52 ° North
Sensor Observation Service

2nd ODIP Workshop
ODIP Prototype Development Project 3

4th December 2013

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SOS 3.x

- Stable development line
- Full SOS 1.0 implementation and core elements of SOS 2.0
- Active user community
- Soon planned: 3.6 release (first half of December 2013)
- Will include new contributions (Geoff Williams on behalf of the Australian Bureau of meteorology/CSIRO):
  - Strong performance boost
  - More efficient Capabilities Cache (using H2)
  - Streaming XML encoding
SOS 4.x

- On the way to become the OGC SOS 2.0 Reference Implementation (KVP binding)
- Full SOS 2.0 implementation and core elements of SOS 1.0
- SOS 4.x includes
  - Lightweight SOS profile
  - SOS 2.0 Hydrology profile/WaterML 2.0
- Extensions
  - IOOS SOS: Maintained by Axiom Alaska (Shane StClair) for the Integrated Ocean Observing System (IOOS) community → improvements are fed back into the main development line
• Improvements
  - Hibernate as abstraction layer
    • Support of different DBMS (e.g. Postgres / PostGIS, Oracle, MySQL)
    • Easier adjustment to different database models
  - Flexible exchange of encoders
  - More efficient Capabilities cache
  - Comfortable installer and admin GUI

• Move from SVN to GitHub for release
• Release of SOS 4.0 scheduled for end 2013/January 2014
Mobile Sensor Web Client

52° North Sensor Observation Service
Outlook

- Integrate some of the latest SOS 3.x contributions into SOS 4.x development line
- GetDataAvailability-Extension
  - Specification
  - Implementation
- Client development
  - REST-API encapsulating business logic for Sensor Web clients
  - Java-Script API for building customised clients
- SensorML 2.0
Thank You for Your Attention!

Further Information:

http://52north.org/

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