



Federal Geographic Data Committee Standards Update November 2014

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FGDC

The FGDC Standards WG will meet on Thursday, December 11. Topics:

- For information
 - NASA Earth Science Data and Information System (ESDIS) Standards Office (ESO)
 - USGS Standards DB Explorer
- For recommendation:
 - draft revised Geographic Information Framework Data Content Standard, Part 4: Geodetic Control
 - draft revised FGDC Standards WG charter
 - final draft Shoreline Data Content Standard

INCITS Technical Committee L1, Geographic information systems – U.S. Technical Advisory Group to ISO Technical Committee 211, Geographic information/Geomatics

Meetings

INCITS L1/U.S. TAG met October 31 at Esri in Vienna, Virginia.

ISO/TC 211 met November 24-28 in Shenzhen, China. The British Standards Institute (BSI) has offered to host the ISO/TC 211 meetings in Southampton, United Kingdom, in May/June 2015.

INCITS L1/U.S. TAG will meet on Wednesday, December 10 at GMU CSISS.

2015 Five-Year National Maintenance of INCITS Standards

Standard Designation [adoption year]	Title
INCITS/ISO 19108:2002/COR1:2006[2010]	Geographic information - Temporal schema TECHNICAL CORRIGENDUM 1
INCITS/ISO/TS 19139:2007[2010]	Geographic information - Metadata - XML schema implementation
INCITS/ISO/TS 19138:2006[2010]	Geographic information - Data quality measures
INCITS/ISO 19128:2005[2010]	Geographic information - Web Map server interface
INCITS/ISO/TS 19127:2005[2010]	Geographic information - Geodetic codes and parameters
INCITS/ISO 19136:2007[2010]	Geographic information - Geography Markup Language
INCITS/ISO 19125-2:2004[R2010]	Geographic information - Simple feature access - Part 2: SQL option
INCITS/ISO 19125-1:2004[R2010]	Geographic information - Simple feature access - Part 1: Common architecture
INCITS/ISO 6709:2008/COR 1:2009[2010]	Standard representation of geographic point locations by coordinates
INCITS/ISO 19144-1:2009[2010]	Geographic information - Classification Systems - Part 1: Classification system structure
INCITS/ISO 19111-2:2009[2010]	Geographic information - Spatial referencing by coordinates - Part 2: Extension for parametric value
INCITS/ISO/TS 19103:2005[2010]	Geographic information - Conceptual schema language
INCITS/ISO/TS 19104:2008[2010]	Geographic information - Terminology
INCITS/ISO 19110:2005[R2010]	Geographic information - Methodology for feature cataloguing
INCITS/ISO 19116:2004[R2010]	Geographic information - Positioning services
INCITS/ISO 19106:2004[R2010]	Geographic information - Part 6: Profiles
INCITS/ISO 19119:2005[R2010]	Geographic information - Services

Contact Julie Maitra, principal FGDC rep to L1, or your agency's representative(s) to INCITS L1 for more information.

Open Geospatial Consortium

Upcoming TC/PC meeting

The OGC TC/PC meeting was held December 1-5 in Tokyo.

Testbed 11

OGC® issued a Request for Quotation/Call for Participation (RFP/CFP) in the OGC Testbed 11 Interoperability Testbed. Responses were due by 5:00 pm EST on 21 November 2014. [See schedule.](#)

Testbed 11 sponsors have documented interoperability requirements and objectives for this testbed activity. Organizations selected to participate in Testbed 11 will develop solutions based on the sponsors' use cases, requirements and scenarios. Participants' solutions will implement existing OGC standards and new prototype interface and encoding specifications.

Testbed 11 focuses on spatial communication requirements that emerge when a population is displaced due to coastal inundation. Testbed participants will:

- Advance OGC Architecture with respect to REST and SOAP design patterns for synchronization of geodata across data stores, as well as storage and synchronization of geodata in GeoPackages;

- Evaluate approaches to JSON and GeoJSON encodings as well as vector data and image streaming in the OGC standards framework;
- Integrate high-resolution simulation models into geospatial infrastructures
- Advance use of Linked Data and Semantic Enabling of OGC Web Services, with a special focus on Hydrographic Data;
- Advance use of OGC Catalog Services;
- Advance use of spatially enabled Social Media data;
- Advance use of a common symbology that can be used to share common operational pictures in an international environment;
- Advance compliance tests for the OGC Web Feature Service and Catalog 3.0 Service interface standards;
- Advance a Digital NOTAM (Notice to Airmen) validation service and enrichment service and advance use of Aviation Feature Schema (AFX). Also develop guidance on using geometrical constraints in the Semantics of Business Vocabulary and Rules (SBVR) (an Object Management Group standard).

Testbed 11 Sponsors include these FGDC member agencies: NASA, NGA, DHS, and USGS.

Figure 1 - Testbed 11 schedule

Milestone	Date
RFQ Release	22 October 2014
Bidder's Q&A Webinar	30 October 2014
Clarifications Posted and Final Question due	5 November
RFQ responses due	21 November 2014
Sponsors TEM1	26 November 2014
Sponsors TEM2	1 December 2014
Kickoff @ GMU Fairfax	12-14 January 2015
Demonstrations and final deliverables	June 2015 (TC-Boulder)

Compliance Program

• Available Tests:

CSW 2.0.1 WCS 1.1.1
 SPS 1.0 WCS 2.0.1
 CSW 2.0.2 WFS 1.0.0
 SPS 2.0 WFS 1.1.0
 GML 3.2.1 WFS 2.0.0
 WCS 1.0.0 WMS 1.1.1
KML 2.2 WMS 1.3.0
 WCS 1.1.1
 SFC 1.0
 WCS 2.0.1

• Test Development 2014

OWS Context 1.0
 KML 2.2
 SOS 2.0
 SLD 1.1.0
WMS Client 1.3.0
WMTS 1.0.0
WPS 1.0.0

2014 Approved standards

- GeoPackage (January 2014)
- OpenSearch Geo and Time Extensions (Apr 2014)
- ISO19115 Metadata Extension Package of CS-W ebRIM Profile 1.0 (April 2014)
- GMLJP2 2.0 (July 2014)
- Geographic information —Well known text representation of CRS (Aug 2014)
- IndoorGML (Sept 2014)
- Moving Features (Dec 2014)

2014 Approved OGC Best Practices

- Sensor Observation Service 2.0 Hydrology Profile (14-004r1)
- OGC RESTful Encoding of OGC Sensor Planning Service for Earth Observation satellite Tasking (14-012r1)
- OGC RESTful Encoding of Ordering Services Framework For Earth Observation Products (13-042)
- OGC User Management Interfaces for Earth Observation Services (07-118r90)
- OGC Best Practice for using Web Map Services (WMS) with Time-Dependent or Elevation-Dependent Data (12-111r1)
- OGC Best Practice for Sensor Web Enablement: Provision of Observations through an OGC Sensor Observation Service (SOS) (13-015)

2015 What's Ahead

- **2015 What's Ahead?**
 - ARML
 - WPS 2.0
 - 3D Portrayal
 - KML 2.3
 - WMS 1.4
 - WMTS 1.1
 - SensorThings
 - CSW 3.0
 - NetCDF encoding using GMLCOV extension
 - Common Database (SWG being formed)
 - WAMI (SWG needs to be formed)
 - GeoPackage extension for OWS Context
 - OGC Simple Features Abstract topic volume (was 19107) revision
 - PubSub
 - GeoSciML 3.0 ?
 - GeoTIFF ?
 - TimeSeriesML ?

Contact your agency's representative(s) to OGC for more information.

Geospatial-Intelligence Standards WG (GWG)

The GWG Geospatial Web Services Focus Group met November 13 at Scitor. Topics:

- OGC Standards and Programs
- GeoPDF
- Unclassified National System for Geospatial Intelligence
- OsGeo Demo
- GeoPackage Profile
- OGC Testbed 11
- 14-3 Baseline Approval

For more information, contact Julie Maitra, FGDC representative to GWG, or your agency's representative to GWG.

Other

- Please refer to the standards tracking log for progress on FGDC, INCITS, ISO, OGC, and GWG standards.
- From TC 211 Resolution 696:

ISO/TC 211 requests the task force (Resolution 654) to liaise with OGC and IHO to revise the standards guide and the companion document according to N 3920, Chapter I, C 4/110, the Beijing Declaration, document N 3921.

ISO/TC 211 invites member bodies to nominate additional members to participate in the work.