

Gateway Audio-Video-Metadata STANAG 4609

Description

This product, designed for Aircrafts, UAV and ground mobile platforms, and fixed persistent surveillance systems, is emerging as a very powerful weapon in the arsenal of remote sensing.

The product is providing the Intelligence Community and their customers with the capability to harness that power into an intelligence resource for advanced processing, exploitation, and dissemination.

This product is a video ingestion, management, and distribution architecture that provides the infrastructure for improving the way that video and other sources are ingested, cataloged, retrieved, and distributed.

It provides a platform where various metadata tracks are integrated and referenced against each other and against the content for intelligence fusion.

Simultaneous video feeds, received in multiple formats from multiple sensor types, can be ingested, annotated, discovered, exploited, and shared in real time.

Analysts can now collaborate simultaneously to annotate the video with mission text and audio.

Annotations such as universal time, video time code, and geospatial position are saved as rich metadata and are associated with the video content for later search, retrieval, and publication to the ground station.

The product-based solution solves many of the current issues that limit the exploitation of Full High Definition Video.

It provides for more robust archival, search, and retrieval capabilities. It associates extensive metadata with the video content for more efficient discovery and resolves the issue of video data essentially falling on the floor.

MPEGTS stream
(MPEG2 or H264)



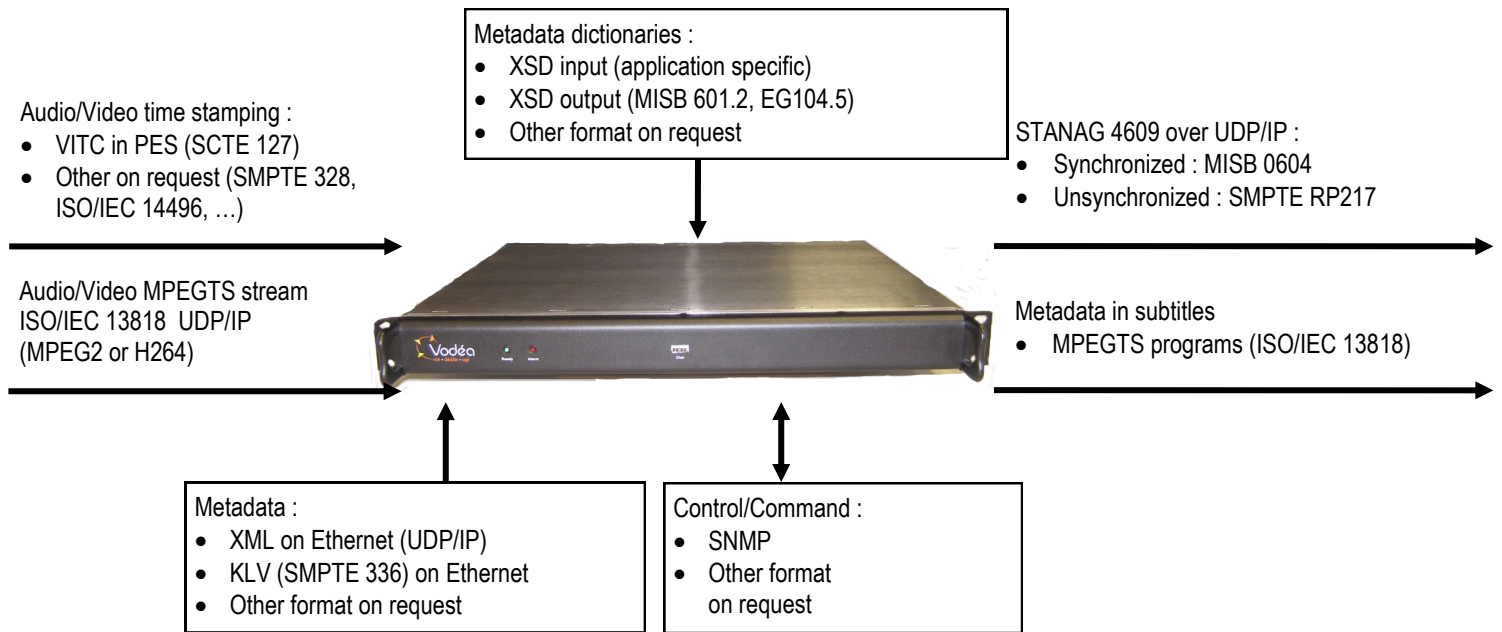
STANAG 4609



Advantages of the offer

- ◆ Ingests analog or digital video with embedded (KLV or ESD) metadata; baseband, MPEG2, and H.264 streams in Standard Definition (SD) and High Definition (HD).
- ◆ Enables selection of a field of interest from a display of multiple real-time incoming feeds from UAV or other platforms.
- ◆ Automatically extracts KLV (Key-Length-Value) metadata encoded in the product streams or files in compliance with MISP and STANAG 4609 standards.
- ◆ Enables the user to add annotated text, and other sources as data. extends video imagery asset discovery, data fusion, and publishing.
- ◆ Employs Motion Imagery Standards Board (MISB) standards for these product and metadata.
- ◆ Enables the user to pause, rewind, slow-motion, archive, clip, and disseminate ingested content.
- ◆ Enables the fusion of related data, such as maps and motion imagery.
- ◆ Provides an exploited product with metadata multiplexed into the MPEG transport stream. Exports NITF (National Imagery Transmission Format) imagery files captured from video frames along with embedded metadata.

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Input/output

RJ45: (input)

- Audio/Video MPEGTS stream with Time stamping
- Metadata

RJ45 :

- Control/Command (SNMP)

RJ45 : (output)

- STANAG 4609
- Metadata in subtitles and metadata in subtitles

USB: (output)

Storage on Flash recorder

- 4/8/16 GB (up to 9 hours)

Advanced-processing

Multimedia streams wrapping :

- Conformed with STANAG 4609 V2
 - Synchronized by PTS (MISB 0604)
 - Unsynchronized (SMPTE RP217) : latency less than 40 ms.

Metadata ingest frequency :

- Up to 30 Hz

Configurability

- PID tables, IP address, udp port,...

On the stream, on real time :

- Key value substitution
- Default KLV insertion

System Spec

Mechanical spec :

- Size : 1RU rack, 19 inches
- Weight : 4 Kg

Electrical consumption :

- up to 35 W

Power supply :

- 110/220 V 50/60 Hz , 28 Vdc (option)

Operating temperature :

- 0°C to +55°C
- Extended temperature range available on request.