

News from standardisation bodies

13th MIG meeting – 18 June 2021

News from standardisation bodies

- Information provided by
 - OGC
 - ISO TC/211
 - W3C



INSPIRE

Infrastructure for Spatial Information in Europe

News from Standardisation Bodies

Type	Document for information and discussion
Creator	EC and EEA INSPIRE Team
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Description	This documents summarises new developments and activities relevant to INSPIRE maintenance and implementation from the following standardisation bodies: <ul style="list-style-type: none">• ISO/TC 211 Geographic Information/ Geomatics• Open Geospatial Consortium (OGC)• World Wide Web Consortium (W3C)
actions:	MIG to: <ul style="list-style-type: none">• Take note of the document• Discuss possible coordinated actions related to the presented standardisation activities

ISO TC/211 Geographic information/Geomatics

- New initiatives
 - Advisory groups (AG), Ad hoc groups (AHG) or preliminary work items (PWI) initiated last six months:
 - AG on Land Cover Land Use
 - AHG on Establishment of ISO registers
 - AHG on Smart Cities
 - Collaborative work with OGC:
 - PWI on Discrete Global Grid Systems - Part 2: Three-dimensional and Equivolume DGGS RS;
 - PWI on Discrete Global Grid Systems - Part 3: Spatio-temporal DGGS RS;
 - PWI on Discrete Global Grid Systems - Part 4: Axis-aligned DGGS RS.

ISO TC/211 Geographic information/Geomatics

- Recently published standards
 - ISO 19135-1:2015/Amd 1:2021 Geographic information —Procedures for item registration — Part 1: Fundamentals —Amendment 1—2021-02-19
 - ISO 19148:2021 Geographic information —Linear referencing—2021-04-06
 - ISO/TC 59/SC 13/JWG 14 (joint working group between ISO/TC 59/SC 13 and ISO/TC 211) has developed a technical report on GIS-BIM interoperability, ISO/TR 23262 GIS (geospatial) / BIM interoperability. The report has just been published, read more on our ISO/TC 211 website: [GIS-BIM interoperability published \(iso.org\)](https://www.iso.org).

OGC

- 2020 Recap
 - 11 Standards approved
 - 5 Best and Community Practices approved
 - 48 Engineering Reports approved
 - 10 Discussion or White Papers approved
 - 1 new Standards Working Group (SWG)
 - 12 Innovation Program initiatives completed
- The OGC API family of standards are being developed to make it easy for anyone to provide geospatial data to the web. OGC API Roadmap
- OGC Standards Roadmap
- Technical / Planning Committee Meetings

OGC Recent developments

- The OGC Innovation Program is a forum for OGC members to solve the latest and hardest geospatial challenges via a collaborative and agile process.

Modernizing SDI Concept Development Study OGC

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- Data Integration Challenges
- Stakeholder Needs
- Reference Architecture
- System Requirements

- Sponsored by:

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Ideas for future initiatives include:

- Testbed-18
 - Machine Learning
 - Big Data Analytics
 - Cloud optimized data
 - Systems at scale
- Federated Marine SDI Pilot
- Blockchain spatial objects
- Built Environment Interoperability
- UAS Command and Control
- HD maps and autonomous vehicles
- Digital Twins (urban, ocean, global)

W3C – Web of Things

- Recent work on semantic technologies
- JSON-LD is a W3C standard for expressing Linked Data in JSON.
- DCAT3 is an RDF vocabulary for digital catalogues on the Web.
- Ongoing collaboration with the Open Geospatial Consortium in relation to spatial data on the Web with a variety of deliverables
- Work on the Web of Things which is an abstraction layer for digital twins that seeks to make it easier for application developers to integrate across the fragmented landscape of IoT technologies and standards
- Incubating ideas for the next generation of AI

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