About This Standard

Current Status *Mandated*

Standard Identifier **MIL-STD-2411-2(1)**

Title of Standard

Integration of Raster Product Format Files into the National Imagery Transmission Format, 26 August 1994, with Notice of Change, Notice 1, 31 March 2004

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

Standards Body DoD Broken Link?

URL to Access or Acquire http://assist.daps.dla.mil/quicksearch

Working Group

Primary Owner Geospatial Intelligence (GWG)
Secondary Interests Information Transfer
Application / Messaging

Service Area GEOINT: Geospatial

KIPs No KIP Found

Standard Applicability

2009-03-27

MIL-STD-2411-2 shall be used in conjunction with MIL-STD-2411 and MIL-STD-2411-1 Geospatial services are also referred to as mapping, charting, and geodesy (MC&G) services. Raster Product Format (RPF) defines a legacy format for the interchange of raster-formatted digital geospatial data among DoD/IC components. Existing geospatial products that implement RPF include Compressed ARC Digitized Raster Graphics (CADRG), Controlled Image Base (CIB), and Digital Point Positioning Data Base (DPPDB). For system applications that need to use RPF-based products, this standard is mandated. This standard is only applicable to CADRG, CIB and DPPDB; it shall not be used for any other products or associated applications.

Standard Abstract

2009-03-27

MIL-STD-2411-2(1) specifies requirements for the integration of Raster Product Format (RPF) files into NITF for recording on computer-readable media for dissemination via digital communication lines. This standard facilitates a common interchange format for users of RPF data and of NITF data. The RPF is a legacy data structure for geospatial databases composed of rectangular arrays of pixel values (e.g., in digitized maps or images) in compressed or uncompressed form. RPF is intended to enable application software to use the data in RPF format on computer-readable interchange media directly without further manipulations or transformation. Each product category that represents a single instantiation of RPF, or a family of instantiations of RPF, has been described in a separate product specification that makes appropriate reference to this RPF standard and its companion standards, MIL-STD-2411, and MIL-STD 2411-1.

Profiling Questions

GEOINT: Geospatial

- Is any of your geospatial data raster-formatted or does your system have requirements to either produce or interpret CIB, CADRG, or DPPDB raster products?

Products Incorporating This Standard

Controlled Image Base (CIB), Compressed ARC Digitized Raster Graphic (CADRG), Digital Point Positioning Data Base (DPPDB) are three products implementing this standard.

Relevant Information

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

Implementation Guidance

MIL-STD-2411-2(1), Integration of Raster Product Format Files Into the National Imagery Transmission Format is considered a sunset data format. Therefore, this standard should be applied to production and use of legacy RPF-formatted data only.

Standard Selection Criteria

Interoperability/Supportability

MIL-STD-2411-2(1) Integration of Raster Product Format Files Into the National imagery Transmission Format specifies the requirements for integration of RPF data into NITF necessary to produce and interpret Controlled Image Base (CIB) and Compressed ARC Digitized Raster Graphics (CADRG) digital raster products. The Digital Point Positioning Data Base (DPPDB) includes selected CADRG maps as map graphic indexes into the database. Data holdings that implement this standard are widely used throughout the DoD/IC for mission planning, theater battle management, terrain analysis, digital moving maps, precision targeting, and weapon engagement.

Technical Maturity

MIL-STD-2411-2(1) has been in use since 1994. The standard is technically mature and stable, to include established conformance test criteria, test tools, test services and technical consultation for the implementation. The sunset condition for this standard is the replacement or inactivation and removal of DPPDB, CIB and CADRG data holdings from data distribution services and consequent use of these data holdings within the DoD/IC.

Public Availability

MIL-STD-2411-2(1) is available for download at no charge on the DoDs ASSIST database at http://assist.daps.dla.mil/quicksearch.

Implementability

The standard has been implemented in the Commercial Joint Mapping Toolkit and by several vendors of commercial-off-the-shelf software.

Authority

MIL-STD-2411-2(1) is an approved military standard.

Standard Type Military

Standard Classification Unclassified

Keywords for Search CADRG, CIB, DPPDB, Graphics, MIL-STD-2411, NITF, NITFS, RPF, Raster Maps, Raster Product, image