About This Standard

Mandated

Standard Identifier **MISB RECOMMENDED PRACTICE 0301.2, version 1.2**

Title of Standard

MISB Profile for Aerial Surveillance and Photogrammetry Applications (ASPA), version 1.2, 12 September 2007

Standards History

Introduced to Registry	Date Emerging	Date Mandated	Last Status Update	Last Status Review	Inactive/ Retired
2008-04-03	n/a	2008-04-03	2008-04-03	2008-04-03	n/a

Replaced MISB RECOMMENDED PRACTICE 0106, v 1.0

Standards Body MISB Broken Link?

URL to Access or Acquire http://gwg.nga.mil/misb/ (requires password)

Working Group

Primary Owner Geospatial Intelligence TWG (GWG)

Secondary Interest No Secondary Interest

Service Area GEOINT: Motion Imagery

KIPs No KIP Found

Standard Applicability

2008-03-27

Application areas for the ASPA profile include: - 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

2008-03-27

The Aerial Surveillance and Photogrammetry Application (ASPA) profile defines a subset of the AAF/MXF specification to directly support NITF, Motion Imagery Standards Profile (MISP)-compliant video (MPEG-2 TS with KLV metadata in the Private Data Stream), JPEG, and HTML for DOD/IC applications. ASPA development was sponsored by NGA's Motion Imagery Standards Board (MISB) to make available a powerful multimedia-multiINT file format. The ASPA profile defines a specific metadata object model for populating metadata from the above file types and makes it available to archive systems and exploitation systems. In effect, ASPA wraps component essence types with the AAF/MXF metadata object model. During 2004, ASPA was provided to AIN 3.0 (BAE) to add AAF support to IPL and NGL imagery archive systems. Documentation and the

reference implementation, known as ASPA Browser version 2.5, are available on the protected side of the MISB web site. The ASPA Browser is an application available for Windows, Solaris, and Linux platforms that can read and create AAF and MXF files. ASPA is a referenced interchange format for NATO coalition operations using digital Motion Imagery and metadata via Edition 2 of STANAG 4609.

Profiling Questions

GEOINT: Motion Imagery	• Does your system exchange motion imagery data with external systems or does your system task, collect, produce, process, catalog, store, read, exploit, or disseminate digital motion imagery?

Products Incorporating This Standard

BAE Systems - ASPA support to IPL and NGL archive systems. Boeing-Autometric - ASPA support to CMIL archive system Lockheed Martin - included the reference implementation ASPA Browser in IEC workstations PAR Government Systems - added ASPA software in GeoView ELT application. SAIC - added ASPA software as part of MITools MIReporter application.

Relevant Information

This citation 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

Net-Centric Interoperability

Aerial Surveillance and Photogrammetry Application(ASPA)-enabled applications provide the ability to exchange files between fusion/reporting, archive, and geospatial exploitation systems. ASPA is ideally suited for source, production, exploitation and dissemination processes (entire TPED process). The ASPA profile allows the building of a fully-networked motion imagery system.

Technical Maturity

The basic Aerial Surveillance and Photogrammetry Application (ASPA) Profile has been in existence since 2001. ASPA version 1.2 is a profile, which can be used with either the Material Exchange Format (MXF- SMPTE 377M) or the Advanced Authoring Format (AAF). These standards have been in existence for a number of years and the profile is a technically mature standard. BAE, Boeing-Autometric, Lockheed-Martin, PAR Government Systems, and SAIC have developed ASPA enabled products. Several companies are involved with MXF- and AAF-ASPA. See the MISB web site for information about standards development activities, companies participating in this development, and organizations that use their products.

Public Availability

ASPA Profile: http://gwg.nga.mil/misb/ (requires password)

Implementability

BAE Systems - ASPA support to IPL and NGL archive systems Boeing-Autometric - ASPA support to CMIL archive system Lockheed Martin - ASPA Browser in IEC workstations PAR Government Systems - ASPA software in GeoView ELT application. SAIC - ASPA software as part of MITools MIReporter application.

Authority

The Motion Imagery Standards Board, a DoD and Intelligence Community standards organization, maintains the Aerial Surveillance and Photogrammetry Applications profile. Edition 2 of NATO STANAG 4609 on Digital Motion Imagery uses the ASPA Profile. The Society of Motion Picture and Television Engineers (SMPTE), an international standards organization, maintains the MXF File Format Specification used by NATO.

Standard Type	Military
Keywords for Search	None