

## About This Standard

Mandated

**Standard Identifier**      **ISO 19108:2002 w/ Cor 1:2006**

### **Title of Standard**

Geographic information - Temporal schema, 12 September 2002, with Technical Corrigendum 1, 16 October 2006

### **Standards History**

Introduced to Registry	Date Emerging	Date Mandated	Last Status Update	Last Status Review	Inactive/Retired
2008-04-03	n/a	2008-04-03	2008-04-03	2008-04-03	n/a

**Replaced**      [ISO 19108:2002](#)

**Standards Body**      [ISO](#)      [Broken Link?](#)

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

### **Working Group**

**Primary Owner**      Geospatial Intelligence TWG (GWG)  
**Secondary Interests**      Business  
Warfighting

**Service Area**      GEOINT: Geospatial

**KIPs**      No KIP Found

### **Standard Applicability**

**2008-03-27**

This standard is applicable to the storage, manipulation, interchange, and exploitation of geospatial intelligence data. This standard is also applicable to other types of data that have a significant temporal representation component.

### **Standard Abstract**

**2008-03-27**

This International Standard defines the standard concepts needed to describe the temporal characteristics of geographic information as they are abstracted from the real world. Temporal characteristics of geographic information include feature attributes, feature operations, feature associations, and metadata elements that take a value in the temporal domain. The standard also specifies a model for describing the temporal reference systems such as calendars and temporal coordinate systems.

### **Profiling Questions**

**GEOINT: Geospatial**

- Does your application require information about times associated with spatial objects or does your application represent and/or manipulate time coordinates (events and/or intervals)?

### **Products Incorporating This Standard**

Incorporated into a number of OGC standards and their implementations; see <http://www.opengeospatial.org/resource/products> for specific products.

### **Relevant Information**

This citation authored by the GWG Application Schemas for Feature Encoding (ASFE) Focus Group

### **Implementation Guidance**

It is recommended that ISO 19136:2007 (GML 3.2.1) be used as the XML-based encoding of this standard.

### **Standard Selection Criteria**

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

ISO 19108:2002/Cor1 :2006 is one of a suite of standards developed by ISO TC211 to support acquiring, processing, analyzing, accessing, presenting and transferring geospatial information in digital/electronic form between different users, systems and locations. This standard builds on the XML Schema standard to specify a robust temporal model and temporal calculus for reasoning about events and durations. The modeling elements specified in this standard have been implemented in XML as part of ISO 19136:2007 (Geography Markup Language).

#### **Technical Maturity**

ISO 19108:2002 was developed over a period of several years on the basis of existing geographic information systems technology. In May of 2001, 27 national standards bodies, including the American National Standards Institute (ANSI), approved the Draft International Standard, with no objections. It has been adopted by ANSI as an American National Standard. ISO 19108:2002/Cor1 :2006 includes minor corrections and updates. This standard is used in many Open Geospatial Consortium (OGC) standards (e.g., the Web Feature Service) that are widely implemented commercially.

#### **Public Availability**

ISO 19108:2002 has been adopted as an American National Standard and is available from <http://webstore.ansi.org/RecordDetail.aspx?sku=INCITS%2fISO+19108%3a2002> in PDF format for \$30 (the Corrigendum is free). This standard is also available for purchase from ISO at:  
[http://www.iso.org/iso/iso\\_catalogue/catalogue\\_tc/catalogue\\_detail.htm?csnumber=44883](http://www.iso.org/iso/iso_catalogue/catalogue_tc/catalogue_detail.htm?csnumber=44883)

#### **Implementability**

This standard defines a conceptual model, specified in the Unified Modeling Language (UML). 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