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| FGDC LOGO | **Federal Geographic Data Committee**  **Standards Update**  **August 2014**    **Julie Binder Maitra,** [**jmaitra@fgdc.gov**](mailto:jmaitra@fgdc.gov)**, 703-648-4627** |

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## FGDC

The next FGDC Standards WG meeting is scheduled for Thursday, September 25. Logistics may be found at <https://www.fgdc.gov/standards/organization/FGDC-SWG/2014-09-25_SWG/view>. The page also links to a draft agenda. GENC Edition 2 and GeoPackage are identified as candidate standards for FGDC endorsement.

Julie Maitra has drafted ballots for CG approval of the following standards:

* GeoRSS-Simple
* GeoRSS-GML
* ISO/IEC 15144-1:2004 Corrigenda 1:2007/2:2008 JPEG 2000
* Aeronautical Information Exchange Model (AIXM) 5.1

Please refer to the standards tracking log for progress on select FGDC standards.

Contact Julie Maitra, FGDC Standards Program Manager.

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

Meetings

The next L1/U.S. TAG meeting is scheduled for Friday, 26 September 2014, 10:00am to 04:00pm EDT at USGS, Reston, VA.

ISO/TC 211 will meet next November 24-28 in Shenzhen, China. The TC 211 Secretariat issued N 3840, 39th ISO/TC 211 plenary - Notice of meeting/Draft agenda – Shenzhen, China, 2014-11-27/28, for reply. Members are invited to inform the secretariat, within three months before the meeting, of their intention to be represented at the meeting and the approximate number of their delegates. At the latest, one month before the meeting, a list of the delegates should be sent to the secretariat, giving the names of the delegates and the head of delegation.

ISO 19159

Two additional parts have been identified for ISO19159, Geographic information -- Calibration and validation of remote sensing imagery sensors and data. They are:

* 19159-3 Radar (SAR, InSAR).
* 19159-4 Sonar.

Cultural and linguistic adaptability

The TC 211 Secretariat issued N 3806, *Recommendations for the specification of cultural and linguistic adaptability (CLA) in ISO/TC 211 standards* on June 13. Comments were due to INCITS by July 23. The TC 211 due date was August 13.The reference is Resolution 591 Cultural and linguistic adaptability, <http://www.isotc211.org/Resolutions/resolutn.htm#591>.

The TC 211 Secretariat subsequently issued N 3850, Comments received on "Recommendations for the specification of cultural and linguistic adaptability (CLA) in ISO/TC 211 standards" (N 3806). The comments are forwarded to the Program Management Group for further consideration. The U.S. did not submit comments.

Guidelines of Best Practice for the Acquisition, Storage, Maintenance and Dissemination of Fundamental Geo Spatial Datasets

The TC 211 Secretariat issued N 3805, *Guidelines of Best Practice for the Acquisition, Storage, Maintenance and Dissemination of Fundamental Geo Spatial Datasets*, for comment. The FGDC Secretariat and EPA submitted comments. L1 approved comments as a U.S. Contribution in a ballot that closed August 6. Voting results: 8 yes/0 no/0 abstain/5 not voting. The TC 211 due date was August 13.

The TC 211 Secretariat issued N 3849, Comments received on "Guidelines of Best Practice for the Acquisition, Storage, Maintenance and Dissemination of Fundamental Geo-Spatial Datasets" (N 3805). The U.S. contribution is included. The comments are forwarded to the TC 211 Program Management Group for further consideration.

ISO/TC 211 Control Body for the Geodetic Registry Network

The INCITS Secretariat issued a call for nomination of vice chair, Control body for the ISO geodetic registry network. The INCITS due date is August 1; the TC 211 closing date was August 5. Larry Hothem of USGS was confirmed as the vice chair of the control body.

Open source registry software has been developed, and data has been loaded for testing. The team will continue monthly teleconferences to

* Implement approval process and test
* Load registry with an initial set of reference systems & transformations of international application
* Plan public release Nov 2014

Here are concerns with representing modern reference systems in ISO 19111:2007, Geographic information -- Spatial referencing by coordinates, and ISO/TS 19127:2005, Geographic information -- Geodetic codes and parameters:

* Geoid-based vertical datums
* Dynamic 3D reference systems
* Treating UTM zones as separate reference systems

GIS-BIM mapping

A joint project between OGC and buildingSMART International (bSI) has begun. A New Work Item Proposal (NWIP) in GIS-BIM mapping is being prepared. The *ad hoc* group is not ready to submit the report due to lack of resources. It plans to finish the report and submit it by the next plenary meeting in China.

Linking GIS-BIM with OGC's IndoorGML (for OGC adoption) is an anticipated future TC 211/OGC JAG activity.

TC 211/OGC Joint Advisory Group (JAG)

Ontology is an anticipated future JAG activity.

Please refer to the standards tracking log for progress on select domestic and international standards projects assigned to L1/U.S. TAG.

Contact Julie Maitra, principal FGDC rep to L1, or your agency’s representative to INCITS L1 for more information. INCITS L1 Chair: Liping Di, Ph.D, [ldi@gmu.edu](mailto:ldi@gmu.edu).

## Open Geospatial Consortium

OGC TC/PC meetings

The next OGC TC/PC meeting is scheduled for September 15-19, 2014 at University of Calgary, Calgary, Alberta, Canada

OWS-10 Engineering Reports

On August 7, OGC announced that it had published six Testbed 10 Open Mobility location standards Engineering Reports. Open Mobility refers to mobile users' needs to create, access and share diverse types of location information maintained in diverse Web resources. Use cases and scenarios provided by Testbed 10 sponsors defined interoperabiity requirements.

The Engineering Reports document interoperability prototypes developed by the testbed's participating technology providers. They describe work in progress on potential new standards and work done to validate candidate standards or improve adopted standards. OGC Engineering Reports do not represent official OGC positions.

The OGC Public Engineering Reports web page, <http://www.opengeospatial.org/standards/per>, provide links to the engineering reports. Some reports are still being edited and have not yet been posted.

GeoJSON

GeoJSON has been a hot topic on OGC discussion lists. It is s a format for encoding a variety of geographic data structures. A GeoJSON object may represent geometry, a feature, or a collection of features.

Finding OGC WMS, WFS, WCS services

George Percivall published an article on Finding OGC WMS, WFS, WCS services, <http://www.opengeospatial.org/blog/2034>. He cites data.gov and GEOSS, among others, as catalogues where you can find services.

OGC 13-102r2 “Name Type Specification – Time and index coordinate reference system definitions”

At the march Geneva TC meetings, Members approved an electronic vote to approve release of OGC document 13-102r2 (Name Type Specification – Time and index coordinate reference system definitions) as an OGC Policy. There is evidence of implementation.

Therefore, the Technical Committee Chair has initiated an electronic vote for 13-102r2 “Name Type Specification – Time and index coordinate reference system definitions” as an OGC Policy. The vote will close on August 28, 2014

This candidate policy specifies the rationales behind the construction and maintenance of time and index coordinate reference systems and their http URIs that may be used for encoding temporal or pure integral coordinates. Such coordinate reference systems could be compound with geospatial ones, to build spatiotemporal/spatio-index geometric spaces.

GML Media Type [09-144r2]

At the OGC Geneva meetings, the Technical Committee and the Planning Committee approved initiation of an electronic vote to approve revised MIME-type specification for GML as an OGC policy. The document was posted to pending on June 11. The 3 week review period ended July 3rd.

Reason: In order for the Internet Engineering Task Force (IETF)/Internet Assigned Numbers Authority (IANA) to approve an OGC GML media type, the OGC Membership needs to officially approve this document as OGC policy.

Therefore, the TC Chair recommended that the TC Voting Members approve GML Media Type [09-144r2] as an official OGC policy. The voting period closed August 02, 2014.

Big Data Domain Group

OGC members formed an OGC Big Data Domain Working Group. This group provides an open forum for discussion and standards recommendations for Big Data interoperability, access, and analytics related to geospatial information. Because location-based and geospatial data applications are major contributors to Big Data, the OGC can provide guidance on the use of its standards in managing Big Data. The OGC's Sensor Web Enablement standards, for example, provide a way to make sense of data coming from countless Internet-connected sensors.

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For more information, contact your agency’s OGC representative.

## Geospatial-Intelligence Standards WG (GWG)

The 14-3 GWG voting meeting is TBD.

Please refer to the standards tracking log for progress on select standards vetted by the GWG.

For more information, contact Julie Maitra, FGDC representative to GWG.