SensLog – way to standardize VGI data collection.
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SensLog

• SensLog is an integrated solution for sensor networks.

• SensLog consists of data model and server-side application which is capable to store, analyses and publish data in various ways.

• SensLog receives measured data from nodes or gateways, stores data properly in the database, pre-processes for easier queries if desired and then publishes data through the system of web-services.
SensLog

• SensLog is suitable for sensor networks with static sensors (e.g. meteorological stations) as well as for mobile sensors (e.g. tracking of vehicles, human-as-sensor).

• Database model was based on standardized data model for observations from OGC Observations&Measurements.
SensLog

- Main component for storing, managing and publishing sensor data
- Meeting point for measured sensor data
- Provides REST API for both sides of chain – data producers and data consumers
- Works above relation DB with spatial extension – can provide variety of analytical services
Database model - VGI extension

Core model


INSPIRE 2016 Barcelona
SensLog VGI extension

- Stores VGI observations from web and mobile applications
- Attributes of VGI observations not only simple datatypes but multimedia files too
- Few mandatory attributes, optional according to users needs with only small limitation on data volume
Examples of usage

Groundwater monitoring

Meteorological station

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VGI examples
White board example
SensLog

• Source code available on:
  https://github.com/mkepka/senslog

• News and detail documentation:
  http://sdi4apps.eu/keywords/opensensorsnetwork/

• Running instance on:
  http://portal.sdi4apps.eu/SensLog-VGI/

  The instance is under high development now...

  ...new features are available every day!
HSLayers NG, HSLayers NG Mobile

- Source code of HSLayers available on: https://github.com/hslayers/hslayers-ng
- Source Code of HSlayers Mobile available on https://github.com/hslayers/cordova
- Web Pages https://ng.hslayers.org/
- charvat@ccss.cz