

## About This Standard

**Current Status** *Emerging*

**Standard Identifier** NGCMP v1.0

### **Title of Standard**

National System for Geospatial Intelligence (NSG) Geospatial Core Metadata Profile, Version 1.0, August 2007

### **Standards History**

Introduced to Registry	Date Emerging	Date Mandated	Last Status Update	Last Status Review	Inactive/Retired
2007-11-06	2007-11-06	n/a	2007-11-06	2009-03-26	n/a

### **Standards Body**

[NGA](#)

[Broken Link?](#)

### **URL to Access or Acquire**

<http://www.gwg.nga.mil>

### **Working Group**

#### **Primary Owner**

Geospatial Intelligence (GWG)

#### **Secondary Interest**

No Secondary Interest

### **Service Area**

GEOINT: Geospatial

### **KIPs**

No KIP Found

### **Standard Applicability**

#### **2009-03-27**

This Metadata Profile is applicable to systems interacting with the National System for Geospatial Intelligence. The ISO Standards, Department of Defense Metadata Specification, and the Intelligence Metadata Guidance documents are applicable to provide common Geospatial Metadata and XML specification for describing, validating and exchanging geographic metadata. This Metadata Profile is intended to promote interoperability within the Geospatial Community of Interest. The importance of metadata is that it enables discovery of information and many other resources and is a key enabler of data and system interoperability. Metadata is first data about data that describes the content and the appropriate use of a data resource. Second, metadata has been expanded to enable finding other resources such as geospatial systems, standards and other specific information. In the current movement to an increasingly net-centric world, the speed, agility and interoperability required cannot be met without metadata. Metadata is becoming even more critical as the volumes of archived data and imagery, and other geospatial resources continue to grow at rapid rates. One example is the airborne community's imagery libraries with its volume of data. Human search efforts could not possibly access and evaluate all this volume of data to come even close to the operational time constraints. Without metadata many of the searches would have to be conducted with Google-like tools with much effort spent trying to determine if the data or other resource meets the specific need. Without metadata, a consumer could not search and retrieve the data that contains the characteristics and content necessary to support a required mission. Metadata instills data accountability and limits data liability. This is especially true for the National System for Geospatial-Intelligence (NSG) in the use of geospatial intelligence (GEOINT) data. Providing metadata according to the applicable standards, including harmonization between the required

metadata standards, further increases the metadata work. It is critical that the work and development of metadata and metadata standards for NGA and GEOINT data and other informational resources be funded in the current move to an increasingly net-centric environment to provide the critical high level of customer support required of NGA.

**2007-11-08**

This Metadata Profile is applicable to systems interacting with the National System for Geospatial Intelligence. The ISO Standards, Department of Defense Metadata Specification, and the Intelligence Metadata Guidance documents are applicable to provide common Geospatial Metadata and XML specification for describing, validating and exchanging geographic metadata. This Metadata Profile is intended to promote interoperability within the Geospatial Community of Interest. The importance of metadata is that it enables discovery of information and many other resources and is a key enabler of data and system interoperability. Metadata is first data about data that describes the content and the appropriate use of a data resource. Second, metadata has been expanded to enable finding other resources such as geospatial systems, standards and other specific information. In the current movement to an increasingly net-centric world, the speed, agility and interoperability required cannot be met without metadata. Metadata is becoming even more critical as the volumes of archived data and imagery, and other geospatial resources continue to grow at rapid rates. One example is the airborne community's imagery libraries with its volume of data. Human search efforts could not possibly access and evaluate all this volume of data to come even close to the operational time constraints. Without metadata many of the searches would have to be conducted with Google-like tools with much effort spent trying to determine if the data or other resource meets the specific need. Without metadata, a consumer could not search and retrieve the data that contains the characteristics and content necessary to support a required mission. Metadata instills data accountability and limits data liability. This is especially true for the National System for Geospatial-Intelligence (NSG) in the use of geospatial intelligence (GEOINT) data. Providing metadata according to the applicable standards, including harmonization between the required metadata standards, further increases the metadata work. It is critical that the work and development of metadata and metadata standards for NGA and GEOINT data and other informational resources be funded in the current move to an increasingly net-centric environment to provide the critical high level of customer support required of NGA.

### **Standard Abstract**

**2009-03-27**

The purpose of this Metadata Profile is to establish and define a systematic approach to managing, organizing, and disseminating standards to the development population. This profile also establishes and maintains agreement between the customer and the project team on changing standards. Various metadata profiling and harmonization efforts are being undertaken across the NSG community, among them the influence of current ISO standards development work to support NSG geospatial metadata requirements. To achieve this, metadata is developed at several different levels, and the GWG Metadata Focus Group (MFG) has developed recommended core metadata sets for each of these levels for use in the NSG community. At the DISR 09-1 voting meeting (5 Feb 09), the GWG voted to retain this standard as emerging because the NSG Metadata Foundation (NMF) and NSG Metadata Implementation Specification (NMIS), currently in development, will replace the NGCMP v1.0.

**2007-11-08**

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### **Profiling Questions**

#### **GEOINT: Geospatial**

- Do you need a common XML specification for describing, validating and exchanging geospatial metadata or are your geospatial metadata requirements driven by Department of Defense Discovery Metadata Specification, and Intelligence Community Metadata requirements and appropriate ISO standards or does your system require standards that provide a clear procedure for the description of digital geographic datasets so that users will be able to determine whether the data in a holding will be of use to them and how to access the data?

### **Products Incorporating This Standard**

The NSG Geospatial Metadata Profile which has been adopted by the NGA and others through programs such as GeoScout, the Air Force Distributed Common Ground System (AF-DCGS), Analytical Spatial Data Initiative (ASDi), Multinational Geospatial Co-Production Group Technical Group (MGCP), and Geospatial Knowledge Base-Feature (GKB-F)

### **Relevant Information**

Citation authored by the GWG Metadata Focus Group

### **Implementation Guidance**

None

### **Standard Selection Criteria**

#### **Interoperability/Supportability**

This Standards Profile (in conjunction with other ISO TC 211 standards) will form the basis for the interchange, implementation and distribution of future geospatial intelligence data. This Profile is to be used specifically with ISO 19115 - Metadata and ISO/TS 19139 - Metadata - XML schema Implementation. This profile addresses the Minimum Core Geospatial Metadata for the Discovery and Retrieval of National System for Geospatial Intelligence (NSG) Geospatial Metadata Types. The Profile also incorporates the Dublin Core Metadata Element Set, the Department of Defense Discovery Metadata Specification (DDMS), and Intelligence Community Metadata standards (Intelligence Information Sharing Standard for Resource Metadata Element Set, Intelligence Information Sharing Standard for Information Security, and Intelligence Information Sharing Standard Application Profile).

### **Technical Maturity**

This NSG Geospatial Core Metadata Profile is based on mature International Standards, specifically ISO 19115 - Metadata and ISO/TS 19139 - Metadata - XML schema Implementation, the Dublin Core Metadata Element Set, the DoD DDMS, and Intelligence Community Metadata requirements. Drafts of this Geospatial Metadata Profile have been reviewed by the wide Geospatial community and approved by all major organizations affiliated with the Geospatial Intelligence Standards Working Group (GWG).

### **Public Availability**

This Metadata profile is publicly available, free of charge, in either hardcopy (paper) or softcopy (PDF) form, from the Geospatial Intelligence Standards Working Group (GWG), <http://www.gwg.nga.mil>.

### **Implementability**

This Metadata Profile has been adopted by the NGA and others through programs such as GeoScout, the Air Force Distributed Common Ground System (AF-DCGS), Analytical Spatial Data Initiative (ASDi), Multinational Geospatial Co-Production Group Technical Group (MGCP), and Geospatial Knowledge Base-Feature (GKB-F) under an agreement with the Metadata Focus Group, operating under the GWG.

### **Authority**

The Metadata Focus Group (MFG) of the Geospatial Intelligence Standards Working Group (GWG), under the authority of the National Geospatial-Intelligence Agency (NGA).

**Standard Type** Non-Military

**Standard Classification** Unclassified

**Keywords for Search** 15836, 19115, 19139, CISS, DDMS, Dublin Core, XML schemas, catalog, data dictionaries, dictionary, feature, geographic, geospatial, metadata, quality, raster, security, sensor, vector