

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



MIT-*xperts*

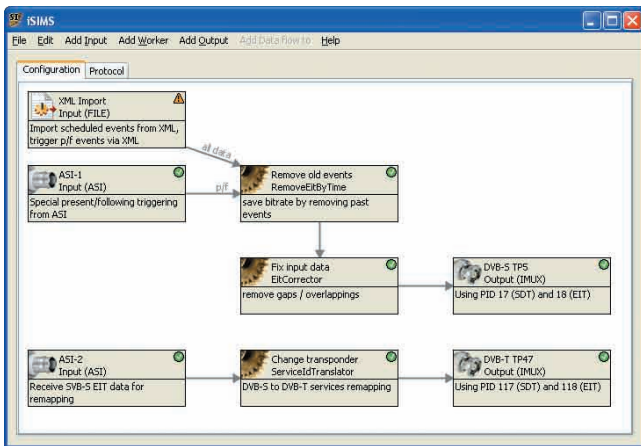
iSIMS

iSIMS SI Management System

SI Playout Made Easy

Whether you are just remapping input data to another transponder 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 GUI

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, and NIT from external sources (e.g. ASI, IP, or XML). Outputs transmit the data to various destinations (e.g. ASI, IP, or XML output). The workers manipulate the data sent through them: correct the data, rename events or services, translate service IDs, etc.



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

- Name:** DVB-S TPS
- Description:** Using PID 17 (SDT) and 18 (EIT)
- Output transponder(s):** A table with columns: Transponder, SDT PID, SDT only actual, EIT PID, EIT only actual, RST PID, PAT PID.

Transponder	SDT PID	SDT only actual	EIT PID	EIT only actual	RST PID	PAT PID
1.1101	17	<input type="checkbox"/>	18	<input type="checkbox"/>		0
1.1201	117	<input type="checkbox"/>	118	<input type="checkbox"/>		100
- Playout settings:** Cycle times in mill seconds.

	Actual:	Other:	Default settings:
Present/Following:	2000	10000	DVB-S / DVB-C
Scheduled first days:	10000	10000	
Scheduled remaining days:	30000	30000	
SDT / BAT	2000	10000	
NIT	10000	10000	
Number of first days:	8		

Each iSIMS component has properties that determine its behaviour

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

With the input/output/worker/flow configuration GUI, you always see a graphic representation of your current configuration.

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

DVB Triple	Name	P/F	Sched.	SDT	PMT
1.1011	TS 1.1011				
[.11100]	Das Erste HD	X		SDT P/F Sched.	
[.11110]	ZDF HD	X	X	SDT P/F Sched.	
[.11120]	arte HD	X	X	SDT P/F Sched.	
[.11140]	HD-Test ARD ZDF	X		SDT P/F	
1.1051	TP 51-Qual.				
[.28721]	EinsExtra	X	X	SDT P/F Sched.	
[.28722]	EinsFestival	X	X	SDT P/F Sched.	
[.28723]	EinsPlus	X	X	SDT P/F Sched.	
[.28724]	arte	X	X	SDT P/F Sched.	
[.28725]	Phoenix	X	X	SDT P/F Sched.	
[.28726]	Test-R	X		SDT P/F	
1.1073	TP 85-RBB				
[.28205]	rbb Brandenburg	X	X	SDT P/F Sched.	
[.28206]	rbb Berlin	X	X	SDT P/F Sched.	
[.28218]	ARD-Data-2			SDT	
[.28221]	ARD-TEST-1			SDT	

 Below the table, there are legend items:

- = Changed entry
- = New entry
- = Removed entry

 At the bottom, there is another table:

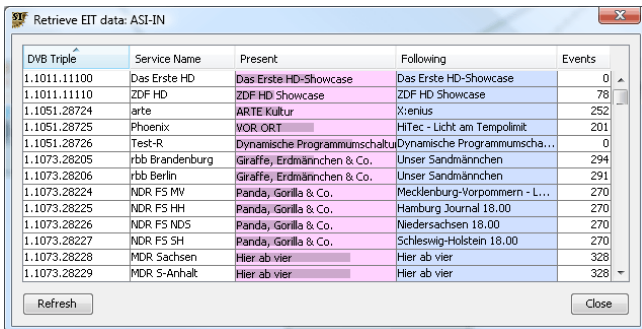
Other table type	ID	Description
BAT Bouquet ID	4160	ARD Digital
NIT Network ID	1	ASTRA 1
NIT Network ID	3	ASTRA 3

The service configuration can be displayed for each component

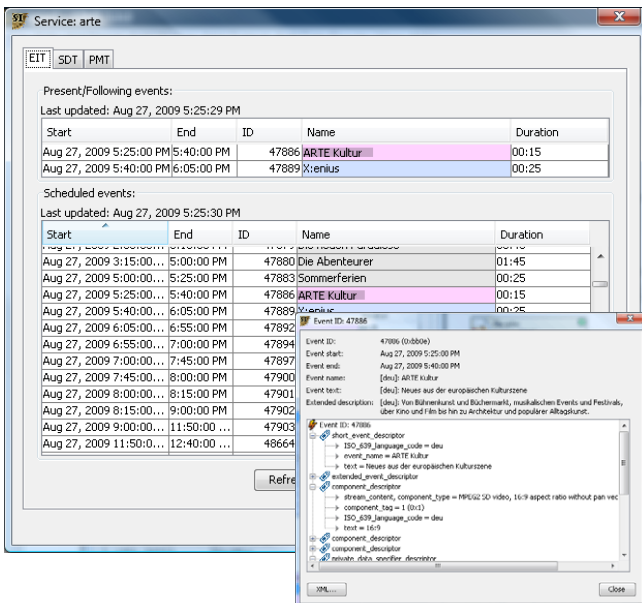
Information at Your Fingertips

For each component, you can display all current SDT, EIT, PMT, BAT, and NIT 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 of each component.



The current EIT data can be displayed for each iSIMS component



You can open the EIT schedule for each service and even show 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
- automatic generation of SDT, BAT, NIT, RST tables
- multiple transponders on a single ASI/IP output
- graphical GUI to model data flow
- extensive data manipulation features

• Input features:

- ASI/IP input
- XML input (Jade™ compatible XML format)
- Present / following event triggering via XML input. Support for iSIMS iTrigger Server for automatic present event / VPS extraction from SDI signal.

• Output features:

- ASI/IP output
- XML output (format identical to XML input)

• Manipulation options:

- EIT auto-correction (fix gaps and overlapping events)
- EIT event name search / replace
- EIT event filtering (by present / following / scheduled)
- EIT event filtering (by service)
- Remove past and/or future EIT events (to save bitrate)
- Remove/add descriptors from/to EIT, SDT, PMT, BAT, NIT
- Service ID translation in SDT, EIT, PMT, BAT, NIT
- Service renaming
- Service filtering
- PMT / elementary stream PID translation
- Configure backup flows (if main input fails)

• To be used in:

- headends
- playout centers
- contribution and distribution networks

Technical Data

- 1U 19" server, redundancy by adding backup servers
- Up to 8 physical ASI/IP inputs
- robust server (redundant power supplies + hard disks)

Purchase Options

Product ID	ISIMS-S	ISIMS-M	ISIMS-L	SIMS-XL
ASI/IP inputs	1	4	4	8
max. services	25	50	150	300



ORDERING INFORMATION

Please contact us for further details on different available options.



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