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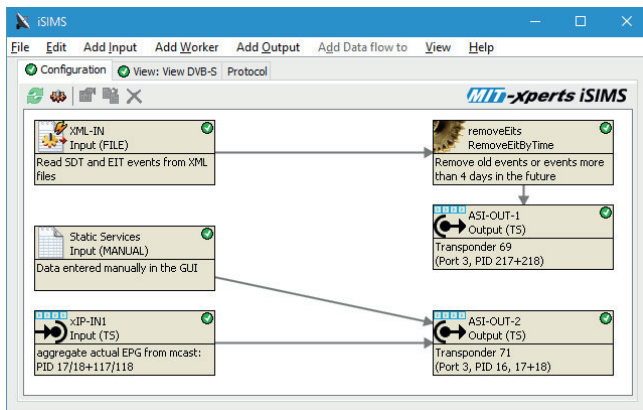
MIT-xperts

iSIMS

iSIMS SI/PSI Management System

SI Playout Made Easy

Whether you are just remapping input data to new output multiplexes or you are managing a challenging DVB SI/PSI 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 (or may not pass) through a connection. This allows you to easily design the data flow the way you need it to be.

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, as adapation to new requirements is usually just a few clicks away.

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

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

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. Read/write permissions, combined with passwords, also allow restricting access for inexperienced staff members. LDAP integration is possible. The client can be started from your local web browser.

Key Features and Benefits

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 or splitting on multiple IP outputs
- 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:
- IP and ASI live input
- XML input in various XML formats (incl. TV-Anytime)
- EIT present / following event triggering via XML
- Manual input (enter data in GUI), includes EIT schedules

Output features:
- IP or ASI output
- XML output in various XML formats (incl. TV-Anytime)
- DVB-I output
- Direct sections output (from files)
- Report output (for automatic report generation)

Manipulation features (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

Additional options:
- Excel Importer for EPG schedules

Technical Data

- 1U 19" server, redundancy by adding backup servers
- Up to 8 physical IP ethernet ports
- Up to 6 physical ASI ports
- Max. 200 logical inputs (ASI and/or IP)
- Output licensed either by output transponders or by output services (max. 150 transponders or 600 services)
- Robust server (redundant power supplies + hard disks)

ORDERING INFORMATION

Please contact us for further details on different available options.

MIT-xperts

MIT-xperts GmbH
Poccistr. 13
80336 Munich
Germany

phone: +49 (89) 76756380
fax: +49 (89) 76756381
sales@mit-xperts.com
www.mit-xperts.com