SeaDataCloud

SWE Ingestion Service

52° North

First Annual Meeting, Athens (Greece), 18/10/2017
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objectives

• Facilitate the publication of observation data (streams)
• Describe observatories (or networks of observatories)
• Ingestion service
  – Receive, decode and check data
  – Operated under the supervision of the PI of the observatories
  – Use SensorML descriptions of the observatories for data decoding
  – Accept SWE-based observation data streams
Overview

- Sensor Platform
- FTP-Server (CSV-Files)
- PI
- Smart Sensor Platform (e.g. NeXOS SEISI)
- SOS-Importer
- SOS-Importer
- Upload Web Site

Connections:
- Pull from Sensor Platform to SOS-Importer
- Pull from FTP-Server to SOS-Importer
- Push from SOS-Server to SeaDataCloud Infrastructure
- Push from Upload Web Site to CDI
Pull-based Workflow

- Read data from different data sources and push to SWE Ingestion Service
- Description of commands of sensing devices for retrieving data
- Description of outputs of sensing devices or of (CSV) files containing observation data
- Based on SensorML
User Interface

- Editing sensor descriptions: smle
- Extended to support commands, outputs and vocabularies
- Full text search for stored sensor metadata documents
User Interface

• Feedback to Data Providers

• Relevant information
  – Details about successfully / unsuccessfully inserted sensors (metadata)
  – Amount of successfully/ unsuccessfully inserted observations

• This information shall be made accessible through a dedicated operation
Status and Next Steps

• Deliverable D9.9 has been submitted

• Next steps
  – Start implementation
  – Communicate with sensor operators to gather use-cases for pilot
Thank you for your attention!

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