OGC overview

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The world’s leading and comprehensive community of experts making location information:

Findable, Accessible, Interoperable, Reusable
Open Geospatial Consortium

Members

Mission

Approach

Products

Open Standards

Best Practices

Proof of Concepts
## OGC Standards High-Level Overview

### Data Models and Encodings

**Domain-specific**
- CityGML
- CityJSON
- IndoorGML
- IMDF (Indoor Mapping Data Format)
- LandInfra / InfraGML
- PipelineML
- ARML (Augmented Reality ML)
- GeoJSONML
- GeoSciML
- WaterML
- TimeSeriesML
- LAS

**General**
- Simple Features
- GML (Geography Markup Lang.)
- KML
- Moving Features
- OpenGeoSMS
- GeoXACML
- CRS WKT
- Filter Encoding
- GMLJP2
- 2D Tile Matrix Set
- O&M (Observations & Meas.)
- GeoTIFF
- Symbology Encoding
- Symbology Core

### Sensors

- SensorThings API
- SensorML
- SWE Common (Sensor Web Enablement)
- SOS (Sensor Observation Service)
- SPS (Sensor Planning Service)
- PUCK

### Containers

- CDB
- GeoPackage
- netCDF
- HDF5

### Services and APIs

**OGC APIs**
- WMS (Web Map Service)
- WMST (Web Map Tile Service)
- WFS (Web Feature Service)
- WCS (Web Coverage Service)
- WPS (Web Processing Service)
- WCSS (Web Coverage Processing Service)
- WPS (Web Processing Service)
- WCS (Web Coverage Service)

**Pub/Sub, Syndication, and Context**
- OGC APIs
- WMS (Web Map Service)
- WMST (Web Map Tile Service)
- WFS (Web Feature Service)
- WCS (Web Coverage Service)
- OGC APIs
Innovation and Standards setting

Innovation Cycle:
- Create public call
- Call for Sponsors
- Identify Project
- Select best members
- Executive Project
- Generate Results

Standardization Cycle:
- DWG discussion
- SWG formation
- Standards development
- Interest gathering
- Formulation of enhancements
- DWG/SWG Presentation
Urban Digital Twins
Location Information in Natural Disaster Situations
Location Information in AR, VR, Gaming
Collective problem solving

Standards, Best Practices, Proof of Concepts

Findable, Accessible, Interoperable, Reusable (FAIR)

Applied Science & Technology

Communities & X-Community Exchange

OGC
If you want to go fast, go alone!

If you want to go far, go together!

African Proverb
Thank You!

Community
- 500+ International Members
- 110+ Member Meetings
- 60+ Alliance and Liaison partners
- 50+ Standards Working Groups
- 45+ Domain Working Groups
- 25+ Years of Not for Profit Work
- 10+ Regional and Country Forums

Innovation
- 120+ Innovation Initiatives
- 380+ Technical reports
- Quarterly Tech Trends monitoring

Standards
- 65+ Adopted Standards
- 300+ products with 1000+ certified implementations
- 1,700,000+ Operational Data Sets
- Using OGC Standards

Contact info@ogc.org to schedule a meeting for an in-depth discussion with OGC staff and join our community today!

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