CELLMetric Intelligent infrastructure

DVB - Composer

DVB - Composer is a PC application which creates DVB transport streams for CellMetric Modus 3 RF Modulator. Deigned to emulate a transmission headend, composer takes pre encoded audio and video content and generates standards complaint DVB Transport Streams.

Applications

DVB Product Development
DVB Manufacturing test
DVB Deployment
DVB Equipment demonstrations

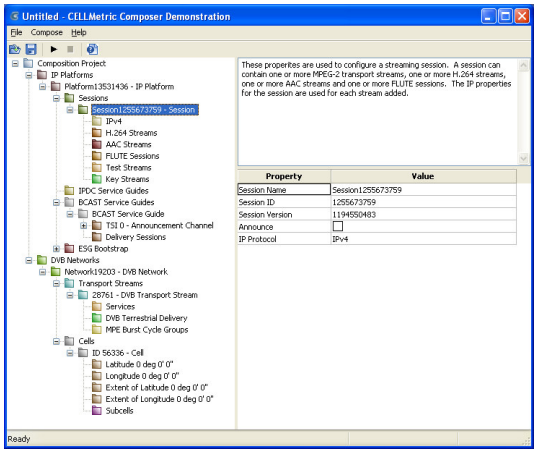
New!

OMA BCAST support
OMA BCAST Interactive Profile support
Stream Creation Wizard
DVB-T Support Option

DVB Standards Supported

DVB Composer support generation of streams to the following standards

DVB-H	OAI/IDPC format OMA BCAST format OMA BCST Interactive
DVB-T	UK Freeview format



DVB-H Composer

DVB-H Composer can take multiple H.264 and AAC files and produce a transport stream containing DVB-H audiovisual IP datacasts (IPDC/OMA/OMA BCAST). Files can be added as FLUTE data download services. Both IPv4 and Ipv6 IPDC is supported. MPE PIDs can be time-sliced and protected with MPE-FEC. Composer configurations can be saved to disk and then opened and edited using a simple, easy to use graphical user interface (GUI) with on-line help. The output includes Modus 3 parameters, enabling the transport stream to be played out directly with Modus 3 without any extra configuration necessary.

DVB-H transport streams are inherently complex; they contain real-time audio visual sessions sent over RTP, which are carried in Ipv4 or Ipv6 packets, which are then encapsulated using MPE, possibly with Reed Solomon FEC, time-sliced and finally multiplexed into a MPEG-2 transport stream. Up until now, creation of these streams required multiple pieces of hardware, all configured separately.

DVB-H composer enables the creation of complex DVB-H transport streams with a single, easy to use, software application. The transport streams created can then be directly fed into a Modus 3 box for RF play out. It is the easiest, quickest, most cost effective way to produce DVB-H streams.

Audiovisual streaming sessions

The Composer can stream multiple, pre-encoded, H.264 video and AAC audio using DVB-H datacasting.

Ipv6

The Composer supports both version 4 and version 6 (IPv6) of the Internet Protocol

CellMetric designs and manufactures innovative digital broadcast equipment.

Its products focus on reliability, ruggedness, modularity, intelligence and flexibility using leading edge digital technology.

CellMetric is based close to the centre of the historic university

DVB- Composer

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DVB MPE

The Composer allows full control over the properties of each MPE-PID. Time-slicing and FEC are both full configurable. The software can multiplex multiple MPE PIDs into a single transport stream and the user has complete control over the allocation of IP flows to MPE PIDs.

PSI/SI

The Composer populates the PSI/SI of the transport stream with the information receivers need to decode the DVB-H content.

ESG/SDP

The Composer populates the ESG with the information receivers need to find and acquire a particular DVB-H service.

Stream Creation Wizard

Stream creation is simplified by use of the Composer Wizard. Pre configured templates are used to generate all the PSI/SI and MPE parameters required to generate a stream quickly and without errors.

Modus 3 Configuration File

Composer automatically generates a Modus 3 modulator configuration file associated with each transport stream. This XML file configures the Modus 3 with the correct bitrate and modulation parameters for file play-out.

Technical Specifications

Transport Stream	ISO/IEC 13818-1
DVB MPE	ETSI EN 301 192
H.264/RTP	RFC 3984
AAC/RTP	RFC 3640
FLUTE	RFC 3926
DVB-H IP datacast	ETSI TS 102 005, ETSI TS 102 470, ETSI TS 102 471, ETSI TS 102 472

Recommended Specification

Operating System	Windows XP service pack 2
CPU	Intel Pentium (or compatible) 1.0 GHz or higher
Memory	512 Mbyte or higher

Ordering Information

DVB - Composer

Options

DVB– H Composer (OAI/IPDC)	COMPH
OMA BCAST Support	COMPOMA
DVB-T Freeview Support	COMPTF

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