

About This Standard

Mandated

Standard Identifier ISO 19107:2003

Title of Standard

Geographic information - Spatial schema, 08 May 2003

Standards History

Introduced to Registry	Date Emerging	Date Mandated	Last Status Update	Last Status Review	Inactive/Retired
2005-05-04	n/a	2005-05-04	2005-05-04	2005-05-04	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 Messaging Format/Symbology TWG
Application / Messaging TWG
Modeling and Simulation TWG
DoD Intelligence
Discovery TWG
Warfighting

Service Area GEOINT: Geospatial

KIPs No KIP Found

Standard Applicability

2005-05-04

This standard is applicable to the storage, manipulation, interchange, and exploitation of geospatial intelligence data in vector form. It forms part of an overall conceptual model for geospatial data in vector form that will eventually replace MIL-STF-2407.

Standard Abstract

2005-05-04

This International Standard (ISO 19107:2003, Geographic information - Spatial schema) specifies conceptual schemas for describing the spatial characteristics of geographic features, and a set of spatial operations consistent with these schemas. It treats vector geometry and topology up to 3 dimensions. It defines standard spatial operations for use in access, query, management, processing, and data exchange of geographic information for spatial (geometric and topological) objects of up to 3 topological dimensions embedded in coordinate spaces of up to 3 axes.

Profiling Questions

GEOINT: Geospatial

- Does this application require the interchange, distribution, manipulation, or exploitation of geospatial intelligence data

in vector form?

Products Incorporating This Standard

None

Relevant Information

None

Implementation Guidance

None

Standard Selection Criteria

Net-Centric Interoperability

This standard (in conjunction with other ISO TC211 standards) will form the basis for the interchange and distribution of future geospatial intelligence data in vector form.

Technical Maturity

This is a mature International Standard. ♦ ♦ Drafts of this standard were reviewed by experts from a number of nations, and the standard was approved by multiple national standards bodies, including the US (ANSI).

Public Availability

Copies of this standard are publically available, in either hardcopy (paper) or softcopy (PDF) form, from the International Standards Organization at a charge of 220 CHF (Swiss francs). Copies of this standard are also publicly available from ANSI (www.ansi.org) in PDF format. It is listed as ISO 19107:2003 for \$175, and as INCITS/ISO 19107 - 2003 for \$18.

Implementability

This standard defines a conceptual model. It is not necessarily directly implementable, but rather defines a basis from which profiles and application schemas can be derived to meet the requirements of specific application domains.

Authority

This is an International Standard, published by the International Standards Organization (ISO).

Standard Type

Non-Military

Keywords for Search

curve, edge, face, feature, geographic information, geometric object, geometry, geospatial, node, point, solid, spatial object, spatial schema, surface, topological object, topology, vector