Foreword

The Spatial Information Services Stack (SISS) is an architecture and suite of tools for spatial data interoperability using the OGC standards, GML application schema development and registries. Various projects in many science/business domains are deploying the SISS in multiple Australian Government agencies and research organisations.

As SISS is built on open source technologies others are encouraged to utilise the stack and assist in its development.

The SISS builds on existing technologies where possible, such as GeoServer, FullMoon and GeoNetwork. Development has primarily involved feature enhancement to support complex application schemas like GeoSciML and WaterML, and engineering hardening to raise the quality of service level and ensure the stack is complete. For example, the AuScope portal uses GeoNetwork to discover services, and the application schemas supported by GeoServer are developed and tested with FullMoon. The objective is that a complete solution is available to develop, establish and maintain OGC compliant applications from the various component parts.

Spatial Information Services Stack - Technical & Implementation Details, Events/Tutorials

SISS Releases / Roadmap

- SISS Releases
- SISS Future Architecture

SISS Components
Components included in the SISS Architecture

- Modelling Tools
- Registry Services
- Web (Feature/Map) Services
- Vocabulary Service
- Coverage Service
- URN Resolution Service (superseded by Persistent Identifier Service)
- Persistent Identifier Service

SISS Incubator Components

Components in testing, intended for possible inclusion in future SISS releases

(Notes and pages in this section are NOT formalised as in other sections)

- WebProcessingService (WPS)
- SensorObservationService (SOS)
- Schematron Validation Web Service (http://xmldev.arrc.csiro.au/Schematron/)
- ...

SISS Architecture

Version 2.2 onwards
SISS Friends

Tools and widgets built by others that leverage on SISS or add value!

- Excel WFS Reader Add-In
- ....

SISS Events/Tutorials

- SissWorkshop2011
- SissWorkshopNZ2011
- SissWorkshopBoM2013
- SissWorkshopCairo2013
- SissWorkshopGA2014

Workshop Packages

- SissWorkshopOneDayStructure (Structure for a One Day SISS Tutorial)
- SissWorkshopTwoDayStructure (Structure for a Two Day SISS Tutorial)
SISS Release Strategy and Licensing

- **SISS Release Strategy** - policy for organising the software releases with the Spatial Information Services Stack (SISS) project
- **SISSReleaseGuide** - Step by Step guide for testing and releasing SISS
- **SISSLicenseInformation**
- **AutomatingSISSRelease**

SISS Publications and Presentations

- **March 2012 SISS: Future Directions**
- **4DES_Final.pptx**: Golodoniuc/Rankine/Atkinson/Kostanski "Spatial Information Services Stack (SISS) - A Technology Stack to Support the Next Generation of SDIs" presentation at the 4th Digital Earth Summit 2012

Spatial Information Services Stack Handbook

SpatialInformationServicesStackHandbook

Related Material

- **GIGAS Contribution to GEOSS AIP-3**
- **Deegree 3 Evaluation**

Contact

For general SISS questions, release notifications and discussion about the overall 'SISS architecture' please join our [https://lists.csiro.au/mailman/listinfo/siss](https://lists.csiro.au/mailman/listinfo/siss) If you have queries about a specific component of SISS then it would be best to ask that component's community directly; the aforementioned list is for a more 'general architecture' type of discussion.