

EIT/SI Analysis and Display System



MIT-*xperts*

iAnalyzer EIT

iAnalyzer EIT/SI Analysis and Display System

Your EIT at a Glance

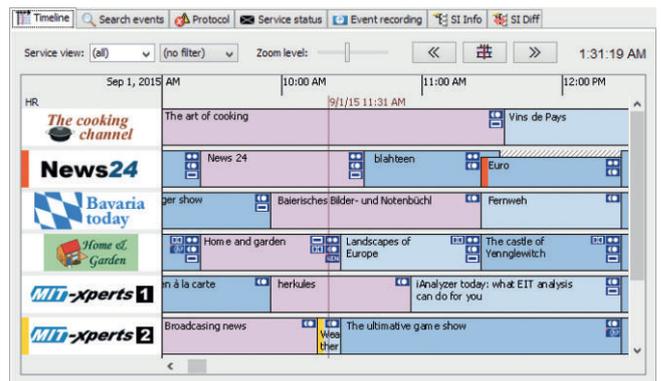
Regular transport stream analyzers do a great job when it comes to analyzing transport stream descriptors. But when analyzing the EIT, these systems do not help. The EIT is so complex and contains so much information that a regular tree-based descriptor display model fails.

iAnalyzer helps you analyze the EIT by using models that are specialized in handling EIT information, and it provides a deep insight into your event schedule. iAnalyzer is used by technicians for its EIT analysis capabilities and by non-technical personnel for its comprehensive event views.

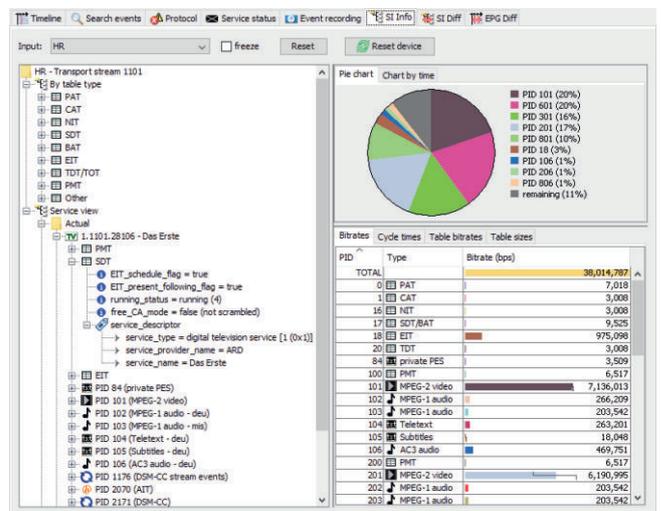
An Intuitive GUI

iAnalyzer's GUI is intuitive and powerful, yet easy to learn. The "Timeline" view shows all events on a timeline, just like an EPG grid. This view is not only highly customizable with service logos, service lists, zooming, and other event display options - it is also optimized for EIT analysis and depicts erroneous events (e.g. overlapping events).

The "Search events" view displays all events in a table and allows various filter and sorting options. The "Protocol" view displays the result of the EIT analysis. The "Status" view shows video snapshots, audio/video elementary stream information, and present event information for all configured services.



Timeline view



SI/PSI tree view with bitrate analysis

iAnalyzer Networking

iAnalyzer supports multiple ASI, IP or modulated inputs and is able to combine the different input EITs into a single user interface. Multiple clients can connect to a single iAnalyzer server which enables you to use the system from anywhere. Read/write permissions, combined with passwords, also allow you to grant access to inexperienced staff members.

Though the GUI may be installed on clients, iAnalyzer can also be accessed using a regular Java enabled web browser or by using the MIT-xperts Applauncher if no Java installation is desired.



Service Status view

The complete event detail with all decoded descriptors is shown when double-clicking on any event displayed by iAnalyzer. Plugins and external descriptor definitions allow you to add support for your special SI descriptors.



Sophisticated Analysis Options

iAnalyzer not only displays your EIT, it also analyzes all input streams automatically. The comprehensive analyzing algorithms can detect the following problems:

- Full ETS TR 101 290 analysis for EIT (e.g. packet errors, section errors, input signal problems, etc.)
- Compare SI/PSI data of two inputs
- EIT table timeout detection with configurable values
- Missing EIT present / following or scheduled on service
- Gaps / Overlapping scheduled events
- Present event not matching live broadcast (e.g. different content descriptors or component tags)
- Missing parental rating or PDC information
- Present event not matching current time
- Event ID of EIT present or following event not found in scheduled events
- Time range of EIT present or following event not identical to the corresponding scheduled event
- Events of linked services differing (linked services are services that should have the same events during a certain time)
- EIT packaging problems (wrong order, event in wrong segment, section changes without version increment, ...)

... and many more

Protocol view

Date/Time	Type	Input	Service	Event ID	Message
10/20/16 1:34:18 PM	Warning	HR			PID 600 Section version jump (table_id Ox2, extent
10/20/16 1:31:30 PM	Warning	HR	WDR Köln [1.1101.28111]	28287	EIT scheduled has invalid descriptors (Dx4: 12%
10/20/16 1:31:00 PM	Error	HR	BR Fernsehen Nord [1.111...	49329	EIT SCHEDULED event exceeds duration limit (3:3-
10/20/16 1:30:49 PM	Error	HR			Input signal lost.

SI/PSI difference view

PID	Type	ID	Service	Bitrate A	Diff	Bitrate B
TOTAL				38,014,707		38,014,706
0	PAT			5,768		6,667
1	CAT			3,008	44%	3,170
16	NET			2,757		2,790
17	SOT/BAT			8,773		8,920
18	EIT			975,698		974,970
20	TS/DT			3,000		3,000
100	PMF	1.1101.28106	Das Erste	6,760	-1%	6,668
101	MPEG-2 video	1.1101.28106	Das Erste	7,142,530		7,140,652

iAnalyzer provides:

- Intuitive display of EIT content
- Comprehensive analysis
- Comparison of EIT with audio / video broadcast
- Instant problem detection
- Build your own rules for verifying event data (multiple check sets allowed)
- Compare two inputs in SI/PSI tables
- Compare two inputs in EIT events
- Report problems via SNMP

Display features:

- Timeline view marking problematic events and services
- Search event view
- Protocol / analysis view
- Status view with video snapshots
- SI/PSI tree view

Analysis features:

- ETS TR 101 290 analysis
- Graphical bitrate and cycle time display
- Detection of potential problems
- Detection of broadcast errors
- Filtering / search options on analysis results
- Compare SI/PSI data of two inputs

Define your own:

- Service views (service lists)
- Service icons (service logos)
- Linked services
- Thumbnail services (audio / video snapshots)
- Check set configuration
- Modulation parameters / input settings
- SI table timeouts
- Error / warning filtering
- Various display options

Technical Data

- 1U 19" server, redundancy by adding backup servers
- Up to 8 physical IP ethernet ports
- Up to 6 physical ASI ports
- Up to 20 logical inputs
- Up to 80 Mbit/s per logical input / ASI input
- Chain multiple servers to monitor more data
- Licensed by logical input
- Smallest license: 1 input, largest license: 20 inputs
- Robust server (redundant power supplies + hard disks)



ORDERING INFORMATION

Please contact us for further details on different available options.



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