

About This Standard

Mandated

Standard Identifier ISO 19123:2005

Title of Standard

Geographic information - Schema for coverage geometry and functions, August 31, 2005

Standards History

Introduced to Registry	Date Emerging	Date Mandated	Last Status Update	Last Status Review	Inactive/Retired
2006-06-27	n/a	2006-06-27	2006-06-27	2006-06-27	n/a

Standards Body [ISO](#)

[Broken Link?](#)

URL to Access or Acquire <http://www.ansi.org>

Working Group

Primary Owner Geospatial Intelligence TWG (GWG)
Secondary Interests Application / Messaging TWG
Business
Modeling and Simulation TWG
Warfighting

Service Area GEOINT: Geospatial

KIPs No KIP Found

Standard Applicability

2006-06-27

This standard is applicable to the storage, manipulation, interchange, and exploitation of geospatial intelligence data.

Standard Abstract

2006-06-27

This International Standard defines a conceptual schema for the spatial characteristics of coverages. Coverages support mapping from a spatial, temporal, or spatiotemporal domain to feature attribute values where feature attribute types are common to all geographic positions within the domain. A coverage domain consists of a collection of direct positions in a coordinate space that may be defined in terms of up to three spatial dimensions as well as a temporal dimension. Examples of coverages include grids, triangulated irregular networks, point coverages, polygon coverages, and segmented curve coverages. This standard defines the relationship between the domain of a coverage and an associated attribute range. The standard specifies a set of interfaces to provide access to the information contained within coverages of several different types.

Profiling Questions

GEOINT: Geospatial

- Does application involve overhead imagery, terrain characteristics?

Products Incorporating This Standard

None

Relevant Information

None

Implementation Guidance

None

Standard Selection Criteria

Net-Centric Interoperability

ISO 19123 is one of a suite of standards developed by ISO TC211 to support acquiring, processing, analyzing, accessing, presenting and transferring geographic information in digital/electronic form between different users, systems and locations. Most of the elements specified in the standard have been implemented in XML as part of the Geography Markup Language 3.0 developed by the Open Geospatial Consortium.

Technical Maturity

ISO 19123 was developed over a period of several years on the basis of existing geographic information systems technology. The standard was published as an International Standard in Spring 2005. The Open Geospatial Consortium Web Coverage Service Specification defines an interface for accessing coverages that conform to ISO 19123. ISO 19123 has been used as the basis for part of the Geographic Information Framework Data Content Standards currently being developed as an American National Standard.

Public Availability

ISO 19123 has been published as an International Standard, available from ISO. It has also been adopted as an American National Standard and will be available from <http://webstore.ansi.org/ansidocstore/default.asp> in PDF format.

Implementability

This standard defines a conceptual model, specified in the Unified Modeling Language. It is not designed to be implemented directly; rather, it is expected that elements from the standard will be incorporated into application schemas, along with elements from conceptual models specified in other ISO/TC211 developed standards.

Authority

Published by the International Organization for Standardization (ISO) as an International Standard and adopted by the American National Standards Institute as an American National Standard.

Standard Type Non-Military

Keywords for Search None

