

About This Standard

Current Status *Mandated*

Standard Identifier MISP v5.1

Title of Standard

Motion Imagery Standards Profile, MISP Version 5.1, 11 December 2008

Standards History

Introduced to Registry	Date Emerging	Date Mandated	Last Status Update	Last Status Review	Inactive/Retired
2009-07-30	n/a	2009-07-30	2009-07-30	2009-07-30	n/a

Replaced [MISP v4.5](#)

Standards Body

[MISB](#)

[Broken Link?](#)

URL to Access or Acquire

<http://www.gwg.nga.mil/misb/>

Working Group

Primary Owner Geospatial Intelligence (GWG)
Secondary Interest No Secondary Interest

Service Area GEOINT: Motion Imagery

KIPs No KIP Found

Standard Applicability

2009-07-30

The MISP should be used by the DoD and Intelligence Communities to create, process, manipulate, exploit, store, archive, and disseminate Motion Imagery (full motion video) both for real-time and other end-user wide area product distribution, in support to imaging applications including (but not limited to) Intelligence, Surveillance, and Reconnaissance (ISR), and Exploitation. It applies to all motion imagery-based systems except for video teleconference and video telemedicine. The MISP applicability includes: - Interchange of digital video and metadata such as sensor to ground stations; ground station to exploitation; and exploitation to archive - Television and movie post production systems - Non-linear digital editing systems - Media archive systems - Media dissemination systems Exchange of finished product(s) multi-media reports and products Reporting systems - Exploitation systems--Interoperability exchange for Common Operational Picture (COP) display systems.

Standard Abstract

2009-07-30

The Motion Imagery Standards Profile (MISP), formerly known as the Video Imagery Standards Profile (VISP), is a profile of international and Government standards to promote interoperability between full motion video systems of the Department of Defense/ Intelligence Community/National System for Geospatial Intelligence (DoD/IC/NSG). The Motion Imagery Standards Board (MISB), formerly known as the Video Working Group (VWG), is the due-process standards body, which produces the MISP. This DoD/IC/NSG Motion Imagery Standards Profile is a direct expression of the MISB mission and serves as the master baseline standards document prepared and managed by the MISB. Following are the changes from MISP

4.5 to 5.0: - 0604, 0102, 0301, and 0601 elevated to Standards - New EG 0801 Photogrammetry Metadata Set - New EG 0802 H.264/Advance Video Coding - New EG 0803 Delivery of Low Bandwidth Motion Imagery - New RP 0804 Real Time Protocol - New EG 0805 Cursor on Target - New EG 0806 Remote Video Terminal Local Data Set - New keys to the Key-Length-Value (KLV) standards dictionary 0807 - New EG 0809 on KLV representation of meteorological data - New EG 0812 on clipping of motion imagery - New EG 0813 on placing motion imagery in the coalition shared database

Profiling Questions

- GEOINT: Motion Imagery**
- Does your system use motion imagery, full motion video (FMV), or just simply video, or do your imaging sensors/ systems generate sequential or continuous streaming images at rates of 1 frame per second or greater within a common field of regard?

Products Incorporating This Standard

Many companies including BAE, Boeing-Autometric, Delta Information Systems, General Automics, General Dynamics, L3, Lockheed-Martin, Media Solutions, PAR Government Systems, and SAIC have developed products based on the MISP.

Relevant Information

This citation was authored by the GWG Motion Imagery Standards Board (MISB).

Implementation Guidance

Guidance for using/implementing this standard is available from the Motion Imagery Standards Board (MISB) [<http://www.gwg.nga.mil/misb/>].

Standard Selection Criteria

Interoperability/Supportability

The Motion Imagery Standards Profile (MISP) is a profile of motion imagery standards that provides the ability to exchange files between fusion/reporting, archive, and geospatial exploitation systems and to stream motion imagery in a netcentric environment. The MISP is ideally suited for source, posting, production, exploitation and dissemination processes.

Technical Maturity

The MISP and its predecessors have been established and utilized for over ten years. The MISP, version 5.1 is a technically mature standard and changed very little from version 5.0. MISP 5.1 has formed the basis for Ratification Draft Edition 3 of STANAG 4609 on digital motion imagery. Many companies including BAE, Boeing-Autometric, General Dynamics, Lockheed-Martin, Media Solutions, Northrup Grumman, PAR Government Systems, and SAIC have developed products based on the MISP. See the Motion Imagery Standards Board (MISB) website for information about standards development activities, companies participating in this development, and organizations that use their products.

Public Availability

<http://www.gwg.nga.mil/misb/>

Implementability

The US Air Force, Army, Navy, Marines, the Intelligence organizations, and many NATO nations use the MISP and its NATO equivalent STANAG 4609. Many companies including BAE, Boeing-Autometric, General Dynamics, Lockheed-Martin, Media Solutions, Northrup Grumman, PAR

Government Systems, and SAIC have developed products based on the MISP. See the Motion Imagery Standards Board (MISB) web site for information about standards development activities, companies participating in this development, and organizations that use their products.

Authority

The Motion Imagery Standards Board, a military standards organization, developed and maintains the MISP. NATO STANAG 4609 on Digital Motion Imagery is based on the MISP. The Motion Imagery Standards Board is open to all who are involved in motion imagery including government and commercial organizations, individuals, and academia.

Standard Type Military

Standard Classification Unclassified

Keywords for Search ASPA, GEOINT, H.264, HTML, IPL, JPEG-2000, KLV, MISB, MPEG2, MXF, STANAG 4609, full motion video, media, motion imagery, multimediacompression, transport stream, video compression, video interchange