



DISDI GEOSPATIAL METADATA PROFILE (DGMP)

Defense Installation Spatial Data Infrastructure (DISDI)

The DoD Installations and Environment (I&E) community has a new geospatial metadata standard: the DGMP. This new standard was developed in response to the recent publication of the international standard (ISO) 19115:2003 Geographic Information - Metadata, and the mandate for its use in DoD IT systems (see the DoD IT Standards Registry (DISR)). Over the last year, the DISDI Program teamed with the standards coordination bodies of the National Geospatial-Intelligence Agency to develop the DGMP.

The DGMP is intended to describe IGI&S community data holdings and to harmonize with current mandated, ongoing Federal and DoD information management efforts. It replaces the Federal Geographic Data Committee (FGDC) Content Standard for Digital Geospatial Metadata (CSDGM) for DoD IGI&S data and aligns with the GEOINT National Metadata Framework (NMF). The FGDC is developing its own profile of the ISO 19115 standard, called the FGDC North American Profile (NAP).

DUSD (I&E) Guidance

The DGMP was officially designated as the metadata standard for the DoD I&E community in a guidance memorandum signed April 14, 2009. Conversion of existing geospatial metadata to the DGMP format will occur as directed by each DoD Component. The implementation of the DGMP is being supported by OSD using central web-based tools, described in greater detail below.

All IGI&S data shall have appropriate metadata, conformal with the DGMP.

Source: DUSD(I&E) Guidance Memorandum, April 14, 2009

Metadata Profile Specification 1.0

Under the authority of the I&E Domain Governance Board, the DGMP was developed and published by the DISDI Group. It was formally issued as a version 1.0 Specification in August 2008. The DGMP Specification is the minimum profile of 19115 for the DoD I&E community. The Components may, at their discretion, create their own profiles mandating the capture of metadata elements not contained in the DGMP, add coded values to existing DGMP domain lists, or impose more strict metadata requirements than the baseline level of requirement in the DGMP.

XML Schema

An XML Schema for the DGMP has been developed in parallel with the Specification document. This XML Schema will be used to support the transfer of DGMP metadata resources as appropriate across the I&E spatial data enterprise.



Imagery Metadata

The original ISO 19115 standard was amended with a Part 2 specifically covering metadata for imagery. This was not addressed in the original release of the DGMP Specification version 1, thus an amendment effort is underway to prepare a DGMP Specification that includes imagery.

CSDGM-to-DGMP Translation Tool

To support the conversion to the DGMP, a web based tool was created to translate legacy metadata in the CSDGM format to the new DGMP format. This conversion tool is available on the DISDI Portal. It can accept uploads of CSDGM files, stage them for translation, perform the translation, and offer the resulting DGMP files back out for download by the user.

DGMP Editing Capability

A DISDI Program effort is currently underway to define and provide a tool to support the generation and maintenance of DGMP metadata resources in the I&E community. A requirements analysis was performed across the Components, and a recommendation document is being prepared with prototyped capabilities. After review by the DISDI Group, a final editing tool solution will be prepared.

DGMP Discovery Capability

The DoD net-centric information initiative relies upon metadata as an important resource supporting the discoverability of geospatial data assets. Geospatial data end users must have access to information that enables them to make critical decisions about the usability of geospatial data. Tools are being considered that will provide potential end users of geospatial data with the access to DGMP metadata in support of net-centric discoverability goals.

