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FEDERAL GEOGRAPHIC DATA COMMITTEE

FGDC Standards Program

FGDC Coordination Group
December 12, 2017

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FGDC Standards Coordinator
FGDC OS

Topics

- ❖ [CG Member engagement in standards bodies](#)
- ❖ [Standards registry](#)
- ❖ [Announcement](#)

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CG Member engagement in standards bodies

❖ FGDC Standards WG

❖ InterNational Committee for Information Technology Standards Technical Committee L1 (INCITS L1), Geographic information systems

❖ CG member agency participation in the FGDC Standards WG and INCITS L1

FGDC Standards WG

Proposals for FGDC endorsement of external standards

1. ISO 19115-3:2016, Geographic information -- Metadata -- Part 3: XML schema implementation for fundamental concepts

2. OGC Web Coverage Service (WCS) 2.0 + extensions, with retirement of WCS 1.1.2

3. OGC Web Processing Services (WPS) 2.0 [14-065], with confirmation of WPS 1.0.0

4. OGC GML 3.3 [10-129r1], with confirmation of GML 3.2.1

5. OGC Geography Markup Language (GML) simple features profile (with Corrigendum) (2.0) [10-100r3]

6. OGC KML 2.3 [12-007r2], with confirmation of OGC KML 2.2.1

7. OGC Filter Encoding (FE) 2.0.2 [09-026r2], with retirement of FE 1.1

8. OGC GeoPackage 1.1 [12-128r12], with retirement of OGC GeoPackage 1.0, which has been deprecated

9. OGC Web Services Context Document (OWS Context) 1.0 [12-080r2] *and* Atom Encoding standard 1.0 [12-084r2], with retirement of OGC Web Map Context

10. ISO/TS 19157-2:2016 Geographic information -- Data quality -- Part 2: XML schema implementation

INCITS L1/U.S. TAG

- ❖ OMB Circular A-119 (2016) directs Federal agencies to
    - ❖ use voluntary consensus standards in lieu of government unique standards, except "where inconsistent with law or otherwise impractical."
    - ❖ participate in voluntary consensus standards bodies.
- ❖ According to OMB Circular A-16 (2012), the NSDI supports and advances the Global Spatial Data Infrastructure, "consistent with national security, defense, and intelligence and international trade requirements." International compatibility is an important aspect of the NSDI.
- ❖ Adoption and use of international standards help promote interoperability among SDIs at all geographic extents, from local to state to national to transnational to global.
- ❖ INCITS L1 serves as the U.S. Technical Advisory Group to ISO Technical Committee 211, Geographic information/Geomatics. Most projects assigned to INCITS L1 are international projects.

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International standards projects in work

Identifier	Name
ISO/NP 19105	Conformance and testing
ISO/NP 19123-1	Schema for coverage geometry and functions
ISO/NP 19126	Feature concept dictionaries and registers
ISO/NP TS 19139-1	Metadata -- XML schema implementation -- Part 1: Title missing
ISO/AWI TS 19130-3	Imagery sensor models for geopositioning -- Part 3: Implementation Schema
ISO/AWI 19150-4	Ontology -- Part 4: Service ontology
ISO/AWI 19160-2	Addressing -- Part 2: Good practices for address assignment schemes
ISO/AWI 19161-1	Geodetic references -- Part 1: The international terrestrial reference system (ITRS)

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International standards projects in work, continued

Identifier	Name
ISO/AWI 19165-2	Preservation of digital data and metadata -- Part 2: Content specifications for earth observation data and derived digital products
ISO/AWI 19166	BIM to GIS conceptual mapping (B2GM)
ISO/CD 19142	Web Feature Service
ISO/CD 19143	Filter encoding
ISO/CD TS 19159-3	Calibration and validation of remote sensing imagery sensors and data -- Part 3: SAR/InSAR
ISO/CD 19116	Positioning services
ISO/CD 19160-3	Addressing -- Part 3: Address data quality
ISO/CD 19112	Spatial referencing by geographic identifiers
ISO/CD 19111	Referencing by coordinates
ISO/CD 19131	Data product specifications

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❖ Membership

   ❖ The INCITS membership cycle begins December 1st.

   ❖ To join INCITS L1, visit Apply for Membership,
   http://www.incits.org/participation/apply-for-membership

CG member agency participation in SWG and INCITS L1

Level 1 agency	Level 2 agency	SWG mailing list	INCITS L1 membership
Department of Agriculture	Farm Service Agency		
	Natural Resources Conservation Service		
	US Forest Service		
Department of Commerce	National Oceanic and Atmospheric Administration		
	US Census Bureau		
Department of Defense	OSD Defense Installations Spatial Data Infrastructure Office		
	US Army Corps of Engineers		
Department of Education			
Department of Energy			
Department of Health and Human Services	Center for Disease Control and Prevention		
	Food and Drug Administration		
	Indian Health Services		
	Office of Preparedness and Emergency Operations		

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CG member agency participation in SWG and INCITS L1, continued

Level 1 agency	Level 2 agency	SWG mailing list	INCITS L1 membership
Department of Homeland Security	Geospatial Management Office		
Department of Housing and Urban Development	Policy Development and Research		
Department of Interior	Bureau of Land Management		
	Bureau of Ocean Energy Management		
	National Park Service		
	Office of Surface Mining, Reclamation and Enforcement		
	US Fish and Wildlife Service		
	US Geological Survey		
Department of Justice			
Department of Labor			
Department of State			
Department of Transportation			
Department of Treasury			
Department of Veterans Affairs	Policy & Planning/National Center for Veterans Analysis & Statistics (NCVAS)		

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CG member agency participation in SWG and INCITS L1, continued

Level 1 agency	Level 2 agency	SWG mailing list	INCITS L1 membership
Environmental Protection Agency	Office of Environmental Information		
Federal Aviation Administration			
Federal Communications Commission*			
General Services Administration			
Library of Congress			
NASA			
National Archives and Records Administration			
National Capital Planning Commission*			
National Science Foundation			
Nuclear Regulatory Commission			
Small Business Administration			
Smithsonian Institution			
Social Security Administration			
Tennessee Valley Authority			
U.S. Agency for International Development			

Standards registry

Topics

- ❖ [Explanation of fields](#) – Julie Binder Maitra
- ❖ [Demo and capabilities](#) – Vaishal Sheth

Standards registry – explanation of fields

❖ As recommended by NGAC standards subcommittee

❖ Fields

   ❖ Name of standard

   ❖ Link to standard

   ❖ Publisher/creator (FGDC, ISO, ANSI, OGC, etc.)

   ❖ Publication date

   ❖ Constraints (copyright, license, etc.)

   ❖ FGDC endorsement date

   ❖ Fees (yes/no) – Link to Why charge for standards?, https://www.ansi.org/help/charge_standards?menuid=15

   ❖ Description

   ❖ Keywords, for example, NGDA theme

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Standards registry – demo and capabilities

❖ Demo
❖ Capabilities
  ❖ Sort and filter standards by FGDC endorsement date for maintenance. Review standards every 5 years: visit FGDC standards directive #9, Maintenance, https://www.fgdc.gov/standards/process/standards-directives/directive-09
  ❖ Sort and filter standards by keywords to identify standards that are relevant to an NGDA data theme
  ❖ Discover if there are usage or legal constraints for a standard
  ❖ Discover if you have to pay for standards. This applies to ANSI and ISO standards. Refer to Why Charge for Standards, https://www.ansi.org/help/charge_standards

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Announcements

❖ FGDC Standards Coordinator Julie Binder Maitra will retire on December 31, 2017

❖ New Standard Coordinator pending FGDC staff changes

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Questions and Contact Information

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