

## About This Standard

Mandated

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

**Title of Standard**

Raster Product Format, 6 October 1994; with Notice of Change, Notice 1, 17 January 1995, and Notice of Change, Notice 2, 16 August 2001

**Standards History**

Introduced to Registry	Date Emerging	Date Mandated	Last Status Update	Last Status Review	Inactive/Retired
2003-04-04	n/a	2003-04-04	2003-04-04	2008-07-14	n/a

**Replaced** [MIL-STD-2411\(1\)](#)

**Standards Body** [DoD](#) [Broken Link?](#)  
**URL to Access or Acquire** <http://assist.daps.dla.mil/quicksearch>

**Working Group**

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

**Service Area** GEOINT: Geospatial

**KIPs** KIP Family: TRANSPORT - KIP: Integrated Broadcast System  
KIP Family: TRANSPORT - KIP: IBS

**Standard Applicability**

**2008-07-17**

Geospatial services are also referred to as mapping, charting, and geodesy (MC&G) services. Raster Product Format (RPF) defines a common format for the interchange of raster-formatted digital geospatial data among DoD 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 raster-based products, this standard is mandated.

**2003-10-03**

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**Standard Abstract**

**2008-07-17**

The Raster Product Format (RPF) is a standard 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, shall be described in a separate product specification that makes appropriate reference to this RPF standard and its companion standard, MIL-STD-2411-1, which defines registered data values to be used with RPF files. 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 Mil-Std-2500, The National ImageryTransmission Format Standard (NITF).

#### **2003-04-04**

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#### **Profiling Questions**

**GEOINT: Geospatial** • Is any of your geospatial data raster-formatted?

#### **Products Incorporating This Standard**

Controlled Image Base (CIB), Compressed ARC Digitized Raster Graphic (CADRG), Digital Point Positioning Data Base (DPPDB)

#### **Relevant Information**

This DoD Military Standard is used by the National Geospatial-Intelligence Agency (NGA) to produce, and outsource production of CIB, CADRG, and DPPDB data. Administrative Notice 3, 31 March 2004, has been added to the DoD's ASSIST database. It informs users of the change in name of the preparing activity from the Defense and Mapping Agency (DMA) to the National Geospatial-Intelligence Agency (NGA). This citation authored by the GWG NTB Focus Group.

#### **Implementation Guidance**

None

#### **Standard Selection Criteria**

##### **Net-Centric Interoperability**

MIL-STD-2411(2) Raster Product Format specifies a format and metadata requirements for all the Controlled Image Base (CIB) and Compressed ARC Digitized Raster Graphics (CADRG) digital raster map holdings provided by the NGA. 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) 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 for NGA data distribution services and consequent use of these data holdings within the DoD/IC.

**Public Availability**

MIL-STD-2411(2) is available for download at no charge on the DoDs ASSIST database <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) is an approved military standard.

**Standard Type** Military

**Keywords for Search** CADRG, CIB, DPPDB, Graphics, MIL-STD-2411(1), NITF, NITFS, RPF maps, Raster Product, data, image