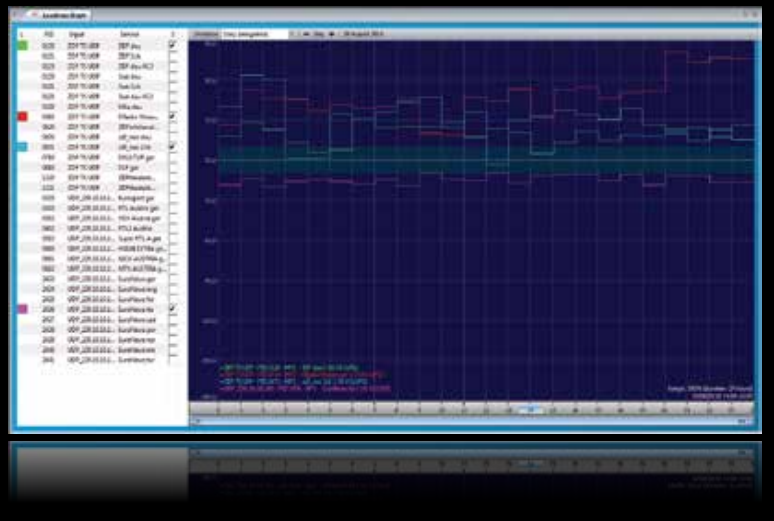
Service Report

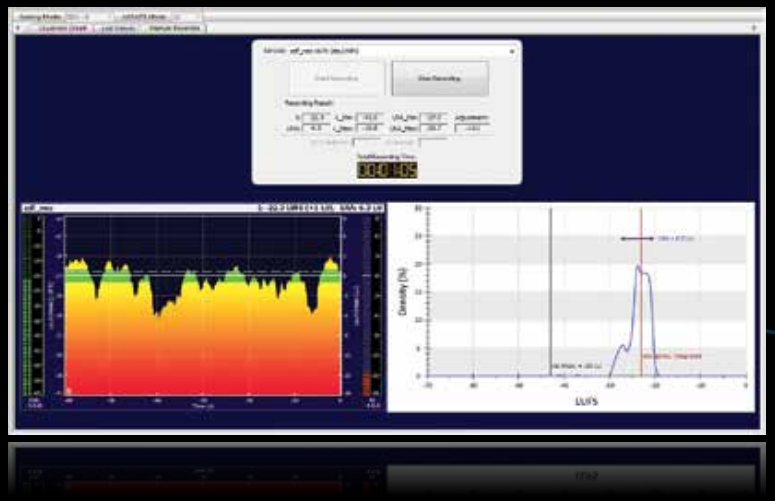
- Daily report of all services
- Integrated Loudness value
- Loudness Range
- True Peak Level
- AC-3 Dialnorm

Loudness graph

Loudness analyzing is continuously done for 3 different time intervals:

- Hourly (Short Term)
- Daily (Integrated)
- Monthly (Integrated)





- **Ordering**

Type	Description
Software Base	
DL-25	DVBLoudness base software license, including 25 License Points
Software Options	
DL+25	25 extra License Points
DL+50	50 extra License Points
DL+100	100 extra License Points
DL-DD5	5 Dolby® Digital Plus decoders
DL-DD20	20 Dolby® Digital Plus decoders
DL-DD50	50 Dolby® Digital Plus decoders
DL-DE5	5 Dolby® -E decoders
DL-ALCC	Control of an Audio Level Controller unit

Manual Recorder

Besides automatically triggered (EIT/SNMP) program recording, also manual recording can be realized.

ALC Control

Control of Audio Level Control equipment to normalise multiple services in a DVB network.

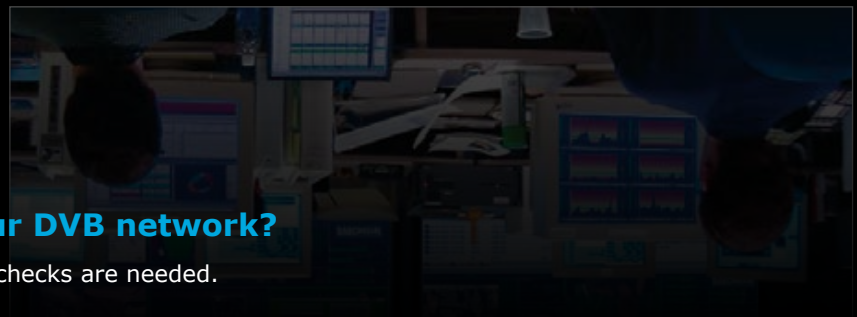
Notifications

- Display
- SNMP
- DVBMonitor
- Syslog
- iPhone
- Android

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.



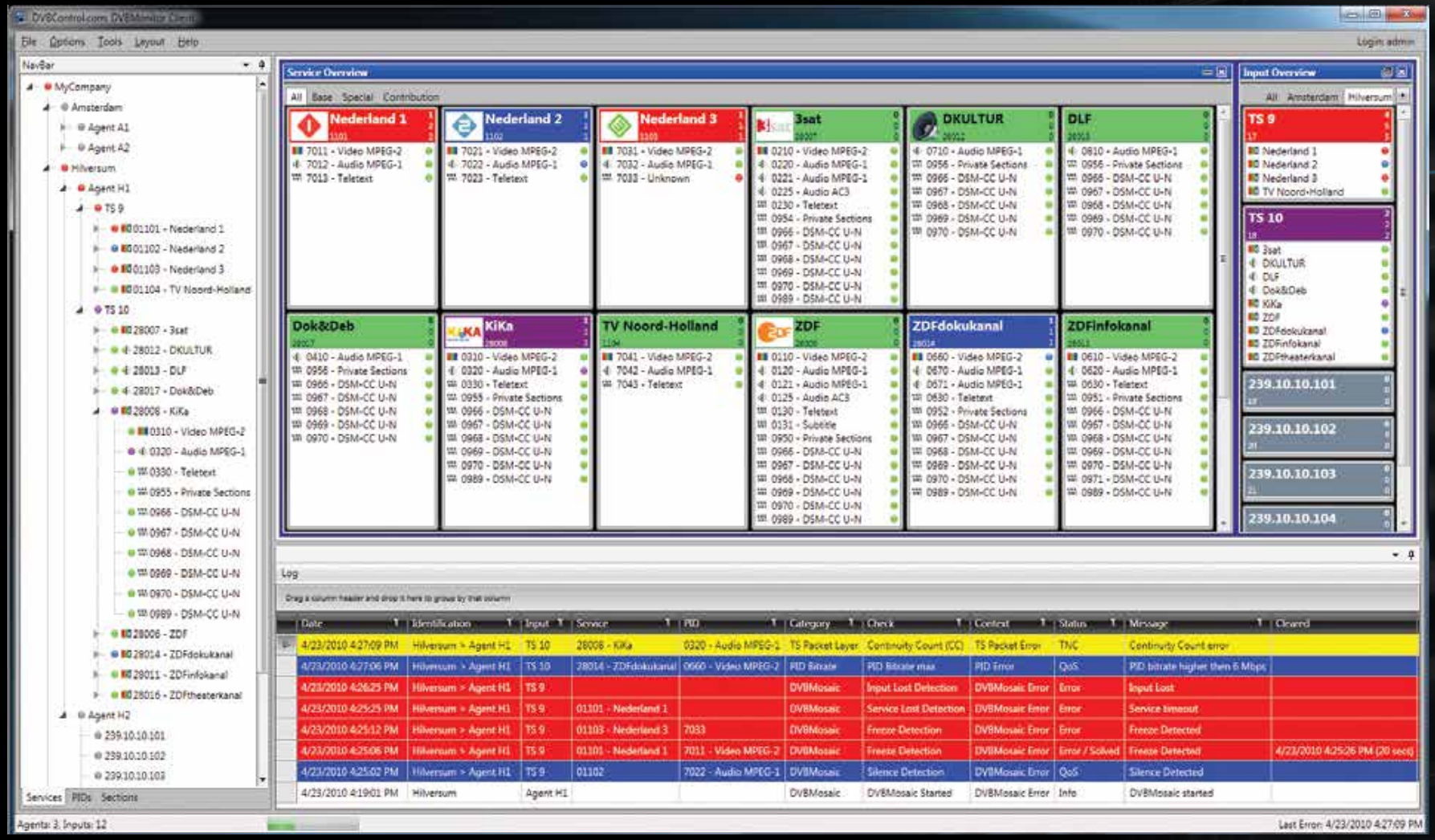
The key question which has to be answered is: **What do you accept or not in your DVB network?**
To ensure that all DVB signals meet the customer requirements, constant real-time compliancy checks are needed.

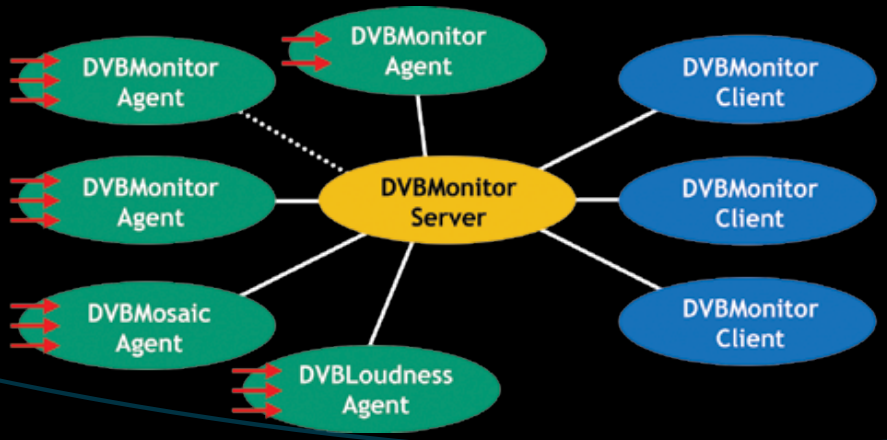
Features

- 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.


File Options Tools Layout Help
Login: admin
NavBar
MyCompany
Amsterdam
Agent A1
Agent A2
Hilversum
Agent H1
TS 9
01101 - Nederland 1
01102 - Nederland 2
01103 - Nederland 3
01104 - TV Noord-Holland
TS 10
28007 - 3sat
28012 - DKULTUR
28013 - DLF
28017 - Dok&Deb
28008 - KiKa
0310 - Video MPEG-2
0320 - Audio MPEG-1
0330 - Teletext
0955 - Private Sections
0966 - DSM-CC U-N
0967 - DSM-CC U-N
0968 - DSM-CC U-N
0969 - DSM-CC U-N
0970 - DSM-CC U-N
0989 - DSM-CC U-N
28006 - ZDF
28014 - ZDFdokukanal
28011 - ZDFinfokanal
28016 - ZDFtheaterkanal
Agent H2
239.10.10.101
239.10.10.102
239.10.10.103
Services PIDs Sections
Service Overview
All Base Special Contribution
Nederland 1
7011 - Video MPEG-2
7012 - Audio MPEG-1
7013 - Teletext
Nederland 2
7021 - Video MPEG-2
7022 - Audio MPEG-1
7023 - Teletext
Nederland 3
7031 - Video MPEG-2
7032 - Audio MPEG-1
7033 - Unknown
3sat
0210 - Video MPEG-2
0220 - Audio MPEG-1
0221 - Audio MPEG-1
0225 - Audio AC3
0230 - Teletext
0954 - Private Sections
DKULTUR
0710 - Audio MPEG-1
0956 - Private Sections
DLF
0810 - Audio MPEG-1
0956 - Private Sections
Dok&Deb
0410 - Audio MPEG-1
0956 - Private Sections
KiKa
0310 - Video MPEG-2
0320 - Audio MPEG-1
0330 - Teletext
0955 - Private Sections
TV Noord-Holland
7041 - Video MPEG-2
7042 - Audio MPEG-1
7043 - Teletext
ZDF
0110 - Video MPEG-2
0120 - Audio MPEG-1
0121 - Audio MPEG-1
0125 - Audio AC3
0130 - Teletext
0131 - Subtitle
0950 - Private Sections
ZDFdokukanal
0660 - Video MPEG-2
0670 - Audio MPEG-1
0671 - Audio MPEG-1
0630 - Teletext
0952 - Private Sections
ZDFinfokanal
0610 - Video MPEG-2
0620 - Audio MPEG-1
0630 - Teletext
0951 - Private Sections
Input Overview
All Amsterdam Hilversum
TS 9
Nederland 1
Nederland 2
Nederland 3
TV Noord-Holland
TS 10
3sat
DKULTUR
DLF
Dok&Deb
KiKa
ZDF
ZDFdokukanal
ZDFinfokanal
ZDFtheaterkanal
239.10.10.101
239.10.10.102
239.10.10.103
239.10.10.104
Log
Drag a column header and drop it here to group by that column
Date Identification Input Service PID Category Check Context Status Message Cleared
4/23/2010 4:27:09 PM Hilversum > Agent H1 TS 10 28008 - KiKa 0320 - Audio MPEG-1 TS Packet Layer Continuity Count (CC) TS Packet Error TNC Continuity Count error
4/23/2010 4:27:06 PM Hilversum > Agent H1 TS 10 28014 - ZDFdokukanal 0960 - Video MPEG-2 PID Bitrate PID Bitrate max PID Error QoS PID bitrate higher then 6 Mbps
4/23/2010 4:26:25 PM Hilversum > Agent H1 TS 9 DVBMosaic Input Lost Detection DVBMosaic Error Error Input Lost
4/23/2010 4:25:25 PM Hilversum > Agent H1 TS 9 01101 - Nederland 1 DVBMosaic Service Lost Detection DVBMosaic Error Error Service timeout
4/23/2010 4:25:12 PM Hilversum > Agent H1 TS 9 01103 - Nederland 3 7033 DVBMosaic Freeze Detection DVBMosaic Error Error Freeze Detected
4/23/2010 4:25:06 PM Hilversum > Agent H1 TS 9 01101 - Nederland 1 7011 - Video MPEG-2 DVBMosaic Freeze Detection DVBMosaic Error Error / Solved Freeze Detected 4/23/2010 4:25:26 PM (20 secs)
4/23/2010 4:25:02 PM Hilversum > Agent H1 TS 9 01102 7022 - Audio MPEG-1 DVBMosaic Silence Detection DVBMosaic Error QoS Silence Detected
4/23/2010 4:19:01 PM Hilversum Agent H1 DVBMosaic DVBMosaic Started DVBMosaic Error Info DVBMosaic started
Agents: 3, Inputs: 12
Last Error: 4/23/2010 4:27:09 PM



Notifications and Actions

Different notifications and actions can be fired:

- Log line
- On-screen visualization
- Audio alerts
- SNMP Traps
- E-mail alerts
- User defined scripts
- Transport Stream capture

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

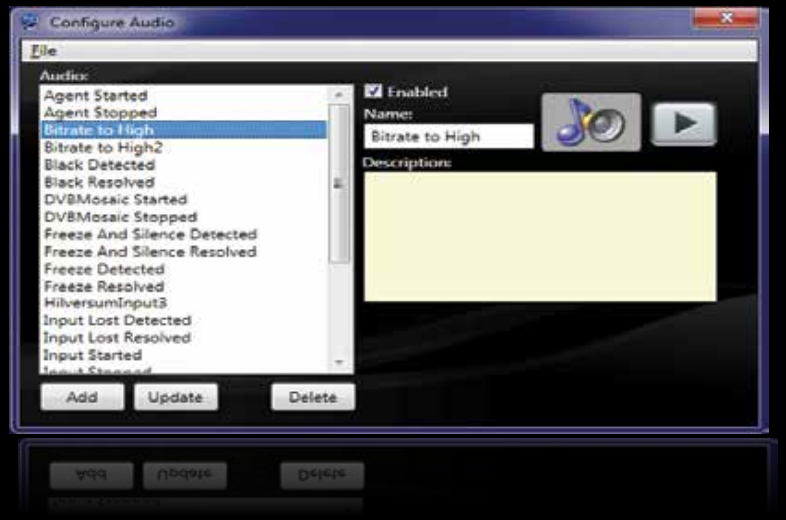
Identifications

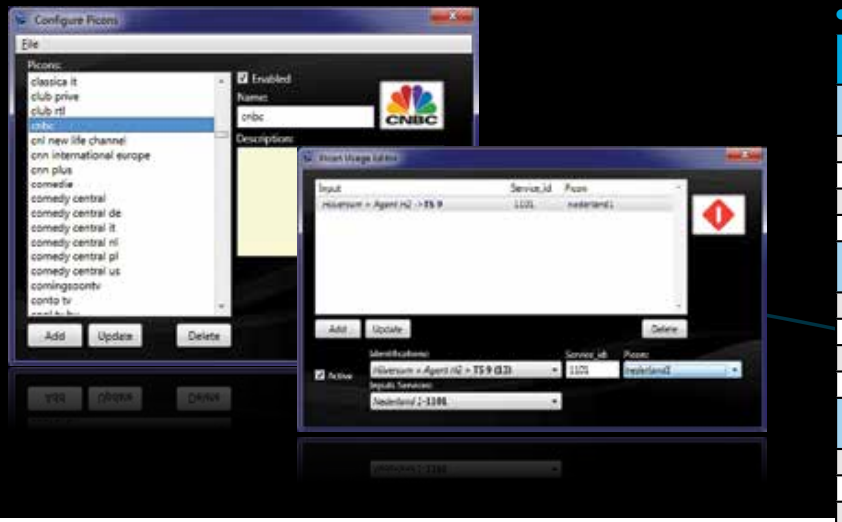
Identifications give the possibility to make hierarchical and non-hierarchical relations between:

- Organizations
- Sites
- Users
- DVBMonitorAgent entities
- Transport Stream inputs (probes)

Organizations and Users

Because of its unique architecture, it is easily possible to define a Monitoring structure where multiple Organizations, Sites and Users can share one DVBMonitor installation.
A network provider can create user login entries for customers to enable monitoring their local services.





Picons

Graphical customization of Services and Inputs. Easier identification of:

- Broadcasters
- Multiple use of equally named services

Audio

Custom audio tracks which will identify all auditive messages easier for:

- Locations
- Agents
- Inputs
- Services
- Checks
- Rise, update and dissolve

- **Ordering**

Type	Description
Software Base	**DVBMonitor Base Compliance Checks (ETR290, SI/PSI/PSIP, Timing, Bitrate, Service, Structures and Measurements)**
DM-5	DVBMonitor base software license, including 5 License Points
DM-10	DVBMonitor base software license, including 10 License Points
DM-40	DVBMonitor base software license, including 40 License Points
DM-100	DVBMonitor base software license, including 100 License Points
Software Options	**DVBMonitor Video Compliance Checks (ES settings: MPEG-2/AVC, GOP/Picture structures, Quality: Black, Freeze, Blocking)**
DM-VC-5	Video compliance monitoring, for 5 Video License Points
DM-VC-10	Video compliance monitoring, for 10 Video License Points
DM-VC-40	Video compliance monitoring, for 40 Video License Points
DM-VC-100	Video compliance monitoring, for 100 Video License Points
	DVBMonitor Audio Compliance Checks (ES settings: MPEG-1, Quality: Silence, Level, Loudness)
DM-AC-5	Audio compliance monitoring, for 5 Audio License Points
DM-AC-10	Audio compliance monitoring, for 10 Audio License Points
DM-AC-40	Audio compliance monitoring, for 40 Audio License Points
DM-AC-100	Audio compliance monitoring, for 100 Audio License Points
DM-AC-DD5	5 Dolby® Digital Plus decoders
DM-AC-DD20	20 Dolby® Digital Plus decoders
DM-AC-DD50	50 Dolby® Digital Plus decoders
DM-AC-DE5	5 Dolby®-E decoders
	DVBMonitor Data Compliance Checks (Private PES Data: Teletext/DVB-Subtitles, Object/Data Carousel)
DM-XC-5	Data compliance monitoring, for 5 Data License Points
DM-XC-10	Data compliance monitoring, for 10 Data License Points
DM-XC-40	Data compliance monitoring, for 40 Data License Points
DM-XC-100	Data compliance monitoring, for 100 Data License Points

DVBProcessor

Toolkit for generation and altering of multiple DVB streams, both SPTS and MPTS. Different building blocks: Audio Level Control (ALC), PES Synchronization, Teletext transcoding/generation, SI/PSI generation, Test-stream generation and Dolby encoding.

Building blocks

- Audio Level Control normalization, for MPEG-1 Layer II and Dolby® audio
- Multi-Stream Recorder
- PES synchronization (Audio, Teletext, DVB-Subtitles)
- Teletext transcoding
- Teletext generation
- SI / EPG generation
- Test-stream generation
- Dolby® Digital / Dolby® Digital + / Dolby® E encoding

Audio normalization can be controlled continuously with our DVBLoudness product.

For 'Teletext Transcoding' different parameters can be altered:

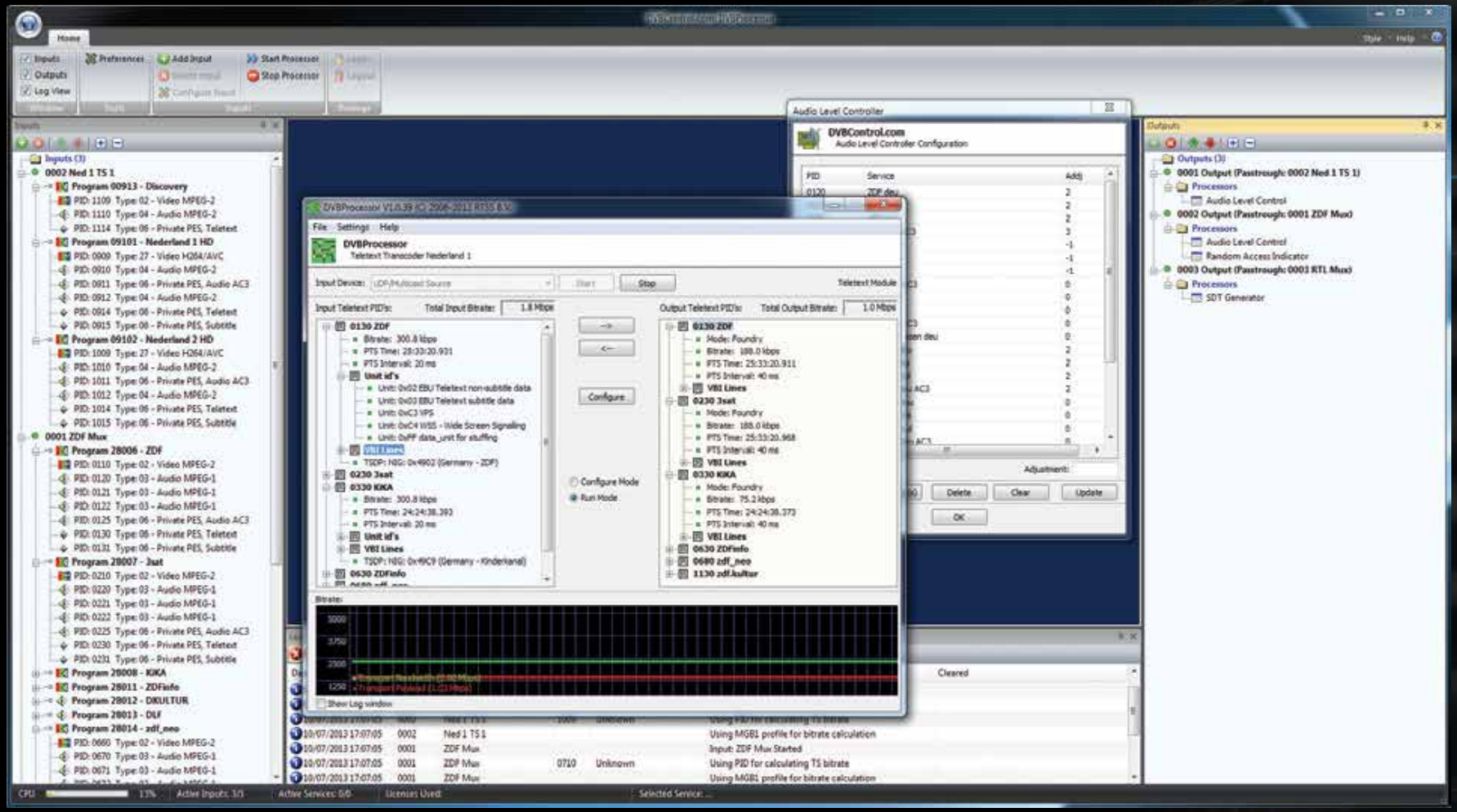
- Bitrates
- VBI selections
- Packet filters
- Unit filters
- PTS interval
- Foundry mode processing

Input Support

File, ASI, DVB-C, DVB-T/T2, DVB-S/S2, DVB-H, Unicast, Multicast and OTT.

DOLBY DIGITAL PLUS

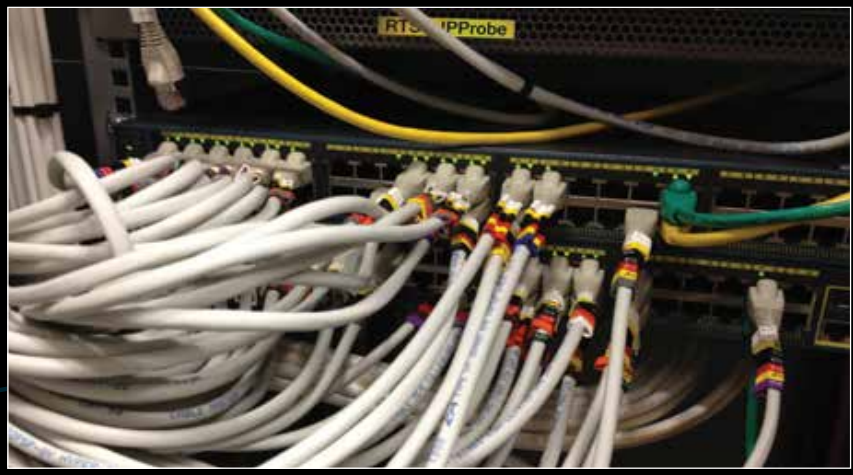
DOLBY E

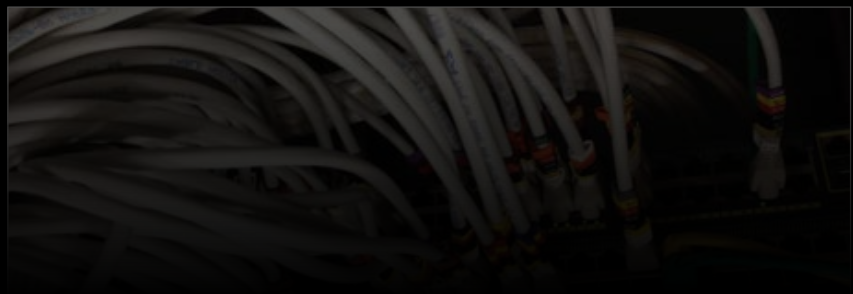

Audio Level Controller
DVBControl.com
Audio Level Controller Configuration
DVBProcessor
Teletext Transcoder Nederland 1
Outputs (3)
0001 Output (Passtrough: 0002 Ned 1 TS 1)
0002 Output (Passtrough: 0001 ZDF Mux)
0003 Output (Passtrough: 0003 RTL Mux)
Audio Level Control
Random Access Indicator
SDT Generator

IPProbe

Real-time network measurements for multiple IP interfaces. Detection of Packet loss, IAT (Inter Arrival Time), Delay, Bitrate and ETR290 problems.

Stable packet generation and receiving is a key feature required in any modern IPTV environment. Any irregularity and/or discontinuity in this packet stream means buffering problems or losing frames.
IP jitter provides a means to see the distribution and stability in the IP stream.



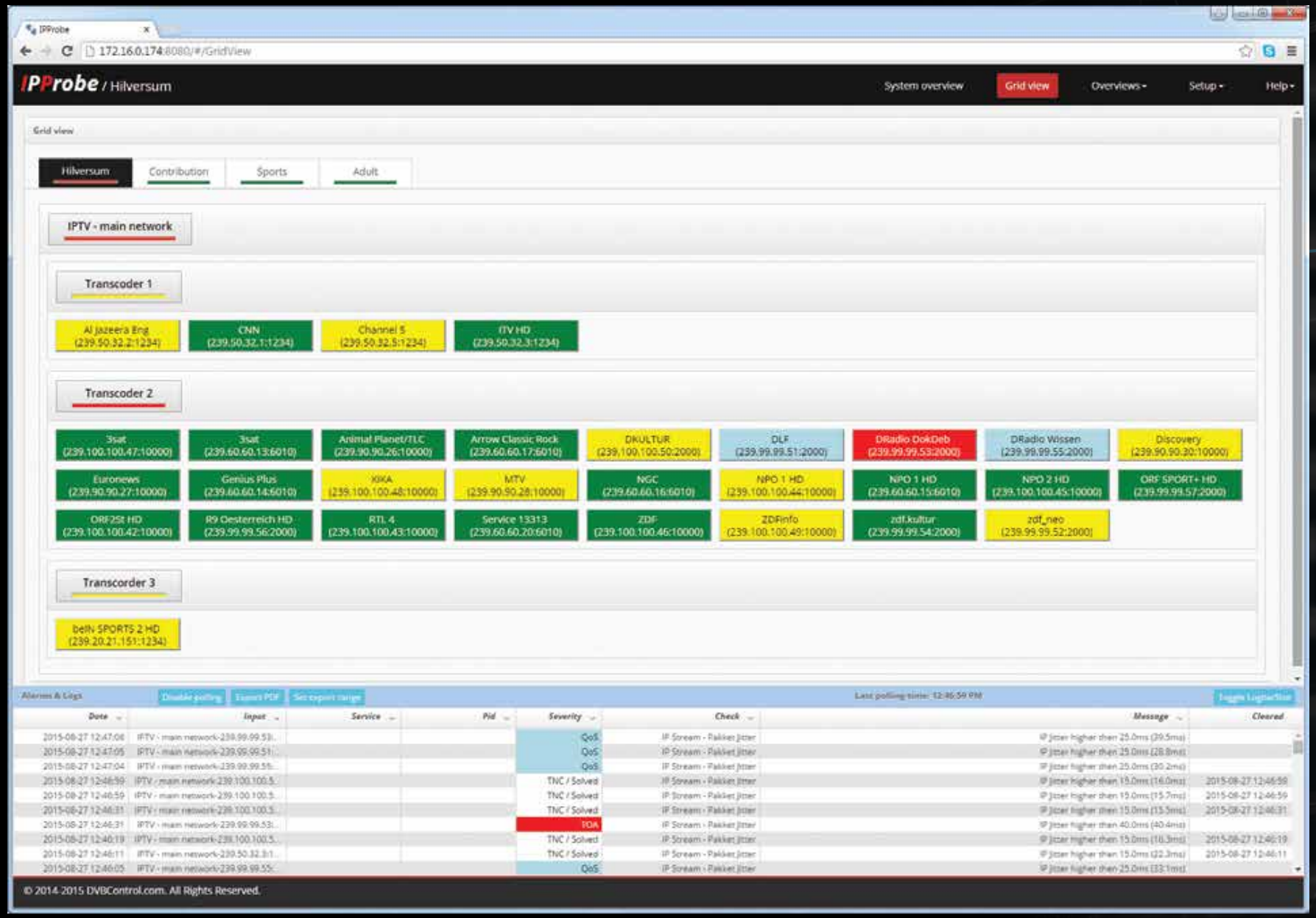


Features

- Up to 10G connectivity
- Packet loss detection
- IAT (Inter Arrival Time) measurements
- IP Packet Jitter
- Delay factor (RFC 4445)
- Bitrate measurements
- ETR290 measurements
- Deep Packet Inspection
- Visual On screen Alarms
- SNMP
- Email
- SMS
- Syslog
- DVBMonitor integration
- Web enabled
- Grid view
- Traffic overview
- Stream viewer
- Multiple severities
- Templates
- Checks with multiple thresholds
- Groups
- Streams aliases
- Stream ordering
- Multiple users
- User restrictions

Input Support

Unicast, Multicast and Live OTT Streaming.


IPProbe
172.16.0.174:8080/#/GridView
IPProbe / Hilversum
System overview
Grid view
Overviews
Setup
Help
Grid view
Hilversum
Contribution
Sports
Adult
IPTV - main network
Transcoder 1
Al Jazeera Eng (239.50.32.2:1234)
CNN (239.50.32.1:1234)
Channel 5 (239.50.32.5:1234)
ITV HD (239.50.32.3:1234)
Transcoder 2
3sat (239.100.100.47:10000)
3sat (239.60.60.13:6010)
Animal Planet/TLC (239.90.90.26:10000)
Arrow Classic Rock (239.60.60.17:6010)
DKULTUR (239.100.100.50:2000)
DLF (239.99.99.51:2000)
DRadio DokDeb (239.99.99.53:2000)
DRadio Wissen (239.99.99.55:2000)
Discovery (239.90.90.30:10000)
Euronews (239.90.90.27:10000)
Genius Plus (239.60.60.14:6010)
KIKA (239.100.100.48:10000)
MTV (239.90.90.28:10000)
NGC (239.60.60.16:6010)
NPO 1 HD (239.100.100.44:10000)
NPO 1 HD (239.60.60.15:6010)
NPO 2 HD (239.100.100.45:10000)
ORF SPORT+ HD (239.99.99.57:2000)
ORF2St HD (239.100.100.42:10000)
R9 Oesterreich HD (239.99.99.56:2000)
RTL 4 (239.100.100.43:10000)
Service 13313 (239.60.60.20:6010)
ZDF (239.100.100.46:10000)
ZDFinfo (239.100.100.49:10000)
zdf.kultur (239.99.99.54:2000)
zdf_neo (239.99.99.52:2000)
Transcorder 3
beIN SPORTS 2 HD (239.20.21.151:1234)
Alarms & Logs
Disable polling
Export PDF
Set export range
Last polling time: 12:46:59 PM
Toggle Logfeeder
Date
Input
Service
Pid
Severity
Check
Message
Cleared
2015-08-27 12:47:06 IPTV - main network-239.99.99.53:.. QoS IP Stream - Pakket jitter IP jitter higher then 25.0ms (29.5ms)
2015-08-27 12:47:05 IPTV - main network-239.99.99.51:.. QoS IP Stream - Pakket jitter IP jitter higher then 25.0ms (28.8ms)
2015-08-27 12:47:04 IPTV - main network-239.99.99.55:.. QoS IP Stream - Pakket jitter IP jitter higher then 25.0ms (30.2ms)
2015-08-27 12:46:59 IPTV - main network-239.100.100.5.. TNC / Solved IP Stream - Pakket jitter IP jitter higher then 15.0ms (16.0ms) 2015-08-27 12:46:59
2015-08-27 12:46:59 IPTV - main network-239.100.100.5.. TNC / Solved IP Stream - Pakket jitter IP jitter higher then 15.0ms (15.7ms) 2015-08-27 12:46:59
2015-08-27 12:46:31 IPTV - main network-239.100.100.5.. TNC / Solved IP Stream - Pakket jitter IP jitter higher then 15.0ms (15.5ms) 2015-08-27 12:46:31
2015-08-27 12:46:31 IPTV - main network-239.99.99.53:.. PDA IP Stream - Pakket jitter IP jitter higher then 40.0ms (40.4ms)
2015-08-27 12:46:19 IPTV - main network-239.100.100.5.. TNC / Solved IP Stream - Pakket jitter IP jitter higher then 15.0ms (16.3ms) 2015-08-27 12:46:19
2015-08-27 12:46:11 IPTV - main network-239.50.32.3:1.. TNC / Solved IP Stream - Pakket jitter IP jitter higher then 15.0ms (22.3ms) 2015-08-27 12:46:11
2015-08-27 12:46:05 IPTV - main network-239.99.99.55:.. QoS IP Stream - Pakket jitter IP jitter higher then 25.0ms (33.1ms)
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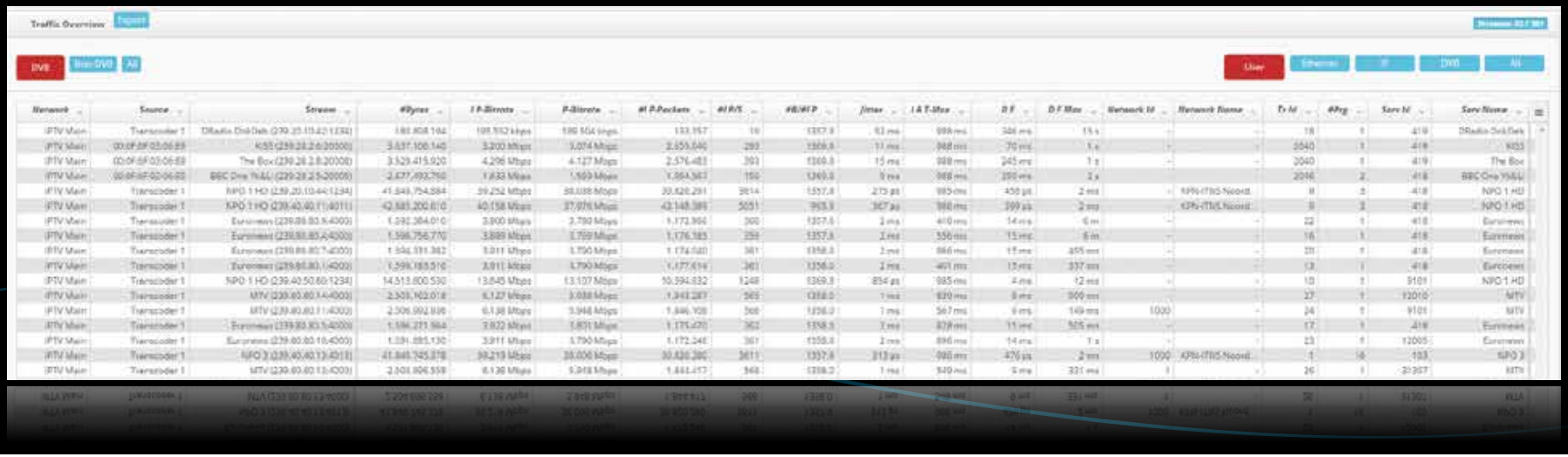


IP Measurements

Packet loss and packet delay variation are the most important characteristics in determining the quality of an Video IP network. Therefore this behavior should be monitored 24/7 for each stream.

Jitter

Measurement of variation in the Inter Arrival Time (IAT) of the data packets.
Irregular reception of packets will over and under-run receivers input buffers.

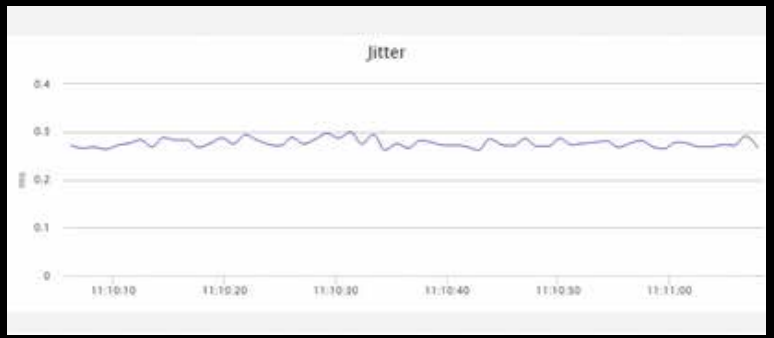
Delay Factor

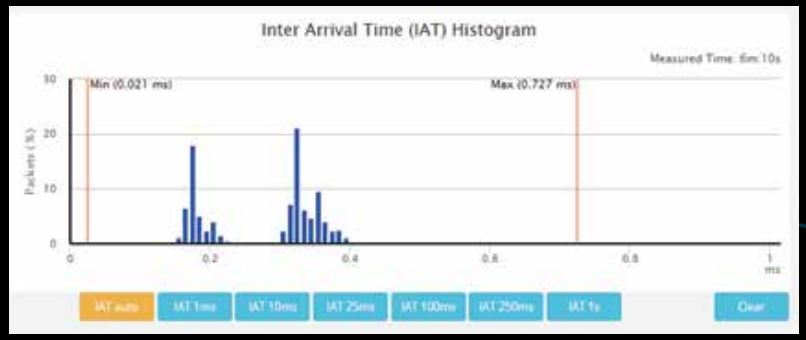
The Delay Factor is a time value indicating how many milliseconds worth of data the buffers must be able to contain in order to eliminate jitter.

Multiple viewers

The status and measured values of all streams can be viewed from different angles with much detail information:

- Grid view
- Traffic overview
- Stream viewer





- **Ordering**

Type	Description
IPProbe	IPProbe Software and Hardware, which enables IP and ETR290 measurements for all IP-Streams

Checks

All compliance checks are categorized in different templates.
Checks can have multiple thresholds and therefore trigger multiple severity levels.

Severities

Multiple severities can be used to signal the state of the following entities:

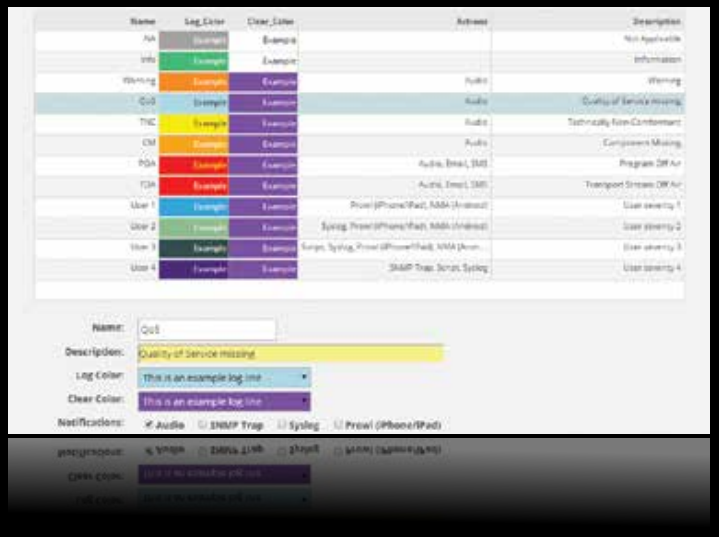
- Application
- Network
- Streams

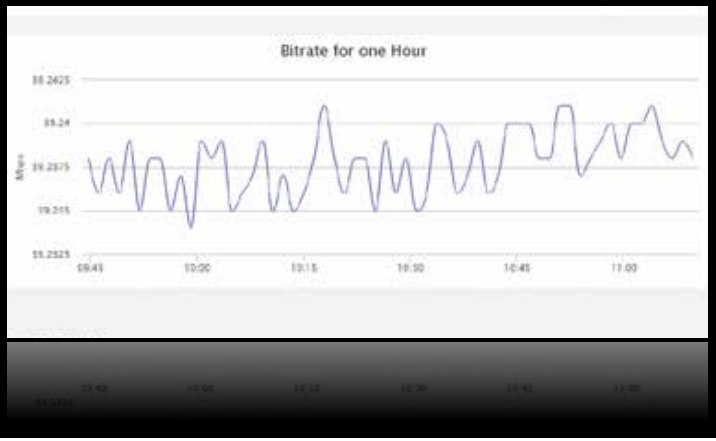
Notifications

- Visual On screen Alarms
- SNMP
- Email
- SMS
- Scrip
- Syslog
- Smartphone

Hardware

- 1HE 19”
- Double Power
- Dual 10G adapter
- Web enabled





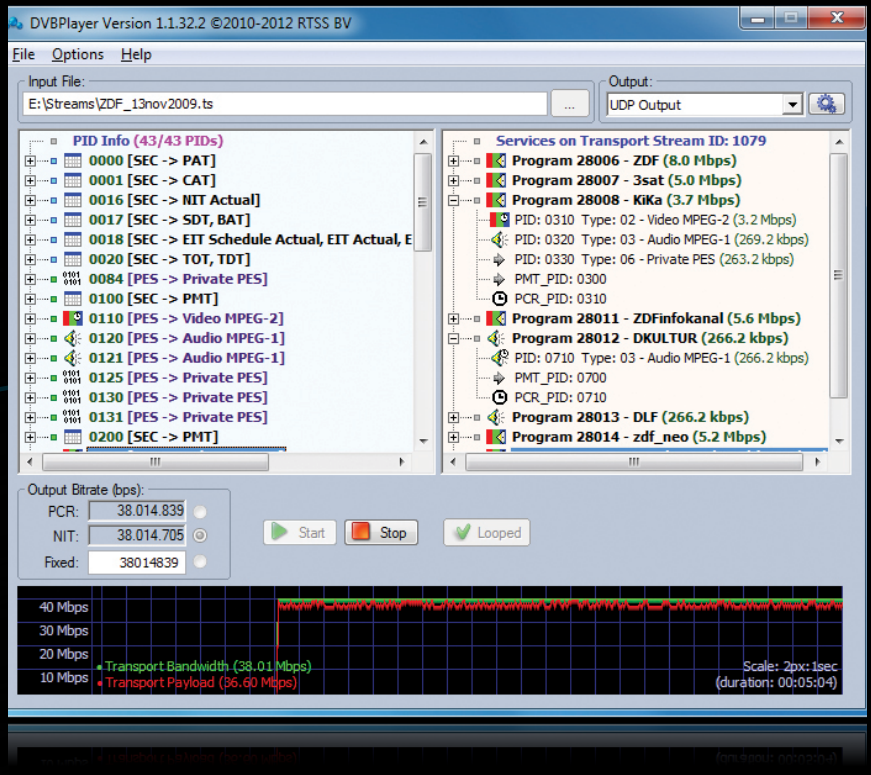
DVBPlayer

Easy playout application for transport stream files.

Output to File, UDP (Unicast or Multicast) or ASI.

Possibility to insert different errors:

- Corrupt TS packet
- CC Errors
- Extra bytes



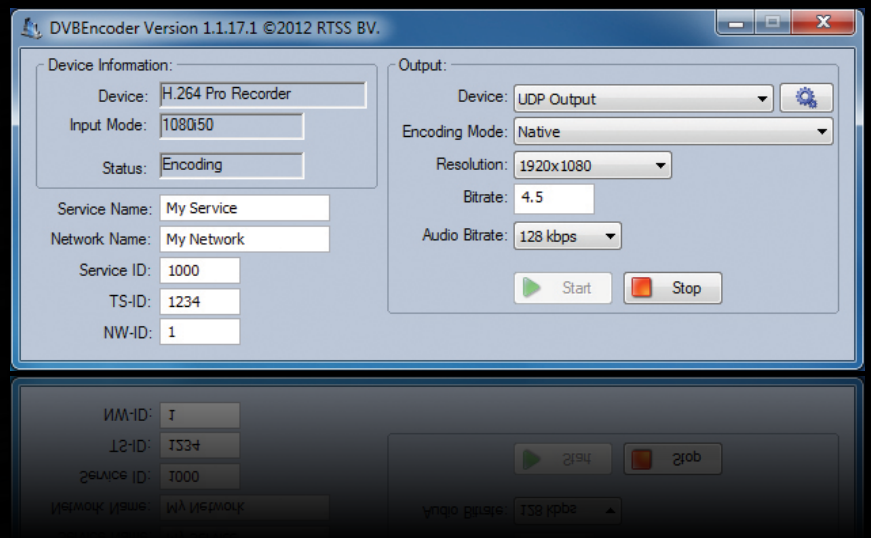
DVBEncoder

H.264 encoding and streaming of SDI or HDMI sources.

Applications, like DVBMosaic or DVBLoudness, can operate on remote locations.

Their displays can now easily be streamed to a central Network Operating Center (NOC).

Resolution and Bitrate can be fully customized.

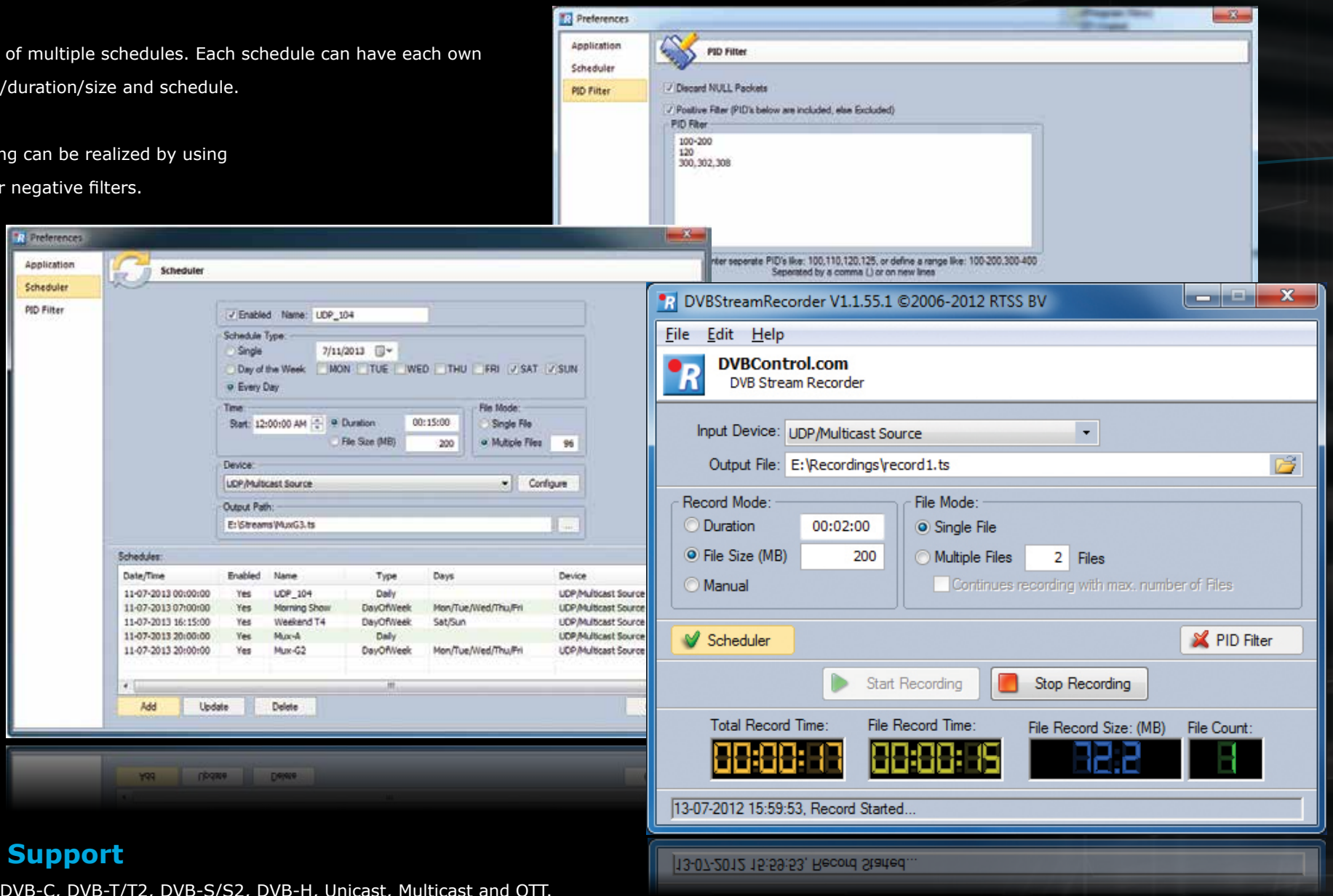


DVBStreamRecorder

Instant and scheduled Stream recording.

Possibility of multiple schedules. Each schedule can have each own start/stop/duration/size and schedule.

PID filtering can be realized by using positive or negative filters.



Input Support

File, ASI, DVB-C, DVB-T/T2, DVB-S/S2, DVB-H, Unicast, Multicast and OTT.

Client List


Alcatel·Lucent
ANVIA
AMC NETWORKS
ARD
arqiva
ARRIS
arte
CJ POWERCAST
CSA
Deutsche Telekom
DW Deutsche Welle
Digita
DIGITAL TV LABS
Discovery NETWORKS
eutelsat
12345 francetélévisions
freesat
GLOBECAST
harmonic
HBO
hr
kpn
kt skylife
MEDIASET
MSG
MTG
MultiChoice
POLSAT
primacom
PT
Rai Italia
reggefiber
rgb NETWORKS
rtl nederland
Sinergy
SK broadband
sky
SRG SSR
swisscom
tdf
technicolor
THAICOM
TRIAX
TSmedia
turf TV
TURNER
TVNZ


BAND
BBC
bce
broadcasting center europe
BLANKOM
CANAL+
CBC
CISCO
Disney
Dogan
DOLBY
e-VISION
ERICSSON
EASTERN SPACE SYSTEMS
EUROMEDIA
НТВ ПЛЮС
httv
ir.deta
itv
Kabel Deutschland
kabel bw
unitymedia
KAON
NBC
NDR
NPO
NRJ
O2
ors
PHILIPS
RADIO TELEVIZIJA SLOVENIJA
ROHDE&SCHWARZ
rtve
SABS
SATRO
SBS
SES
TechniSat
Telefónica
telenet
telenor
TELESPAZIO
TERACOM
TF1
upc
vodafone
VSE NET
Telekommunikation
yle
ZDF
Ziggo
ZON
TVCABO

Dealer Information

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sales@obv.tv

DVBControl