
























Abstract Specifications

The OGC Technical Committee (TC) has developed an architecture in support of its vision of geospatial technology and data interoperability. The Abstract Specification provides the conceptual foundation for most OGC specification development activities. Standards and protocols are built and referenced against the Abstract Specification, thus enabling interoperability between different brands and spatial processing systems. The Abstract Specification provides a reference model for the development of OGC Implementation Standards.


Document Title (click to view/download)	OGC Doc.#	Editor
 Topic 0 - Overview	04-084r4	George Percivall
This document (Topic 0) is an overview of the OGC Abstract Specification.		
 Topic 1 - Features and geometry – Part 1: Feature models	17-087r13	John R. Herring
The Implementation Standard "Features and geometry – Part 1: Feature models" describes how geographic information in datasets and databases is structured, created, stored, queried and manipulated. URLs in this document are identifiers of structural elements of a standard, such as requirements, classes, and conformance test suites.		
 Topic 2 - Referencing by coordinates Corrigendum	18-005r5	Roger Lott
This document is identical in normative content with the latest edition (2019) of ISO 19111, Geographic Information - Spatial referencing by coordinates.		
 Topic 3 - Locational Geometry Structures	99-103	Cliff Kottman
Provides essential and abstract models for GIS technology that is widely used.		
 Topic 4 - Stored Functions and Interpolation	99-104	Cliff Kottman
This Topic Volume provides essential and abstract models for technology that is used widely across the GIS landscape. Its first heavy use is expected in Coverage specifications (see Topic 6, The Coverage Type).		
 Topic 5 - Features	08-126	Cliff Kottman and C Reed
From ISO 19101, "A feature is an abstraction of a real world phenomenon"; it is a geographic feature if it is associated with a location relative to the Earth.		
 Topic 6 - Schema for coverage geometry and functions	07-011	OGC
This International Standard defines a conceptual schema for the spatial characteristics of coverages. Coverages support mapping from a spatial, real-world domain to feature attribute values where feature attribute types are common to all geographic positions within the domain. A coverage domain contains direct positions in a coordinate space that may be defined in terms of up to three spatial dimensions as well as a temporal dimension.		
 Topic 7 - Earth Imagery	04-107	George Percivall
Replaced previous material in Topic 7 with ISO 19101-2, Reference Model - Geographic Information - Imagery. Version 5 of OGC Topic 7 is identical with ISO 19101-2. Topic 7 will be updated jointly with the progress of ISO 19191-2. Appendix A of Topic 7, version 4 contained a "White Paper on Earth Image Geometry" which is now separate OGC Recommendation document.		
 Topic 8 - Relationships Between Features	99-108r2	Cliff Kottman
This Topic introduces an abstraction for the relationships between entities in the real world. This abstraction is modeled as relationships between the entities of Topic 5.		
 Topic 10 - Feature Collections	99-110	Cliff Kottman
An OpenGIS Feature Collection is an abstract object consisting of Feature Instances, their Feature Schema, and Project Schema.		
 Topic 11 - Metadata	11-111r1	ISO

Document Title (click to view/download)	OGC Doc.#	Editor
Same as ISO 19115-1:2014. Abstract Specification Topic 11 was updated to the latest version of the ISO metadata standard on 21 September 2016. Prior to the same as ISO 19115:2003. Please note that many OGC standards and other related work normatively refer to the previous version of this Topic.		
 Topic 12 - The OpenGIS Service Architecture	02-112	ISO
Same as ISO 19119		
 Topic 13 - Catalog Services	99-113	Cliff Kottman
Covers the Geospatial Information Access Services		
 Topic 14 - Semantics and Information Communities	99-114	Cliff Kottman
The OpenGIS notion of Information Communities was devised to enable groups such as ecologists and civil engineers to efficiently manage the semantic mismatches of their own geodata collections and get maximum benefit from each other's geodata collections, despite semantic differences.		
 Topic 15 - Image Exploitation Services	00-115	Cliff Kottman, Arliss Whiteside
Describes the categories and taxonomy of image exploitation services needed to support the use of images and certain related coverage types.		
 Topic 16 - Image Coordinate Transformation Services	00-116	Cliff Kottman, Arliss Whiteside
Covers image coordinate conversion services.		
 Topic 17 - Location Based Mobile Services	00-117	Cliff Kottman
Draft Abstract Spec for Location Based Services. Never formally adopted		
 Topic 18 - Geospatial Digital Rights Management Reference Model (GeoDRM RM)	06-004r4	Graham Vowles
This document is a reference model for digital rights management (DRM) functionality for geospatial resources (GeoDRM). As such, it is connected to in that geospatial resources must be treated as nearly as possible like other digital resources, such as music, text, or services. It is not the intention to that already exists and is thriving, but to make sure that a larger market has access to geospatial resources through a mechanism that it understands the ones already in use.		
 Topic 19 - Geographic information - Linear referencing	10-030	Paul Scarponcini
Same as ISO IS 19148: 2012. Download at http://www.iso.org		
 Topic 20 - Observations and Measurements	10-004r3	Simon Cox
This International Standard defines a conceptual schema for observations, and for features involved in sampling when making observations. These exchange of information describing observation acts and their results, both within and between different scientific and technical communities. Observations involve sampling of an ultimate feature of interest. This International Standard defines a common set of sampling feature types classified primarily as well as samples for ex-situ observations. The schema includes relationships between sampling features (sub-sampling, derived samples). This International Standard concerns only externally visible interfaces and places no restriction on the underlying implementations other than what is needed to satisfy the intended actual situation.		
 Topic 21 - Discrete Global Grid Systems - Part 1 Core Reference system and Operations and Equal Area E	20-040r3	Robert Gibb
This Abstract Specification lays the foundations for Discrete Global Grid Systems (DGGS). It defines Common classes for spatio-temporal geometry, systems using identifiers, a DGGS Core Reference system as a reference system using zonal identifiers with structured geometry that may be spatio-temporal Core Functions, and it specifies Equal-Area Earth DGGS. The OGC DGGS Abstract Specification supports the specification of standardized DGGS for the integrated analysis of very large, multi-source, multi-resolution, multi-dimensional, distributed geospatial data. Interoperability between OGC DGGS is anticipated through implementation standards, and extension interface encodings of OGC Web Services.		
 Topic 22 - Core Tiling Conceptual and Logical Models for 2D Euclidean Space	19-014r3	Carl Reed
This OGC Abstract Specification (AS) defines: A conceptual model for tiling space in any dimension and; A logical model for 2D tiled structures and their logical model is based on the conceptual model. The conceptual model specified in this Abstract Specification could be a sub-class in a more complete Partitioning Conceptual Model. Additional Parts may be added to this AS for other dimensions, such as 3D, or other uses cases.		
 Topic Domain 1 - Telecommunications Domain	01-042	Tom Strickland
Domain Model for telecommunications Networks		

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