

About This Standard

Current Status *Mandated*

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

Title of Standard

Registered Data Values For Raster Product Format, 30 August 1994; with Notice of Change, Notice 1, 16 August 2001, and Notice of Change, Notice 2, 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-2411-1 shall be used in conjunction with MIL-STD-2411 and MIL-STD-2411-2. 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

The Raster Product Format (RPF) document is a companion document to the military standard for MIL-STD-2411, RPF. It contains all registered data values referenced in the standard. 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 standard, MIL-STD-2411, which defines the overall RPF approach. MIL-STD-2411-2 (NOTE 1), Integration of Raster Product Format Files into the National Imagery Transmission Format, describes how RPF data (e.g., for CIB and CADRG) are formatted using the National Imagery Transmission Format Standard (NITFS).

Profiling Questions

GEOINT: Geospatial

- 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), and Digital Point Positioning Data Base (DPPDB) are three products incorporating this standard.

Relevant Information

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

Implementation Guidance

MIL-STD-2411-1(2), Registered Data Values for Raster Product Format is considered a sunset data format and should be applied to production and use of legacy RPF-formatted data only.

Standard Selection Criteria

Interoperability/Supportability

MIL-STD-2411-1(2) Registered Data Values For Raster Product Format specifies registers data values 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-2411-1(2) 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-2411-1(2) is available for download at no charge on the DoD's 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-2411-1(2) is an approved military standard.

Standard Type

Military

Standard Classification Unclassified

Keywords for Search

CADRG, CIB, DPPDB, Graphics, MIL-STD-2411, NITF, NITFS, RPF, image, raster maps, raster product