

Roadmap WG

OGC standards in meteorology

Nov 2009

Attendees

- Chris Little
- Stephan Siemen
- David Arctur
- Ulrich Looser
- Pierre Kerhervé
- Ted Habermann
- Dennis Hart
- Bruno Vermeiren
- Matteo Dell'Acqua
- David Burridge
- Wim Som de Cerff
- Adrian Custer

Dependent institutions

- Inspire
 - Discovery & viewing services
- WMO – WIS / WIGOS - Congress
 - IPET-MDI
 - IPET-DR&C
- WMO commissions
 - CBS, CHY, CCL, JCOMM, CIMO, CAEM, CAGM
- Aviation – ICAO
- OGC, ISO TC211
- ISO other
- OASIS – CAP
- GEOSS (→ 2015)
- NATO
- EGOWS

Projects (1)

- EU FP7 - MyOcean (→ 2012)
- OGC - OWS-7 Aviation (2010 – 6 months)
- OGC/FOSS4G - CCIP - Barcelona (Sep. 2010)
- EU FP7 - IS-ENES (2009-2013)
- JPDO – NNew (2009-2013/4)
- EU DGTREN – SESAR (2009-2016)
- BADC – CSML3 + OGC O&M (?)
- OGC – WaterML 2 + O&M (2009-2010)
- UKMO&MF – VGISC (2010-2011)
- OGC – OCEANS science 2 IE (2009-2010)
- GEOSS – AIP 3 (2010)
- WMO – GFCS (2010→)
- ...

Standards

- OGC
 - WMS – 1.4 / 2.0?
 - WFS-G (gazetteer) – closing soon
 - SWE
 - Notifications (CAP, WNS, SAS)
- WMO
- ISO (5 year cycle)
 - Revision 19115, data quality, services
 - Revision 19117 portrayal
 - 19110? Feature catalogue

IE's

- MetOcean
 - profile for WMS & WMTS
 - OWS Context
 - OWS Common
 - Time & multi-variable (OWS Common)
 - Application specific meta data
 - SLD (styling)
 - Notification & events
 - Catalogue infrastructure & synchronisation
 - Look at Inspire
 - Documentation of failures & success of common tools
- Interoperability of data models & encodings
- O&M & SWE including WMO WIGOS
- Hydrology IE
- Resource: GALEON IE

Short Term Actions

- Expand the dates in details
- Expand standards involved in projects
- Expand standard time lines
- Identify interdependencies
- Prioritise points of influence
- Identify interaction mechanism
- Develop 2-year workplan
- IE setup March 2010

Follow on Actions

- 2009 Dec: Set-up calendar on Wiki (Chris)
- 2010 Jan: Write IE proposal (Stephan)
 - Look at Hydrology & OceanS & GALEON IEs
 - Realistic (operational) data for load test
- 2010 Mar: Start IE (MetOcean DWG)
 - Engage stakeholders on IE
 - Inspire/JRC, tool providers
- 2010 May/Jun: EGOWS
 - Live interoperability demonstration
- 2010 Sep: CCIP
 - Live interoperability demonstration
- 2010 Nov: 3rd OGC Workshop
 - Present results of IE
 - Ontologies?

WMO-OGC MoU

Proposal for initial actions

- Four named WMO Secretariat staff have access to OGC Portal (Shi Peiliang, Pierre Kerhervé, José Arimatea de Sousa Brito, David Thomas)
- 8 WMO Experts, 2 each from **Meteorology**, Oceanography, Hydrology, Climatology
- WMO have 8 Commissions: CBS, JCOMM, CHy, CCI, CAeM, CAgM, CIMO, CAS
- Propose that main objectives of current plan are:
 - Develop Best Practice or Profile for WMS and WMTS
 - Develop Conceptual models suitable
 - Promotion of OGC web standards such as WMS, WFS and WCS and related standards
 - Develop Best Practice or Profile for Catalogue infrastructure
 - Develop awareness and promote of O&M, SWE and related standards within WMO WIGOS community – propose WIGOS expert from CIMO
- Remaining three people: - ask for nominations from Presidents of CCI, JCOMM, CHy

WMO experts for the MoU

- One expert representing CCI tasked to ensure liaison between CCI and the meteorology/hydrology OGC DWGs
- One expert representing CHy tasked to ensure liaison between CHy and the meteorology/hydrology OGC DWGs
- One expert representing JCOMM tasked to ensure liaison between JCOMM and the meteorology/hydrology OGC DWGs
- Four experts representing CBS or CIMO tasked in liaison with the meteorology/hydrology OGC DWGs to:
 - Develop proposals related to conceptual models suitable for WMO IPET-MDI (Chair or core member of the IPET-MDI)
 - Develop proposals for best practices or profile for Catalogue infrastructure (Chair or core member of the ET-WISC)
 - Develop awareness of O&M, SWE and related standards within WMO WIGOS community and CIMO (WIGOS expert from CIMO)
 - Consider the use of WMS, WMTS, WFS, WCS and related standards for the development/implementation of the WIS (chair or core member of the ET-CTS)
- One expert tasked to liaise with the seven above-mentioned experts, to follow-up the progress in the programme given in Exhibit A of the MoU and to submit a report (at least each year) on this progress to WMO CBS Management Group (Chairman or core member of the ET-GDDP).