PRODUCTION

MXF Analyser Professional

In-depth analysis of MXF-files - Customizable and easy integration in your workflows

With the MXF Analyser IRT offers an unequalled solution for the execution of MXF-file analysis with respect to standards conformance (based on the SMPTE standard) and conformance to certain application parameters such as operational pattern, essence container constraints or payload formats.

The Analyser is the result of IRT's extensive MXF know-how that IRT has acquired through active involvement in the standardisation and maintenance of the MXF specifications, involvement in broadcasters' MXF integration projects, and several years of testing projects in its MXF Test Centre.

The Material Exchange Format (MXF) is a file format for interchanging and storing audiovisual material, standardised by SMPTE. Due to its flexibility, extensibility and the tight integration between essence and metadata MXF is the file format of choice for the interchange and storage of finished or "almost finished" audiovisual material and associated metadata.

Products supporting MXF are essential for A/V content exchange and to establish interoperability between components and applications in IT-based production facilities. Hence, it is vitally important to ensure that products implementing MXF do comply with the relevant specifications and to perform operational validation of incoming MXF-files.

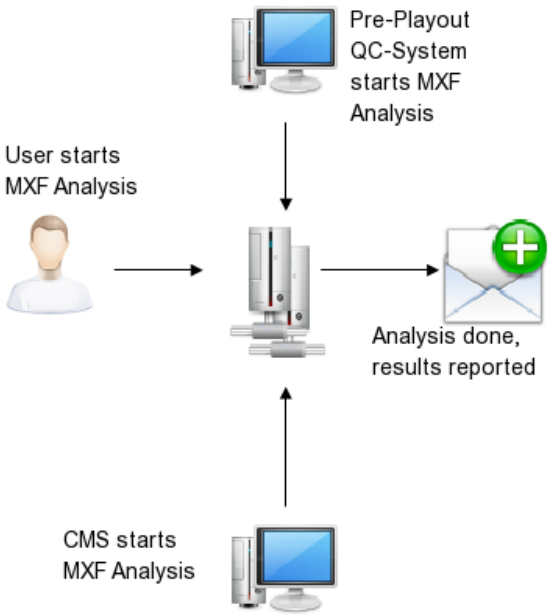

Fig.1: MXF Analyser overview

The MXF Analyser furthermore can easily be integrated into your workflows and products.

It uses functionality of the MXF SDK developed by IRT and MOG Solutions (www.mog-solutions.com) – the most complete MXF Software Development Kit (SDK) available.

Features

- Web service interfaces for integration in service oriented architectures (SOA)
- Configurable application specification constraints for user specific error redefinitions
- Automatic validation of incoming MXF-files performed by a Windows service based on the WatchFolder concept
- intuitive graphical user interface
- high performance (up to 16 times realtime)
- support of new essence types

Performance

- Traffic Light representation of analysis result
  : OK with respect to specification and application constraints
  : Further analysis is required
  : Invalid file with respect to MXF specification or application constraints
- Detailed analysis results: (XML document) representing the metadata and file multiplex structure, including

Scope of analysis

- KLV (SMPTE 336M)
- Partition Multiplex
- Header metadata structure
- Essence containers
- Values of header metadata properties that relate to essence containers (MXF structural metadata), file structure (e.g. operational pattern) or are defined in SMPTE registries (i.e. RP224)

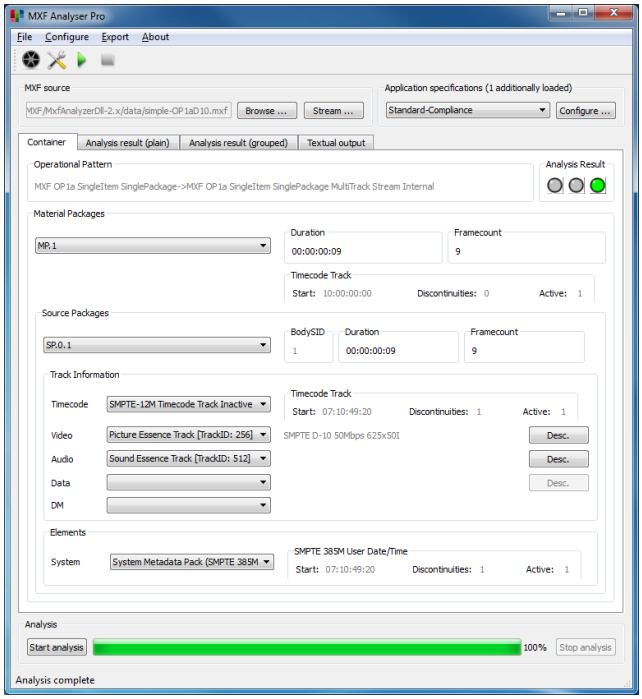

Fig.3: User interface of MXF Analyser

Supported essence types

- DV/DIF essence (IEC 61834 and SMPTE 314M)
- IMX/D10
- MPEG-2 video and audio
- PCM audio essence
- JPEG 2000 (new in V2.x)
- MPEG 4/AVC (new in V2.x)

Platform requirements

- Windows XP or 7, Server 2008 R2
- ≥ dual core processor (x86-based, ≥ 2 GHz)
- ≥ 2 GB RAM

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