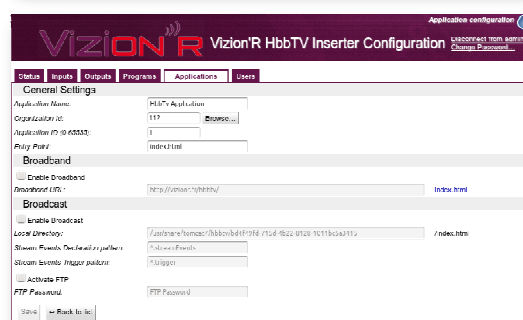
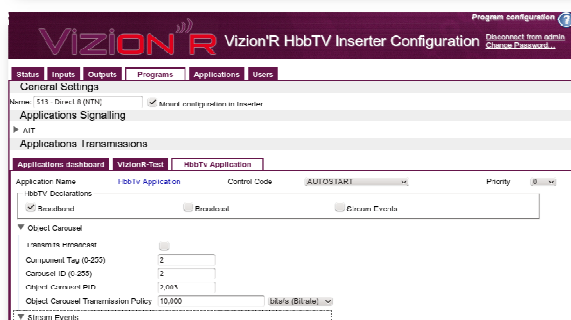
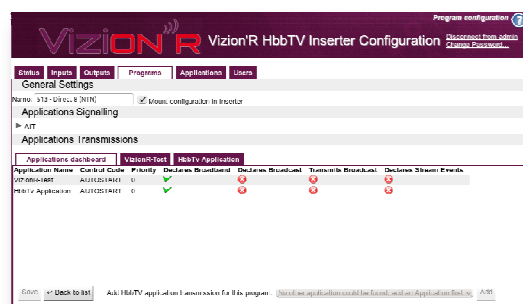
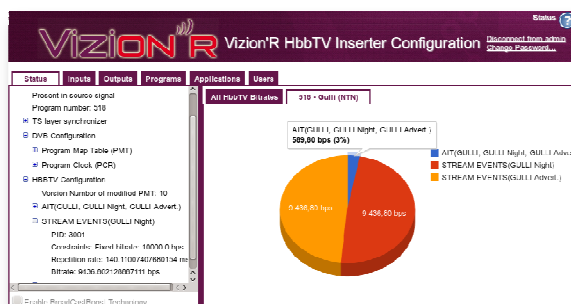


The Unyssea solution is a real-time re-multiplexer enables to handle DVB/HbbTV applications insertion (interactive services, advertisings, quizzes, games etc...). Unyssea is designed for TV channel editors, broadcast network operators and broadcasters and is available in two settings: testing/lab use case and production use case. Unyssea can generate DSMCC Object Carousels, Streams events and all application signalling information (AIT and descriptors) that can be directly injected into any existing MPEG-TS compliant stream (Single/Multiple Program Transport Stream, including DVB-T/C/S Multiplexes)

Unyssea main features

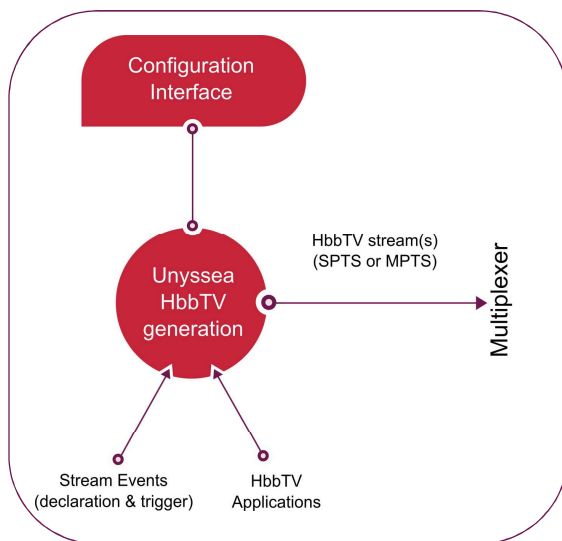
- Web-based interface allowing to configure/control all parameters while live running
- Generation of application signaling information, object carousels and stream events
- HbbTV Transport Streams direct output or injection within existing SPTS or MPTS
- Ultra low latency (no buffering)
- Application priority and carousel bitrate on the fly control API
- Multi-screen events publication API
- Multiple output type support: UDP, ASI, DVB-T/ T2/ S/ S2/ C modulations
- Control and monitoring through SNMP
- BroadcastBoost Technology for DSMCC carousels to use all stuffing available in a multiplex
- Can be installed on any kind of generic servers

User-friendly web based interface

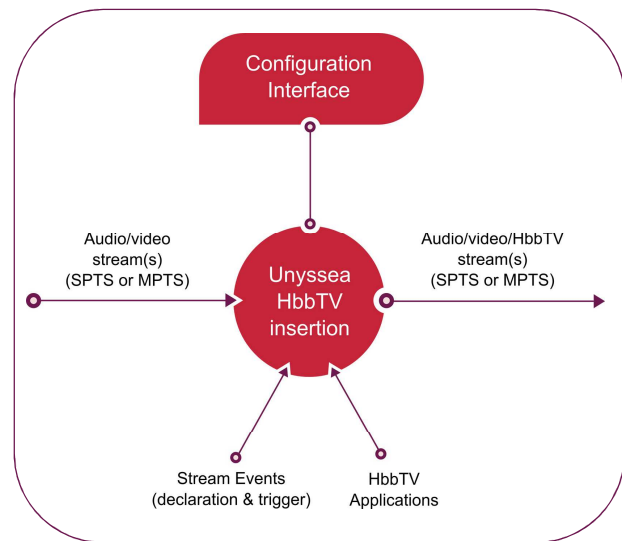


Architecture: flexible set-up

The Unyssea solution integrates its own demultiplexer/multiplexer allowing to either directly inject HbbTV streams into any existing DVB stream (Single/Multiple Program Transport Stream) or produce an HbbTV Transport Stream dedicated to multiplexer. Thus, Unyssea can be used with two main set up.



Set up 1: for network operator or broadcaster



Set up 2: for simple TV channel editor or testing/lab

Specifications

Input	<ul style="list-style-type: none"> TS-188 (SPTS or MPTS) over UDP ASI input mode on Dektec cards (i.e: DTA 112, 115) Antenna input with most of DVB-T/C/S cards
Output	<ul style="list-style-type: none"> TS-188 (SPTS or MPTS) over UDP ASI output mode on Dektec cards (i.e: DTA 110, 112, 115...) Modulated DVB-T/C/S output on Dektec cards (i.e: DTU 215, DTA 112, 115..)
HbbTV Insertion	<ul style="list-style-type: none"> HbbTV application signaling information (AIT & descriptors) HbbTV applications (DSM-CC Object Carousels) Stream Events
Control on broadcast parameters	<ul style="list-style-type: none"> Bitrate or repetition period for each object Control and monitoring with a web user interface Control and monitoring through SNMP
Os compatibility	<ul style="list-style-type: none"> Windows, Mac OS or Unix platforms Hardware packaging on different servers (tower, 1U, 2U)