



5h. 14 min. 27 sec.

## VIDIS

Video Distribution Service



## VIDIS - VIDEO DISTRIBUTION SERVICE

VIDIS accepts streaming video data from various sensors, transcodes the data if required and makes it available to different users across the network in an efficient manner. VIDIS is optimized for video exploitation & surveillance and provides seamless and frame accurate access to the data. Through various open standard interfaces such as STANAG 4609, VIDIS provides its services both to video providers and consumers. VIDIS can be operated stand alone as well as fully integrated into a CSD (STANAG 4559: NATO Standard ISR Library Interface) approach. VIDIS is an IP based interactive video-on-demand solution which offers real-time access to 24 TB or more of video data.

VIDIS offers four core services:

### STREAMING ACCESS (UNICAST/MULTICAST)

- // STANAG 4609: "NATO Digital Motion Imagery" compliant
- // Access to all sensor sources and videos
- // Distribution to single or multiple users in real time
- // Streaming on demand
- // Notification mechanism for live video streams
- // Optional CSD integration

### RANDOM STREAM ACCESS

- // Random access to video and meta data
- // Seamless switch between live stream and complete history
- // Access to all sensor sources and videos
- // Frame accurate navigation in video and meta data
- // More than 100 simultaneous active clients in parallel
- // Single track access (e.g. only KLV meta data)
- // Query interface to access video data using various attributes
- // Retrieve video fragments based on geospatial criteria
- // Quality of Service (QoS) Mechanisms

### TRANSCODING AND RECODING SERVICE

- // Correct non-standard compliant data streams
- // Frame size adaptation (resolution, crop)
- // Frame skip
- // Conversion to different video codecs
- // Bit rate adaptation
- // Replication across WAN (VIDIS to VIDIS)

### PRE-PROCESSING SERVICE

- // Create additional meta data while preserving video raw data
- // Sample server side algorithms e.g.:
  - Motion Estimation to support image stabilization, mosaicing and resolution enhancement
  - Feature detection algorithms: Basis for geo-registration tools, tracking
- // Open plug-in interface to integrate additional algorithms

VIDIS provides a Web based interface for search, replay and administration.

VIDIS	Light	Standard	Advanced 1-n
<b>Clients:</b>	50	100	100/Master
<b>No of Sensors:</b>	1 Sensor	~10 Sensors	~10/Transcoding Slave
<b>Bandwidth:</b>	1000 MBit	2000 Mbit	3000 Mbit/Master
<b>Algorithms:</b>	None	~5	~5/Processing Slave
<b>Data Storage:</b>	12 TB	24 TB	24 TB/Master

## M4COM SYSTEM GMBH

Forstthof 1, 88682 Salem

Tel. +49(0)7553/9175-0

info@m4com.de, www.m4com.de