

About This Standard

Current Status *Mandated*

Standard Identifier STDI-0006, 23 July 2008

Title of Standard

National Imagery Transmission Format (NITF) Version 2.1 Commercial Dataset Requirements Document (NCDRD), 23 July 2008

Standards History

Introduced to Registry	Date Emerging	Date Mandated	Last Status Update	Last Status Review	Inactive/Retired
2009-03-26	n/a	2009-03-26	2009-03-26	2009-03-26	n/a

Replaced [STDI-0006, 20 December 2006](#)

Standards Body [NGA](#) [Broken Link?](#)
URL to Access or Acquire <http://www.gwg.nga.mil/ntb/baseline/docs/stdi0006/index.html>

Working Group

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

Service Area GEOINT: Still Imagery

KIPs No KIP Found

Standard Applicability

2009-03-27

This document applies to all Commercial Data Providers (CDPs) providing commercial imagery to the United States Government (USG) to include National Geospatial Intelligence Agency (NGA) entities. This document applies to USG elements that desire to process the NGA-acquired, CDP-provided commercial imagery. Implementation details of these standardized requirements for the CDPs can be found in the appropriate CDP National Imagery Transmission Format (NITF) Version 2.1 specification. Implementation details of these standardized requirements for the United States Government (USG) user community will be promulgated in NGA Configuration Control Board (NCCB) approved changes to appropriate requirements and specification documents.

Standard Abstract

2009-03-27

This document provides the requirements for standardized commercial imagery datasets provided by Commercial Data Providers (CDPs) in National Imagery Transmission Format (NITF) Version 2.1 to elements of the National Geospatial-Intelligence Agency (NGA) for dissemination to worldwide customers and follow-on applications. These datasets will then be utilized as source material for a variety of analyses and derived products.

Profiling Questions

- GEOINT: Still Imagery** • Does your system use or exchange Commercial Still Imagery data with external systems?

Products Incorporating This Standard

Companies with commercially available implementations/products include DigitalGlobe and GeoEye.

Relevant Information

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

Implementation Guidance

See STDI-0005, Implementation Practices of the NITFS, available at <http://www.gwg.nga.mil/ntb/baseline/docs/ipon/index.html>. The STDI -0005 document is a compilation of common practices, conventions, and guidelines for implementing the National Imagery Transmission Format Standard (NITFS). The objective is to help promote common specification and application of the NITFS suite of standards by all fielded and developmental digital imagery -related systems. It describes common conventions for implementing the suite of NITFS standards that promote and sustain NITFS compliance and interoperability for the production, storage, cataloging, discovery, selection, exploitation, and dissemination of digital imagery, raster map, and other related raster products.

Standard Selection Criteria

Interoperability/Supportability

The NITF Standard (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. STDI-0006, The National Imagery Transmission Format (NITF) Version 2.1 Commercial Dataset Requirements Document (NCDRD) is an Implementation Profile (IP) providing standardized requirements for imagery production and exchange from Commercial Data Providers (CDPs) of over-head imagery in NITF format, to include JPEG 2000 image compression.

Technical Maturity

NITF has been implemented & fielded since the early 1990's. Its content evolved over the years to embrace new technology in support of emerging operational requirements. NITF has adopted the ISO/IEC 15444-1 standard for imagery compression, JPEG 2000. Commercial implementations of the standard are largely driven by marketability to the DoD and IC. The National Imagery Transmission Format (NITF) Version 2.1 Commercial Dataset Requirements Document (NCDRD) is a standardized Implementation Profile (IP) addressing Commercial Data Providers (CDP's) imagery production and exchange requirements for their forthcoming constellation of satellite imaging capabilities.

Public Availability

<http://www.gwg.nga.mil/ntb/baseline/docs/stdi0006/>

Implementability

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. STDI-0006, The National Imagery Transmission Format (NITF) Version 2.1 Commercial Dataset Requirements Document (NCDRD) is being implemented by DigitalGlobe and GeoEye in preparation for the NextView era of commercial satellite imagery. Imagery libraries, dissemination and exploitation systems are preparing to receive and act on NextView era imagery data.

Authority

This document is under the configuration control of the NGA Configuration Control Board (NCCB) in coordination with the NGA Standards Board (NSB). The Geospatial Intelligence Standards Working Group (GWG) and its NITFS Technical Board (NTB) provide the standardization venue for community coordination of this standard. The office of primary responsibility for preparation and maintenance of this document is the NGA/AEG.

Standard Type Military

Standard Classification Unclassified

Keywords for Search CDP, Commercial, NITF, NITFS, Nextview, image, imagery, j2k, jpeg