ICZ LETVIS® - URDI

Universal Radar Data Interface

INTELLIGENT INTERFACE FOR SURVEILLANCE DATA

THE ICZ LETVIS® URDI (UNIVERSAL RADAR DATA INTERFACE) PRODUCT ENABLES THE REMOTE CONTROL OF DATA DISTRIBUTION OF SURVEILLANCE DATA.

The ICZ LETVIS® URDI product is a system enabling the remote control of data distribution – primarily radio-location information (RLI). It processes input information from defined sources (input channels) and, if needed, filters, modifies, and transforms (conversion tool) it into a different required format, subsequently distributing it through defined output subscribers to output channels.

It also enables the graphical and text visualisation of known RLI types (plots, tracks, scan) as well as byte interpretation of all data.

ICZ LETVIS® URDI includes:

▸ **Powerful server equipment (ICZ LETVIS® URDI server)** receiving information from input channels; filtering, modifying, and transforming input data; distributing information to output channels; data logging; data preparation for the client interface;

▸ **Remote graphical client interface (ICZ LETVIS® URDI client)** connection to any server and display of data passing through the server; viewing, modifying, creating input/output channels; viewing, modifying, and creating the conversion tool; viewing log statements; graphical display of selected RL data; configuration of user properties; display of application data;

Input and output channels

The URDI device supports data collection and release for various transport layers (ethernet, asynchro/synchro links, etc.). Each channel is specified through a whole range of parameters that the user can configure (e.g. IP address, UDP port, PIT encoder type, etc.).

Conversion tool

This implements user requirements for routing, modifying, filtering, and transforming data. It is possible to define several processing methods and output routing for all input data. Each definition of the transfer of input data to output is implemented separately and described through a conversion chain.
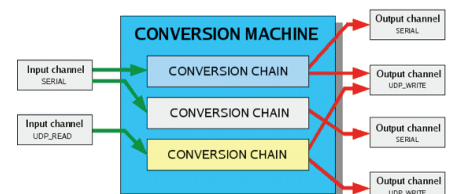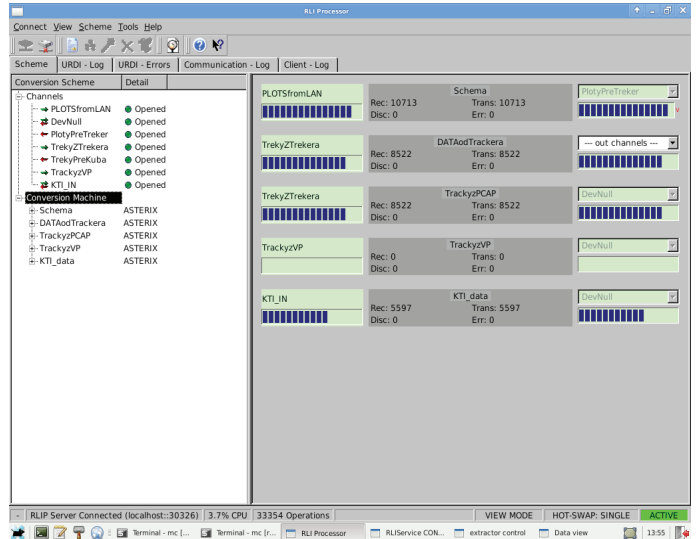
[ICZ LETVIS® - URDI]

[BASIC FUNCTIONS]

ICZ LETVIS® URDI performs main and support functions.

Main functions:

- Remote controlled data distribution
- Support for various types of LAN interface (TCP, UDP, Multicast, Broadcast, synchro, asynchro links, PIT, etc.)
- Byte filtering
- Intelligent routing
- Intelligent handling of surveillance data
- Surveillance data encoders/decoders (EUROCONTROL ASTERIX and their modifications (e.g. ASOC)
- Modification and filtering based on data items (mathematic operations and, or, <, =, >, valid, invalid)
- Transformation between protocols
- Data visualisation on remote clients

Support functions:

- Archiving
- Logging

■ APPLICATION SW AND OPERATING SYSTEM

OPERATING SYSTEM	LINUX SLED/SLES 12 (X64) AND HIGHER
Application SW	The ICZ LETVIS® URDI SW product includes: ▸ URDI server process (URDIser) ▸ UA LETVIS URDI client (URDIccl)

■ HARDWARE AND TECHNICAL PARAMETERS

Basic HW	HP/DELL/COTS – INTEL platform
Input data protocols	ASTERIX cat: 01/02; 34/48; 19/20; 21; 03; 62/65 With support for radar modifications (SDI data) Raw data
Input data format	ASTERIX cat: 01/02; 34/48; 19/20; 21;03; 62/65 With support for radar modifications (SDI data) Raw data
Maximum number of configured interfaces (channels)	128
Maximum number of conversion schemes	256