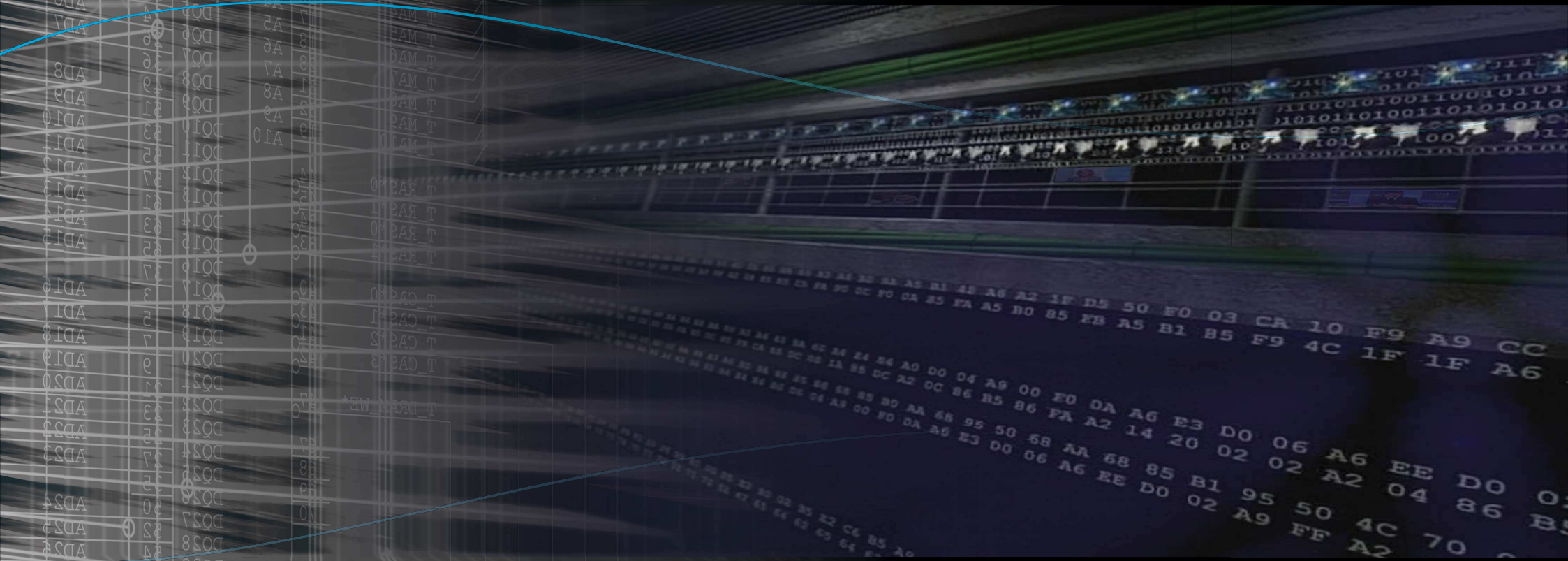
DVBControl

Catalogue 2011/2012

Intuitive tools that enables you to Control DVB!



- **DVBAnalyzer**
- **DVBMosaic**
- **DVBLoudness**
- **DVBMonitor**

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 compliance.

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
- Private Data
- Object/Data Carousels
- GOP structures
- PTS-DTS Timing
- Buffer behaviour
- Audio measurement
- Loudness measurement
- DVB-H analysing
- 3D
- Dolby® Digital (+)
- Dolby®-E
- Table overview
- Descriptor overview
- Hex Viewer
- Burst Viewer
- PCR Timing
- IP Traffic
- Logging
- Filtering
- Plugins
- Preferences
- EPG
- Multiple views

Input Support

File, DVB-ASI, DVB-S, DVB-H, DVB-C, DVB-T, Multicast, Unicast and Live Streaming.

DOLBY DIGITAL PLUS
DOLBY E

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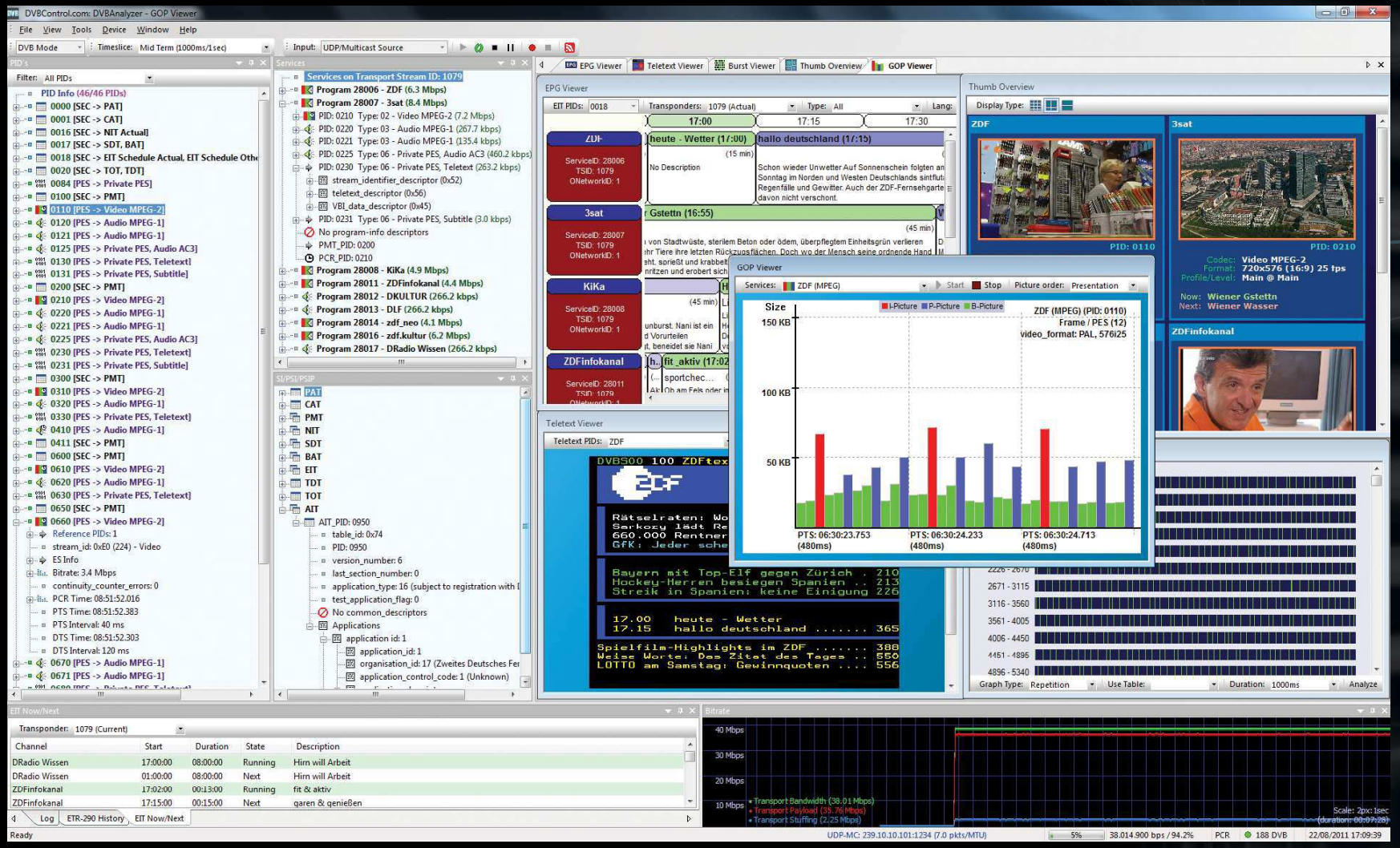
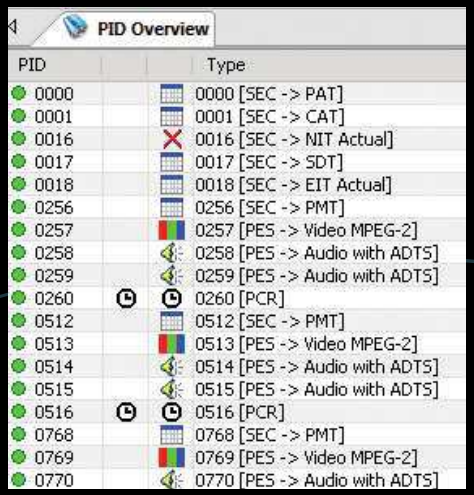
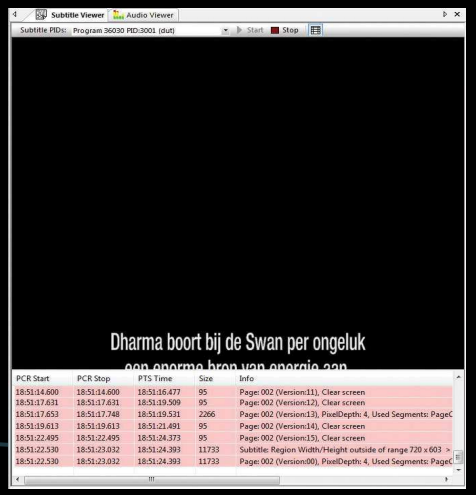

DVBControl.com: DVBAnalyzer - GOP Viewer
File View Tools Device Window Help
DVB Mode
Timeslice: Mid Term (1000ms/1sec)
Input: UDP/Multicast Source
EPG Viewer
Teletext Viewer
Burst Viewer
Thumb Overview
GOP Viewer
PID's
Filter: All PIDs
PID Info (46/46 PIDs)
0000 [SEC -> PAT]
0001 [SEC -> CAT]
0016 [SEC -> NIT Actual]
0017 [SEC -> SDT, BAT]
0018 [SEC -> EIT Schedule Actual, EIT Schedule Othe
0020 [SEC -> TOT, TDT]
0084 [PES -> Private PES]
0100 [SEC -> PMT]
0110 [PES -> Video MPEG-2]
0120 [PES -> Audio MPEG-1]
0121 [PES -> Audio MPEG-1]
0125 [PES -> Private PES, Audio AC3]
0130 [PES -> Private PES, Teletext]
0131 [PES -> Private PES, Subtitle]
0200 [SEC -> PMT]
0210 [PES -> Video MPEG-2]
0220 [PES -> Audio MPEG-1]
0221 [PES -> Audio MPEG-1]
0225 [PES -> Private PES, Audio AC3]
0230 [PES -> Private PES, Teletext]
0231 [PES -> Private PES, Subtitle]
0300 [SEC -> PMT]
0310 [PES -> Video MPEG-2]
0320 [PES -> Audio MPEG-1]
0330 [PES -> Private PES, Teletext]
0410 [PES -> Audio MPEG-1]
0411 [SEC -> PMT]
0600 [SEC -> PMT]
0610 [PES -> Video MPEG-2]
0620 [PES -> Audio MPEG-1]
0630 [PES -> Private PES, Teletext]
0650 [SEC -> PMT]
0660 [PES -> Video MPEG-2]
Reference PIDs: 1
stream_id: 0xE0 (224) - Video
ES Info
Bitrate: 3.4 Mbps
continuity_counter_errors: 0
PCR Time: 08:51:52.016
PTS Time: 08:51:52.383
PTS Interval: 40 ms
DTS Time: 08:51:52.303
DTS Interval: 120 ms
0670 [PES -> Audio MPEG-1]
0671 [PES -> Audio MPEG-1]
Services
Services on Transport Stream ID: 1079
Program 28006 - ZDF (6.3 Mbps)
Program 28007 - 3sat (8.4 Mbps)
PID: 0210 Type: 02 - Video MPEG-2 (7.2 Mbps)
PID: 0220 Type: 03 - Audio MPEG-1 (267.7 kbps)
PID: 0221 Type: 03 - Audio MPEG-1 (135.4 kbps)
PID: 0225 Type: 06 - Private PES, Audio AC3 (460.2 kbps)
PID: 0230 Type: 06 - Private PES, Teletext (263.2 kbps)
stream_identifier_descriptor (0x52)
teletext_descriptor (0x56)
VBI_data_descriptor (0x45)
PID: 0231 Type: 06 - Private PES, Subtitle (3.0 kbps)
No program-info descriptors
PMT_PID: 0200
PCR_PID: 0210
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)
SI/PSI/PSIP
PAT
CAT
PMT
NIT
SDT
BAT
EIT
TDT
TOT
AIT
AIT_PID: 0950
table_id: 0x74
PID: 0950
version_number: 6
last_section_number: 0
application_type: 16 (subject to registration with
test_application_flag: 0
No common_descriptors
Applications
application id: 1
application_id: 1
organisation_id: 17 (Zweites Deutsches Fer
application_control_code: 1 (Unknown)
EPG Viewer
EIT PIDs: 0018
Transponders: 1079 (Actual)
Type: All
Lang:
17:00
17:15
17:30
ZDF
ServiceID: 28006
TSID: 1079
ONetworkID: 1
heute - Wetter (17:00)
(15 min)
No Description
hallo deutschland (17:15)
3sat
ServiceID: 28007
TSID: 1079
ONetworkID: 1
Gstettn (16:55)
(45 min)
KiKa
ServiceID: 28008
TSID: 1079
ONetworkID: 1
ZDFinfokanal
ServiceID: 28011
TSID: 1079
fit_aktiv (17:02
sportchec...
Thumb Overview
Display Type:
ZDF
PID: 0110
3sat
PID: 0210
Codec: Video MPEG-2
Format: 720x576 (16:9) 25 fps
Profile/Level: Main @ Main
Now: Wiener Gstettn
Next: Wiener Wasser
ZDFinfokanal
GOP Viewer
Services: ZDF (MPEG)
Start
Stop
Picture order: Presentation
Size
I-Picture
P-Picture
B-Picture
ZDF (MPEG) (PID: 0110)
Frame / PES (12)
video_format: PAL, 576i25
150 KB
100 KB
50 KB
PTS: 06:30:23.753
(480ms)
PTS: 06:30:24.233
(480ms)
PTS: 06:30:24.713
(480ms)
Teletext Viewer
Teletext PIDs: ZDF
DVB500 100 ZDFtex
Rätselraten: Wo
Sarkozy lädt Re
660.000 Rentner
GfK: Jeder sche
Bayern mit Top-Elf gegen Zürich . 210
Hockey-Herren besiegen Spanien .. 213
Streik in Spanien: keine Einigung 226
17.00 heute - Wetter
17.15 hallo deutschland 365
Spielfilm-Highlights im ZDF 388
Weise Worte: Das Zitat des Tages .. 550
LOTTO am Samstag: Gewinnquoten 556
2226 - 2670
2671 - 3115
3116 - 3560
3561 - 4005
4006 - 4450
4451 - 4895
4896 - 5340
Graph Type: Repetition
Use Table:
Duration: 1000ms
Analyze
EIT Now/Next
Transponder: 1079 (Current)
Channel
Start
Duration
State
Description
DRadio Wissen 17:00:00 08:00:00 Running Hirn will Arbeit
DRadio Wissen 01:00:00 08:00:00 Next Hirn will Arbeit
ZDFinfokanal 17:02:00 00:13:00 Running fit & aktiv
ZDFinfokanal 17:15:00 00:15:00 Next garen & genießen
Log
ETR-290 History
EIT Now/Next
Bitrate
40 Mbps
30 Mbps
20 Mbps
10 Mbps
Transport Bandwidth (38.01 Mbps)
Transport Payload (38.76 Mbps)
Transport Stuffing (2.25 Mbps)
Scale: 2px: 1sec
(duration: 00:07:28)
Ready
UDP-MC: 239.10.10.101:1234 (7.0 pkts/MTU)
5%
38.014.900 bps / 94.2%
PCR
188 DVB
22/08/2011 17:09:39





PID Overview

PID-oriented overview of the analyzed Transport Stream, presenting all component details.

Media Viewer

Watch or listen to TV and Radio Services.

Overlayed Teletext, Subtitles and EPG now/next information.

Teletext Viewer

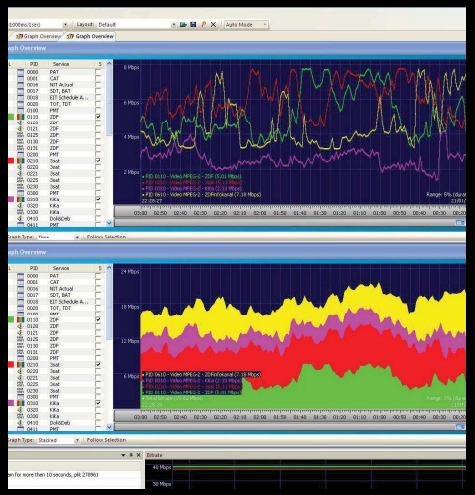
Teletext information available in the analyzed Transport Stream can be shown in different representations:

- Graphics
- Tree
- Grid
- Statistics

Subtitle Viewer

DVB Subtitles and their timing properties can be shown using the Subtitle Viewer window.

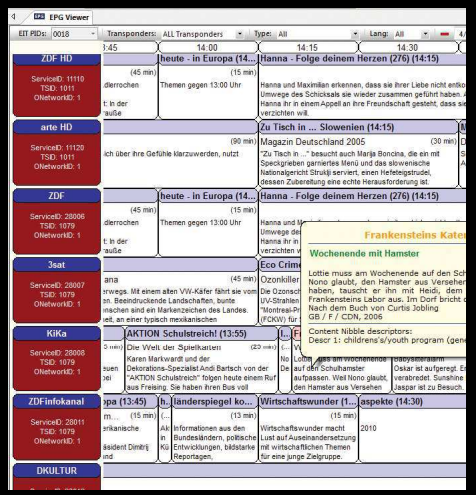
- Details
- Log



Bitrate Overview

Visual overviews of PID bitrates and comparisons are possible in four representations:

- Bar
- Time
- Stacked
- Pie

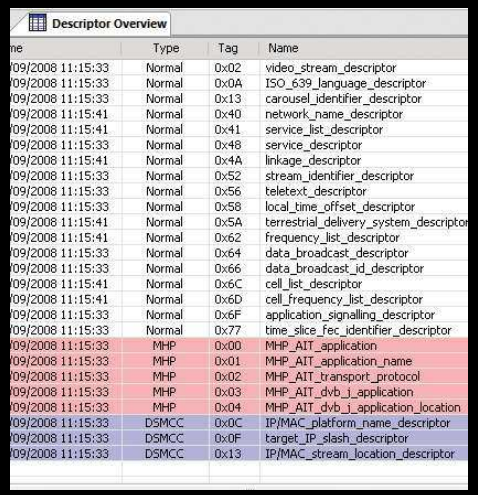


EPG

A visual grid representation of EPG events are displayed in the EPG Viewer window.

EPG data can be shown in different representations:

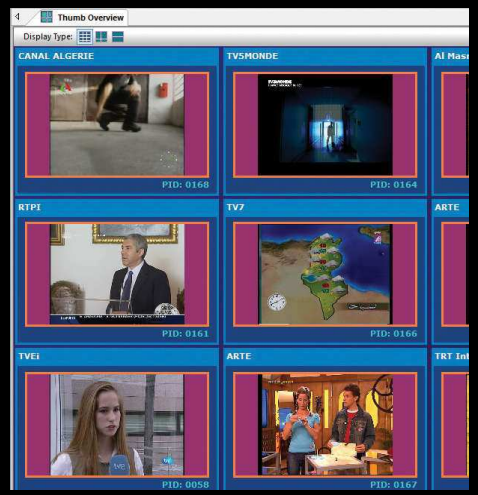
- Grid
- Details



ETR-290

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

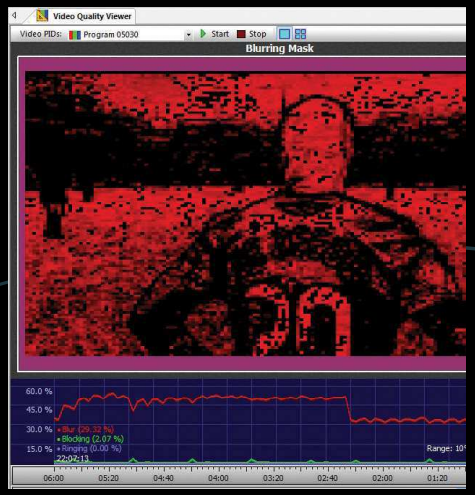
- ETR-290 Viewer
- ETR-290 History



Thumb Overview

Three different Thumb Overviews can be shown:

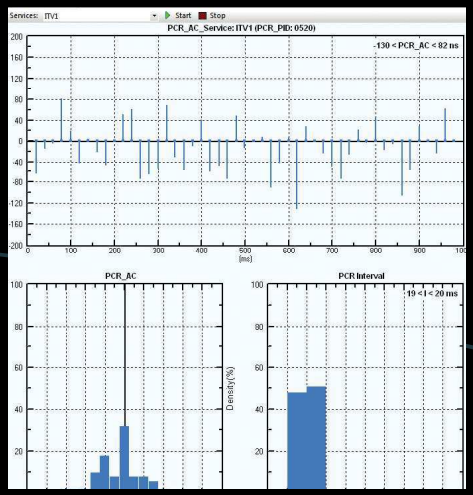
- Thumbnails Only
- Brief Details
- Full Details



Video Quality

Live video quality measurements, using thresholds:

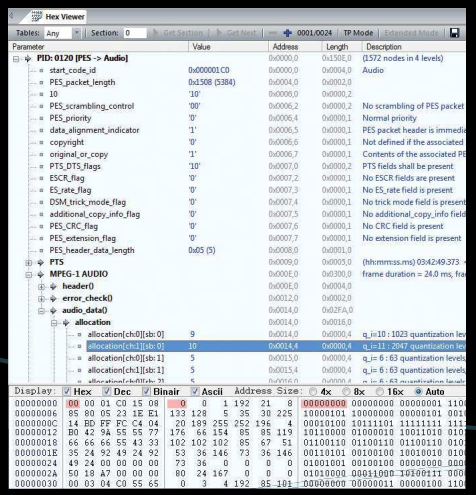
- Blocking
- Blurring
- Ringing



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

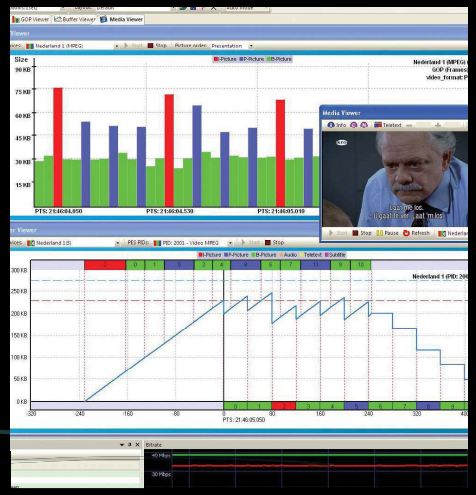


Hex Viewer

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

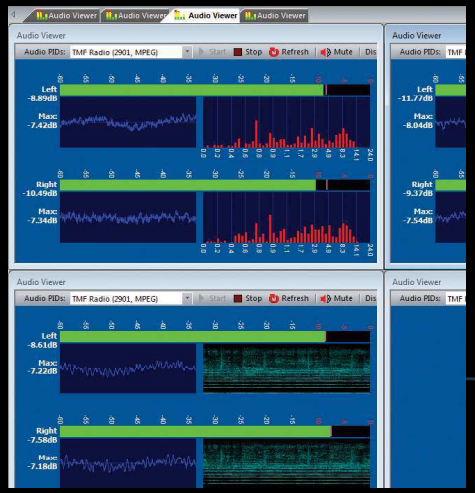
Implemented for:

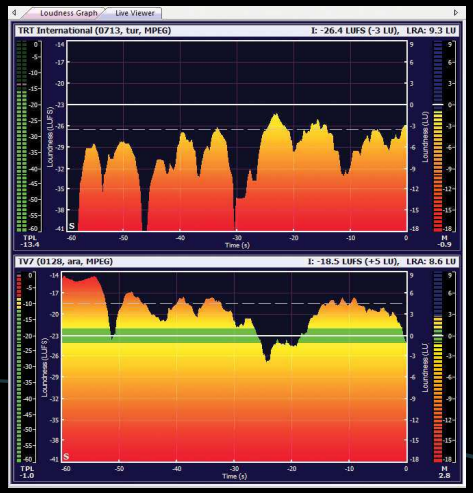
- Sections
- MIP (DVB-T)
- TS-packets



GOP and Buffer Viewer

Graphical presentation of the picture order and buffer behavior in GOP (Group of Pictures) structures of MPEG-2 or AVC 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 standard and EBU R-128 recommendations.

Different views can be chosen to get maximum information:

- Live Viewer
- Loudness Graph

Ordering

Features	Base sofware	Option	Option	Option	Option	Option	Option	Option	Option	Option
	DA100	*TP*	*OD*	*AV*	*VQ*	*3D*	*AA*	*DD*	*DE*	*DH*
PID structures	●									
Service structures	●									
SI/PSI/PSIP structures	●									
ET290 compliancy	●									
Bitrates	●									
PID Overview	●									
Grid Overview	●									
Bitrate Overview	●									
Thumb Overview	●									
Table Overview	●									
Description Overview	●									
Media Viewer	●									
PCR Viewer	●									
EPG Viewer	●									
Teletext Viewer		●								
Subtitle Viewer		●								
Hex viewer		●								
Burst Viewer			●							
DSMCC Viewer			●							
IP Traffic Viewer			●							
Multicast Output			●							
PTS-DTS Viewer				●						
GOP Viewer				●						
Buffer Viewer				●						
Video Quality Analyzing					●					
3D Media 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 Video, MPEG 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 signalling
- Audio alerts
- SNMP traps
- Mail alerts
- DVBMonitor connectivity
- Round Robin
- MPEG-2 / AVC (H264) Video (SD/HD)
- Audio (MPEG/Dolby®)
- Teletext
- DVB-subtitles
- Clocks
- Images
- Preferences

Input Support

File, DVB-ASI, DVB-S, DVB-H, DVB-C, DVB-T, Multicast, Unicast and Live Streaming.

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AMSTERDAM

16:09:20

ZDF

ZDFinfokanal

LONDON

15:09:20

3sat

zdf_neo

HONG KONG

22:09:20

KiKa

ZDFtheaterkanal

SYDNEY

00:09:20 AM

L1MBURG

TV Rijnmond

TV Noord-Holland

Omrop Fryslan Televisie

TV Noord

TV Drenthe

TV Oost

TV Gelderland

Omroep Zeeland Televisie

Omroep Brabant Televisie

NICK AUSTRIA

MTV AUSTRIA

RTL Austria

VOX Austria

RTL2 Austria

Super RTL A

Eurosport

HSE24 extra

LT1-OOE

DKULTUR

DLF

DRadio Wissen

OE1

OE2 W

OE2 N

OE2 B

OE2 O

OE2 S

OE2 V

OE2 St

OE2 K

L1MBURG Radio

Radio Rijnmond

Radio Noord-Holland

Omrop Fryslan Radio

Radio Noord

Radio Drenthe

Radio Oost

Radio Gelderland

Omroep Zeeland Radio

Omroep Brabant Radio

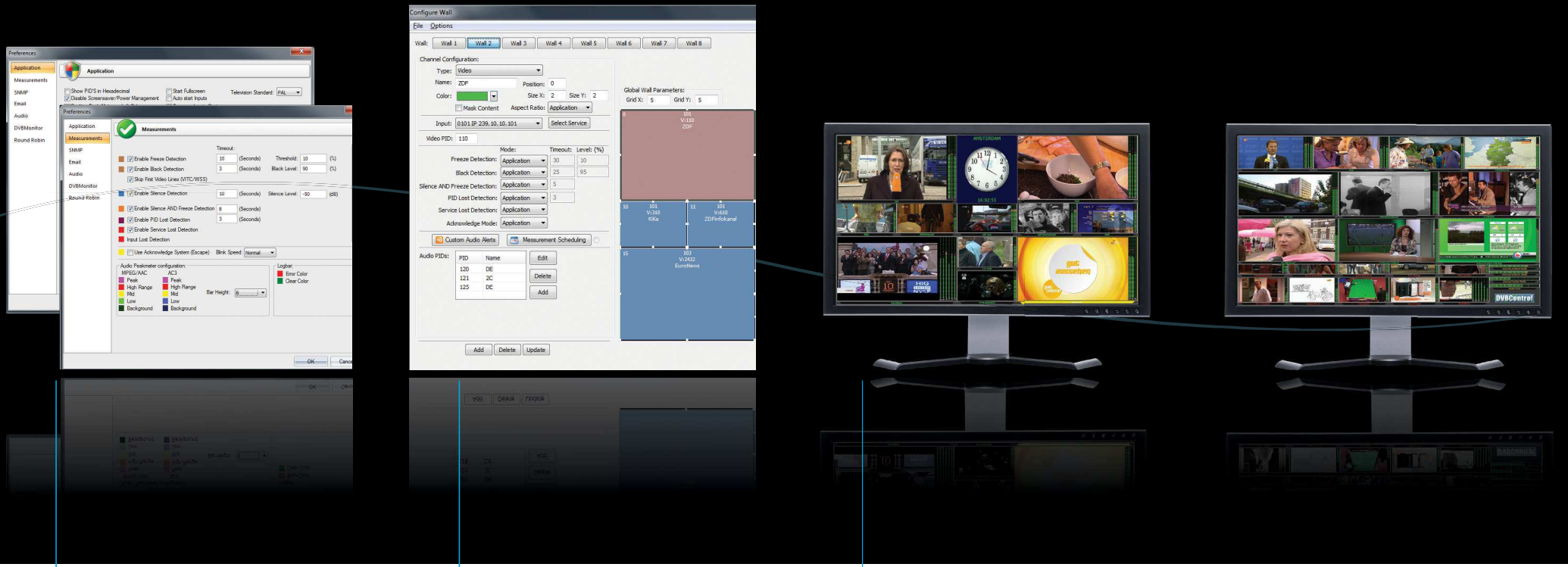
EuroNews

TW1

GoTV

ServusTV

DVBControl



Preferences

Customized preferences have impact on behavior and are categorized:

- Application
- Measurements
- SNMP
- Email
- Audio
- DVBMonitor
- Round Robin

Wall configuration

Up to 8 walls can be configured with different Service components:

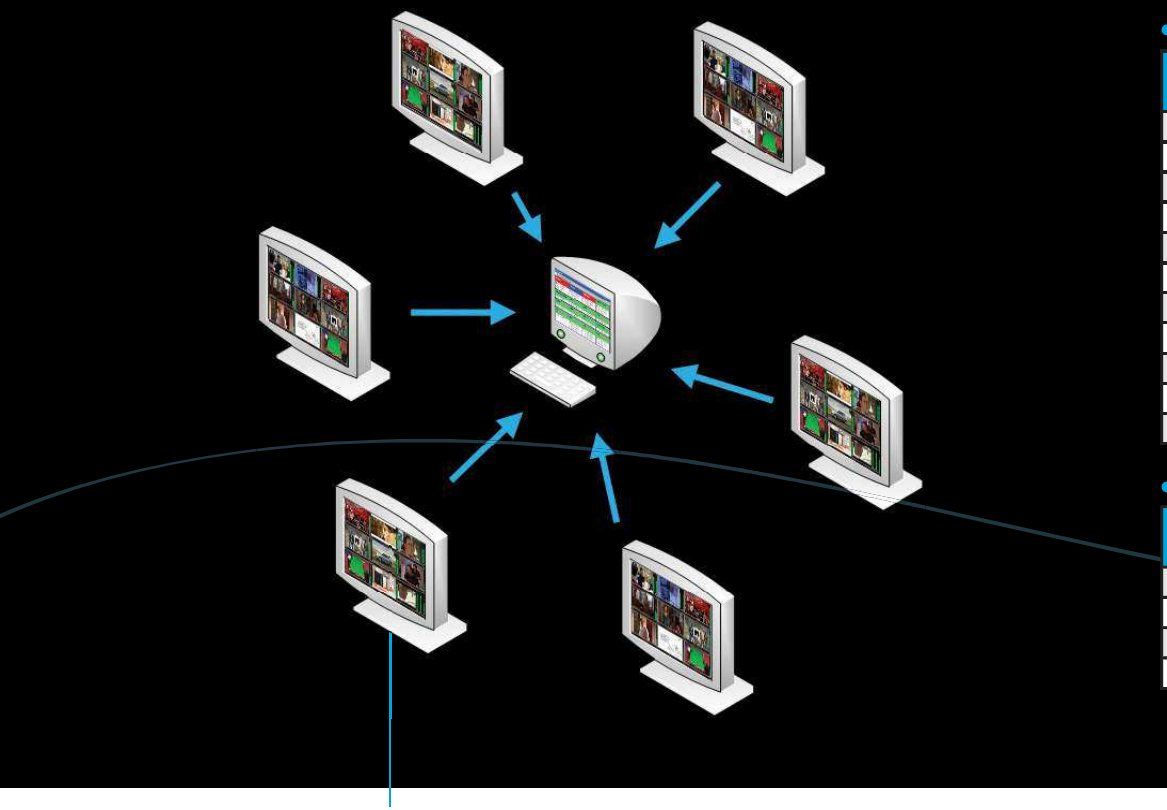
- Video (SD/HD)
- Audio
- DVB-Subtitles (SD/HD)
- Teletext (Subtitles, Newsflash, Interrupted, Subpages)
- Images
- Clocks

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.



- **Ordering**

Typeno.	Description
DC10	DVBMosaic base software license, which enables 10 License Points
DC20	DVBMosaic base software license, which enables 20 License Points
DC30	DVBMosaic base software license, which enables 30 License Points
DC40	DVBMosaic base software license, which enables 40 License Points
DC50	DVBMosaic base software license, which enables 50 License Points
DC60	DVBMosaic base software license, which enables 60 License Points
DC70	DVBMosaic base software license, which enables 70 License Points
DC80	DVBMosaic base software license, which enables 80 License Points
DD5	Option which enables 5 Dolby® Digital Plus decoders
DE5	Option which enables 5 Dolby®-E decoders
RR	Option which enables Round Robin between Walls

- **Benchmark**

CPU	SD MPEG-2	SD AVC/H264	HD MPEG-2	HD AVC/H264
i7-930	40	25	10	5
i7-980	70	50	20	9
Dual X5550	75	55	22	10
Dual X5675	110	75	30	15

Signalling Types

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

- On-screen visualization
- Audio alerts
- SNMP traps
- Email alerts
- 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.

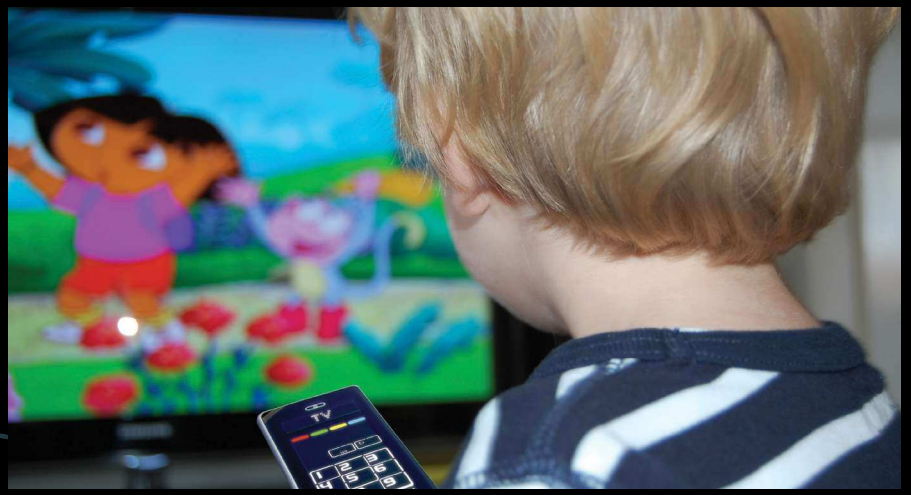
License points calculation

- 1 SD TV Service = 1 License Point
- 1 HD TV Service = 2 License Points
- 1 LD TV Service = 0,5 License Point
- Each TV Service has 1 Video and 1 Audio component
- 1 Teletext or DVB-Subtitle = 0,5 License Point
- 1 extra Audio = 0,2 License Point
- For Dolby® Digital decoding, also Dolby® Digital (DD) options are needed

DVBLoudness

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.

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)
- MPEG, AAC and Dolby® audio
- Control of Audio Level Control (ALC) equipment
- Visual Onscreen Alarms
- SNMP
- DVBMonitor integration
- Loss of Input detection
- Loss of Service Component detection
- Silence detection

Input Support

File, DVB-ASI, DVB-S, DVB-H, DVB-C, DVB-T, Multicast, Unicast and Live Streaming.

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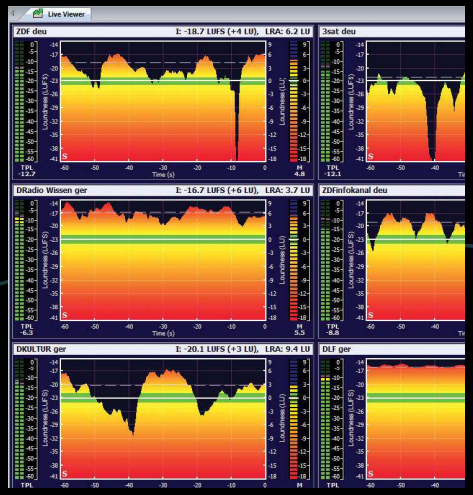
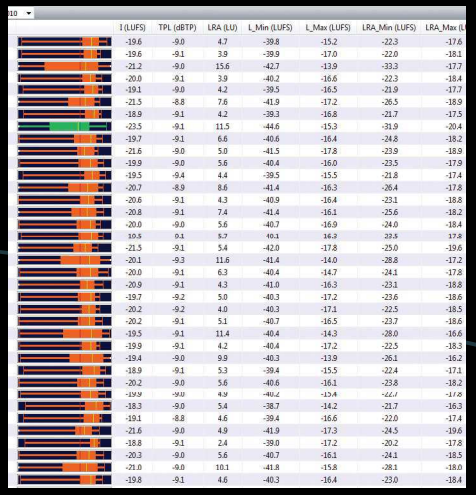
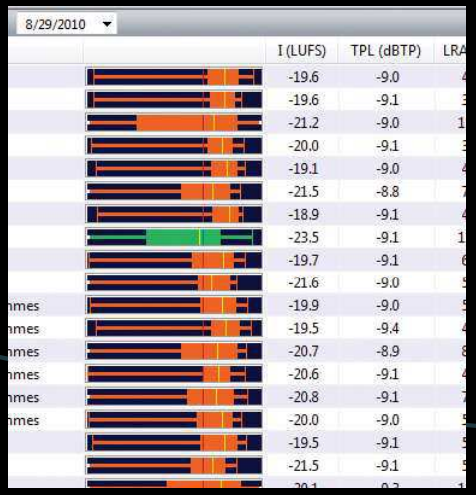
DVBControl.com: DVBLoudness - [Live Viewer]
Home
Inputs
Log View
Windows
Loudness Graph
Live Viewer
Manual Recorder
Program Report
Station Report
Save Report
Preferences
Add Input
Delete Input
Configure Input
Start All Inputs
Stop All Inputs
Scale: EBU +9 (Basic)
Unit: LUFS
Window
Tools
Inputs
Scale and Range
Style
Help
Inputs
Inputs (3)
1000 ZDF TS UDP (38.0 Mbps)
Program 28006 - ZDF
PID: 0120 Type: 03 - Audio MPEG-1
PID: 0121 Type: 03 - Audio MPEG-1
Program 28007 - 3sat
PID: 0220 Type: 03 - Audio MPEG-1
PID: 0221 Type: 03 - Audio MPEG-1
PID: 0225 Type: 06 - Private PES, Audio AC3
Program 28008 - KiKa
PID: 0320 Type: 03 - Audio MPEG-1
Program 28011 - ZDFinfokanal
PID: 0620 Type: 03 - Audio MPEG-1
Program 28012 - DKULTUR
PID: 0710 Type: 03 - Audio MPEG-1
Program 28013 - DLF
PID: 0810 Type: 03 - Audio MPEG-1
Program 28014 - zdf_neo
PID: 0670 Type: 03 - Audio MPEG-1
PID: 0671 Type: 03 - Audio MPEG-1
Program 28016 - ZDFtheaterkanal
PID: 1120 Type: 03 - Audio MPEG-1
PID: 1121 Type: 03 - Audio MPEG-1
Program 28017 - DRadio Wissen
PID: 0410 Type: 03 - Audio MPEG-1
1001 UDP_239.10.10.103 (38.0 Mbps)
Program 28640 - NICK AUSTRIA
PID: 0661 Type: 04 - Audio MPEG-2
Program 28641 - MTV AUSTRIA
PID: 0662 Type: 04 - Audio MPEG-2
Program 28800 - RTL Austria
PID: 0202 Type: 03 - Audio MPEG-1
Program 28805 - VOX Austria
Program 28810 - RTL2 Austria
PID: 0402 Type: 03 - Audio MPEG-1
Program 28815 - Super RTL A
PID: 0502 Type: 03 - Audio MPEG-1
Program 31200 - Eurosport
PID: 0103 Type: 04 - Audio MPEG-2
Program 31201 - Guide Plus+
Program 31210 - HSE24 EXTRA
PID: 0660 Type: 04 - Audio MPEG-2
Program 31220 - EuroNews
PID: 2433 Type: 03 - Audio MPEG-1
PID: 2434 Type: 03 - Audio MPEG-1
PID: 2435 Type: 03 - Audio MPEG-1
PID: 2436 Type: 03 - Audio MPEG-1
PID: 2437 Type: 03 - Audio MPEG-1
PID: 2438 Type: 03 - Audio MPEG-1
PID: 2439 Type: 03 - Audio MPEG-1
PID: 2440 Type: 03 - Audio MPEG-1
PID: 2441 Type: 03 - Audio MPEG-1
1002 Input (53.8 Mbps)
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
Loudness (LU)
Loudness (LUFS)
Time (s)
TPL -10.0
M -21.3
TPL -9.5
M -17.6
TPL -16.1
M -26.3
TPL -5.8
M -17.0
Log
0 Errors
110 Messages
Date/Time
ID
Input
PID
Service
Message
30/08/2010 15:00:00 Report Hourly_20100830_14 Exported
30/08/2010 15:00:00 1001 UDP_239.10.10.103 0202 RTL Austria ger Record Finished: Mitten im Leben! -> I=-18.1 LUFS, LRA=6.6 LU, TPL: -6.4 dBTP
30/08/2010 15:00:00 1001 UDP_239.10.10.103 0202 RTL Austria ger Record Started: Verdachtsfälle
30/08/2010 15:00:02 1000 ZDF TS UDP 0810 DLF ger Record Finished: Campus & Karriere -> I=-17.2 LUFS, LRA=6.5 LU, TPL: -6.1 dBTP
30/08/2010 15:00:02 1000 ZDF TS UDP 0810 DLF ger Record Started: Nachrichten
CPU
Active Inputs: 3/3
Active Services: 34/36
Active DD Services: 3/4
Licenses Used: 36/100 Services, 4/15 DD Licenses
Selected Service: None







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

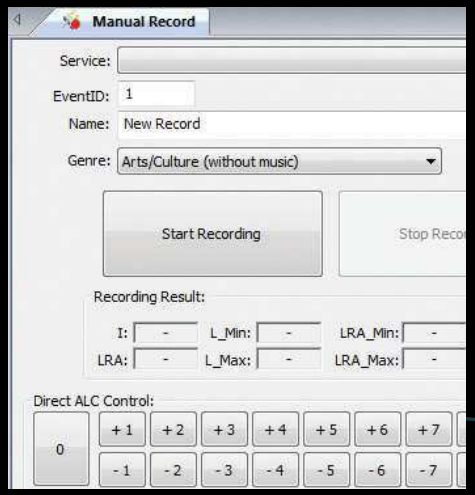
Service Report

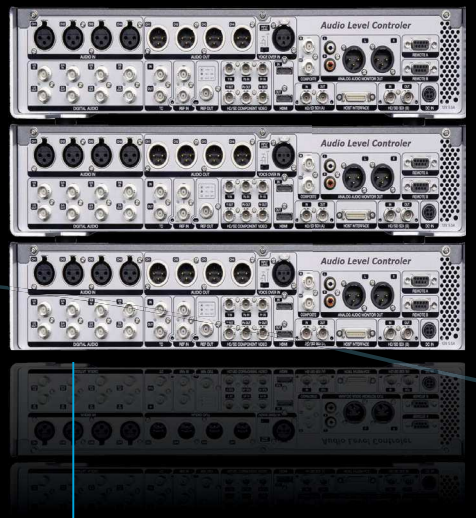
- Daily report of all services
- Integrated Loudness value
- Loudness Range
- True Peak Level
- AC-3 Dialnorm

Loudness graph

Loudness analyzing is continuously done for 3 different time intervals:

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





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.

- **Ordering**

Typeno.	Description
DL25	DVBLoudness base software license, which enables 25 Loudness measurements
DL50	DVBLoudness base software license, which enables 50 Loudness measurements
DL75	DVBLoudness base software license, which enables 75 Loudness measurements
DL100	DVBLoudness base software license, which enables 100 Loudness measurements
DL150	DVBLoudness base software license, which enables 150 Loudness measurements
DL200	DVBLoudness base software license, which enables 200 Loudness measurements
DL250	DVBLoudness base software license, which enables 250 Loudness measurements
DD5	Option which enables 5 Dolby® Digital Plus decoders
DE5	Option which enables 5 Dolby®-E decoders
ALC	Option which enables control on an Audio Level Control unit

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.

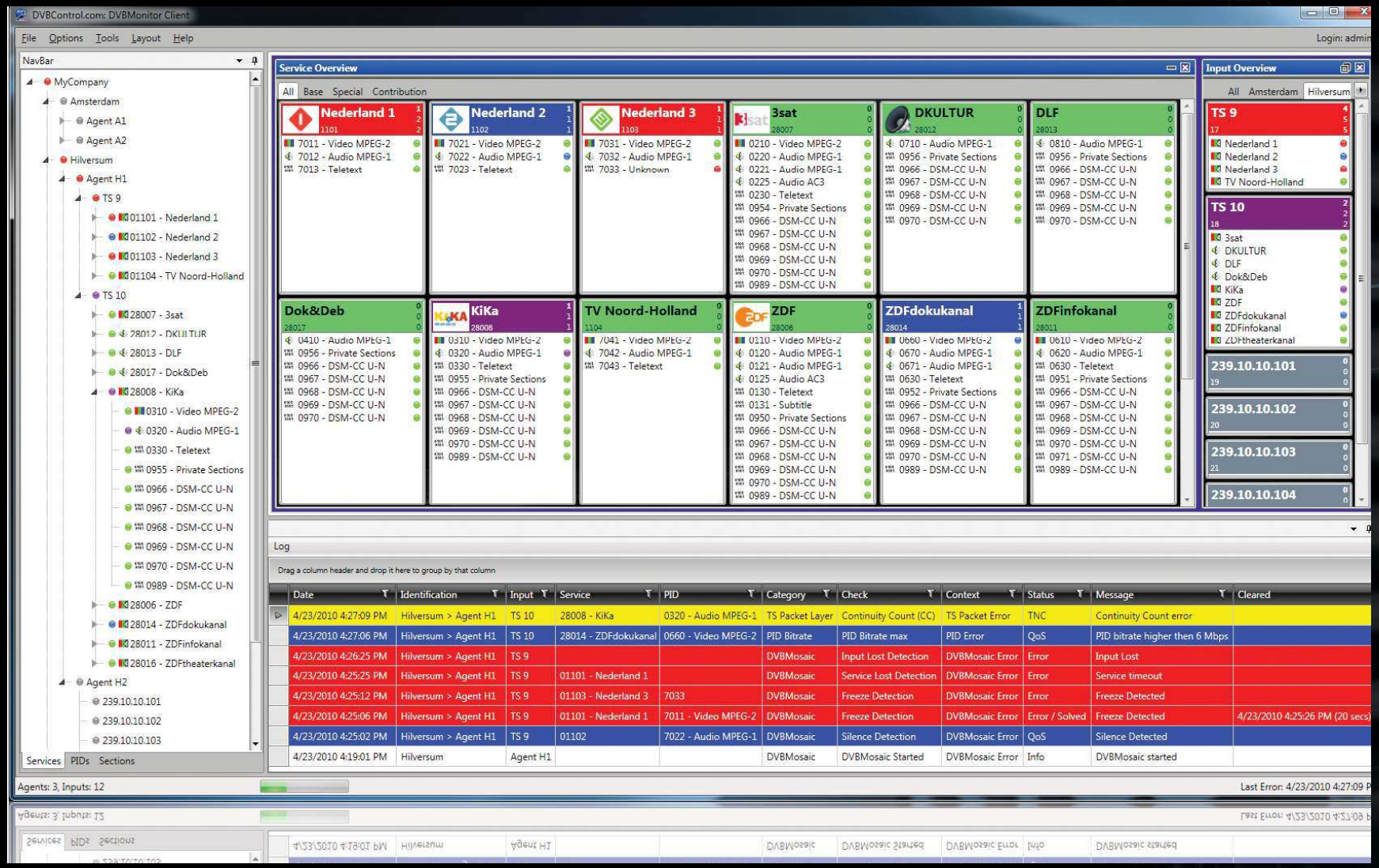
Features

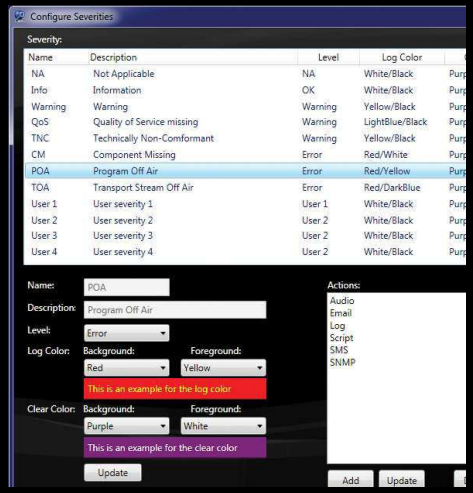
- Multiple Transport Streams
- Multiple Configurable Compliancy Checks
- Multiple Templates
- Multiple Notifications
- Multiple Organizations
- Multiple Sites
- Multiple Users

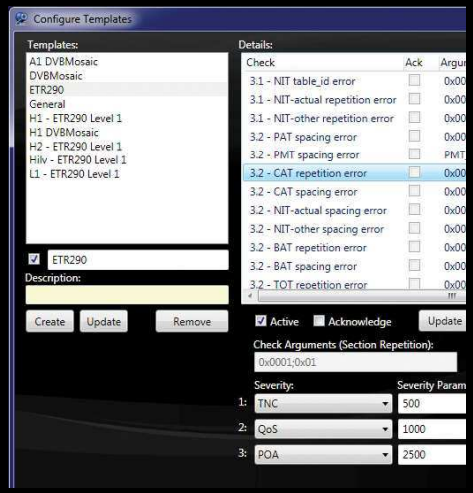
Input Support

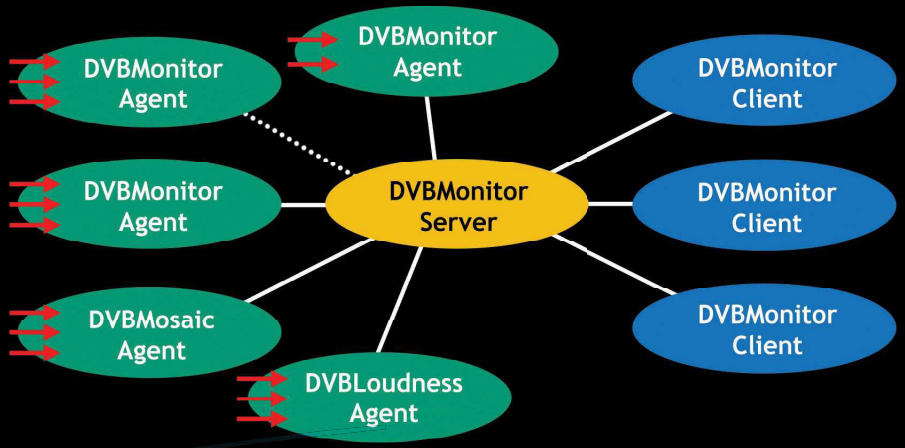
File, DVB-ASI, DVB-S, DVB-H, DVB-C, DVB-T, Multicast, Unicast and Live Streaming.

DOLBY DIGITAL PLUS
DOLBY E
Dolby and the double-D symbol are registered trademarks of Dolby Laboratories.


DVBControl.com: DVBMonitor Client
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
1101
7011 - Video MPEG-2
7012 - Audio MPEG-1
7013 - Teletext
Nederland 2
1102
7021 - Video MPEG-2
7022 - Audio MPEG-1
7023 - Teletext
Nederland 3
1103
7031 - Video MPEG-2
7032 - Audio MPEG-1
7033 - Unknown
3sat
28007
0210 - Video MPEG-2
0220 - Audio MPEG-1
0221 - Audio MPEG-1
0225 - Audio AC3
0230 - Teletext
0954 - Private Sections
DKULTUR
28012
0710 - Audio MPEG-1
0956 - Private Sections
DLF
28013
0810 - Audio MPEG-1
0956 - Private Sections
Dok&Deb
28017
0410 - Audio MPEG-1
0956 - Private Sections
KiKa
28008
0310 - Video MPEG-2
0320 - Audio MPEG-1
0330 - Teletext
0955 - Private Sections
TV Noord-Holland
1104
7041 - Video MPEG-2
7042 - Audio MPEG-1
7043 - Teletext
ZDF
28006
0110 - Video MPEG-2
0120 - Audio MPEG-1
0121 - Audio MPEG-1
0125 - Audio AC3
0130 - Teletext
0131 - Subtitle
0950 - Private Sections
ZDFdokukanal
28014
0660 - Video MPEG-2
0670 - Audio MPEG-1
0671 - Audio MPEG-1
0630 - Teletext
0952 - Private Sections
ZDFinfokanal
28011
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 0660 - 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

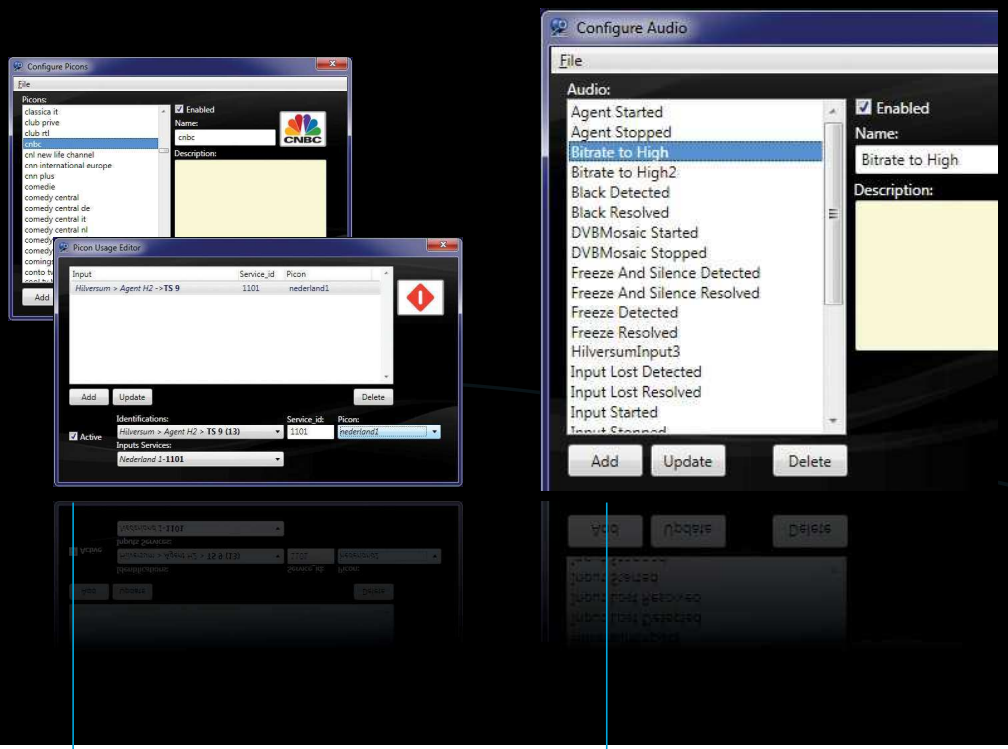
Identifications

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

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

Organisations 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:

- Inputs
- Services
- Rise and dissolve

- **Ordering**

Typeno.	Description
	DVBMonitorServer (Server)
DMS	DVBMonitorServer base software license. Unlimited use of DVBMonitorClient end-user software
	DVBMonitorAgent base Compliance Checks (ETR290, Transport Stream, SI/PSI/PSIP, Timing, Bitrate, Service), Structures and Measurements (Bitrate)
DM5	DVBMonitorAgent base software license, which enables monitoring for 5 Base Monitor License Points
DM10	DVBMonitorAgent base software license, which enables monitoring for 10 Base Monitor License Points
DM40	DVBMonitorAgent base software license, which enables monitoring for 40 Base Monitor License Points
DM100	DVBMonitorAgent base software license, which enables monitoring for 100 Base Monitor License Points
DM-RR	Option which enables Round Robin between different TS inputs
	DVBMonitorAgent Video Compliance Checks (ES settings: MPEG-2/AVC, GOP/ Picture structures, Quality: Black, Freeze, Blocking, Blurring, Ringing) and Thumbs
VC5	DVBMonitorAgent base software license, which enables monitoring for 5 Base Monitor License Points
VC10	DVBMonitorAgent base software license, which enables monitoring for 10 Base Monitor License Points
VC40	DVBMonitorAgent base software license, which enables monitoring for 40 Base Monitor License Points
VC100	DVBMonitorAgent base software license, which enables monitoring for 100 Base Monitor License Points
VC-RR	Option which enables Round Robin between different video components
	DVBMonitorAgent Audio Compiance Checks (ES settings: MPEG-1, Quality: Silence, Level, Loudness)
AC5	Audio option, which enables audio compliance monitoring for 5 audio components
AC10	Audio option, which enables audio compliance monitoring for 10 audio components
AC40	Audio option, which enables audio compliance monitoring for 40 audio components
AC100	Audio option, which enables audio compliance monitoring for 100 audio components
AC-RR	Option which enables Round Robin between different audio components
DD5	Option which enables 5 Dolby® Digital Plus decoders
DE5	Option which enables 5 Dolby®-E decoders
	DVBMonitorAgent Data Compliance Checks (Private PES Data: Teletext/DVB-Subtitles, Object/Data Carousel)
DC5	Data option, which enables data compliance monitoring for 5 Data components
DC10	Data option, which enables data compliance monitoring for 10 Data components
DC40	Data option, which enables data compliance monitoring for 40 Data components
DC100	Data option, which enables data compliance monitoring for 100 Data components
DC-RR	Option which enables Round Robin between different data components
	DVBMonitorAgent Frontend Compliance Checks (DVB-S/S2/T/T2/C: S/N, MER, BER)
FC5	Frontend option, which enables frontend compliance monitoring for 5 inputs
FC10	Frontend option, which enables frontend compliance monitoring for 10 inputs
FC-RR	Option which enables Round Robin between different front-end units

Dealer Information

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www.DVBControl.com

Real-Time Software Solutions

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