

About This Information/Guidance Document

Current Status *I/G-Active*

Standard Identifier

STDI-0005 Version 1.0

Title of Standard

Implementation Practices of the National Imagery Transmission Format Standard (IPON), 2 August 2007

Standards History

Date Active	Date Inactive
2008-04-03	n/a

Standards Body

[NGA](#)

[Broken Link?](#)

URL to Access or Acquire

<http://www.gwg.nga.mil/ntb/baseline/1999.html>

Standard Applicability

2008-03-27

The National Imagery Transmission Format Standard (NITFS) is a DoD and Federal Intelligence Community suite of standards for the exchange, storage, and transmission of digital-imagery products and image-related products. Other image formats can be used internally within a single system; however, NITFS is the default format for interchange between systems. NITFS provides a package containing information about the image, the image itself, and optional overlay graphics. The format provides a data structure for containing one or more images, subimages, symbols, labels, and text as well as other information (metadata) related to the image(s). NITFS supports the dissemination of digital imagery from overhead collection platforms and post-processed imagery-derived products. STDI-0005, Implementation Practices of the NITFS, provides guidance for the application of the NITFS suite of standards in support of interoperability among systems within the National System for Geospatial Intelligence (NSG), systems that interface with the NSG, and commercial systems that implement the NITFS.

Standard Abstract

2008-03-27

Members of the Geospatial Intelligence Standards Working Group's NITFS Technical Board (NTB) compiled these practices as an aid to those involved with the implementation and use of the NITFS. The content is based upon common practices, procedures, and guidelines used in fielded systems that have successfully implemented the NITFS. To meet a wide range and variety of imagery-related functional requirements, the NITFS has many combinations of implementation options to select from. Those implementing the NITFS should select and apply common practices to meet operational requirements whenever practicable.

Products Incorporating This Standard

BAE Systems, DigitalGlobe, General Dynamics, GeoEye, Harris Corporation, ITT, Leica Geosystems, OverWatch, PAR, PCI Geomatics, PhotoTelesis, Raytheon, and Technology Services Corporation (TSC).

Relevant Information

This citation authored by the GWG NITFS Technical Board (NTB).

Implementation Guidance

This document (IPON) provides guidance for using/implementing the NITFS suite of standardization documents.

Standard Selection Criteria

Net-Centric Interoperability

These guidelines (STDI-0005) support implementation of the National Imagery Transmission Format Standard (NITFS) suite of standards. NITFS is the common thread of interoperability for the formatting, imagery library storage and cataloging, dissemination, and exploitation of National Technical Means (NTM), Tactical Airborne, and Commercial imaging sources.

Technical Maturity

The suite of standards that comprise the NITFS has evolved over time to meet the requirements of user systems. These practices address implementation topics for the NITFS associated with NITF version 1.1, NITF version 2.0, and NITF version 2.1. Many of these practices are also suitable for use with Standardization Agreement (STANAG) 4545, North Atlantic Treaty Organisation (NATO) Secondary Imagery Format (NSIF). Both NITF version 2.1 and NSIF version 1.0 are now documented in the NSIF01.00 Profile of ISO/IEC 12087-5, Basic Image Interchange Format (BIIF).

Public Availability

The IPON is freely available at the following URL: <http://www.gwg.nga.mil/ntb/baseline/1999.html>

Implementability

The NITFS is widely implemented within the DOD and Intelligence Community by National Technical Means (NTM), tactical airborne, commercial satellite imaging systems, imagery library and dissemination systems, and a variety of commercial exploitation workstations. A standards compliance and interoperability program supports implementation of the capabilities specified within this standard.

Authority

The NITFS and this related guidance document (IPON) are prepared by the National Geospatial-Intelligence Agency (NGA). The Geospatial Intelligence Standards Working Group (GWG) and its NITFS Technical Board (NTB) provide an open process for maintaining and developing this guidance document.

Standard Type Military

Keywords for Search None