



Met Ocean SLD/SE Activities

Making WMO and ICAO Symbologies more widely available

Chris Little, EGOWS, Toulouse, 2011-06-08



Contents

This presentation covers the following areas

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Introduction & Background



OGC Who?

- Open Geospatial Consortium <http://opengeospatial.org>
- Non-profit making
- Standards setting <http://opengeospatial.org/standards>
- Global: European members > American, Far East increasing
- >400 members <http://opengeospatial.org/ogc/members>
 - Industry
 - Government bodies
 - Academia
 - Individuals



OGC What?

- OGC Engineering Reports, Discussion papers
- OGC Best Practices
- OGC Standards :
 - GML Geographical Mark-up Language
 - Web services for maps: WFS, WMS, WCS, etc
 - Observations & Measurements
 - 3D, Etc
- Then ISO Standards:
 - 191xx
 - Etc
- Then WMO can use them, willing or not (Inspire)

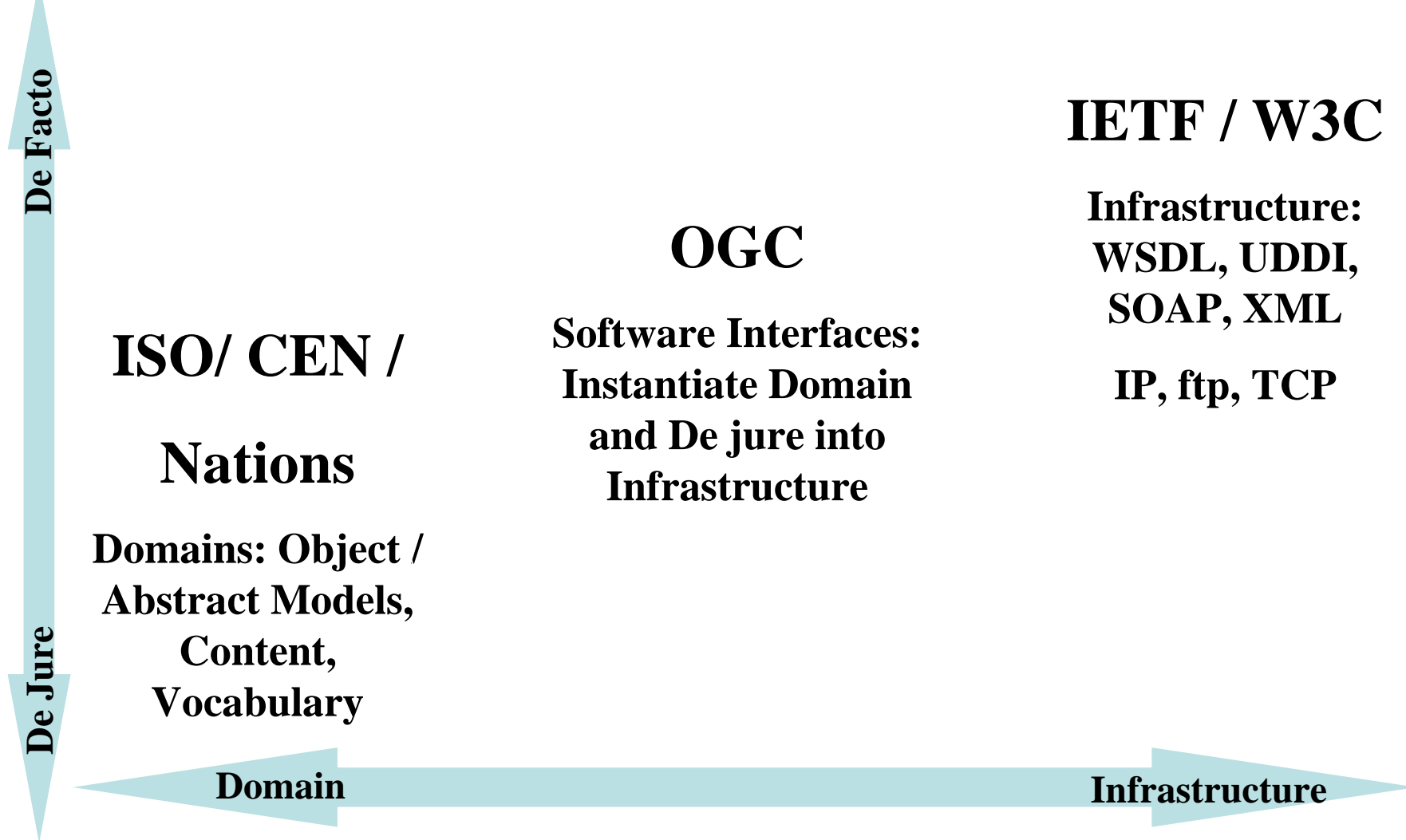


OGC How? Where? & When?

- TC - Technical Conference, 4 days every 3 months
 - Toulouse Sept 2010 Météo-France
 - Sydney Dec 2010
 - Bonn Mar 2011 UN
 - Taiwan June 2011
- SWG - Standards Working Groups, ~24,
 - - Fast track to ISO, short lived, 'vertical'
- DWG - Domain Working Groups, ~27
 - - Cross-cutting, longer lived, 'horizontal'
- IE – Interoperability Experiments
 - 6 monthly cycle, strict IPR
- Management structure, OAB, open & closed



Where does OGC fit in the 'standards' world? (Why)





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Met Ocean Domain Working Group



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OGC Met Ocean DWG

- 2007: ECMWF 11th Workshop on Meteorological Operational Systems
 - recommended:
- 2008: ECMWF-OGC Workshop on Use of GIS/OGC Standards in Meteorology
 - recommended:
 - Establish OGC Met Domain WG – now Met-Ocean DWG
 - Establish WMO-OGC Memorandum of Understanding – covers Hydrology
 - Develop WMS meteorological profile
 - Develop core models and registries
 - Interoperability test beds for met. data & visualization OGC web services



Met Ocean DWG progress

- Open Wiki, open mailing list, community established
- Options for WMS profile identified
- Conceptual modelling active
- Met Ocean DWG and Hydro DWG collaboration starting
- Météo-France participation in OGC IE Test bed
- Contributing to 2D vs 4D debate in OGC
- Realised importance of O&M, Sensor Web
- Clearer view of importance of other standards E.g. 3D
- Timescales: Doppler red-shift / shift to right



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Where are we?

- Met Ocean DWG:
 - Wiki open to all
 - Mailing list open to all
- Other communities have adopted similar approach
- NMSs took part in OGC Interoperability Experiments
 - Heavyweight (Money, Contracts & IPR)
 - Prefer in-community informal approach (EGOWS!)
- Significant changes to OGC standards happening
 - 2 year timescale
- WMO should actively own its IPR & audit processes



Third Workshop on GIS/OGC Standards in Meteorology

- Held at Met Office, Exeter, November 2010
- 3 full working groups:
 - Conceptual Modelling – Jeremy Tandy (17.5 people)
 - WMS & IE – Marie-Françoise Voidrot (11.5 people)
 - Portrayal – Chris Little (7.5 people)
- 3 smaller, shorter groups:
 - WCS – Stephan Sieman (4.5 people)
 - Architecture & Strategy – ?? (2.5 people)
 - Outreach & Education - ?? (0)
- Little progress on raising awareness of O&M to community



SLD/SE & Portrayal Objectives

- Make Met Ocean Symbologies and Layer Styles readily available to industry and institutions (WMO & ICAO)
- Help WMO establish formal ultimate ownership of the styles in a modern digital way (registries, audit trail, etc)
- Contribute to the Portrayal and SLD/SE roadmap
- Do above by OGC TC Bonn, March 2011



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Symbologies



SLD/SE & Portrayal Progress

- Samples on open MetOcean Wiki: SVG, PDF, GIF, PNG, etc
 - Grouped by topology (points, lines, areas)
 - More examples in the pipeline
- WMO & ICAO source documents linked from Wiki
- WMO Secretariat and Chair of relevant technical expert agreed to proposal
- To be Done:
 - SVG of ALL ~400 symbols, with fallback bitmaps or low-res
 - Rules in a Registry
 - Authentication Chain



OGC Met Ocean DWG Wiki

- MetOcean DWG Home
http://external.opengis.org/twiki_public/bin/view/MetOceanDWG/WebHome
- SLD/SE stuff
http://external.opengis.org/twiki_public/MetOceanDWG/FeatureAndCoveragePortrayal
- Accumulated Samples
http://external.opengis.org/twiki_public/MetOceanDWG/WMOandICAStyles



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What next?



Volunteers wanted!

- SVG definitive symbols (~400) on Wikimedia
 - With fall backs
 - Only comprehensive set is VERY low res, not SVG
- Registry paper for WMO action being prepared
 - Parameter lists
 - CRS/map projections
 - Schemas
 - Styles
 - Etc
- Clarify WMO IPR with Creative Commons



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Questions & answers