

SI/PSI Management System (EIT/SDT/PMT/BAT/NIT/TDT/TOT/AIT)



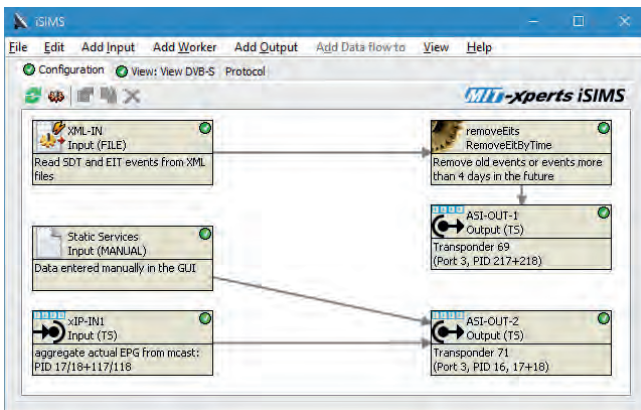
MIT *-xperts*

iSIMS

SI Playout Made Easy

Whether you are just remapping input data to new output multiplexes or you are managing a challenging SI signalling scenario, iSIMS is the right tool for you. It is powerful enough to handle the most complex scenarios, yet simple and easy to use.

Based on our robust iMux Multiplexer, the iSIMS seamlessly integrates into your playout system.



Main configuration view (with sample configuration)

An Intuitive User Interface

The iSIMS has its own specialized user interface for SI table manipulation: The iSIMS GUI allows you to connect inputs to outputs with workers in between. Inputs provide SDT, EIT, PMT, BAT, NIT, and AIT data from external sources (e.g. ASI, IP, or XML). Outputs transmit the data to various destinations (e.g. ASI, IP, or XML). The workers manipulate the data passed through them: correct the data, merge/split events or services, translate service IDs, etc.

When connecting the iSIMS components, you can filter which data (events, services, PMTs, NITs, ...) may pass through a connection. This allows you to easily design the data flow the way you need it to be.



The screenshot shows the 'Edit element: Output (TS)' dialog box. It has tabs for Properties, Forwarded data, Status, and Protocol. The Properties tab is active, showing:

- Name:** IP-out 1
- Description:** Region 1
- Output transponder(s):** A table with columns: Transponder, SDT PID, SDT only actual, EIT PID, EIT only actual, RST PID, and PAT PID.

Transponder	SDT PID	SDT only actual	EIT PID	EIT only actual	RST PID	PAT PID
1.1011 [ZDF HD]	317	<input type="checkbox"/>	318	<input type="checkbox"/>		
1.1073 [Sky Cinema, Sky ...]	117	<input checked="" type="checkbox"/>	118	<input checked="" type="checkbox"/>		
1.1101 [Das Erste, Bayeris...]	217	<input checked="" type="checkbox"/>	218	<input checked="" type="checkbox"/>		
- Playout:** Cycle time in mill seconds, SDT order.
- EIT Bitrate:** 500000 bits/s, auto-adapt bitrate.
- Limit EIT other:** days.
- EIT packaging:** DVB standard.
- Playout NIT on PID:** 16.
- Network ID:** 1, NIT only actual.
- auto-adjust BAT/NIT version.**

Each iSIMS component has properties that determine its behaviour

With the input/output/worker/flow GUI configuration, you always have an easily understandable graphic representation of your current configuration.

The 60+ worker types included in every iSIMS allow virtually any automated data manipulation possible and are a big competitive advantage for everyone, as adaption to new requests is always just a few clicks away.

Specific customer requests can easily be implemented using the iSIMS plugin architecture.

The screenshot shows the 'Edit element: Input (TS)' dialog box. It has tabs for Properties, Forwarded data, Status, and Protocol. The Properties tab is active, showing:

- DVB Triplets Table:**

DVB Triple	Name	Type	P/F	Sched.	SDT	PMT [PID]
[10330]	NDR FS SH HD	AVC HD TV	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> [P/F]	
[10331]	PHOENIX HD	AVC HD TV	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> [P/F]	
TS 1.1101						
[28106]	Das Erste	TV	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> [28d]	<input checked="" type="checkbox"/> [P/F, Sched.]	<input checked="" type="checkbox"/> [100]
[28107]	Bayerisches FS Sud	TV	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> [28d]	<input checked="" type="checkbox"/> [P/F, Sched.]	<input checked="" type="checkbox"/> [200]
[28108]	hr-fernsehen	TV	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> [28d]	<input checked="" type="checkbox"/> [P/F, Sched.]	<input checked="" type="checkbox"/> [300]
[28110]	Bayerisches FS Nord	TV	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> [28d]	<input checked="" type="checkbox"/> [P/F, Sched.]	<input checked="" type="checkbox"/> [500]
[28111]	WDR Köln	TV	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> [28d]	<input checked="" type="checkbox"/> [P/F, Sched.]	<input checked="" type="checkbox"/> [600]
[28113]	SWR Fernsehen BW	TV	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> [28d]	<input checked="" type="checkbox"/> [P/F, Sched.]	<input checked="" type="checkbox"/> [800]
TS 1.1111						
[28534]	WDR Aachen	TV	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> [P/F]	
[28535]	WDR Wuppertal	TV	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> [P/F]	
[28536]	WDR Bonn	TV	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> [P/F]	
[28537]	WDR Duisburg	TV	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> [P/F]	
[28544]	WDR HD Aachen	AVC HD TV	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> [P/F]	
[28545]	WDR HD Wuppertal	AVC HD TV	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> [P/F]	
[28546]	WDR HD Bonn	AVC HD TV	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> [P/F]	
- Legend:** = Changed entry, = New entry, = Removed entry.
- Other table type table:**

Other table type	ID	Source	Description
BAT Bouquet	4160 (0x1040)	IP-IN	ARO Digital
NIT Network	1 (0x1)	IP-IN	ASTRA 1
NIT Network	3 (0x3)	IP-IN	ASTRA 3

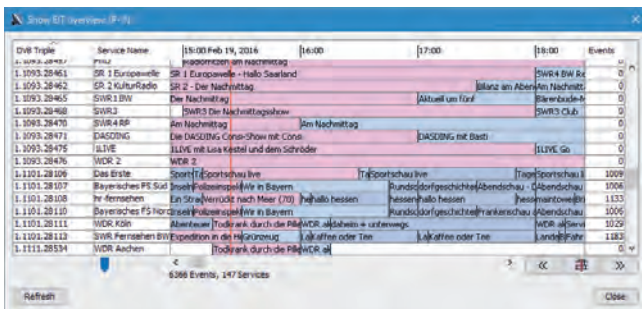
The service configuration can be displayed for each component. All changes since the last activation are highlighted automatically.

Key Features and Benefits

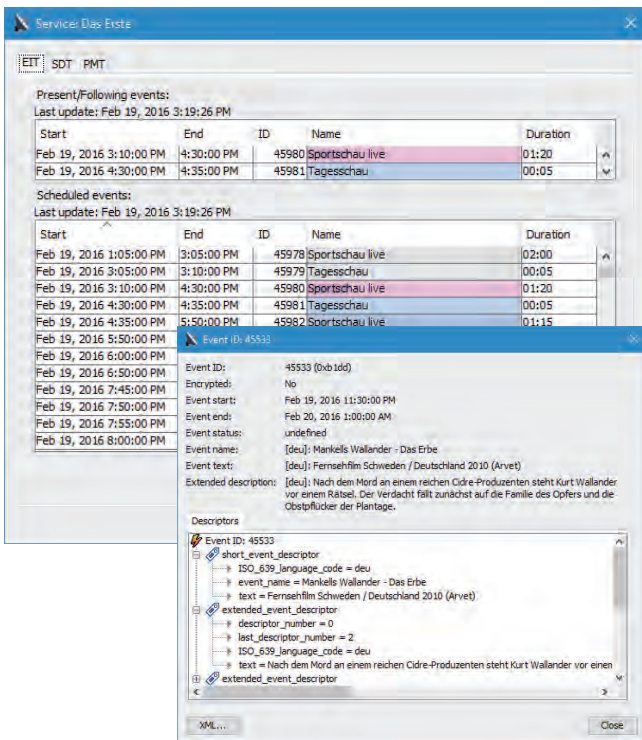
Information at Your Fingertips

For each component, you can display all current SDT, EIT, PMT, BAT, NIT, and AIT data. This way, you can analyze your SI data after each step of data manipulation in the flow from input to output.

You can always go into more detail, see all descriptors, and display the complete EIT schedule. Exporting SI table data to XML is also an option for each component.



The current EIT data can be displayed for each iSIMS component



You can open the EIT schedule for each service, inspect event details and export them to XML

iSIMS Networking

iSIMS supports multiple client connections at the same time from different workstations. The client can be started from a regular Java enabled web browser. Read/write permissions, combined with passwords, also allow restricting access for inexperienced staff members.

iSIMS provides:

- SDT, EIT, PAT, PMT, BAT, NIT, TDT, TOT, RST management
- AIT for HbbTV/MHP interactive TV
- automatic generation of all SI/PSI tables
- support multiple multiplexes on a single ASI/IP output
- extraordinary and intuitive GUI allowing graphical data modelling and data visualization
- extremely comprehensive range of features
- extensible by use of plugins (workers)
- efficient section packaging saves up to 20% EIT bitrate
- status reporting / config change via SNMP agent

Input features:

- ASI/IP input
- XML input in various XML formats (incl. TV-Anytime)
- present / following event triggering via XML
- manual input (enter data in GUI)

Output features:

- ASI/IP output
- XML output in various XML formats (incl. TV-Anytime)
- direct sections output (e.g. AIT)
- report output (for automatic report generation)

Manipulation options (workers):

- EIT auto-correction (fix gaps and overlapping events)
- remove past and/or future EIT events (for saving bitrate)
- remove/add descriptors from/to EIT, SDT, PMT, BAT, NIT
- service ID translation in SDT, EIT, PMT, BAT, NIT
- service / event renaming and parameter modification
- service / event / PMT / BAT / NIT filtering
- service linkage creation
- change character sets
- PMT / elementary stream PID translation
- NIT + EIT merging, creation, and migration
- ... and many more + additional options via plugins

iSIMS Trigger option:

This option extracts VPS information from SDI signal from broadcast automation to automatically trigger the present/following event information.

Technical Data

- 1U 19" server, redundancy by adding backup servers
- Up to 8 physical IP ethernet ports
- Up to 6 physical ASI ports
- Max. 100 logical inputs (ASI and/or IP)
- Output licensed either by output transponders or by output services (max. 100 transponders or 600 services)
- Robust server (redundant power supplies + hard disks)



ORDERING INFORMATION

Please contact us for further details on different available options.



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