

XR Streamer

Intelligent network dissemination of ISR motion imagery



Increase accessibility of
real-time motion imagery

Distribution of FMV across
disparate networks and systems

Reduces network bandwidth

Standards compliant
(NGA MISP, STANAG 4609)

Real-time motion imagery distribution

XR Streamer is a software solution that can be relied upon for mission-critical dissemination of motion imagery to users across different networks and data links. Facilitating the distribution of full motion video (FMV) to and from the tactical edge, XR Streamer overcomes the complexity inherent in achieving real time dissemination across networks.

XR Streamer is designed for:

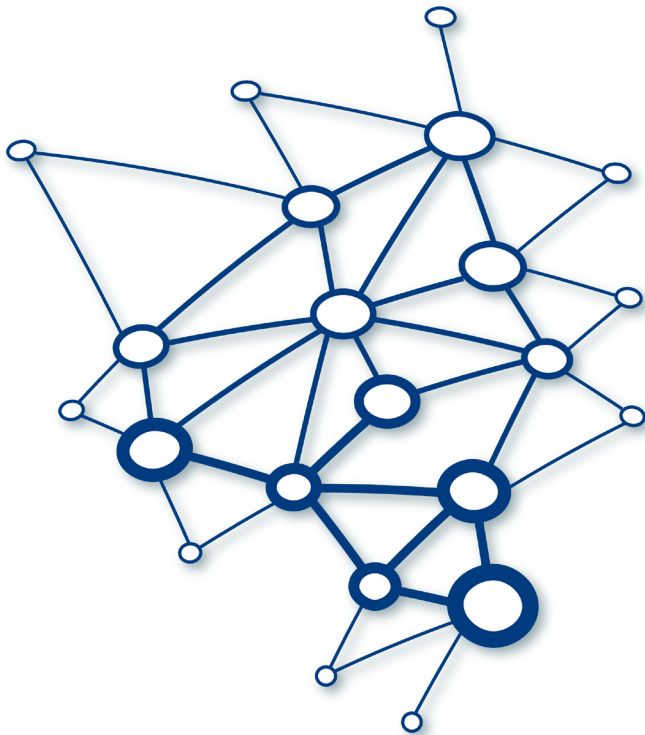
- traversing networks with different bandwidth and reliability
- modifying FMV for content compliance
- conforming FMV to suit individual security classifications.

Providing intelligent processing functions, XR Streamer allows motion imagery to be conformed to suit each distribution path, addressing network requirements and user limitations such as bandwidth, format and content.

XR Streamer can be installed on multiple nodes across the network to control the end-to-end distribution path enabling real-time propagation of motion imagery to systems and users across multiple networks.

XR Streamer

Real-time transcoding and distribution of motion imagery



Transcode, transrate and remEDIATE
video, audio and KLV data

Stream multiple output profiles per input

Route outputs to different network addresses

Bridge networks by specifying different network interfaces

Intelligently throttle and correct KLV metadata

Delivery to constrained networks

The motion imagery generated by ISR systems is often incompatible with network infrastructure and user systems.

Reducing the motion imagery stream bandwidth is a common requirement and can be achieved by transcoding and transrating the video, audio and KLV metadata.

Video and audio bandwidth can be reduced by changing the format, structure and compression level. Audio can be stripped out if required, especially if it impacts the stream's security classification.

XR Streamer is designed to allow operators to make appropriate trade-offs and apply processing functions to conform motion imagery streams for dissemination.

KLV provides the operational context that video alone does not provide. Rather than discard metadata in bandwidth constrained networks, XR Streamer enables the intelligent processing of KLV based on the needs of the user: high rate metadata for analysis functions, low rate for situational awareness.

XR Streamer sanitizes streams by stripping out malicious content before safely streaming data across security domains. Custom modules can also fix incorrectly encoded KLV values.

Installed on existing IT infrastructure, XR Streamer facilitates the real-time transfer of motion imagery over RF, wireless and wired data networks, making it easy to bridge networks and provide administrators with control of their end-to-end video distribution paths.

Technical Specifications*

Supported Standards and Formats

- STANAG 4609 / NGA Motion Imagery Standards Profile compliant, including:
 - Standards 0902, 0601, 0102, 0604, 0903 and EG 0104
 - ESD Carried in Closed Caption fields (Line-21)
- Video Formats
 - AVC (H.264) Base, Main & High Profile
 - MPEG-2 Main and 4:2:2 Profile
- Audio Formats
 - MPEG-1 & 2 Layer-I and II
 - AAC-LC, HE-AAC
- Packetisation
 - MPEG-2 Transport Stream
- IP Network
 - UDP/IP unicast, multicast and broadcast
 - Set network interface (NIC) per input and output
 - Configurable Time-To-Live (TTL)

Minimum System Requirements

- Windows® 7, Windows 8.1, Windows® Server 2008 or Windows® Server 2012
- RAM Needed: 8GB minimum

* Depending on hardware and license.