

SOSA/SSN update rolling minutes doc

Meeting details

Note new time starting 10 April 2024

<https://www.w3.org/groups/wg/sdw/calendar/>

Connexion link

Zoom - 25/10/23 - still valid for new time starting 10/04/24

<https://w3c.zoom.us/j/83907852136?pwd=S0g4RkwvaWNqRHI3YXR1c1RtRk9WZz09>

GitHub

Open issues: <https://github.com/w3c/sdw-sosa-ssn/issues>

Working Doc

<https://w3c.github.io/sdw-sosa-ssn/ssn/>

2024-10-02T11:00:00Z

Attendees

- Alejandro Villar avillar@ogc.org
- Alex Robin alex.robin@georobotix.com
- Ashley Sommer ashley.sommer@csiro.au
- Bert Bos bert@w3.org
- Hylke van der Schaaf hylke.vanderschaaf@iosb.fraunhofer.de
- Kathi Schleidt kathi@datacove.eu
- Krzysztof Janowicz krzysztof.janowicz@univie.ac.at
- Luís de Sousa luis.moreira.de.sousa@tecnico.ulisboa.pt
- Maxime Lefrancois maxime.lefrancois@emse.fr
- Nick Car nick@kurrawong.ai
- Raúl Palma rpalma@man.poznan.pl
- Rob Atkinson ratkinson@ogc.org - Rosie's concert
- Rob Warren warren@glengarryag.com (Regrets)
- Simon Cox dr.shorthair@pm.me - Rosh Hashanah
- Sylvain Grellet s.grellet@brgm.fr
- Your name here*

Agenda & notes

1. **Note taker:** **Luis** then **Sylvain** (joined around 13:15 CEST as usual).
2. Approve agenda
3. Actions:
 - a. **Simon Cox** prepared PR to move OMS to Extensions (from Alignments)
<https://github.com/w3c/sdw-sosa-ssn/pull/248>
Preview:
<https://raw.githubusercontent.com/w3c/sdw-sosa-ssn/242-move-oms-to-extensions/ssn/index.html#Introduction>
Please review
 - b. **Simon Cox** prepared PR to deprecate Property specializations (replaces earlier PR from **warren@glengarryag.com** which was hard to merge)
<https://github.com/w3c/sdw-sosa-ssn/pull/249>
Preview:
<https://raw.githubusercontent.com/w3c/sdw-sosa-ssn/237-deprecate-observableproperty-act/utableproperty/ssn/index.html>
Please review
 - c. **Simon Cox** still to update examples

- d. Simon Cox to add examples from SSN-Ext for nested collections
4. W3C update:
 - a. TPAC meeting - joint session with WoT - Rob A to present and lead discussions. Rob W on location (into).
5. Open discussion on issues: Compare <https://github.com/w3c/sdw-sosa-ssn/issues> with <https://github.com/orgs/w3c/projects/86/views/1>
 - a. observationType + STA alignment: <https://github.com/w3c/sdw-sosa-ssn/issues/243>
 - b. STA - SOSA mapping - bblocks-sta <https://ogcincubator.github.io/bblocks-sta/>
 - RobA started working on mapping STA to SOSA
 - Presentation from Rob
 - Sylvain to provide URIs and more examples in the the following <https://github.com/ogcincubator/bblocks-sta>
Here : https://github.com/ogcincubator/bblocks-sta/blob/master/_sources/Observation/schema.yaml then run the relevant script (Rob to provide guidance)
 - For STA People to cross-check : need to have a meeting with Rob, Kathi, Hylke & Sylvain somewhere early Nov (morning CEST ?).
 - Discussion on +relatedCollection VS +member in the JSON Schema
 - For consistency and help people learn, we also need to reuse examples from OMS spec : https://docs.ogc.org/as/20-082r4/20-082r4.html#_alignment_between_observation_sample_and_domain_models
- c. DCAT/SOSA API: <https://github.com/w3c/sdw-sosa-ssn/issues/244>

2024-09-25T11:00:00Z

Attendees

- Alejandro Villar avillar@ogc.org - travelling
- Alex Robin alex.robin@georobotix.com
- Ashley Sommer ashley.sommer@csiro.au
- Bert Bos bert@w3.org
- Hylke van der Schaaf hylke.vanderschaaf@iosb.fraunhofer.de
- Kathi Schleidt kathi@datacove.eu
- Krzysztof Janowicz krzysztof.janowicz@univie.ac.at
- Luís de Sousa luis.moreira.de.sousa@tecnico.ulisboa.pt
- Maxime Lefrancois maxime.lefrancois@emse.fr
- Nick Car nick@kurrawong.ai
- Raúl Palma rpalma@man.poznan.pl
- Rob Atkinson ratkinson@ogc.org
- Rob Warren warren@glengarryag.com
- Simon Cox dr.shorthair@pm.me
- Sylvain Grellet s.grellet@brgm.fr
- Your name here*

Agenda & notes

1. **Note taker: Kathi**
2. Approve agenda
3. Actions: RobA submitted validTime PR
4. Meeting times:
 - a. Seasonal time changes are coming. From 9th October 11:00:00Z == 10pm local for Simon. Discuss if we need to change time slot.
 - b. Should wait until end of October until EU has also adjusted time if we wish to change
 - c. Options:
<https://www.timeanddate.com/worldclock/meetingtime.html?day=15&month=11&year=2024&p1=259&p2=240&p3=263&iv=0>
5. W3C/Charter update:
 - a. Advance notice:
<https://lists.w3.org/Archives/Member/w3c-ac-members/2024JulSep/0034.html>
bert@w3.org has circulated inside W3C
 - b. TPAC meeting - joint session with WoT - Rob A to present and lead discussions. Rob W on location (into).
6. Completion plan - which issues to keep, and which to defer?

- a. Compare <https://github.com/w3c/sdw-sosa-ssn/issues> with <https://github.com/orgs/w3c/projects/86/views/1> model/ontology is in good shape
 - b. Rob W to finish all of his PR within 2 weeks. (Info)
 - c. Simon to work through examples bringing them up to date with state of ontology
 - d. <https://opengeospatial.github.io/ogcapi-sosa/bblock/ogc.sosa.properties.spec-examples>
 - e. Proposal by Luis: any issue submitted after DD-MM-2024 will not be considered
 - f. Sylvain: provide public draft for feedback, allow for modular extension
 - g. RobA: OK with publishing draft, bblock will include SOSA, enables modular extension. Do we remove “historic” parts of the documents (old examples, mapping to DULCE...), shift out to external documents? (simple examples in Doc, large examples externally online)
 - h. Simon: examples do have some descriptive text
 - i. KS: group examples by structure, e.g. split ObsProp on FoI vs. generic ObsProp (confirmed by RobW, Sylvain)
 - j. Sylvain: coherent set of examples would be very valuable for uptake
 - k. Maybe move *some* of the extended examples following the minority patterns out of the spec
 - l. RobA: need somebody to sort through the examples, triage, sort.
 - m. Kathi and Sylvain will go through the examples, do first triage, provide to RobA
7. Open discussion on issues:
- a. *SamplingCollection* <https://github.com/w3c/sdw-sosa-ssn/pull/227> - merged
 - b. *validTime* - <https://github.com/w3c/sdw-sosa-ssn/issues/241> - inconsistencies removed. Is there still a case to move it into SOSA ?
 - c. OMS & SOSA - <https://github.com/w3c/sdw-sosa-ssn/issues/242>
 - OMS alignment is unusual, as it introduces new terms, thus looks like an extension
 - OMS is just UML, not RDF
 - Proposal: recategorize OMS to become an SSN Extension, becomes RDF implementation of OMS
 - Agreed
 - d. *Observable/ActuatableProperty* vs *Property* <https://github.com/w3c/sdw-sosa-ssn/issues/237>
 - Agreed
 - e. *observationType* + STA alignment: <https://github.com/w3c/sdw-sosa-ssn/issues/243>
 - f. STA - SOSA mapping - *bblocks-sta* <https://ogcincubator.github.io/bblocks-sta/>
 - RobA started working on mapping STA to SOSA
 - g. DCAT/SOSA API: <https://github.com/w3c/sdw-sosa-ssn/issues/244>
 - h. Simon will add collections examples from ssn/ext to doc

2024-09-18T11:00:00Z

Attendees

- Alejandro Villar avillar@ogc.org
- Alex Robin alex.robin@georobotix.com
- Bert Bos bert@w3.org
- Hylke van der Schaaf hylke.vanderschaaf@iosb.fraunhofer.de
- Kathi Schleidt kathi@datacove.eu
- Krzysztof Janowicz krzysztof.janowicz@univie.ac.at
- Luís de Sousa luis.moreira.de.sousa@tecnico.ulisboa.pt
- Maxime Lefrancois maxime.lefrancois@emse.fr
- Rob Atkinson ratkinson@ogc.org
- Rob Warren warren@glengarryag.com
- Simon Cox dr.shorthair@pm.me
- Sylvain Grellet s.grellet@brgm.fr
- Nick Car nick@kurrawong.ai
- Ashley Sommer ashley.sommer@csiro.au
- Raúl Palma rpalma@man.poznan.pl
- Your name here*

Agenda & notes

1. **Note taker:**
2. Approve agenda
3. Actions:
4. Charter update:
 - a. Advance notice:
<https://lists.w3.org/Archives/Member/w3c-ac-members/2024JulSep/0034.html>
5. Open discussion on issues:
 - a. <https://github.com/w3c/sdw-sosa-ssn/pull/227>
Basically good to go except for a grammar error (an `SamplingCollection`)
 - b. RobA to submit new PR on `sosa:validTime`
 - c. Kathi to open broader issues for discussion on:
 - [Bring mapping to OMS closer to the SOSA core](#);
 - [Alignment with SensorThings API via ObservationType](#).
 - d. Bringing [SOSA into DCAT](#): if we use the `ObsCollection` type, users can define the level of detail to be provided, e.g.:
 - Groupings, list of `ObsProps`, `Fol`, `Process`
 - Individual explanations, only the `ObsProps` available on the `Fol` and `Process`

6. Other topics:

- a. Message from Barbara Magagna: the I-ADOPT Variable Modeling Challenge has started: <https://i-adopt.github.io/challenge.html>
 - Due to popular demand, will prolong until Wednesday September 25 evening
- b. TPAC meeting - joint session with WoT - Rob A to present and lead discussions
- c. STA - SOSA mapping - bblocks-sta <https://ogcincubator.github.io/bblocks-sta/>

2024-09-11T11:00:00Z

Attendees

- Alejandro Villar avillar@ogc.org
- Alex Robin alex.robin@georobotix.com
- Bert Bos bert@w3.org
- Hylke van der Schaaf hylke.vanderschaaf@iosb.fraunhofer.de
- Kathi Schleidt kathi@datacove.eu
- Krzysztof Janowicz krzysztof.janowicz@univie.ac.at
- Luís de Sousa luis.moreira.de.sousa@tecnico.ulisboa.pt
- Maxime Lefrancois maxime.lefrancois@emse.fr
- Rob Atkinson ratkinson@ogc.org
- Rob Warren warren@glengarryag.com
- Simon Cox dr.shorthair@pm.me
- Sylvain Grellet s.grellet@brgm.fr
- Nick Car nick@kurrawong.ai
- Ashley Sommer ashley.sommer@csiro.au
- Raúl Palma <rpalma@man.poznan.pl>
- Your name here*

Agenda & notes

1. **Note taker: Luís**
2. Approve agenda
3. Actions:
4. Charter update:
5. Open discussion on issues:
 - a. Green Deal Information Model schema from AD4GD :
<https://w3id.org/ad4gd/gdim-context.jsonld>
 - b. Resolves to:

<https://raw.githubusercontent.com/AD4GD/GDIM/main/jsonld/greenDealProfile-context.jsonld>

Meeting Recording: https://portal.ogc.org/files/?artifact_id=109197 (700Mb)

2024-09-04T11:00:00Z

Attendees

- Alejandro Villar avillar@ogc.org
- Alex Robin alex.robin@georobotix.com
- Bert Bos bert@w3.org
- Hylke van der Schaaf hylke.vanderschaaf@iosb.fraunhofer.de
- Kathi Schleidt kathi@datacove.eu
- Krzysztof Janowicz krzysztof.janowicz@univie.ac.at
- Luís de Sousa luis.moreira.de.sousa@tecnico.ulisboa.pt
- Maxime Lefrancois maxime.lefrancois@emse.fr
- Rob Atkinson ratkinson@ogc.org
- Rob Warren warren@glengarryag.com
- Simon Cox dr.shorthair@pm.me
- Sylvain Grellet s.grellet@brgm.fr
- Nick Car nick@kurrawong.ai
- Ashley Sommer ashley.sommer@csiro.au
- Your name here*

Agenda & notes

1. **Note taker: Luís**
2. Approve agenda
3. Actions:
4. Charter update:
 - a. Bert submitted last week for internal review at the W3C. Someone already commented (who?)
 - b. Bert currently away, back second half of September. Resume then.
5. Open discussion on issues:
 - a. Kathi and Sylvain to review [PR #227](#). (KS: looks good to go, just a typo, “an” in place of “a” in front of “SampleCollection”)

2024-08-28T11:00:00Z

Attendees

- Alejandro Villar avillar@ogc.org
- Alex Robin alex.robin@georobotix.com
- Bert Bos bert@w3.org
- Hylke van der Schaaf hylke.vanderschaaf@iosb.fraunhofer.de
- Kathi Schleidt kathi@datacove.eu
- Krzysztof Janowicz krzysztof.janowicz@univie.ac.at
- Luís de Sousa luis.moreira.de.sousa@tecnico.ulisboa.pt
- Maxime Lefrancois maxime.lefrancois@emse.fr
- Rob Atkinson ratkinson@ogc.org
- Rob Warren warren@glengarryag.com
- Simon Cox dr.shorthair@pm.me
- Sylvain Grellet s.grellet@brgm.fr
- Nick Car nick@kurrawong.ai
- Ashley Sommer ashley.sommer@csiro.au
- Your name here*

Agenda & notes

1. **Note taker:**
2. Approve agenda
3. Actions:
4. Charter update
 - a. Merged pull requests - review at <https://w3c.github.io/charter-drafts/2024/sdw-wg.html>
 - b. Action - bert@w3.org GeoDCAT addition has been lost in GeoSPARQL addition merge - reinstate <https://github.com/w3c/charter-drafts/pull/569>
 - c. RobA to review Section 5 (details on deliverable)
 - d. Remove Section 5.3 (Bert)
5. Open discussion on issues

<https://github.com/w3c/sdw-sosa-ssn/issues>

2024-08-21T11:00:00Z

Attendees

- Alejandro Villar avillar@ogc.org
- Alex Robin alex.robin@georobotix.com
- Bert Bos bert@w3.org
- Hylke van der Schaaf hylke.vanderschaaf@iosb.fraunhofer.de
- Kathi Schleidt kathi@datacove.eu
- Krzysztof Janowicz krzysztof.janowicz@univie.ac.at
- Luís de Sousa luis.moreira.de.sousa@tecnico.ulisboa.pt
- Maxime Lefrancois maxime.lefrancois@emse.fr
- Rob Atkinson ratkinson@ogc.org
- Rob Warren warren@glengarryag.com
- Simon Cox dr.shorthair@pm.me
- Sylvain Grellet s.grellet@brgm.fr
- Nick Car nick@kurrawong.ai
- Ashley Sommer ashley.sommer@csiro.au
- Your name here*

Agenda & notes

6. **Note taker:**
7. Approve agenda
8. Actions:
9. Charter update
 - a. GeoSPARQL and the future CRS ontology proposed to fall in scope for maintenance by the SDWWG?: <https://github.com/w3c/charter-drafts/pull/565>
 - b. GeoDCAT <https://github.com/w3c/charter-drafts/pull/569>
10. Open discussion on issues

2024-08-14T11:00:00Z

Attendees

- Alejandro Villar avillar@ogc.org
- Alex Robin alex.robin@georobotix.com
- Bert Bos bert@w3.org
- Hylke van der Schaaf hylke.vanderschaaf@iosb.fraunhofer.de
- Kathi Schleidt kathi@datacove.eu
- Krzysztof Janowicz krzysztof.janowicz@univie.ac.at
- Luís de Sousa luis.moreira.de.sousa@tecnico.ulisboa.pt
- Maxime Lefrancois maxime.lefrancois@emse.fr
- Rob Atkinson ratkinson@ogc.org
- Rob Warren warren@glengarryag.com
- Simon Cox dr.shorthair@pm.me
- Sylvain Grellet s.grellet@brgm.fr
- Nick Car nick@kurrawong.ai
- Ashley Sommer ashley.sommer@csiro.au
- Your name here*

Agenda & notes

11. **Note taker:**
12. Approve agenda
13. Actions:
14. Charter update
 - a. GeoSPARQL and the future CRS ontology proposed to fall in scope for maintenance by the SDWWG: <https://github.com/w3c/charter-drafts/pull/565>
 - b. <https://Kurrawong.github.io/charter-drafts/2024/sdw-wg.html>
 - c. GeoDCAT
15. Presentation on GeoSPARQL and FG-JSON (Nick Car)
 - a. 3D Geometry is one of the major updates envisioned for GeoSPARQL.
 - b. Alignments between GeoSPARQL and other ontologies could fall within the scope of the SDWWG. E.g. Time and Geometry with OWL Time.
16. Open discussion on issues

2024-08-07T11:00:00Z

Attendees

- Alejandro Villar avillar@ogc.org
- Alex Robin alex.robin@georobotix.com
- Bert Bos bert@w3.org
- Hylke van der Schaaf hylke.vanderschaaf@iosb.fraunhofer.de
- Kathi Schleidt kathi@datacove.eu
- Krzysztof Janowicz krzysztof.janowicz@univie.ac.at
- Luís de Sousa luis.moreira.de.sousa@tecnico.ulisboa.pt
- Maxime Lefrancois maxime.lefrancois@emse.fr
- Rob Atkinson ratkinson@ogc.org
- Rob Warren warren@glengarryag.com
- Simon Cox dr.shorthair@pm.me
- Sylvain Grellet s.grellet@brgm.fr
- Nick Car nick@kurrawong.ai
- Ashley Sommer ashley.sommer@csiro.au
- Your name here*

Agenda & notes

17. **Note taker:**

18. Approve agenda

19. Actions:

- a. Rob: PR for charter
- b. Added references to work groups suggested by Kathi.

20. Charter update

- a. Multi-part SOSA <https://github.com/w3c/charter-drafts/pull/564> (preview at <https://rob-metalinkage.github.io/charter-drafts/2024/sdw-wg.html>)

21. Open discussion on issues

Discussed Operating, Survival, Measurement Range classes - Rob warren to update with an abstract superclass and post for discussion.

2024-07-31T11:00:00Z

Attendees

- Alejandro Villar avillar@ogc.org
- Alex Robin alex.robin@georobotix.com
- Bert Bos bert@w3.org
- Hylke van der Schaaf hylke.vanderschaaf@iosb.fraunhofer.de
- Kathi Schleidt kathi@datacove.eu
- ~~Krzysztof Janowicz~~ krzysztof.janowicz@univie.ac.at - traveling in July
- Luís de Sousa luis.moreira.de.sousa@tecnico.ulisboa.pt
- Maxime Lefrancois maxime.lefrancois@emse.fr
- Rob Atkinson ratkinson@ogc.org
- Rob Warren warren@glengarryag.com
- Simon Cox dr.shorthair@pm.me
- ~~Sylvain Grellet~~ s.grellet@brgm.fr - unavailable for a few weeks
- Nick Car nick@kurrawong.ai
- Ashley Sommer ashley.sommer@csiro.au
- Your name here

Agenda & notes

22. Note taker: Simon Cox

23. Actions:

- a. Rob has sent email to Scott Simmons re SWG membership rules for associates and to check charter approach.
- b. Rob - still to do update PR to rework SOSA scope as a multi-part standard.
- c. Bert - no report on check process

24. Approve agenda

25. Presentation on the [Biodiversity Data Repository \(BDR\)](#) - a large SSN Application in the Australian Government

- a. **Ashley Sommer** on **SamplingCollection** requirement in BDR
Motivation is to reduce # triples in store
Nick notes that normalization and de-normalization may be needed between collections and members during ingest
Will depend on analysing queries
Balance between pre-materialize, compared to real-time inference?
System will hold 100,000,000 observations (already know of 55,000,000 from state providers), ~50 triples per observation → billions of triples
<https://github.com/w3c/sdw-sosa-ssn/issues/189>
<https://github.com/w3c/sdw-sosa-ssn/pull/227>

RobA notes potential need for **ExecutionCollection** superclass of Actuation/Observation/Sampling-Collection

b. **Nick Car on GeoSparql**

Aiming for potential triple-branding - OGC/ISO/W3C ?

Complication on unsynchronised versions

Also adding SHACL treatment

V1.1 OGC spec 2023 tidied up v1 from 2012

V1.2 ISO candidate standard

V1.3 focussing on 3-D (initial stages) - based initially on requirements from BIM (Buildings) & Cadastre

Luis asked about CRS Ontology - not part of GeoSPARQL

Rob/Alejandro - tangles with GeoSPARQL, GeoJSON, JSON-LD

GeoSPARQL → GeoJSON is OK with JSON-LD

Reverse is more challenging - needs careful specification

26. Upcoming meetings

- a. Simon away August 6th - September 17th
- b. Kathi away August 6th-28th, so no August meetings
- c. Luis away Aug 7th and Aug 21st
- d. Bert away some weeks in Sep

27. Backlog - <https://github.com/orgs/w3c/projects/86/views/1>

- a. Add **SamplingCollection** <https://github.com/w3c/sdw-sosa-ssn/issues/189>
No objection to moving this forward - resolution agreed
- Also need **ExecutionCollection** ?
- b. Deprecate **Property specializations**?
[Raised by alex.robin@georobotix.com](mailto:alex.robin@georobotix.com) and supported by kathi@datacove.eu
and luis.a.de.sousa@gmail.com new issue
<https://github.com/w3c/sdw-sosa-ssn/issues/237>
Provisional implementation by warren@glengarryag.com
<https://github.com/w3c/sdw-sosa-ssn/pull/238>
- c. **Sample** definition and modeling <https://github.com/w3c/sdw-sosa-ssn/issues/19>
 - Related to **FeatureOfInterest / domain model** clarification
<https://github.com/w3c/sdw-sosa-ssn/issues/232> and
<https://github.com/w3c/sdw-sosa-ssn/pull/236>
- d. Simple system capabilities - <https://github.com/w3c/sdw-sosa-ssn/issues/233>
warren@glengarryag.com

2024-07-24T11:00:00Z

Attendees

- Alejandro Villar Alejandro Villar Fernandez
- Alex Robin alex.robin@georobotix.com
- Bert Bos bert@w3.org
- Hylke van der Schaaf @hylke.vanderschaaf@iosb.fraunhofer.de
- Kathi Schleidt kathi@datacove.eu
- Krzysztof Janowicz ~~krzysztof.janowicz@univie.ac.at~~ - traveling in July
- Luís de Sousa luis.moreira.de.sousa@tecnico.ulisboa.pt
- Maxime Lefrancois maxime.lefrancois@emse.fr
- Rob Atkinson Rob Atkinson
- Rob Warren warren@glengarryag.com
- Simon Cox dr.shorthair@pm.me
- Sylvain Grellot ~~s.grellot@brgm.fr~~ - unavailable for a few weeks
- Your name here

Agenda & notes

1. **Note taker: Kathi Schleidt**
2. Approve agenda
3. Upcoming meetings
 - a. Many people will be away but we will meet 31/07
 - b. Kathi away August 6th-28th, so no August meetings
 - c. Luis away Aug 7th and Aug 21st
 - d. Bert away some weeks in Sep
 - e. Rob(s) are being stay-at-homes.
 - f. Alejandro - no plans as of yet.
 - g. Luis to circulate poll on first days to restart when his plans finalise.
 - h. Barbara away till August 5
4. Membership - e.g. Barbara Magagna (Barbara Magagna <barbara@gofair.foundation>), would like to work on I-ADOPT Observable Property model
 - a. Understanding is that a SWG can propose a NWI, if debate we convene a discussion
 - b. Liaison via GO FAIR Foundation (<https://www.gofair.foundation/>). We need to check with Scott Simmons, we can invite her as an expert in W3C if GoFAIR is not involved in a company involved in web technology.
 - c. Rob to write email to Bert & Scott to clarify SWG membership and SDW engagement assumptions - and develop PR for charter to clarify rules.
 - d. Bert to check conflict of interest re Barbara specifically.

- e. Kathi Schleidt to facilitate OMS SWG membership rules.
 - f. Barbara has now a W3C account (mabablue)
5. Draft Charter PR From Luis.
- a. <https://raw.githack.com/lidesousa/charter-drafts/sdwwg/2024/sdw-wg.html>
 - Where is the fine line of what we can do under SOSA, as of where do we need to recharter?
 - Action Rob A - update PR to define SOSA definition to include extensions for domain agnostic foundational concepts, e.g. I-ADOPT, TSML. If domain extensions (e.g. WaterML, GloSIS) are interested in bringing their models to W3C, would need a recharter. Add TSML and GeoDataCube SWGs to Section 5.2 OGC Groups
 - b. PR at W3C repo: <https://github.com/w3c/charter-drafts/pull/534>
 - Please add comments and tag @lidesousa or @rob-metalinkage
6. Pull Requests
- a. <https://github.com/w3c/sdw-sosa-ssn/pull/226>
7. Issues. <https://github.com/w3c/sdw-sosa-ssn/issues>

2024-07-17T11:00:00Z

Attendees

- Alejandro Villar Alejandro Villar Fernandez
- Alex Robin alex.robin@georobotix.com
- Bert Bos bert@w3.org
- Hylke van der Schaaf @hylke.vanderschaaf@iosb.fraunhofer.de
- Kathi Schleidt kathi@datacove.eu
- Krzysztof Janowicz krzysztof.janowicz@univie.ac.at - traveling in July
- Luís de Sousa luis.moreira.de.sousa@tecnico.ulisboa.pt
- Maxime Lefrancois maxime.lefrancois@emse.fr
- Rob Atkinson Rob Atkinson
- Rob Warren warren@glengarryag.com
- Simon Cox dr.shorthair@pm.me
- Sylvain Grellet s.grellet@brgm.fr - unavailable for a few weeks
- Your name here

Agenda & notes

1. **Note taker: Rob Warren**
2. Approve agenda
3. Upcoming meetings
 - a. 2024-07-24 - Simon away - need chair - ratkinson@ogc.org
 - b. Presentation on GeoSPARQL and Australia's BDS
 - c. 2024-08-07 → 2024-09-18 - Simon away - need chair, else take a week or two break - RobA & Luis to arrange
4. Draft Charter PR <https://w3c.github.io/charter-drafts/2024/sdw-wg.html>
(SC -Draft charter merged into min branch)
 - a. Backing for **spatio-temporal datacube** needs tying down?
Coverage WG (Baumann, Jerome St. Louis) OR Geodatacube SWG (Mathias Mohr)?
 - b. I-ADOPT to be mentioned explicitly? Perhaps it is already implied by the more general statements? (i.e. "Support the development of resources required to support the adoption of the SSN ontology.")
 - c. Kathi - spatio-temporal metadata - STAC extension ... Trying to bring in PROV with a jsonld context into geodatacube. RobA - there two json flavors of jsonld provenance, needs to be fixed. RobA is trying to automate the [implementation](#), RobA wants to make STAC-extensions process more rigorous and aligned to standards. Kathi would like to have this aligned with OMS metadata. (Kathi / RobA to keep going offline). Note Mathias Mohr led the STAC extensions work -

possibly we can link him in in the context of a new extensions design he has already suggested is necessary.

5. Issues for discussion this week - <https://github.com/orgs/w3c/projects/86/views/1>
 - a. FeatureOfInterest & domain types **guidance** - <https://github.com/w3c/sdw-sosa-ssn/issues/232>

Proposed change
<https://raw.githack.com/w3c/sdw-sosa-ssn/232-domain-models-vs-feature-of-interest/ssn/index.html#model-domain> linked from
<https://raw.githack.com/w3c/sdw-sosa-ssn/232-domain-models-vs-feature-of-interest/ssn/index.html#Features-of-Interest-and-Properties-overview>
(SC - Explanation of changes; Kathi wishes to look at the changes in detail. Execution is the superclass of Actuation, Observation and Sample.)
 - b. Procedure specializations <https://github.com/w3c/sdw-sosa-ssn/issues/235>

(SC reviews ticket discussion. RW - If there is no difference between the class and its superclass there is no reason for it. SC reviews AR's comments. SC - People have managed without specialized for 7 years. RobA - If we do this we need to do this properly and it needs to be done elsewhere in another part/document. CS paraphrases SG's comment. SC - terms can be moved to alignment of sosa-oms. Kathi - We can always entail this later one. SC - We are in agreement.
 - c. Execution properties <https://github.com/w3c/sdw-sosa-ssn/issues/225>

(SC - This is needed to align a few more UML with madeExecution. Kathi is concerned this will create new work on the specification. RobA - There should be only one obvious way of doing this; not sure that an abstract property is needed to pull things together. SC - inconsistent use of specialization / generalization within the spec. This is for establishing a pattern for more than anything else. RobA We need a strong statement that this is not meant to be implemented. LDS - "One of the aims was to make the model easier to describe. In my view the abstract level is useful in expressing the overall goals of SOSA/SSN. " SC - Volunteers himself for this would appreciate that people read his narrative before the meeting starts.
 - d. System types (datasheets) <https://github.com/w3c/sdw-sosa-ssn/issues/107>

SC - This has stalled;
 - e. Rob Warren still working on <https://github.com/w3c/sdw-sosa-ssn/issues/233>

RW - This is ongoing. Please review relationships between survival and operation.
Kathi - Trying to get someone involved with SOSA from the EDT timezone. Will put RW in touch with him,

2024-07-10T11:00:00Z

Attendees

- Alejandro Villar Alejandro Villar Fernandez
- Alex Robin alex.robin@georobotix.com
- Bert Bos bert@w3.org
- Hylke van der Schaaf @hylke.vanderschaaf@iosb.fraunhofer.de
- Kathi Schleidt kathi@datacove.eu
- Krzysztof Janowicz krzysztof.janowicz@univie.ac.at
- ~~Luís de Sousa~~ —apology for two sessions
- Maxime Lefrancois maxime.lefrancois@emse.fr
- Rob Atkinson Rob Atkinson
- Rob Warren warren@glengarryag.com
- Simon Cox dr.shorthair@pm.me
- Sylvain Grellet s.grellet@brgm.fr
- Your name here

Agenda & notes

1. **Note taker:** kathi@datacove.eu
2. Approve agenda
3. Charter PR <https://github.com/w3c/charter-drafts/pull/553>
(preview at <https://rob-metalinkage.github.io/charter-drafts/2024/sdw-wg.html>)
 - a. Rob updated Scope, simplified (work with OGC SWGs), out of scope either Spec with no SWG or Best Practice with no DWG
 - b. Add dot-point to **SSN-update** to tie it to **OMS SWG - (done)**
 - c. Backing for **spatio-temporal datacube** needs tying down?
Coverage WG (Baumann. Jerome St. Louis) OR Geodatacube SWG (Mohr)?
4. Issues for discussion this week - <https://github.com/orgs/w3c/projects/86/views/1>
 - a. Inverse properties/property tabulation s.grellet@brgm.fr
<https://github.com/w3c/sdw-sosa-ssn/pull/228#issuecomment-2219297245>
Table Annex B reduced to prop and inverse, sortable
Inverses added to diagrams
PR ready for review <https://github.com/w3c/sdw-sosa-ssn/pull/228>
 - b. Feature/featureOfInterest s.grellet@brgm.fr kathi@datacove.eu
<https://github.com/w3c/sdw-sosa-ssn/issues/232>
Based on “Set-Theory” approach, whatever Feature an Observation points to becomes a member of the Fol set
Adding the [explanation text](#) from the PR would be valuable in the Spec, where to put? [8. Common Modeling Questions](#) and reference from hasFol.

- c. Simple system-capabilities model warren@glengarryag.com
<https://github.com/w3c/sdw-sosa-ssn/issues/230>
<https://github.com/w3c/sdw-sosa-ssn/issues/233>
 Observation quality based on environmental conditions, how to handle?
 → Precision: a feature of the output result (smallest number that can come out)
 → Resolution: smallest difference in the input (change in voltage)
 Accuracy, sensitivity are additional terms for this
 System Capabilities is non-normative
 Rob will look at and try to update precision, accuracy, sensitivity
 Potentially align with VIM (CGM 200:2012, International vocabulary of metrology
 — Basic and general concepts and associated terms (VIM)) ->
https://www.bipm.org/documents/20126/2071204/JCGM_200_2012.pdf/f0e1ad45-d337-bbeb-53a6-15fe649d0ff1
 Maybe split to separate doc? Easier as would need evidence if implementation.
- d. System type / systemKind [Rob Atkinson](#)
<https://github.com/w3c/sdw-sosa-ssn/issues/107#issuecomment-2216030704>
- e. madeBySystem/madeExecution [Simon Cox](#)
<https://github.com/w3c/sdw-sosa-ssn/issues/225#issuecomment-2205287979>

Side topic: alignment between STAC, GeoDCAT... Rob, Sylvain and Kathi need to talk on this

Chatlog

21:47:24 From Simon Cox to Everyone:

What's the difference between Precision and Resolution?

21:48:05 From Simon Cox to Everyone:

Is VIM relevant to your work RobWarren?

21:48:12 From Hylke van der Schaaf (IOSB) to Everyone:

<https://www.portaspecs.com/precision-and-accuracy/>

21:51:26 From Sylvain Grellet (BRGM) to Everyone:

@Simon Cox, by VIM you mean : CGM 200:2012, International vocabulary of metrology
 — Basic and general concepts and associated terms (VIM) ?

21:52:15 From Hylke van der Schaaf (IOSB) to Everyone:

Data Quality is currently also a topic in the STA SWG:

<https://github.com/opengeospatial/sensorthings/issues/174>

21:54:27 From Sylvain Grellet (BRGM) to Everyone:

from STA SWG issue (174) -> there is a reference to

<https://www.w3.org/TR/vocab-dqv/#ExpressDatasetAccuracyPrecision>

21:57:02 From Kathi Schleidt to Everyone:

I worry about the MANY SystemProperty types, wonder if these should be checked, see if there are overlaps

21:58:24 From Simon Cox to Everyone:

I'm looking at Semantic Sensor Network Ontology (githack.com)

21:58:25 From Alejandro Villar (OGC) to Everyone:

I am sorry, this is extremely interesting, but I need to join another meeting. thanks!

22:00:18 From Sylvain Grellet (BRGM) to Everyone:

direct link to VIM (hoping that the latest) :

https://www.bipm.org/documents/20126/2071204/JCGM_200_2012.pdf/f0e1ad45-d337-bbeb-53a6-15fe649d0ff1

22:02:24 From Kathi Schleidt to Everyone:

Also need to see what data quality aspects are hidden in TSML

22:02:38 From Sylvain Grellet (BRGM) to Everyone:

Reacted to "Also need to see wha..." with 👍

22:03:30 From Rob Atkinson to Everyone:

<https://ogcincubator.github.io/geodcat-ogcapi-records/>

22:04:40 From Sylvain Grellet (BRGM) to Everyone:

so you have the software STACK to help us digest STAC :)

with this, I have to run

22:04:54 From Rob Atkinson to Everyone:

Reacted to "so you have the soft..." with 😄

22:04:55 From Kathi Schleidt to Everyone:

Reacted to "so you have the soft..." with 👍

2024-07-03T11:00:00Z

Attendees

- Alejandro Villar
- Alex Robin
- Bert Bos
- Hylke van der Schaaf
- Kathi Schleidt
- ~~Krzysztof Janowicz — apology this week~~
- ~~Luís de Sousa — apology for two sessions~~
- Maxime Lefrancois
- Rob Atkinson
- ~~Rob Warren — Out this session~~
- Simon Cox
- Sylvain Grellet
- Your name here*

Agenda & notes

1. **Note taker: Rob Atkinson**
2. Approve agenda
3. AOB: Kathi: current backlog views appreciated
4. Sylvain: can we make diagrams searchable? Alt text? SVG images?(Lucidchart does not export text...) -> <https://github.com/w3c/sdw-sosa-ssn/issues/231>
5. Meeting schedule - summer break needed?
 - a. Simon away : several weeks in August and some early Sept
 - b. Sylvain away from July 15th to August 19th
 - c. Kathi probably away most of August

Recess in August?

6. Issues for discussion this week - <https://github.com/orgs/w3c/projects/86/views/1>
 - a. #218
 - Fol type is domain specific - if we dereference can it provide the reverse property implicit for a Fol
 - FeatureOfInterest as a Class possibly redundant - decided not to change for backwards compatibility - does no harm because of polymorphism. Can be used to state that a particular Feature is of interest for a particular execution context.
 - Add more words to the definition noting polymorphism/multiple inheritance/set intersection
 - Concern is about definition, not inverse properties -
 - [New issue for Fol vs. Feature](#)

b. #228

- Simon to try reformatted to address burial of property names in middle of table
- Domains and ranges provide extra information - but may be hard to maintain.
- What other work is table doing - is it sufficient to illustrate that there is symmetry?
- Can the property name column be sortable?
- NOTUC to removing domain/range columns.

c. #107

- Simon shows “common implementations” section 8.5
- Rob: Rdf:type link to object type may be hidden in many polymorphic contexts using the same predicate...?
- Action: Rob A to explore example to see how much of a problem this is.
- Simon - class is the datasheet
- Rob Warren in offline discussion identified datasheet is a specific artefact that needs to be linked, and identifiable as a datasheet.
- Rob A - suggests make a more specific predicate than prov:wasDerivedFrom.
-

2024-06-26T11:00:00Z

Attendees

- Alejandro Villar
- Alex Robin
- Bert Bos
- Hylke van der Schaaf
- Kathi Schleidt - apology
- Krzysztof Janowicz
- Luís de Sousa - probably late
- Maxime Lefrancois
- Rob Atkinson - apology
- Rob Warren
- Simon Cox
- Sylvain Grellet - apology
- Your name here*

Agenda & notes

1. **Note taker: KJ**
2. Approve agenda
 - a. Agenda approved
3. Proposal for new members joining the discussion
 - a. Barbara Magagna (I-ADOPT) (via Luis de Sousa)
 - b. Discussion: how to involve new potential members so late in the game as it can be disruptive; we are very close to wrapping up
 - c. Consensus: too late to have people join; people can join for later activities
 - d. Discussion: do we have a formal procedure for the future?
4. Charter - progress report?
 - a. Incl. I-ADOPT?
 - b. Take the motivation from the initial “Best Practices for Publishing, Retrieving, and Using Spatial Data on the Web” document and the W3C draft note:
<https://www.w3.org/TR/sdw-bp/>
 - c. Currently we are working under an expired charter (SC)
 - d. Scope can be broader but should not be mistaken with the work of the SOSA subtasks
 - e.
5. Issues for discussion this week - <https://github.com/orgs/w3c/projects/86/views/1>

- a. Inverse properties and tabulation
<https://github.com/w3c/sdw-sosa-ssn/issues/218>
 PR ready for review
<https://github.com/w3c/sdw-sosa-ssn/pull/228>
- b. (SC) HTML documentation has now been done
- c. (SC) For instance, we now have `isUltimateFeatureOfInterestOf` as inverse of `hasUltimateFeatureOfInterest`
- d. (SC) Next step is to review the PR
- e. (RW) Will do review today 06/26/24
- f. Patterns for datasheets/system-kinds
<https://github.com/w3c/sdw-sosa-ssn/issues/107#issuecomment-2174402225>
<https://github.com/w3c/sdw-sosa-ssn/issues/107#issuecomment-2182227694>
 In particular
 - i. Does `madeBySensor`` point to the sensor-type/kind, or to the sensor-instance, or both?
 - ii. In the subclass pattern, how are system-capabilities tied to the OWL Class?
- g. (RW) does this address all issues?
- h. AlexRobin also confirms in the discussion on github that it does
- i. (SC) The `sosa:observes` restriction example is clear, others may be more tricky; we need to check.
- j. (SC) Next steps to be shown how to use this for `SystemCapabilities` and other SSN-systems examples.
- k. (SC+RW) RW will check (see Fig. 18) which properties matter, e.g., accuracy. "some thought is required over the domains and ranges of some of the predicates"
 (RW) Are we okay with using PROV (`hadPrimarySource`)?
 (SW) Yes, let's go with PROV (also due to being from W3C)
 (LS) New SOSA already uses parts of PROV
 Discussion: Do we need subclasses of the Procedure class?
 Discussion: Will we have a summer break?
 (KJ) I will miss next week.

2024-06-19T11:00:00Z

No telecon - OGC Member Meeting in Montreal

2024-06-12T11:00:00Z

Attendees

- Alejandro Villar
- Alex Robin
- Bert Bos
- Hylke van der Schaaf
- Kathi Schleidt
- Krzysztof Janowicz
- Luís de Sousa
- Maxime Lefrancois
- Rob Atkinson (zoom updating itself..)
- Rob Warren
- Simon Cox
- Sylvain Grellet
- Your name here*

Agenda & notes

1. **Note taker (RW)**
(Foreword: **KS** still cheers for the Austro-Hungarian football team!)
2. Project management
 - a. Additional milestones created <https://github.com/w3c/sdw-sosa-ssn/milestones> to match W3C stages <https://www.w3.org/Guide/transitions/?profile=WD>
(**SC** - Milestones are tweaked; target deadline is end of year. Should push out a public working draft by the end of the month.)
 - b. Kanban stages adjusted, still a work-in-progress
 - moving issues to plan
 - need to fix project actions and workflow<https://github.com/orgs/w3c/projects/86/views/1>
(**SC** - Slight changes to the board. Issues should not be closed until the PR is closed. Issues need to be assigned to Projects.)
 - c. Process clarification: What is orthodoxy? Can we change definitions? Re: <https://github.com/w3c/sdw-sosa-ssn/issues/220>
(RW - Are PR's an acceptable way to suggest changes directly? SC- Yes)
3. Issues for discussion - <https://github.com/orgs/w3c/projects/86/views/1>
 - a. Inverse properties / property tabulation
<https://github.com/w3c/sdw-sosa-ssn/issues/218>
(**SC** - Consensus was there was going to be inverses for everything. For extended relationships, not all chains of relationships are enumerated, The new inverse properties are also enumerated in the documentation. A new table also

relates the OMS concepts to SOSA. **KS** - OMS considers taking its lead from SOSA. **SG** - Need to mention which versions of OMS that we are referencing. **KJ** is boiling in hot water like a frog. Inverses are not creating any issue. Major complaint is that we are adding things without adding formal semantics. SC - Requests for reviews on 228)

- b. System Capabilities - separate document?

<https://github.com/w3c/sdw-sosa-ssn/issues/230>

(**SC** - Some effort at getting the system capability module up to speed. Originally marked as informative with no progress. **RW**- We need a minimum number of properties to be in SOSA. **SC**- I have concerns with SystemKind for data sheets. [RW drafts himself](#) to separate the importance of Figure 18. **KJ** - This is current in ssn-system, should it be in Sosa and what is the consequence to the rest of the ontology. **SG / KJ** (Paraphrasing) - How do we handle properties that apply to all instances? The problem lies in the differences between how the UML / OWL handle this. **RW**- *Roundabout discussion about UML / OWL and note taker looses track of the conversation.* **SC** - Having a sensitivity / resolution in a sensor ontology is expected. **SG** - Projects need a sensor context; we need to prevent the reinvention of the wheel. **RA** - Applies to sensor quality and needs an approach that is extensible. **SC**- maybe we need to define what a sensor is.)

- c. Specialised procedures etc <https://github.com/w3c/sdw-sosa-ssn/issues/225>

2024-06-05T11:00:00Z

Attendees

- Alejandro Villar
- Alex Robin
- Bert Bos
- Hylke van der Schaaf
- Kathi Schleidt
- Krzysztof Janowicz - apology
- Luís de Sousa
- Maxime Lefrancois
- Rob Atkinson - apology
- Rob Warren
- Simon Cox
- Sylvain Grellet
- Your name here*

Agenda & notes

1. **Note taker - RHW**
2. Project management

[The list of steps and requirements](#)

- a. More Milestones? - <https://github.com/w3c/sdw-sosa-ssn/milestones>
- b. Kanban <https://github.com/orgs/w3c/projects/86>

SC - Looking at the steps that are required of us to go for Candidate Releases.

KS - Our project is being managed like the OMS project; which may be too fine grained. Solutions were voted on informally. Engagement is being driven by pull requests. **SC** - Our current process is informal and consensus based. **KS** - I

struggle between PRs and Issues. Kanban should also follow this. **RW** - Should we go forward with PRs instead of Issues -> PR. **SC** - That's been my way. **RW** -

What is the process we should follow? **LS** - This process is pretty standard in software development. PR should close the issues. I am comfortable with this but our process for discussing which issue should be worked on is opaque. **SC** - The process we are following is common but we're not doing software. Continuous integrations may needed according to Rob Atkinson. A lot of the comments in the PR should really be in the issues. Perhaps we have too much focus on PR. **KS** - it may make sense to create PR to change the TTL. **SC** - can be done in another branch without PR, encouraging the use of issues. We need to consolidate similar issues. **LS** - The discussion about the PR should only be about the PR.

SC - Originally the scope was on alignment and outstanding issues and there is more work to be done.

3. Pull requests

- a. **Sampling Collection** - <https://github.com/w3c/sdw-sosa-ssn/pull/227> responding to <https://github.com/w3c/sdw-sosa-ssn/issues/189> - we now have a request for this with implementation evidence offered

Preview [Semantic Sensor Network Ontology \(githack.com\)](#) & [Semantic Sensor Network Ontology \(githack.com\)](#)

[bert@w3.org](#) to assist clear IPR issue with <https://github.com/ashleysommer> (*Ashley's project has explicit need for this sample collection. Ashley needs to sign an agreement to submit PR.*)

SC - Stalled until agreement signed. **KS** - This makes sense intuitively. **SG** - There is a use case for sampling acts and sub sampling. What about associating the sampling itself and campaign? **SC** - Ashley needs it for a large biodiversity project. **KS** - Collections cover all required meta-information, so looks good! Would be good to have concrete real world use cases (the ones we have are a bit abstract). **SC** - **Maybe we should invite Ashley to present to the meeting (also Alex?)**. We may want to review that all of the subcases are covered. **LS** - People would understand the semantics. Need to explain the difference between sampling and sample. **SC** - Sample is the thing while sampling is the act of sampling. **LS/SG** one sampling can create multiple samples. **KS** - OMS has no cardinality restriction since the use case breaks them. [*RW - lost track of conversation about soil sampling. sorry*]. **SC** - Plenty of support for this, need the agreement done and presentation by Ashley. Also, **RW** sandbags **LS** with more work on soil sampling.

4. For discussion

- a. **Inverse properties** <https://github.com/w3c/sdw-sosa-ssn/pull/228> responding to <https://github.com/w3c/sdw-sosa-ssn/issues/218>

Preview [Semantic Sensor Network Ontology \(githack.com\)](#) (converted to DRAFT as still in progress)

SC - Add a complete list of inverse properties in a table, draft not complete. Also did a consistent check of the ttl files. **KS** - This points to a few things that never got fixed in OMS and she needs to review this. **SC** - Still working on improving table readability. [*KS/SC/SG - Discussion about Sosa / OMS / SSN duplicate terms that I'm not clear on* Clarification: OMS took the easy way out, used `relatedObservation` as the inverse for all the associations from `Observation` (e.g. `madeBySensor`). In SOSA we have dedicated inverse associations, so may not even need `relatedObservation` in SOSA]. **SC** - **We should revisit `relatedObservation` and see if it is really needed / the best way or just a clumsy artefact of OMS alignment which was already handled with more specific predicates.**

- b. [warren@glengarryag.com](#) **long-standing example:**

Suggest to remodel following DHT22 example updated by [Simon Cox](#) <https://github.com/w3c/sdw-sosa-ssn/pull/196#issuecomment-2146927362>

Then also consider

SG - still has some diagram work to be done. **SC** - There was no subClassing in the original examples.

(Meeting ends - Other issues punted to the next meeting)

- c. **SystemKind** (datasheets) - does this belong in the **System Capabilities** module, instead of SOSA core? <https://github.com/w3c/sdw-sosa-ssn/issues/107>
<https://github.com/w3c/sdw-sosa-ssn/pull/209>
Alternative PR <https://github.com/w3c/sdw-sosa-ssn/pull/229> preview [Semantic Sensor Network Ontology \(githack.com\)](#)
- d. **madeBySystem/madeExecution**: <https://github.com/w3c/sdw-sosa-ssn/pull/226>
- Diagram explaining the proposal for consistency
<https://github.com/w3c/sdw-sosa-ssn/issues/225#issuecomment-2121799769>
(**SC** - please review for consistency.)
- e. Higher level **Activities** (Projects, Campaigns, Initiatives) -
<https://github.com/w3c/sdw-sosa-ssn/issues/224#issuecomment-2116546630>
(**SC** - please review for consistency)

2024-05-29T11:00:00Z

Attendees

- Alejandro Villar
- Alex Robin
- Bert Bos
- Hylke van der Schaaf
- Kathi Schleidt
- Krzysztof Janowicz
- Luís de Sousa
- Maxime Lefrancois
- Rob Atkinson
- Rob Warren
- Simon Cox
- Sylvain Grellet
- Your name here*

Agenda & notes

1. **Note taker** - RHW
2. Meeting at TPAC?
 - a. bert@w3.org to report - Looking for feedback on meeting time, tentatively on Thursday / Friday afternoon.
3. Project management

(Bert to report on the process / events that lead to request for comments and then candidate status before official publication.) [The list of steps and requirements](#)

 - a. Four Milestones - <https://github.com/w3c/sdw-sosa-ssn/milestones>
 - i. Kanban <https://github.com/orgs/w3c/projects/86>
 - ii. Sylvain (late comment, sorry) : we are missing intermediary milestones (ex : I guess we'll have to deliver a 1st Public Release for Comment of the new spec. Maybe the same for the charter. No ?)
 - b. "No milestone" issues - Simon Cox suggests many of these could be closed <https://github.com/w3c/sdw-sosa-ssn/issues?q=is%3Aissue+is%3Aopen+no%3Amilestone>

(New issue tag "Ready for closing", please review these tickets before they are closed.)
4. Pull requests
 - a. **Procedure** → **Property** links: <https://github.com/w3c/sdw-sosa-ssn/pull/213>
1 more review required *(Simon to approve for merging)*

- b. **Sampling Collection** - <https://github.com/w3c/sdw-sosa-ssn/pull/227> responding to <https://github.com/w3c/sdw-sosa-ssn/issues/189> - we now have a request for this with implementation evidence offered
[Preview Semantic Sensor Network Ontology \(githack.com\) & Semantic Sensor Network Ontology \(githack.com\)](#)
 bert@w3.org to assist clear IPR issue with <https://github.com/ashleysommer>
(Ashley's project has explicit need for this sample collection. Ashley needs to sign an agreement to submit PR.)
5. For discussion
- a. **Inverse properties** <https://github.com/w3c/sdw-sosa-ssn/pull/228> responding to <https://github.com/w3c/sdw-sosa-ssn/issues/218>
[Preview Semantic Sensor Network Ontology \(githack.com\)](#)
 (Discussion of size of ontology versus utility. We can possibly follow the lead on PROV and only have a limited number of inverse properties. **RW** thinks that reverse properties are needed even if not fully listed in the documents. **RA** Agrees. **AV** prefers a table rather than regular term documentation. **KJ** lightweight table is preferable. **KS** would like diagrams to have all inverse properties. **AV** suggests having complex diagrams with and without inverse properties for diagrams. **SC** should all terms be listed in all documents and diagrams? **SG** Asks how this will affect UML representation and it will make everything bidirectional. **AV** is a maverick and sensor ontology god. Asks that all inverse properties be moved to a table to be consistent in the documentation. He is happy. **RA** has been driven to drink because humans are poor at generating documentation and can't be fixed. **SC** please jump on the github and fix inconsistencies. **KJ** figures are not normative and do not need to be complete and thus are not an issue. **SC** Kathi gets the story first from the picture.)
- b. **SystemKind** (datasheets) - does this belong in the **System Capabilities** module, instead of SOSA core? <https://github.com/w3c/sdw-sosa-ssn/issues/107>
<https://github.com/w3c/sdw-sosa-ssn/pull/209>
 Alternative PR <https://github.com/w3c/sdw-sosa-ssn/pull/229> [preview Semantic Sensor Network Ontology \(githack.com\)](#)
*(**SC** Keep systemKind and datasheets out of ontologies. Alex's proposal had a number of classes like actuator kind that need to be moved into the PR also. **RA** there are multiple requirements here, connected systems will need a json-ld linkage and other issues. [RW: I missed a few things from RA's comments.] **SC** Sosa is about the execution and anything else should go into the module. **RW** has a minor rant about documentation. **SC** acknowledges the complexity of managing the document over time and balancing abstraction and implementation. [RA has some concerns over the move to ssn-capability]. **LS** Procedures must be reviewed. The difference between SystemKind and PlatformKind is hard to tell and needs better documentation. Is this a datasheet or a description of a specialized system. **RA** Has a concern over datasheets and the nature of specialized systems and where the line is drawn for datasheet which may be overspecialized.)*

- c. **madeBySystem/madeExecution**: <https://github.com/w3c/sdw-sosa-ssn/pull/226>
 - Diagram explaining the proposal for consistency
 - <https://github.com/w3c/sdw-sosa-ssn/issues/225#issuecomment-2121799769>
 - (**SC** - please review for consistency.)
 - d. Higher level **Activities** (Projects, Campaigns, Initiatives) -
<https://github.com/w3c/sdw-sosa-ssn/issues/224#issuecomment-2116546630>
(**SC** - please review for consistency)
6. warren@glengarryag.com **long-standing example**:
- a. New comment from Simon Cox
<https://github.com/w3c/sdw-sosa-ssn/pull/196#issuecomment-2136595027>
Does the InkBird example use the System Capabilities module properly?
(**RW** Please punt to next meeting)

2024-05-22T11:00:00Z

Attendees

- Simon Cox
- Luís de Sousa
- Rob Warren
- Krzysztof Janowicz
- Kathi Schleidt
- Alejandro Villar
- Bert Bos
- Rob Atkinson
- Sylvain Grellet

Apologies

(regular attendees - drag your name into the Attendees list when you sign in)

- Hylke van der Schaaf
- Maxime Lefrancois
- Alex Robin

Agenda & notes

1. **Note taker** - Rob Atkinson
2. Meeting at TPAC? Do we need a meeting room at TPAC (23–27 September in Anaheim, California) and do we want joint meetings with other groups? Note that TPAC this year includes the celebration of W3C's 30th anniversary on Wednesday 25 September. The questionnaire from the TPAC organizers closes today:
<https://www.w3.org/2002/09/wbs/1/TPAC2024/>
 - a. Is there anyone expecting to go? - not currently, RobW maybe could
 - b. If we need a few more days can arrange
 - c. Luis: can we slot this meeting in there - and what to gain
 - d. Jano: a F2F would be beneficial
 - e. Rob: interest in GeoDCAT/SOSA profiles and JSON-LD issues (e.g. handling GeoSPARQL GeoJSON mappings) - but will be in Malaysia 24-26 Sept.
 - f. WoT, JSON-LD, Devices & Sensors expecting to be there.
 - g. Bert: with one person can put something on the agenda.
 - h. Proposal - Bert to arrange a virtual meeting time - and we'll reach out to see if any other groups wish to liaise.
3. Project management
 - a. Four Milestones - <https://github.com/w3c/sdw-sosa-ssn/milestones>
 - i. Luis has created projects for Kanban as per OMS process
<https://github.com/orgs/w3c/projects/86>

- ii. Sylvain (late comment, sorry) : we are missing intermediary milestones (ex : I guess we'll have to deliver a 1st Public Release for Comment of the new spec. Maybe the same for the charter. No ?)
 - b. "No milestone" issues - Simon Cox suggests many of these could be closed <https://github.com/w3c/sdw-sosa-ssn/issues?q=is%3Aissue+is%3Aopen+no%3Amilestone>
 - i. <https://github.com/w3c/sdw-sosa-ssn/issues/20> has been superceded by Connected Systems.
 - c. Charter progress - Rob & Luis?
 - i. Luis to look at in June
4. warren@glengarryag.com **long-standing example**:
- How do we link product data sheets to the underlying platform or sensor?
 warren@glengarryag.com used sosa:Procedure while @luis suggests SamplingProcedure. Context in [PR #196 discussion](#)
- a. The doubt here is whether sosa:Procedure should be perceived as an abstract class.
 - b. 'Procedure' is being used here for a 'datasheet', not a plan/protocol/workflow
 - c. Jano: same sensor can be used for different procedures - to procedure is a recipe to repeat, not the type of sensor. 'Specsheet' was managed in old SSN but not SOSA. Really need **one** method to encode information to get interoperability.
 - d. RobA: need to identify the correct predicate and not rely on overly general predicates like seeAlso - but the amount of description to reproduce procedure will be beyond potential scope of SOSA - would observable properties modelling extension be the place to model?
 - e. Sylvain: work through an example in detail and identify which parts are procedure, etc. since we may not have the same mental model yet.
 - f. Simon: what predicate and encoding content of datasheet.
 - g. SystemKinds have model numbers, Systems have identifiers
 - h. Seems to be two issues here
 - i. What predicate to use to link to (for example) a PDF datasheet, or to a encoded datasheet
 - ii. What class to use for datasheets
 - i. Related to proposal for `**SystemKind**`
<https://github.com/w3c/sdw-sosa-ssn/issues/107>
<https://github.com/w3c/sdw-sosa-ssn/pull/209>
 (- maybe add to **System Capabilities** module?)
5. Pull requests
- a. **Procedure** → **Property** links: <https://github.com/w3c/sdw-sosa-ssn/pull/213>
1 more review required
 - SAREF-SOSA alignment**: <https://github.com/w3c/sdw-sosa-ssn/pull/206>
Rob Atkinson to confirm that his concern is now fixed?
 - b. **Sampling Collection** - <https://github.com/w3c/sdw-sosa-ssn/pull/227> responding to <https://github.com/w3c/sdw-sosa-ssn/issues/189> - we now have a request for

this with implementation evidence offered
Preview [Semantic Sensor Network Ontology \(github.com\)](https://github.com/w3c/sdw-sosa-ssn) & [Semantic Sensor Network Ontology \(github.com\)](https://github.com/w3c/sdw-sosa-ssn)

bert@w3.org to assist clear IPR issue with <https://github.com/ashleysommer>

6. For discussion
 - a. **Inverse properties** <https://github.com/w3c/sdw-sosa-ssn/pull/228> responding to <https://github.com/w3c/sdw-sosa-ssn/issues/218>
Preview [Semantic Sensor Network Ontology \(github.com\)](https://github.com/w3c/sdw-sosa-ssn)
 - b. **SystemKind** (datasheets) - does this belong in the **System Capabilities** module, instead of SOSA core? <https://github.com/w3c/sdw-sosa-ssn/issues/107>
<https://github.com/w3c/sdw-sosa-ssn/pull/209>
 - c. **madeBySystem/madeExecution**: <https://github.com/w3c/sdw-sosa-ssn/pull/226>
- Diagram explaining the proposal for consistency
<https://github.com/w3c/sdw-sosa-ssn/issues/225#issuecomment-2121799769>
 - d. Higher level **Activities** (Projects, Campaigns, Initiatives) -
<https://github.com/w3c/sdw-sosa-ssn/issues/224#issuecomment-2116546630>

Zoom chatlog (lightly edited)

21:37:46 From KJanowicz to Everyone:

The procedure is a plan or workflow (at least in SOSA)

21:45:11 From KJanowicz to Everyone:

5.4.2 rdfs:isDefinedBy

21:45:24 From KJanowicz to Everyone:

Or 5.4.1 rdfs:seeAlso

21:45:58 From KJanowicz to Everyone:

We can also mint a new relationship such as "isSpecifiedBy"

21:48:37 From KJanowicz to Everyone:

Sylvain, we have 20 billion triples that all use one way of using SOSA, but in theory (even in our SOSA W3C/OGC specs) we allow multiple ways. For any real federated query system or RAG this is a nightmare.

21:49:39 From Kathi Schleidt to Everyone:

To my view, where the Sensor is actually measuring is in the deployment, not part of the procedure

21:49:55 From Rob Warren to Everyone:

If a procedure is an activity, then perhaps it can be a prov:Activity prov:wasInformedBy DataSheet?

21:50:15 From KJanowicz to Everyone:

See <https://www.w3.org/TR/vocab-ssn/#SOSAProcedure> The example and note are actually pretty good.

21:52:48 From KJanowicz to Everyone:

We have it in SSN. We may want to add a "isSpecifiedBy" property to link to a spec sheet.

21:53:33 From KJanowicz to Everyone:

I am here, I am just waiting my turn. Speaking too much already as is.

21:56:08 From Luís de Sousa to Everyone:

@KJanowicz Can you please add your comment to the RobW's PR?

21:58:14 From Sylvain Grellet (BRGM) to Everyone:

I agree on the risk to progressively extend SSN/SOSA scope VS landing it properly.

OTOH : some of these extension might help clarifying clear usage SSN/SOSA => especially DataSheet topic.

Sometimes modelling (quickly) what your topic is not, helps defining what it is (whithin scope)

22:01:41 From KJanowicz to Everyone:

Sylvain, fully agree. My main arguments are like this (1) SOSA was supposed to be the minimal intro core, everybody else was supposed to be a module; now adding 2x classes for Kinds etc seems the opposite, (2) there should be one way to do something, e.g., temperature as observable property is a singleton, (3) classes have one meaning, if they have more, we split them. We can have procedures and data sheets and whatever we want but we should not overload class semantics. Then again, these are just my suggestions, feel free to disagree.

22:01:46 From KJanowicz to Everyone:

No hard feelings.

22:04:42 From Sylvain Grellet (BRGM) to Everyone:

I'll set up a google presentation so that everyone can contribute

2024-05-15T11:00:00Z

Attendees

- Simon Cox
- Rob Warren
- Alejandro Villar
- Bert Bos
- Kathi Schleidt
- Rob Atkinson
- Luís de Sousa
- Sylvain Grellet

Apologies

(regular attendees - drag your name into the Attendees list when you sign in)

- Hylke van der Schaaf
- Maxime Lefrancois
- Krzysztof Janowicz
- Alex Robin
-

Agenda & notes

1. **Note-taker - RobW**
2. New Charter, merged
 - a. current preview: <https://w3c.github.io/charter-drafts/2024/sdw-wg.html>
(source <https://github.com/w3c/charter-drafts/tree/gh-pages/2024>)
 - b. @Luis and ratkinson@ogc.org to work on details.
3. Milestones, priorities, plans, triage ...

LS: **task** will setup and demonstrate milestones, kanban board etc
A milestone for version 2.0 has been added. (29 issues)
Kanban is created by the labels in the issue list.
KathiS asks about the usage of projects in github to enforce review process as was done with OMS.
LS, RobA are to work on a formal process using github project.
SC talks about his unbounded love for the W3 IRC debates.
SG - review process is hard using TTL+HTML compared with graphical view (e.g.

UML)

- RA - Suggests using more smaller projects to help move forward, e.g.
Implementation report
KathiS we need more process in adding things because we push too fast.
SG OMS had a project derived acceptance label.

SC Current approach is to tag PR with the tickets that created them.
KathiS Current process was there to attempt to keep with deadlines.
Luis is volunteered to create project kanban for SOSA

4. `forProperty` & `hasProcedure` links <https://github.com/w3c/sdw-sosa-ssn/pull/213>
(preview <https://raw.githack.com/w3c/sdw-sosa-ssn/47-add-association-between-observingprocedure-and-observableproperty/ssn/index.html>)
 - a. Addressing <https://github.com/w3c/sdw-sosa-ssn/issues/47>
(and <https://github.com/w3c/sdw-sosa-ssn/issues/42>)
 - b. But need to resolve debate on additions to ontology vs. using OWL subclasses in data
<https://github.com/w3c/sdw-sosa-ssn/issues/47#issuecomment-2104176838> vs
<https://github.com/w3c/sdw-sosa-ssn/issues/47#issuecomment-2106856614>

SG Move from #42 to #47.

LDS Proposal does affect current work but will affect new work. Comments needed from

Raul

SC New predicates are created using owl restrictions at the cost of large ontology.

RobA Cost of adding to ontology in order to ensure relationships are negligible, Should hasProcedure be qualified or not.

SC This might be related to whom is creating the data about declaring the correct procedure.

Kathi: Solution is unlikely to create additional problems.

Luis: We should create some documented guidance to use this.

SC: Is this something that should really be in SOSA as it may not be executions.
(Discussion of core SOSA vs SSN extension)

Kathi: If the link from ObsProc to ObsProp is too much, same could be said of the links from Sensor to ObsProp and ObsProc

RobA We need extension models for describing external properties.

7. Rob Atkinson and warren@glengarryag.com to coordinate a meetup in Montreal in association with OGC Member Meeting [129th OGC Member Meeting - Montreal - Open Geospatial Consortium](#)

2024-05-08T11:00:00Z

Attendees

- Simon Cox, Krzysztof Janowicz, Rob Atkinson, Louis de Sousa, Kathi Schleidt, Rob Warren

Apologies

(regular attendees - drag your name into the Attendees list when you sign in)

- Bert Bos
- Hylke van der Schaaf
- Maxime Lefrancois
- Sylvain Grellet
- Alex Robin
- Alejandro Villar

Agenda & notes

1. Note-taker - Jano

2. New Charter, current preview:

<https://raw.githack.com/dr-shorthair/w3c-charter-drafts/gh-pages/2024/sdw-wg.html>

a. Breath of the Charter modified per last week's suggestions

b. Details to be completed by co-chairs

SC: Chairs will be Louis and Rob A.

SC: Committed only to work on SSN/SOSA and the rest is only potentially in scope

SC: We also added more OGC groups as the groups we plan to involve

SC: Task for Louis and Rob A. would be to fill in the blanks

*SC: **bert@w3.org should merge on w3c github** and then we can fork from there*

RA: we need to establish a process by which OGC groups can bring their ideas/concerns to use. Do we need to outline this in the charter?

*RA+SC: are we deciding to have a **quorum (commitment of resources)**?*

Seems reasonable

RA: while we can be very informal, we need some way to decide whether something is "in scope"

LS: keep it informal

KS: how do we avoid rabbit-holes?

KS: need a way to stay on track and keep the big picture in mind, not overfocus on edge-cases

*RA: what we need is a way to set up **subgroups** if we need them (or at least communicate on a mailinglist, etc what we take on or what we drop)*

LS: are we all in line with section 2 of the scope statement. Does it match the discussion from last week?

RA confirms this is the case

3. Open PRs - <https://github.com/w3c/sdw-sosa-ssn/pulls>

a. `forProperty` and `hasProcedure`

to support links between `Property` registers and `Procedure` registers

SC: link from ObservingProcedure to ObservableProperty

LS: argues this can add inconsistencies

SC: we need a link if there is substantial need for it in some context

KJ: But then you need an observation and if you don't have one, you cannot have a link between a procedure and the observation properties it was made for; also you make reasoning more complex (and querying)

RA: can go both ways, needs to look how this looks in practice

KS: this makes semantics depend on individual examples which may also be wrong

KS: the explicit link is also a documentation, making it more likely people select the proper procedures, etc.

SC: Agree; majority seems to align with the proposal

SC: we need to reach out to s.grellet@brgm.fr and LS and Sylvain have to align views and provide a worked example; last option is a formal vote

RA: we need worked examples

KJ: we also need to make sure TBox statements do not fully depend on the existence of ABox statements.

<https://github.com/w3c/sdw-sosa-ssn/pull/213>

- b. ``madeBySystem`` and ``madeExecution`` super-properties to homogenize with ``usedProcedure`` and ``sosa:Execution``
 - alex.robin@georobotix.com does this help with Connected System alignments?

SC: do we need to enforce consistent names

SC: we need to clean up but also make sure SOSA stays a small core

KJ: But when would one ever populate the `madeExecution` property?

RA: evidence of implementation; also too many ways of stating the same thing

SC: similarly who would use the `sosa:Execution` class?

SC: this pull request is up for discussion

SC: maybe better have more generic predicates or if we have special cases, have them used consistently

<https://github.com/w3c/sdw-sosa-ssn/pull/226>

- c. SAREF-SOSA alignment [Rob Atkinson](#) to confirm

<https://github.com/w3c/sdw-sosa-ssn/pull/206>

RA: (task) will check and report back

- d. SystemKind (datasheets) - changes requested alex.robin@georobotix.com
krzysztof.janowicz@univie.ac.at concerned about explosion of SOSA terms - should some of these be in an extension module?

KJ: *Kind is an anti-pattern - it is a class!

SC: also depends on whether you are using an inferential or constraint semantics

KJ: Datasheets - out of scope for SOSA core - move into an extension module?

<https://github.com/w3c/sdw-sosa-ssn/pull/209>

- e. Beer temperature example - changes requested warren@glengarryag.com

<https://github.com/w3c/sdw-sosa-ssn/pull/196>

RW: working on it

- f. SamplingCollection (thanks ashley.sommer@csiro.au
<https://github.com/w3c/sdw-sosa-ssn/pull/227>
SC: we have SampleCollections but not SamplingCollection
SC: We also have evidence of implementation
- 4. Priorities, plans, triage ...
 - a. LS: Create milestone
SC: we can but we are still at the stage of uncovering issues
SC: Currently we do it issue by issue
LS: more of a Kanban style
KS: github projects to better track relevant issues (can show a demo, used for [OMS](#))
SC: traveling and need somebody to set up (e.g., milestones)
LS: **task** will setup milestones etc
SC: could go **on top of the agenda for next time**
- 5. Open issues <https://github.com/w3c/sdw-sosa-ssn/issues>
 - a. Campaign / Project s.grellet@brgm.fr
<https://github.com/w3c/sdw-sosa-ssn/issues/224>
 - b. Inverse properties krzysztof.janowicz@univie.ac.at
<https://github.com/w3c/sdw-sosa-ssn/issues/218>
 - c. PropertyOfInterest - domains and ranges maxime.lefrancois@emse.fr to
prepare PR
<https://github.com/w3c/sdw-sosa-ssn/issues/212>
 - d. *Kind classes - domains and ranges maxime.lefrancois@emse.fr to prepare PR
<https://github.com/w3c/sdw-sosa-ssn/issues/211>

Action: in the coming meetings create a milestone gathering the issues indispensable for a full specification draft.

2024-05-01T11:00:00Z

Attendees

- Luís de Sousa
- Rob Atkinson
- Kathi Schleidt
- Rob Warren

Apologies

(regular attendees - drag your name into the Attendees list when you sign in)

- Simon Cox
- Bert Bos
- Hylke van der Schaaf
- Maxime Lefrancois
- Sylvain Grellet
- Krzysztof Janowicz
- Alex Robin
- Alejandro Villar

Agenda & notes

6. New Charter, current preview:

<https://raw.github.com/dr-shorthair/w3c-charter-drafts/gh-pages/2024/sdw-wg.html>

- Breath of the Charts: wider or narrower? Concrete or indefinite?
 - Action: add maintenance of a specifications registry for geo-data to Scope.
 - Action: stress that joint work with the OGC may concern any DWG/SWG.
 - Action: modify third item in Scope from “Maintain” to “Develop and maintain”, keeping the important stopgap “as resources and interest permit”.
- Momentum: who can drive the group? Linda’s comment:
<https://github.com/w3c/sdw-sosa-ssn/issues/223#issuecomment-2078785090>
 - Both Rob A and Luís see the momentum for the group to prevail. Kathi echoes some of Linda’s concerns. Careful not to over-extend.
- Relation with the OGC
 - Do not restrict to a particular DWG or SWG.

7. Open PRs

8. Open issues

- Action: in the coming meetings create a milestone gathering the issues indispensable for a full specification draft.

2024-04-24T11:00:00Z

Attendees

- Simon Cox
- Kathi Schleidt
- Bert Bos
- Hylke van der Schaaf
- Maxime Lefrancois
- Rob Warren
- Rob Atkinson
- Luís de Sousa

Apologies

(regular attendees - drag your name into the Attendees list when you sign in)

- Sylvain Grellet
- Krzysztof Janowicz (- ill today)
- Alex Robin
- Alejandro Villar

Agenda & notes

1. Note taker - RobA
2. Charter and scope.

Preview at: <https://w3c.github.io/charter-drafts/2024/sdw-wg.html>

Discussion: <https://github.com/w3c/sdw-sosa-ssn/issues/223>

How to make a PR? Fork and create a PR.

<https://github.com/w3c/charter-drafts/blob/gh-pages/2024/sdw-wg.html>

Non-trivial PR to be brought to group.

Should re-charter be for SSN-only, or SDW?

Alongside SSN, what topics (i) need work (ii) have volunteers prepared to put in the time

- a. GeoDCAT (*RobA, Simon*) - [GeoDCAT SWG](#)
- b. GeoSPARQL - *Nick Car, Timo Homburg* - maybe make a member-submission of GeoSPARQL to W3C to increase visibility
- c. Registers (lists of things)

- i. *RobA* - general patterns for how registers work on the web (Patterns for linking registers (DQ, observables etc) to data models)
 - ii. *Jano* - Hazards
 - iii. *Kathi/Sylvain* - Observable Properties
 - iv. ...
- d. CRS ontology (*Luis*) - <https://github.com/opengeospatial/ontology-crs/blob/master/discussion-paper.md>
 - i. *Luis de Sousa* will be working with *Timo Homburg* re setting up a OGC SWG
- e. GeoPROV? (*RobA*)
- f. DataQuality - links to several OGC/ISO activities? (19157, TSML)

Should these be called out in the charter?

Or should the charter just have a generic provision that we can use for these if we have the resources to work on them?

Kathi: What SWG? GeoDCAT for OMS fits under GeoDCAT and OMS, CRS is different

RobA: maintain a register of OGC activities and SWGs working on activities related to W3C standards?

Simon: We need to clarify the rules on the OGC side

Need to clarify with Scott Simmons on what OGC requirements for a joint activity are - single vs multiple SWGs/DWGs etc

RobA - connection with SWG can be on *per-deliverable* basis

OGC SWGs to propose joint development on specific deliverables as needed - i.e. need a generic provision in the scope to allow for these

SOSA group will act as a de facto plenary during charter proposal, presuming that a wider community consultation will be triggered.

Who can chair the new SDW-WG?

- Luis de Sousa
- RobA

(maybe let's approach Timo Homburg & Nick Car? Ivana Ivanova? To assist with charter ...)

Is there a W3C mechanism to co-publish or endorse GeoSPARQL - No - needs to come from a working group. Registries - "member submission" however - i.e. SDW to manage submissions to a register..

3. Issues

- a. System Capabilities <https://github.com/w3c/sdw-sosa-ssn/issues/220> - this section is based on very old work, and perhaps should be refactored into catalogs/registers? Should this module be moved out of the SSN Ontology Rec into a separate document? Please express some views. (RobW thinks it should

be in the SSN) - e.g. the IEC electropedia (the thesaurus of IEC) would be more authoritative for defining system properties . See for example Section 482-03 in

<https://www.electropedia.org/iev/iev.nsf/index?openform&part=482> --> IEV ref 482-03-14

<https://www.electropedia.org/iev/iev.nsf/display?openform&ievref=482-03-14>
Drift ->

<https://www.electropedia.org/iev/iev.nsf/display?openform&ievref=311-06-13>

- b. Campaign / Activity / Project <https://github.com/w3c/sdw-sosa-ssn/issues/224>
- c. Ontology consistency and completeness
 - i. Inverse properties <https://github.com/w3c/sdw-sosa-ssn/issues/218>
 - ii. *OfInterest & *Kind <https://github.com/w3c/sdw-sosa-ssn/issues/212>
<https://github.com/w3c/sdw-sosa-ssn/issues/211>
<https://github.com/w3c/sdw-sosa-ssn/pull/209>
krzysztof.janowicz@univie.ac.at & maxime.lefrancois@emse.fr
 - iii. Cardinalities - <https://github.com/w3c/sdw-sosa-ssn/issues/216> and <https://github.com/w3c/sdw-sosa-ssn/pull/206>
 - iv. used* vs madeBy* - <https://github.com/w3c/sdw-sosa-ssn/issues/225>

In fixing all these, there is a risk of blowing out the count of SOSA classes and properties - is this a problem?

- 4. RobW's review of examples
 - a. ssn: → sosa: namespace fixed #217
 - b.

2024-04-17T12:00:00Z

Attendees

- Luís de Sousa
- Bert Bos
- Sylvain Grellet (there was no one in the room)
- Kathi Schleidt (there was no one in the room too :))

Apologies

(regular attendees - drag your name into the Attendees list when you sign in)

- Rob Atkinson (sorry - I managed to confuse this with another meeting at the same time - my calendar didnt get updated. :-())
- Maxime Lefrancois
- Rob Warren (missed this one in my calendar, curses)
- Krzysztof Janowicz
- Alex Robin
- Simon Cox
- Rob Warren
- Krzysztof Janowicz
- Kathi Schleidt
- Hylke van der Schaaf
- Alejandro Villar

Agenda & notes

2. New charter close to complete after work by Bert. Preview at:
<https://w3c.github.io/charter-drafts/2024/sdw-wg.html>
 - a. Bert to assign issues on elements left to complete (W3C charter repository).
 - b. Chairs (and co-chairs) to be discussed during next meeting.

2024-04-10T12:00:00Z

Attendees

- Luís de Sousa
- Rob Atkinson
- Maxime Lefrancois
- Rob Warren
- Bert Bos
- Sylvain Grellet

Apologies

(regular attendees - drag your name into the Attendees list when you sign in)

- Krzysztof Janowicz
- Alex Robin
- Simon Cox
- Rob Warren
- Krzysztof Janowicz
- Kathi Schleidt
- Hylke van der Schaaf
- Alejandro Villar

Agenda & notes

1. Meeting times
 - a. Request to canvas additional timeslots +1 hour - Rob to talk to Simon on monday and try to reissue. Issue is clashing with OGC meetings.
2. SDW re-charter
 - a. <https://w3c.github.io/charter-drafts/2024/sdw-wg.html>
 - b. Luis: from Geosemantics - ontology for coordinate reference systems
 - i. Action : Luis to provide links to relevant material:
<https://github.com/opengeospatial/ontology-crs/blob/master/discussion-paper.md>
 - ii. Rob raised issue re canonical forms of register access
 1. Sylvain: needs to have an architectural vision on how registers / (controlled) vocabularies should be shared and accessed (also how they can be used for actual validation).
 2. Landing on generic W3C/OGC pattern that could be reused (ex : for CRS registries, but also ObsPro etc...)
3. Issues:

- a. <https://github.com/w3c/sdw-sosa-ssn/issues/220> - generalised to Definitions of sensor characteristics - e.g. "Sensitivity"
- b. Sylvain: clarification around "campaign/activity/?project?":
Need to add concepts around this in SOSA ?
 - i. We could build on top of INSPIRE:Environmental Monitoring Facility Monitoring Activity/Programme
 - ii. Also on OGC:STA+ part for this

4. Implementation plans to note

2024-04-04T20:00:00Z

Attendees

- Rob Atkinson
- Sylvain Grellet
- Krzysztof Janowicz
- Bert Bos

Apologies

(regular attendees - drag your name into the Attendees list when you sign in)

- Luís de Sousa
- Alex Robin
- Maxime Lefrancois
- Simon Cox
- Rob Warren
- Krzysztof Janowicz
- Kathi Schleidt
- Hylke van der Schaaf
- Alejandro Villar

Agenda & notes

5. Meeting times
6. SDW re-charter
 - a. <https://w3c.github.io/charter-drafts/2024/sdw-wg.html>
7. Implementation plans to note

Notes (KJ for SC)

- Finding a common timeslot is difficult (<https://app.rally.co/invite/B216JgavV3Dv>), proposal is to meet every second week; discussion whether this is a good idea.
- Worry that this may lead to us losing momentum
- **NEW TIME 1-2pm Wednesday Central European Summer Time = 11:00 UTC**
- SG and KJ can reschedule to make this work.
- Keep weekly meetings for now
- Re-charter started by Bert
 - Simon's work seems to be in that issue : <https://github.com/w3c/sdw-sosa-ssn/issues/223> => points to another content : <https://raw.githack.com/w3c/sdw-sosa-ssn/new-charter/charter/index.html>
 - Creating SOSA/SSN profiles
 - GeoDCAT (spatial profile of DCATv3)? [continuing from last week's discussion]
 - Hazard/disaster ontology (Jano, Sylvain) [continuing from last week's discussion]

- Goal is to re-charter SDW (a more general version compared to re-charter just for SSN/SOSA)
- Also as it relates to a more sensor *datasheet* view (SensorKind, etc); moving parts of the open-ended SOSA wishlist to DCAT instead of putting too much into SOSA/SSN
- Rob+Sylvain: GeoDCAT may want to co-publish with this group (observation-centric) SOSA-DCAT
- Discuss where and how Hazard Ontology could fit into SDW/OGC/W3C.
- <https://www.undrr.org/publication/extensible-data-schemas-multiple-hazards-exposure-and-vulnerability-data>
- Not clear whether GeoSemantics working group would help serve as home
- Simon, Rob, and Scott will have an internal discussion about processes first.
- More general briefing on hazard work when Rob is at 100% again.
- Sylvain: implementation interest in water quality via SOSA/OMS/SensorThing API (would also be a nice proof of implementation)
- Rob: JSON-LD version for SOSA
- No direct pathway from JSON to GeoSPARQL
- Rob: STA semantic mapping to SOSA plans...
<https://github.com/ogcincubator/iliad-apis-features>

2024-03-21T20:00:00Z

Attendees

- Rob Atkinson
- Simon Cox
- Rob Warren
- Sylvain Grellet
- Krzysztof Janowicz
- Kathi Schleidt
- Hylke van der Schaaf
- Bert Bos
- Alejandro Villar

Apologies

(regular attendees - drag your name into the Attendees list when you sign in)

- Luís de Sousa
- Alex Robin
- Maxime Lefrancois

Agenda & notes

8. Deadlines
 - a. SDW expires in 2 weeks!
 - b. Need to re-charter the group? -
 - i. Charter a tighter scope group - SSN Ontology only?
 - ii. New spatial topics? Best Practices work has gone away
 1. GeoDCAT (spatial profile of DCATv3)?
 2. Hazard/disaster ontology (Jano, Sylvain) ...
 - c. Discuss in OGC meeting next week ...
 - i. OGC take over ownership of current document?
 - ii. Need to use W3C namespace, adjust redirects, etc.
 - d. Unanimous consent to rechartering.
9. Upcoming period
 - a. OGC member meeting 25-28 March
 - b. No meeting next week
 - c. Simon on vacation 1-18 April
 - d. Rob Atkinson to chair -
krzysztof.janowicz@univie.ac.at will take notes
 - e. Meeting time? 20:00 UTC no good moving forward because of seasonal clock shifts
 - i. Poll here: <https://rally.co/invite/B216JgavV3Dv>
10. Merged PRs - Yay!
 - a. **Diagrams/document update** and consistency check
<https://github.com/w3c/sdw-sosa-ssn/pull/200>
 - b. **Github repo re-organised** to better match the document
<https://github.com/w3c/sdw-sosa-ssn/pull/207>
11. Outstanding PRs (some simple)
 - a. Retire ssn-system:qualityOfObservation
<https://github.com/w3c/sdw-sosa-ssn/pull/215> -
Addresses **Clarify relationship between sosa:resultQuality and ssn-system:qualityOfObservation**
<https://github.com/w3c/sdw-sosa-ssn/issues/138>
 - b. **Fix ns in examples** ssn: → sosa: <https://github.com/w3c/sdw-sosa-ssn/pull/217>
Unfinished business - addresses
<https://github.com/w3c/sdw-sosa-ssn/issues/214>
 - c. **Add 'forProperty' links from Procedure to Property**
<https://github.com/w3c/sdw-sosa-ssn/pull/213> -
Addresses **Add association between ObservingProcedure and ObservableProperty** <https://github.com/w3c/sdw-sosa-ssn/issues/47>
Need an **inverse of forProperty** to be used in ObservableProperty catalog (e.g.)
 - i. General principle - need Inverse roles to be provided consistently (if we have most then consider adding all ...) Needed in many implementations

(querying inverses only supported in some applications) -
<https://github.com/w3c/sdw-sosa-ssn/issues/218>

- d. Add **SystemKind** - <https://github.com/w3c/sdw-sosa-ssn/pull/209>
Addresses <https://github.com/w3c/sdw-sosa-ssn/issues/107>
 - e. **SAREF alignment** <https://github.com/w3c/sdw-sosa-ssn/pull/206> -
Addresses <https://github.com/w3c/sdw-sosa-ssn/issues/125>
12. Issues worth discussing
- a. Domains and ranges to PropertyOfInterest -
<https://github.com/w3c/sdw-sosa-ssn/issues/212>
 - b. Domains and ranges to *Kind classes -
<https://github.com/w3c/sdw-sosa-ssn/issues/211>
 - c. OWL Cardinality restrictions - should they be removed?
<https://github.com/w3c/sdw-sosa-ssn/issues/216> - e.g.
<https://github.com/w3c/sdw-sosa-ssn/pull/206#issuecomment-2010877514>
<https://github.com/w3c/sdw-sosa-ssn/pull/209#issuecomment-2007293991>
 - d.

2024-03-14T20:00:00Z

Attendees

- Rob Atkinson
- Simon Cox
- Krzysztof Janowicz
- Kathi Schleidt
- Sylvain Grellet
- Alejandro Villar
- Hylke van der Schaaf
- Rob Warren (Who notes that iCal isn't handling EDT very well this year)
- Luís de Sousa

Apologies

(regular attendees - drag your name into the Attendees list when you sign in)

-
- Bert Bos
- Alex Robin
- Maxime Lefrancois

Agenda & notes

1. Simon's availability
 - e. OGC member meeting 25-28 March
 - f. Vacation 1-18 April
 - g. Rob Atkinson can step in but **needs help typing** - anyone else??
Krzysztof Janowicz will take notes while Simon is not available
13. Completion plan
 - a. Outstanding issues
 - b. Which **alignments** need to stay in the document?
 - c. **Complete Examples** appendix
 - i. kathi@datacove.eu to start on this
 - d. Usage report
 - e. Repository structure and readmes
 - f. *Unit tests + SHACL - OGC post W3C spec*
 - g. Finalizing HTML - bert@w3.org what is our deadline for delivery of complete draft to W3C?
14. Work this last week:
Diagrams/document update and consistency check
<https://github.com/w3c/sdw-sosa-ssn/pull/200>

- a. Added notation section
 - <https://raw.githack.com/w3c/sdw-sosa-ssn/140-re-draw-figures/ssn/index.html#Notation>
 - i. **Add a couple of diagrams** for class, association, specialization - *done*
 - ii. “With options for JSON-LD” - *done*
 - iii. Shuffle order of modularization and headings - *done*
 - 1. SSN Modularization”, then remove SSN from first level sub-headings
 - iv. Inverse of usedProcedure, is UltimateFeatureOfInterestOf
 - v. Check samples relations
 - b. Re-drafted figures through SOSA sections
 - i. **Will also do System and Sampling-relation (maybe by meeting time) - done**
 - c. Checked domain/rangeIncludes and diagram are consistent - *done*
 - i. Execution and *Collection needed to be brought into line in a couple of places
 - d. Checked html and ttl skos:definitions are consistent - *done*
15. Other PRs
- a. Intro & Origins <https://github.com/w3c/sdw-sosa-ssn/pull/199>
 - i. Moved Origins to an appendix
<https://raw.githack.com/w3c/sdw-sosa-ssn/120-introduction-and-origins/ssn/index.html#origins>
 - ii. **Merged**
 - b. Platform/System <https://github.com/w3c/sdw-sosa-ssn/pull/203> this sneaked through in error - related to Platform/System
<https://github.com/w3c/sdw-sosa-ssn/issues/46> - **MERGED**
 - c. Common modeling questions <https://github.com/w3c/sdw-sosa-ssn/pull/201>
 - i. No work since last week
 - d. Alejandro Villar Fernandez 's complex sensor example
<https://github.com/w3c/sdw-sosa-ssn/pull/202> - merged (no impact on normative artefacts)
 - e. @rob Warren's beer example
<https://github.com/w3c/sdw-sosa-ssn/pull/196> - merged (no impact on normative artefacts)
16. Completion plan
- a. Outstanding issues
 - i. Repository structure and documentation -
<https://github.com/w3c/sdw-sosa-ssn/issues/205>
 - ii. **Complete Examples** appendix
<https://github.com/w3c/sdw-sosa-ssn/issues/204>
 - iii. SOSA-STA alignment - <https://github.com/w3c/sdw-sosa-ssn/issues/147> -
kathi@datacove.eu ?
 - iv. SAREF Alignment - <https://github.com/w3c/sdw-sosa-ssn/issues/125> -
maxime.lefrancois@emse.fr ?

- v. maxime.lefrancois@emse.fr issues
<https://github.com/w3c/sdw-sosa-ssn/issues/114>
<https://github.com/w3c/sdw-sosa-ssn/issues/111>
<https://github.com/w3c/sdw-sosa-ssn/issues/108>
<https://github.com/w3c/sdw-sosa-ssn/issues/107>
 If no progress, then defer to profiling activity
- vi. ObservableProperty models (I-ADOPT)? -
<https://github.com/w3c/sdw-sosa-ssn/issues/52>
kathi@datacove.eu - out of scope in SSN itself - necessary for networked deployment, follow up
- vii. SSSOM mappings - <https://github.com/w3c/sdw-sosa-ssn/issues/187> - **defer** , follow up later
- b. Which **alignments** need to stay in the document?
 - i. OMS - Yes
 - ii. PROV - Yes
 - iii. OBOE - No harm
 - iv. DUL - complex, legacy - **refer to previous edition?**
If no hurt then leave @jano
 - v. SSNX - legacy - refer to previous edition
- c. **Usage report**
 - i. **OneWater**
 - ii. **SAREF**
 - iii. **Ogcapi-sosa**
- d. Unit tests + SHACL - OGC post W3C spec

Roll Sample Relations into SOSA - simplifies document?

Remove reference to sub-sample from text - it should use sampling chain

Continue discussion in [Retire Sample Relations module · Issue #188 · w3c/sdw-sosa-ssn \(github.com\)](https://github.com/w3c/sdw-sosa-ssn/issues/188)

Zoom chat:

07:06:21 From Sylvain Grellet (BRGM) to Everyone:
 thus he can't shave :)

07:07:18 From Hylke van der Schaaf (IOSB) to Everyone:
 I'll also be on holiday for three weeks after the member meeting

07:12:20 From Rob Warren to Everyone:
 Agreed. Please let in document.

07:16:13 From KJanowicz to Everyone:
 Seems good to me.

07:17:59 From Alejandro Villar (OGC) to Everyone:
 Sorry, zoom just went away

07:21:13 From Alejandro Villar (OGC) to Everyone:

And/or a normative json Id frame

07:23:48 From Sylvain Grellet (BRGM) to Everyone:
section 2 is clearer in that version

07:27:27 From KJanowicz to Everyone:
+1 to removing the SSN labeling

07:28:39 From KJanowicz to Everyone:
I think the titles could be just Modules instead of SSN Modules etc

07:38:14 From Simon Cox to Everyone:
<https://github.com/w3c/sdw-sosa-ssn/issues/205>

07:39:07 From Sylvain Grellet (BRGM) to Everyone:
I'm on PR 199

07:39:37 From Simon Cox to Everyone:
<https://github.com/w3c/sdw-sosa-ssn/pull/199>

07:40:40 From KJanowicz to Everyone:
I have to admit I am lost in the many requests, branches, issues, etc. I will try to catch up but it is a lot.

07:41:14 From Kathi Schleidt to Everyone:
If the PRs were a bit smaller, would be easier to approve

07:43:12 From Kathi Schleidt to Everyone:
Stupid question - how do I get from the GitHub PR to the githack representation?

07:46:53 From Hylke van der Schaaf (IOSB) to Everyone:
In STA, for V2 we are planning generic Feature relations, not sample specific

07:47:19 From Hylke van der Schaaf (IOSB) to Everyone:

[https://raw.githubusercontent.com/opengeospatial/sensorthings/23-019_DataModel/figures/Data model-SensorThingsApi-V2-proposal-1-Relations.drawio.png](https://raw.githubusercontent.com/opengeospatial/sensorthings/23-019_DataModel/figures/Data%20model-SensorThingsApi-V2-proposal-1-Relations.drawio.png)

07:49:53 From Hylke van der Schaaf (IOSB) to Everyone:
Sub-Samples are modelled specifically:
[https://raw.githubusercontent.com/opengeospatial/sensorthings/23-019_DataModel/figures/Data model-SensorThingsApi-V2-proposal-1-Sampling.drawio.png](https://raw.githubusercontent.com/opengeospatial/sensorthings/23-019_DataModel/figures/Data%20model-SensorThingsApi-V2-proposal-1-Sampling.drawio.png)

07:51:54 From Simon Cox to Everyone:
Earlier we considered it here <https://github.com/w3c/sdw-sosa-ssn/issues/188>

07:52:42 From Sylvain Grellet (BRGM) to Everyone:
Reacted to "Earlier we considere..." with 👍

07:58:10 From Rob Atkinson to Everyone:
do have to run to another meeting - constrained by others tight timing..

08:01:47 From Sylvain Grellet (BRGM) to Everyone:
Please keep the OBOE alignment, we have discussions with Agronomy people (in France) who use OBOE while the other communities favour SOSA.
So that alignment really helps

2024-03-07T20:00:00Z

Attendees

- Hylke van der Schaaf
- Alejandro Villar
- Rob Atkinson
- Luís de Sousa
- Simon Cox

Apologies

(regular attendees - drag your name into the Attendees list when you sign in)

- Rob Warren
- Krzysztof Janowicz
- Bert Bos
- Sylvain Grellet
- Alex Robin
- Kathi Schleidt
- Maxime Lefrancois

Agenda & notes

1. MERGED - Conformance - <https://github.com/w3c/sdw-sosa-ssn/issues/182> -
 - a. possible additions:
 - i. An instance of a SOSA class must be present
 - ii. Should not have instances that replicate SOSA but don't use SOSA
 - b. Look for 'shall' and 'should', look for other 'mays', and either make MAY or 'can'
 - c. **Can we have another volunteer to comb the doc for normative opportunities ...?**
2. Introduction and Origins - <https://github.com/w3c/sdw-sosa-ssn/issues/120> - now combined
 - a. Preview
<https://raw.githack.com/w3c/sdw-sosa-ssn/120-introduction-and-origins/ssn/index.html#Introduction>
 - b. Move Origins narrative to an appendix
 - c. Single statement about alignment with OMS
3. Re-draw figures - <https://github.com/w3c/sdw-sosa-ssn/pull/200>
 - a. Preview
<https://raw.githack.com/w3c/sdw-sosa-ssn/140-re-draw-figures/ssn/index.html#overview-of-classes-and-properties>
 - b. Short section explain diagramming language
 - c. Show alongside OMS UML?

- d. Informative - not exhaustive on domains and ranges
 - e. Explain black and grey
 - f. Explain 'UML-ish'
 - g. Add colour ... not too much
 - h. Explain class contents ... object vs data properties
 - i. Nothing about cardinalities or obligations
4. Patterns - <https://github.com/w3c/sdw-sosa-ssn/pull/201>
- a. Preview
<https://raw.githack.com/w3c/sdw-sosa-ssn/197-common-modeling-questions/ssn/index.html#common-modeling-questions>
 - b. JSON-LD serialization is not normative - it is 'a JSON representation' of the Turtle
 - c. Add observedProperty to uom example
 - d. Need help with Location examples - get GeoJSON into it
5. Rob Warren's example

2024-02-29T20:00:00Z

Attendees

- Hylke van der Schaaf
- Alejandro Villar
- Rob Warren
- Krysztof Janowicz
- Bert Bos
- Rob Atkinson
- Simon Cox

Apologies

(regular attendees - drag your name into the Attendees list when you sign in)

- Sylvain Grellet
- Luís de Sousa
- Alex Robin
- Kathi Schleidt
- Maxime Lefrancois

Agenda & notes

Previous actions

1. Namespace de-referencing rules - <https://github.com/w3c/sdw-sosa-ssn/issues/195>
 - a. RobA has checked the rules - look OK, not clear about which top-level file does the correct imports
 - b. These references are in the document - <https://w3c.github.io/sdw-sosa-ssn/ssn/#distribution> - need to check that these get knitted together OK
2. SSN Patterns: <https://w3c.github.io/sdw-sosa-ssn/ssn/#common-modeling-questions>
 - a. Do we need to pull this out into a separate document or platform?
 - b. SSN is quite abstract so need some good guidance for common applications, so that they remain federatable
 - c. Details like UoM, Geometry
 - d. Do we need to specify SSN *profiles* to formalize a set of interoperable patterns (these can be done as a subsequent effort)
 - e. Proposed that OGC host 'SSN profiles' service
 - f. Add some verbiage to common-modelling-questions section to point to that
 - g. Need to simplify examples and provide stronger guidance about which pattern is recommended
3. Rob Warren's Extended example <https://github.com/w3c/sdw-sosa-ssn/pull/196>

- a. URIs should be resolvable - only create identifiers at the level at which you want to provide descriptions
- b. How explicit can we get using the SSN elements to tease out the details of the set up and procedure?

Meeting chat

07:04:38 From KJanowicz to Everyone:

Here he is :-)

07:10:50 From KJanowicz to Everyone:

Interest

07:14:54 From Alejandro Villar (OGC) to Everyone:

I'm trying to raise my hand, but I can't find the button :(

07:18:00 From KJanowicz to Everyone:

The button on the bottom when you click on reactions

07:19:24 From KJanowicz to Everyone:

Yes but then you have no way of assuring that the blank node will remain invariant

07:19:34 From Rob Atkinson to Everyone:

also blank nodes can be resolved with the same graph using the `_:` namespace

07:21:23 From Rob Atkinson to Everyone:

if we just attach geometry to the feature - then we can ignore how we get there...

07:21:36 From Alejandro Villar (OGC) to Everyone:

Se ha reaccionado a "The button on the ..." con 🙌

07:26:06 From KJanowicz to Everyone:

Simon, I guess the concern that I am pointing to is that if we allow for too many ways to represent the same underlying structural pattern, we make query federation essentially impossible.

07:30:27 From Simon Cox to Everyone:

@Jano - yes indeed - see

<https://w3c.github.io/sdw-sosa-ssn/ssn/#common-modeling-questions>

07:31:18 From KJanowicz to Everyone:

+1

07:32:16 From Simon Cox to Everyone:

We need a stronger document - perhaps separate from the SSN spec - explaining the recommended patterns.

07:34:53 From KJanowicz to Everyone:

I think discussing these examples such as the one provided by Rob is great and very important. Thanks a lot!

07:35:19 From Rob Atkinson to Everyone:

we discussed profiles

07:35:56 From Rob Atkinson to Everyone:

Profiles give a validatable implementation pattern with constraining alternatives

07:36:12 From Rob Atkinson to Everyone:

without...

07:37:48 From Hylke van der Schaaf (IOSB) to Everyone:

One could also say the box is the host that the sensor is deployed in, and the ultimateFeatureOfInterest is the beer.

07:38:04 From Simon Cox to Everyone:

Reacted to "One could also say t..." with 👍

07:39:20 From Hylke van der Schaaf (IOSB) to Everyone:

One could extend that by saying that (the inside of) the box is a proximateFeatureOfInterest, if it is important enough to make clear that the sensor does not directly measure the temperature of the beer.

07:40:11 From Simon Cox to Everyone:

"if it is important enough" is the key concern IMHO

07:40:45 From Hylke van der Schaaf (IOSB) to Everyone:

Exactly, and that has to be evaluated on a per-usecase basis

07:41:38 From Alejandro Villar (OGC) to Everyone:

This is the document I'm talking about:

<https://docs.google.com/document/d/1fzEKymhmAB4dVEEgJE3XXf4DTzPS60oj3wYzJQrZcrE/edit?usp=sharing>

I'll create a PR to showcase this, too

07:46:35 From Rob Atkinson to Everyone:

seems logical - since its a property of the deployment - easily scoped

07:49:33 From Hylke van der Schaaf (IOSB) to Everyone:

We should totally test this out in real life, and have Rob send us all Beer!

07:51:06 From Rob Warren to Everyone:

Hylke: LEt me know if you are in Ottawa, Canada I will see what I can do.

07:51:33 From Rob Atkinson to Everyone:

draft it as a profile implementation?

07:53:26 From Hylke van der Schaaf (IOSB) to Everyone:

I might be able to travel to the June OGC TC Meet in Montreal :)

07:53:51 From Rob Warren to Everyone:

hyle: warren@glengarryag.com

07:54:50 From Rob Atkinson to Everyone:

+1

07:55:32 From KJanowicz to Everyone:

Yes but the examples should be canonical across the examples. We can add complexity in terms of the many ways of doing this somewhere else.

07:57:25 From Alejandro Villar (OGC) to Everyone:

Se ha reaccionado a "Yes but the exampl..." con 👍

Other Issues

6. Conformance - <https://github.com/w3c/sdw-sosa-ssn/issues/182> - new clause and normative language
 - a. Preview at <https://raw.githubusercontent.com/w3c/sdw-sosa-ssn/182-conformance-and-normative-terms/ssn/index.html#conformance>
7. Introduction and Origins - <https://github.com/w3c/sdw-sosa-ssn/issues/120> - now combined
 - a. Preview at <https://raw.githubusercontent.com/w3c/sdw-sosa-ssn/120-introduction-and-origins/ssn/index.html#Introduction>

2024-02-22T20:00:00Z

Attendees

- Rob Atkinson
- Sylvain Grellet
- Luís de Sousa
- Rob Warren

Apologies

(regular attendees - drag your name into the Attendees list when you sign in)

- Simon Cox
- Bert Bos
- Alex Robin
- Kathi Schleidt (apologies - exhausted :()
- Maxime Lefrancois
- Krzysztof Janowicz
- Alejandro Villar
- Hylke van der Schaaf

Agenda & notes

1. Actions

Action: Check that W3C infrastructure resolves to sosa: namespace to the import closure
=> Rob A. to create an issue on this

Seems to be just a matter of updating the top file. Naming of components to be discussed.

Rob (Warren) will provide a PR with comprehensive example with his data (under gh-pages/ssn/examples)

PR 196 created <https://github.com/w3c/sdw-sosa-ssn/pull/196>

2. Open Pull Requests

Discuss PR 196

Questions:

1. Base namespace usage - would sensor instances logically be separate from data?
 - a. Action: separate namespaces with annotations in a single file.

2. SensorType vs Instance
 - a. Well received as example (OMS perspective concurs)
 - b. Sensors have ids - cannot afford to replicate this effort
 - c. open...
3. airRelativeHumidityOfTheProduct VS same observableProperty but maybe different Fol
 - a. UltimateFeatureOfInterest ... This is confusing and example will be useful to tease out and explain - its still very confusing. Scientific vs Pragmatic.
 - b.
4. Can ssn-* be updated to sosa: now?
5. Context of example - file naming conventions - and inclusion of validated fragments in spec document. <https://github.com/w3c/sdw-sosa-ssn/tree/gh-pages/ssn/examples>
6. Need a GitHub issue describing the approach when semanticizing things
 - a. Not over simplifying the semantics for the sake of presenting it to 'normal' people (not us :). This simplification could be provided to layman in a GUI even on a more complex graph (ex : introducing ultimate/proximateFol)

Real issues around things like proximal feature of interest, typology, instances of these - e.g. we have identifiers for the crate, and the sensor, but not the air being measured. This appears to be a domain property description interacting with the feature typology. This talks to the semantics of observed property.

3. Issues

4. SDW sunset planning

Noted that ObservableProperties was put on the OGC OMS/Geosemantics roadmap (along with JSON schema implementation). Deferring “finer grained” solutions to this process will be necessary.

5. AOB

2024-02-15T20:00:00Z

Attendees

- Rob Atkinson (partly)
- Luís de Sousa
- Sylvain Grellet
- Kathi Schleidt
- Rob Warren
-

Apologies

(regular attendees - drag your name into the Attendees list when you sign in)

- Simon Cox
- Bert Bos
- Alex Robin
- Kathi Schleidt
- Maxime Lefrancois
- Krzysztof Janowicz
- Alejandro Villar
- Hylke van der Schaaf

Agenda & notes

1. Review of new modular ontology packaging ([PR #192](#))
 - a. Should SSN-Deprecated be in the diagram(s)?

Discussion => core question would be whether those deprecated properties come from the same package (which would make it to represent in diagrams) => Sylvain & Kathi to cross-check
 - b. Where are the modules sosa-prov, sosa-oboe and sosa-dul?

Discussion => Mystery solved during the session ;) -> one question why is dul-alignment.ttl not with the other mappings (dependency with other dul, ssnx.ttl files ?) otherwise we could move it to ssn/mappings folder
 - c. Classes and predicates defined in each module refer to the broader namespace (e.g. sosa:Sample in the sosa-sam: module). Convenient, but are there unintended consequences?

Discussion => it's more a matter of how URI resolution will be handled when the ttl are produced => Luis to create an issue
=> side issue being who will serve the ontology /set up the resolution mechanism W3C &| OGC?

Action: Check that W3C infrastructure resolves to sosa: namespace to the import closure => Rob A. to create an issue on this

2. Copyright notice policy (W3C)

a. Too early to worry about?

Ex from : ssn/integrated/ssn.ttl

dcterms:rights "Copyright 2017 W3C/OGC." ;

while we have

dcterms:created "2017-04-17"^^xsd:date ;

dcterms:modified "2024-02-03"^^xsd:date ;

3. <https://github.com/w3c/sdw-sosa-ssn/issues/144>

Rob (Warren) will provide a PR with comprehensive example with his data (under gh-pages/ssn/examples)

2024-02-08T20:00:00Z

Attendees

- Simon Cox
- Rob Atkinson
- Krzysztof Janowicz
- Alejandro Villar
- Luís de Sousa
- Sylvain Grellet
- Hylke van der Schaaf

Apologies

(regular attendees - drag your name into the Attendees list when you sign in)

- Rob Warren
- Bert Bos
- Alex Robin
- Kathi Schleidt
- Maxime Lefrancois

Agenda & notes

1. Announcement - Simon on vacation 10-24 Feb
Upcoming meetings
 - a. 2024-02-15 Rob Atkinson will chair
 - b. 2024-02-22 Rob Atkinson will chair
2. Modularization proposal - <https://github.com/w3c/sdw-sosa-ssn/issues/191>
 - a. Diagram
<https://github.com/w3c/sdw-sosa-ssn/blob/191-repackage-sosa-into-separate-modules/ssn/images/SSN-packages.png>
 - b. RDF files
<https://github.com/w3c/sdw-sosa-ssn/tree/191-repackage-sosa-into-separate-modules/ssn/integrated>
 - c. HTML fragments
<https://github.com/w3c/sdw-sosa-ssn/tree/191-repackage-sosa-into-separate-modules/ssn/frag>
 - d. Preview of document:
<https://raw.githack.com/w3c/sdw-sosa-ssn/191-repackage-sosa-into-separate-modules/ssn/index.html>
 - e. Pull Request: <https://github.com/w3c/sdw-sosa-ssn/pull/192>

Jano - what about x-package entailments?

Is it merely administrative?

Care about OWL levels across packages

- Cardinalities
- Consider removing all property-chain axioms, leave in informative explanations

Luis - good for communication, but he doesn't need to use individual modules (OK to have actuation pieces even though he doesn't use them). Same goes for Sylvain

1. Check imports match doco.

Rob -

1. 'Common' better than 'Base'

2. Have separate diagram for alignments - avoid same "dotted line" with different meanings
- label as "owl:import" explicitly perhaps?
3. SHACL rules being explored here
<https://github.com/opengeospatial/ogcapi-sosa/blob/master/sources/properties/observation/rules.shacl> - should we consider these as part of SOSA/SSN ?
4. Testing against entailment expectations/rules
5. More profiles, with their own conformance classes - e.g. Act + Obs

Break up the diagrams

- Done, merged

3. Issues:
<https://github.com/w3c/sdw-sosa-ssn/issues?q=is%3Aissue+is%3Aopen+sort%3Aupdated-desc>
4. JSON examples - difficult because there is no single mapping of RDF to JSON? What patterns can be uplifted? tricky
5. Typed literals for units of measure cases -
<https://github.com/w3c/sdw-sosa-ssn/issues/144>
6. Factoring out a Feature module?
- 7.

2024-02-01T20:00:00Z

Attendees

- Simon Cox
- Rob Warren
- Rob Atkinson
- Luís de Sousa
- Bert Bos
- Hylke van der Schaaf
- Alex Robin

Apologies

(regular attendees - drag your name into the Attendees list when you sign in)

- Sylvain Grellet
- Alejandro Villar
- Kathi Schleidt
- Krzysztof Janowicz
- Maxime Lefrancois
- Raúl García Castro
- Linda van den Brink

Agenda & notes

8. Announcement - Simon on vacation 10-24 Feb

Upcoming meetings

- 2024-02-08 **yes**
- 2024-02-15 ?
- 2024-02-22 ?

9. PRs Merged

- Actuation results and collection - <https://github.com/w3c/sdw-sosa-ssn/pull/173>
- Procedure Execution - <https://github.com/w3c/sdw-sosa-ssn/pull/184>
- Move Sample and Procedure specializations from OMS into SOSA - <https://github.com/w3c/sdw-sosa-ssn/pull/185>

10. PRs Draft

DRAFT - clarifying Ontology vs Graph vs Module terminology

<https://github.com/w3c/sdw-sosa-ssn/pull/186> ... see next item

11. Issues

- Modularization -

<https://github.com/w3c/sdw-sosa-ssn/issues/183>

see package diagram below and

<https://raw.githubusercontent.com/w3c/sdw-sosa-ssn/183-clarify-ssn-ontology/ss>

[n/images/SOSA-modules.png](#)

General agreement

ssn.ttl would still exist but just be a shell which imports the lower files - **check for backward compatibility from users who *might* be using software that doesn't follow owl:imports**

Reach out to Jano, Maxime,

- b. Ssn-system ns <https://github.com/w3c/sdw-sosa-ssn/issues/179>
Who is using? Will this break things? Too much work ...?
Need SAREF input. How much is covered by SAREF - should we remove ssn-system and point to SAREF instead?

Not in SOSA ns!

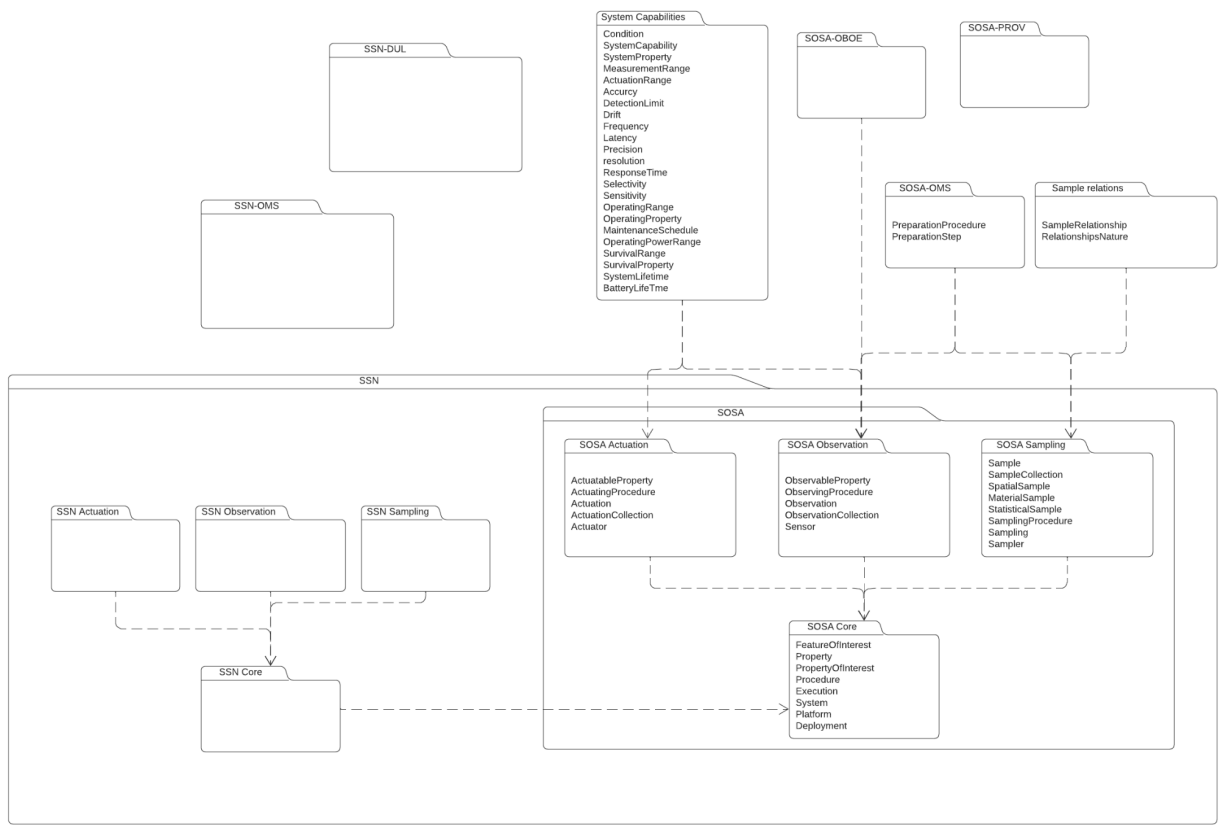
Could governance of this module in future be moved out of SSN and over to **ConnectedSystems**?? Leave as non-normative in SSN Rec, but don't update without stronger governance context.

- c. Origins narrative - update needed
<https://github.com/w3c/sdw-sosa-ssn/issues/120>
- d. STA alignment <https://github.com/w3c/sdw-sosa-ssn/issues/147>
- e. Units of measure - JSON implications
<https://github.com/w3c/sdw-sosa-ssn/issues/144>

Add warning about OWL reasoning

Add a GeoSPARQL result example

- f. <https://github.com/w3c/sdw-sosa-ssn/issues?q=is%3Aissue+is%3Aopen+sort%3Aupdated-desc>



2024-01-25T20:00:00Z

Attendees

- Simon Cox
- Hylke van der Schaaf
- Luís de Sousa
- Sylvain Grellet
- Alejandro Villar
- Bert Bos
- Rob Atkinson
- Alex Robin
- Rob Warren

Apologies

(regular attendees - drag your name into the Attendees list when you sign in)

- Kathi Schleidt
- Krzysztof Janowicz
- Maxime Lefrancois
- Raúl García Castro
- Linda van den Brink

Agenda & notes

12. PRs

- a. Actuation result: are we OK with definition of Actuation/result
<https://github.com/w3c/sdw-sosa-ssn/issues/112>
- Yes, OK
and cardinality=1 for actsOnProperty/observedProperty and hasResult?
<https://github.com/w3c/sdw-sosa-ssn/issues/174>
- Yes, OK
Also - add `startTime` for Actuation tasking time, etc
This PR: <https://github.com/w3c/sdw-sosa-ssn/pull/184>
- b. [Move extra OMS terms into SOSA core](https://github.com/w3c/sdw-sosa-ssn/issues/132)
<https://github.com/w3c/sdw-sosa-ssn/issues/132>
This PR <https://github.com/w3c/sdw-sosa-ssn/pull/185>
- c. Content model for **Execution** <https://github.com/w3c/sdw-sosa-ssn/pull/173>
 - i. hasInputValue, hasOutputValue added as ObjectProperties
- **no examples or guidance yet (@Hylke?)**
 - ii. Draft -> Ready ? (OK for starters, anyway?)

13. Issues

- a. Datasheet patterns <https://github.com/w3c/sdw-sosa-ssn/issues/107>

Alex's pattern

<https://raw.githack.com/w3c/sdw-sosa-ssn/systemkind-datasheet/ssn/index.html#datasheet>

Any more??

14. Usage - test suite started - see

<https://github.com/w3c/sdw-sosa-ssn/tree/update-examples-2/ssn/tests/Observation>

This will be used in Building Blocks by the OGC Rainbow team, which can provide 'evidence of implementation' for the usage report.

Opportunity here to build test cases for the new and at-risk terms - please jump in.

2024-01-18T20:00:00Z

Attendees

- Simon Cox
- Hylke van der Schaaf
- Luís de Sousa
- Bert Bos
- Sylvain Grellet
- Rob Atkinson
- Kathi Schleidt
- Alex Robin

Apologies

(regular attendees - drag your name into the Attendees list when you sign in)

- Rob Warren
- Krzysztof Janowicz
- Maxime Lefrancois
- Raúl García Castro
- Linda van den Brink
- Alejandro Villar Fernandez

Agenda & notes

1. PRs
 - o OBOE alignment <https://github.com/w3c/sdw-sosa-ssn/pull/153>
 - o Deprecate classes better managed as roles <https://github.com/w3c/sdw-sosa-ssn/pull/163>
 - o Draft - ProcedureExecution specification <https://github.com/w3c/sdw-sosa-ssn/pull/173>
 - i. Sylvain & Luis challenge the name 'ProcedureExecution' - maybe consider alignment with prov:Activity? What implications for SAREF?
 - ii. Annotate as 'abstract'. (although reusable schema patterns would be concrete) - but the intention is there.
 - o Clarify Actuation/result <https://github.com/w3c/sdw-sosa-ssn/pull/165>
 - i. What is cardinality of actuatableProperty ?
 - ii. But see item 10. In change log <https://www.w3.org/TR/vocab-ssn/#changes-since-3rd-public-working-draft-https-www-w3-org-tr-2017-wd-vocab-ssn-20170504>
 - iii. Alex agrees that consistency within SOSA would be helpful

- iv. - proposal to make cardinality of `actuatableProperty 1`, and explain how to encapsulate complex value in properties and results - check backward compatibility - Maxime, Jano ...
 - o Need to add ``hasInputValue`` on `ProcedureExecution` (particularly `Actuation`) see <https://github.com/w3c/sdw-sosa-ssn/issues/105>
2. Usage report
- o New template coming
 - o Issues for specific applications
<https://github.com/w3c/sdw-sosa-ssn/issues?q=is%3Aissue+is%3Aopen+label%3Ausage-report>
 - o Ask Raul if the student is still available
 - o Alex's usage pattern - *conceptual model for another implementation*
3. Key issues
- o actuation questions <https://github.com/w3c/sdw-sosa-ssn/issues/162>
 - o Datasheet questions <https://github.com/w3c/sdw-sosa-ssn/issues/107> - can the protagonists please create documentation

2024-01-18 Maxime, Simon meetup

Key issues

- PRs <https://github.com/w3c/sdw-sosa-ssn/pulls>
- Procedure execution <https://github.com/w3c/sdw-sosa-ssn/issues/164>
 - **cardinality=1** for `Fol`, `oP`, `aP`, `hasResult` helps to streamline modeling choices ?
 - Question about ``hasInput`` - abstract super-property?
 - This cardinality restriction doesn't apply to `hasInput`, there may be more...
 - Not clear for `hasOutput`...
 - draws a boundary between the general model and domain applications
- Hylke's actuation questions <https://github.com/w3c/sdw-sosa-ssn/issues/162>
 - Clarify semantics of **hasResult** - <https://github.com/w3c/sdw-sosa-ssn/pull/165>
 - **Clarify** definition of `Actuation` - *it is the change in the real world*
 - SOSA/SSN doesn't deal with message exchanges on the network, or creation of instances in a database, ...
 - What is **phenomenonTime**? actuation-interval in the real world (this is consistent with `phenomenonTime` for `Observations`)
 - What is **resultTime**? It came from `Observation` data processing considerations. Is **tasking-time** the equivalent significant time for `Actuations`?
 - Additional timings required, maybe rates, multi-stage - patterns? Do these belong in SOSA? Perhaps keep `sosa:Actuation` skeletal and make elaboration and patterns a future piece of work?

- SAREF alignment <https://github.com/w3c/sdw-sosa-ssn/issues/125>
 - Awaiting official publication of SAREF v3.2.1 - weeks away only
- Usage report for SAREF <https://github.com/w3c/sdw-sosa-ssn/issues/166>
 - Awaiting official publication of SAREF v3.2.1
-

2024-01-11T20:00:00Z

Attendees

- Simon Cox
- Kathi Schleidt
- Hylke van der Schaaf
- Luís de Sousa
- Rob Atkinson
- Sylvain Grellet
- Bert Bos
- Rob Warren
- Alex Robin

Apologies

(regular attendees - drag your name into the Attendees list when you sign in)

- Krzysztof Janowicz
- Maxime Lefrancois
- Raúl García Castro
- Linda van den Brink
- Alejandro Villar Fernandez

Agenda & notes

1. PRs
 - a. Merged <https://github.com/w3c/sdw-sosa-ssn/pull/152>
 - b. Merged <https://github.com/w3c/sdw-sosa-ssn/pull/146>
 - c. One more review needed <https://github.com/w3c/sdw-sosa-ssn/pull/153> > Sylvain : I don't know OBOE much. Anyone else?
 - d. One more review needed : <https://github.com/w3c/sdw-sosa-ssn/pull/155> > Approved in session
 - e. One more review needed : <https://github.com/w3c/sdw-sosa-ssn/pull/156> > Approved in session
2. Dealing with merge conflicts in HTML is a challenge
 - a. Use Format Document
3. Usage survey
 - a. Initial document - <https://raw.githack.com/w3c/sdw-sosa-ssn/usage-report/ssn-usage/index.html>
 - i. This highlights the missing information about the new terms (but is a messy document overall)
 - ii. Change into a smaller document just focusing on the new terms? Rebuild document with a leave-behind link to the previous?

- b. Other usage examples
 - i. **Connected Systems** depends on SOSA/SSN as conceptual basis for overall system and API (merging SOS, SML, SWECommon, STA, SSN history)
 - ii. OneWater+ STA/OMS
 - iii. KWG
 - iv. Iliad
 - v. Ag
 - vi. Cadastre?
- 4. Issues to discuss
 - a. Procedures and spec sheets - ? #107 ?
 - i. AR - Need to agree on approach for where these things get linked (internals are not so important at this point) - how to point to the datasheet?
 - ii. KS - Conceptual procedure vs datasheet referenced from Sensor/Observer, we need all 3:
 - 1. Procedure: abstract process followed
 - 2. SensorKind: datasheet
 - 3. Sensor: specific instance
 - iii. Concrete datasheet seems to be missing/unclear
 - iv. @Alex + @Sylvain + @Maxime + @Kathi to propose a concrete change to document to clarify this? E.g. in Common Modeling patterns section
 - b. <https://github.com/w3c/sdw-sosa-ssn/issues/157>
 - c. <https://github.com/w3c/sdw-sosa-ssn/issues/132>
 - d. <https://github.com/w3c/sdw-sosa-ssn/issues/120>
 - e. <https://github.com/w3c/sdw-sosa-ssn/issues/147>
 - f.
- 5. GitHub repo conf
 - a. We cannot add Hylke to reviewers on PR what could be missing in the repo conf ?

2024-01-08 Maxime, Simon, Rob meetup

Maxime introduced Rob to SAREF

2024-01-08 Rob & Simon meetup

Implementation evidence for the 2014 additions

- Actuation - Connected Systems + SAREF
- ObservationCollection - 3D Cadastre, Iliad, STA datastreams
- SampleCollection - BRGM?
- KWG from Jano?
- https://github.com/opengeospatial/ogcapi-sosa/tree/master/_sources/features

Need to tabulate evidence of implementation on term-by-term basis.

Also note

https://github.com/opengeospatial/ogcapi-sosa/blob/master/_sources/features/observation/examples.yaml

Alignments are currently labeled 'non-normative'

SOSA-OMS alignment should be normative, but maybe not in the W3C space

- hand over to OGC SWG?

2024-01-04 - notes

Attendees

- Simon Cox
- Rob Warren
- Kathi Schleidt
- Rob Atkinson
- Sylvain Grellet

Apologies

(regular attendees - drag your name into the Attendees list when you sign in)

-
- Hylke van der Schaaf
- Luis de Sousa
- Raúl García Castro
- Krzysztof Janowicz
- Maxime Lefrancois
- Alex Robin
- Linda van den Brink
- Alejandro Villar Fernandez
-

Agenda & notes

1. Outstanding PRs
 - a. OMS mapping table <https://github.com/w3c/sdw-sosa-ssn/pull/139> - **merged**
 - b. Retire the O&Mv2 alignment <https://github.com/w3c/sdw-sosa-ssn/pull/145> - **merged**
 - c. Cleaning up HTML <https://github.com/w3c/sdw-sosa-ssn/pull/146> - *awaiting 2nd approval*
2. Issue #128 - hasFeatureOfInterest <https://github.com/w3c/sdw-sosa-ssn/issues/128>
 - a. mapping - is there a sub-property relationship needed here? - there is no notion of 'sub-property' in UML
 - b. Add note in `sosa:hasFeatureOfInterest` to clarify that the **default** is the *proximate* Fol - <https://github.com/w3c/sdw-sosa-ssn/issues/148>
 - c. OGC modspec ontology - add `implements` ? - <https://github.com/w3c/sdw-sosa-ssn/issues/149>
3. Priorities and (suggested) work assignments

- a. Finishing OMS alignment! - done?
 - i. which (if any) sosa-oms: terms should be moved to sosa: (all)
-<https://github.com/w3c/sdw-sosa-ssn/issues/132>
- b. update history/origins intro text to explain motivation of SOSA update from OMS (Sylvain + Kathi) - <https://github.com/w3c/sdw-sosa-ssn/issues/120>
 - i. This is where STA is introduced?
- c. SAREF alignment (maxime) - <https://github.com/w3c/sdw-sosa-ssn/issues/125>
- d. STA - is this an *implementation* ? (Hylke, Kathi) -
<https://github.com/w3c/sdw-sosa-ssn/issues/147>
See Rob's slide on multiple APIs in parallel - on top of a 'common' conceptual model - <https://github.com/ogcincubator/iliad-apis-features/tree/master>
I.e. the mapping should be in STA doc (not SOSA spec)
1°/SOSA -> implements OMS
2°/ ST API -> implements OMS
3°/ the SOSA <-> ST API could be deduced → OGC building block strategy
- e. Connected systems alignment (Alex) - needed for their evidence of implementation - Simon to reach out to Alex & Chris? - which bits do we really need? Confer with Ingo too? - Simon and Rob to strategize
- f. Examples -
 - i. clean up the old examples (Simon, Maxime)
 - ii. Confirm that observedProperty confusion is resolved (Kathi)
 - iii. get new examples (Jano, Maxime, Kathi, Sylvain, Alex, Rob W)
- g. SHACL implementation (Alejandro? Rob?, Simon?)
 - i. OGC implementation - <https://github.com/w3c/sdw-sosa-ssn/issues/142>
- h. JSON-LD contexts (Rob, Alejandro)
 - i. OGC implementation - <https://github.com/w3c/sdw-sosa-ssn/issues/150>
- i. OBOE alignment (update to match ssn-ext pattern) (Simon) (small thing)

28/12/2023 - notes

Attendees

- Simon Cox
- Kathi Schleidt
- Rob Warren

Apologies

(regular attendees - drag your name into the Attendees list when you sign in)

- Hylke van der Schaaf
- Luis de Sousa
- Rob Atkinson
- Sylvain Grellet
- Raúl García Castro
- Krzysztof Janowicz
- Maxime Lefrancois
- Alex Robin
- Linda van den Brink
- Alejandro Villar Fernandez
-

Agenda & notes

1. Outstanding PR - <https://github.com/w3c/sdw-sosa-ssn/pull/139>
 - a. We have overridden GitHub blocks, since the change request has been resolved
 - b. Additional missing and mis-alignments identified by @Kathi to be resolved by @simon today if possible
 - c. Raise a new issue on ActuationProcedure
2. @robWarren will provide example of multiple owners of results and multiple deployments of the same sensor - target end Jan24.
3. Increase meeting frequency to weekly.

14/12/2023 - notes

Attendees

- Luis de Sousa
- Kathi Schleidt
- Rob Atkinson
- Simon Cox
- Hylke van der Schaaf
-

Apologies

(regular attendees - drag your name into the Attendees list when you sign in)

- Sylvain Grellet
- Raúl García Castro
- Krzysztof Janowicz
- Maxime Lefrancois
- Alex Robin
- Linda van den Brink
- Alejandro Villar Fernandez
- Rob Warren

Agenda & notes

1. We will continue to meet fortnightly through the holiday period
2. OGC code-sprints
 - a. Focus on metadata ...
 - b. target *March* on Observable Properties to bring OMS/SOSA into the fold
3. Kathi is to join SoilWise - OP increasingly a focus?
 - a. Focus on soil data discovery
 - b. GLOSI links (also ANSIS?)
 - c. Need OGC VocPrez upgrade to be deployed to get improved UI
4. Clean up the HTML - need a pretty-print on HTML
5. Merge **Collections** into default branch <https://github.com/w3c/sdw-sosa-ssn/pull/134> ??
 - a. Check consistency rules here
<https://raw.githack.com/w3c/sdw-sosa-ssn/collections/ssn/index.html#Collections-specification>
 - b. hasMember is a general predicate, with axioms in SSN to constrain ranges in context. Definition of hasMember in SOSA graph appears to allow Samples to be members of ObservationCollection. Definition of ObservationCollection clarifies this. As with all properties SOSA does not axiomatize constraints on domain/range, only annotates expectations.

- c. Need SHACL to complement OWL to fully enforce membership rules.
- d. TODO - refine rule for repeated properties with range
- 6. Tidy up some **OMS alignment** issues
 - a. Add PreparationProcedure documentation
<https://github.com/w3c/sdw-sosa-ssn/pull/135>
See
<https://raw.githack.com/w3c/sdw-sosa-ssn/OMS-PreparationProcedure/ssn/index.html#OMSPreparationProcedure>
 - b. Add links to tabulation <https://github.com/w3c/sdw-sosa-ssn/pull/139> See
<https://raw.githack.com/w3c/sdw-sosa-ssn/oms-alignment-links/ssn/index.html#OMS-Alignment-Class>
 - i. remove dependency on DQV which is only a W3C 'Note' -
 - ii. Add informative pointers to DQV and ISO 19157
 - c. Create SSN-OMS graph <https://github.com/w3c/sdw-sosa-ssn/pull/136> See
<https://github.com/w3c/sdw-sosa-ssn/blob/OMS-SSN-axiomatization/ssn/integrated/ssn-oms.ttl>

30/11/2023 - notes

Attendees

- Simon Cox
- Kathi Schleidt
- Hylke van der Schaaf
- Sylvain Grellet
- Luis de Sousa

Apologies

(regular attendees - drag your name into the Attendees list when you sign in)

- Rob Atkinson
- Raúl García Castro
- Krzysztof Janowicz
- Maxime Lefrancois
- Alex Robin
- Linda van den Brink
- Alejandro Villar Fernandez
- Rob Warren (Stupid calendar app can't tell EST from GMT) is stuck

Agenda & notes

1. OMS alignment - see <https://github.com/w3c/sdw-sosa-ssn/issues/128> - maxime.lefrancois@emse.fr proposed more detail on OMS side to make alignment more accurate
 - a. Primary challenge is aligning RDF implementation to a UML model
=> The use of ogc:implements to have SOSA the canonical owl representation of OMS ISO specification is validated.
 - i. What URIs to use for UML?
 - ii. What mapping predicate(s)?
 - iii. How to handle minor mismatches, esp implicit subclasses and subproperties?
 - b. Simon's proposal introduces some extra classes in SOSA-OMS where there are some mismatches. **Should there be more?**
 - c. Hylke's TTL implementation from 2 years ago - should this be revived? Are these URIs still useful?
 - i. These are the only URIs we have to point to but they correspond to content in an ISO document. They don't identify classes from an ontology
 - d. We also have Jean Brodeur RDF/XML implementation from ~2012. Is this a good reference?

29/11/2023 -

Attendees

- Simon Cox
- Maxime LeFrancois

Notes

1. ObservationCollection
 - a. Talking about aggregated observations, with function used to get result over aggregate - aggregated result is of a special kind of Observation (not ObservationCollection)
 - b. See #28, #105
2. Observable property models - need to add pointers to PUV, I-ADOPT (non-normative)
 - a. Maybe note that I-ADOPT conflates parts of SOSA into OP
3. Check <Hn> levels
4. PropertyKind vs PropertyOfInterest
5. DeviceType(Kind) vs Device (w SerialNo.)

16/11/2023 - notes

Attendees

- Simon Cox
- Rob Atkinson
- Luis de Sousa
- Kathi Schleidt

Apologies

(regular attendees - drag your name into the Attendees list when you sign in)

- Raúl García Castro
- Sylvain Grellet : sorry COVID caught me (and my brain :().
- Krysztof Janowicz
- Maxime Lefrancois
- Alex Robin
- Linda van den Brink
- Alejandro Villar Fernandez
- Rob Warren

Agenda

1. Collections: SSN-Ext + OMS enhancements

<https://raw.githack.com/w3c/sdw-sosa-ssn/collections/ssn/index.html#Collections>

Proposal moved (temporarily) into separate graph to assist review:

<https://github.com/w3c/sdw-sosa-ssn/blob/collections/ssn/integrated/collections.ttl>

Model summarized in

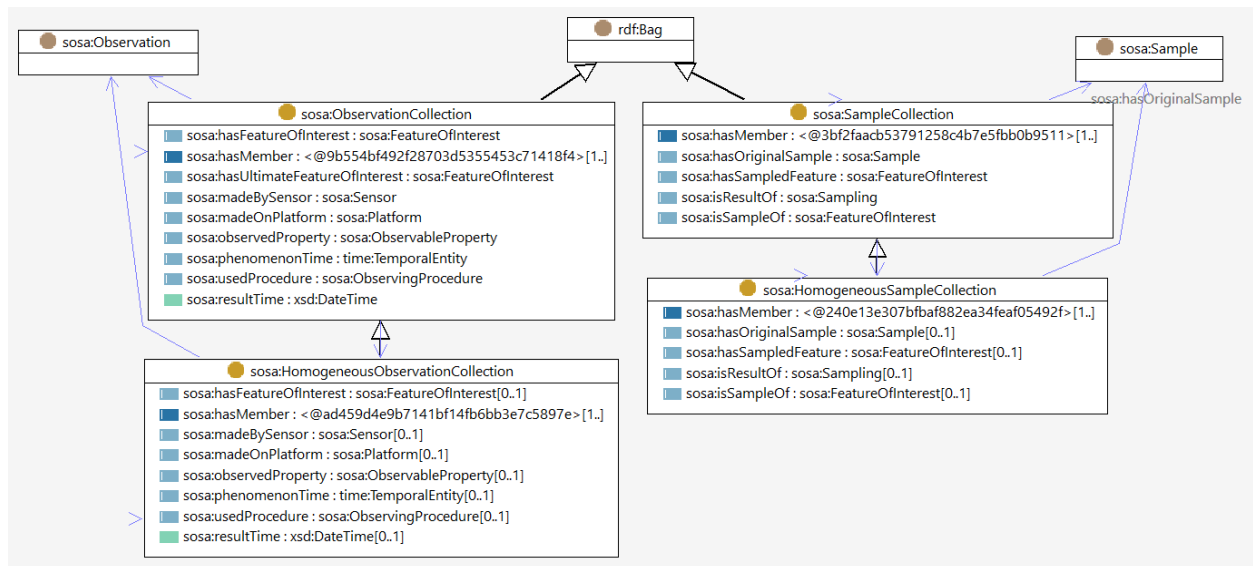
<https://github.com/w3c/sdw-sosa-ssn/issues/50#issuecomment-1804962687>

Documented here

<https://raw.githack.com/w3c/sdw-sosa-ssn/collections/ssn/index.html#Collections>

Example instances:

<https://github.com/w3c/sdw-sosa-ssn/blob/collections/ssn/examples/02-homo-vs-summar-collect-ion.ttl>



UML-style diagram from TopBraid showing OWL Restrictions

OWL/RDF open world assumptions:

- Any property not mentioned can still be associated with a class
- Default cardinality is [0..*]

SHACL can be used for stronger closed-world validation

With JSON-LD encoding of RDF, SHACL might be used for JSON validation ...

Some time spent describing RDFS/OWL patterns, and the utility and application of SHACL

(for Kathi and Luis who are inexperienced in this area)

Note 1: no 'type' property - separate classes instead

Note 2: Homogeneous collections subclass of general (summarizing) collections - constrained cardinality

Note 3: collections.ttl has separate sections that could be moved into sosa.ttl (light profile) and ssn:ttl (axioms)

Discussion:

1. hasMember cardinality should be [0..n] (empty collection OK)
2. Add `disjoint` axiom - observation collection cannot contain samples (implied by membership constraint, but perhaps make explicit?)
3. Need to improve definition of implications on members of various patterns of collection properties
 - a. No property \Rightarrow no implication
 - b. Range of properties \Rightarrow member properties must be in range, but must be explicit
 - c. Single property \Rightarrow member property must match, may be omitted

SOSA /API

<https://github.com/opengeospatial/ogcapi-sosa/tree/master>

Example for a citizen science activity:

<https://github.com/ogcincubator/iliad-apis-features/tree/master>

Little video to explain (11 mins)

<https://drive.google.com/file/d/1HJiEXzn0cAGXy7j06XX8Sw-xf2zfPK1/view>

Relevant Reqs from OMS:

10.12 Codelists

10.12.1 ObservationCollectionType

<p>Requirement</p> <p>/req/obs-basic/ObservationCollectionType/ homogeneous-con</p>	<p>If collectionType in the ObservationCollection is specified as “homogeneous” from this Codelist, the following constraints apply to the associated ObservationCharacteristics and all Observation instances referenced via the member association.</p> <p>If a property value is provided within the ObservationCharacteristics, this value applies to all Observations contained in the ObservationCollection:</p>
--	--

	<ul style="list-style-type: none"> — property not provided – values may be provided by the Observations but is not provided at this level — property provided but with no content – no Observation within the collection provides this property — property = value – this value applies to all Observations within the collection — property = value set/range – this value set/range applies to all Observations within the collection
--	---

<p>Requirement</p> <p>/req/obs-basic/ObservationCollectionType/ summarizing-con</p>	<p>If collectionType in the ObservationCollection is specified as “summarizing” from this Codelist, the following constraints apply to the associated ObservationCharacteristics and all Observation instances referenced via the member association.</p> <p>If multiple values for a property are available in the contained Observations, all values for this attribute (or the range of values contained in all Observations) are provided in the ObservationCharacteristics. A property may also be empty in the ObservationCharacteristics – in this case any value can be provided for this attribute within the contained Observations:</p>
--	---

	<ul style="list-style-type: none"> — property not provided – values may be provided by the Observations but a summary is not provided at this level; — property provided but with no content – no Observation within the collection provides this property; — property = value – this value applies to all Observations within the collection; — property = value set/range – all Observations provide a value within this set/range.
--	---

9.9.6 Association relatedCollection

<p>Requirement</p> <p>/req/obs-core/AbstractObservationCollection/relatedCollection-sem</p>	<p>A AbstractObservationCollection the AbstractObservationCollection is related to.</p> <p>If a reference to a related AbstractObservationCollection is provided, the association with role relatedCollection shall be used. The context:GenericName qualifier of this association may be used to provide further information as to the nature of the relation.</p>
--	--

2. Report back on meeting with maxime.lefrancois@emse.fr

Some ideas about packaging SOSA.

15/11/2023 -

Attendees

- Simon
- Maxime

Review PRs #99, #100, #116

Review Issue #50

Discuss how the new SOSA/SSN would translate in files and graphs. Proposal would be:

- At <https://www.w3.org/ns/sosa/>
 - retrieve sosa-light.ttl by default, which only defines the terms, with little or no axioms
 - retrieve sosa-full.ttl if HTTP Accept-Profile has a certain value, this file adds to sosa-light.ttl all the OWL axioms one can find in the current ssn.ttl, applied to SOSA terms
- At <https://www.w3.org/ns/ssn/>
 - Retrieve ssn.ttl, which imports sosa-full.ttl, defines the ssn terms and deprecates them, and aligns them to the sosa terms

MLF described SAREF history - <https://saref.etsi.org> and ongoing work in <https://portal.etsi.org/xdfs/#/xTF/653> and <https://portal.etsi.org/xdfs/#/xTF/641>

Justifies the recently created issues based on the experience in developing SAREF and its different extensions

02/11/2023 - notes

Attendees

- Rob Atkinson
- Simon Cox
- Rob Warren
- Alejandro Villar Fernandez

Apologies

(regular attendees - drag your name into the Attendees list when you sign in)

- Raúl García Castro
- Sylvain Grellet
- Krzysztof Janowicz
- Maxime Lefrancois
- Alex Robin
- Kathi Schleidt
- Linda van den Brink
-

Agenda

Meeting organization

0. Timing for future meetings confirmed
 - a. Fortnightly from 2023-11-02T20:00Z
[The World Clock Meeting Planner - Details \(timeanddate.com\)](https://www.w3.org/groups/wg/sdw/calendar/)
<https://www.w3.org/groups/wg/sdw/calendar/>
 - b. Simon & Maxime will have an interleaved briefing to accommodate timing challenge

SOSA ontology issues:

1. Sensor implements OMS Observer - definition is clear
(compare with previous Platform vs Host decision)
See
<https://github.com/w3c/sdw-sosa-ssn/blob/OMS-mapping/ssn/integrated/sosa-oms.ttl#L22>
No need for a new class
See <https://github.com/w3c/sdw-sosa-ssn/issues/29#issuecomment-1779470219>

Backward compatibility needs to be in the explanation in the ontology - emphasize in the editorial notes

Also consider adding `madeByObserver`? - no - this confuses and is not necessary - just change labels

Observer is OK as subclassOf System?

Need two approving reviews for

<https://github.com/w3c/sdw-sosa-ssn/pull/100>

2. SOSA-OMS Mapping

Add sosa-oms.ttl into /integrated/

Sosa-oms.ttl includes sosa.ttl

Refactored so that all new stuff proposed in OMS is now only in sosa-oms.ttl graph

Need two approving reviews for

<https://github.com/w3c/sdw-sosa-ssn/pull/116>

3. Examples moved out of HTML

a. Two approvals needed on

[Update examples 1 - include code snippets by-reference instead of copy-paste-escape by dr-shorthair · Pull Request #117 · w3c/sdw-sosa-ssn \(github.com\)](#)

RA: this now enables <https://github.com/w3c/sdw-sosa-ssn/issues/54>

4. Collections

<https://github.com/w3c/sdw-sosa-ssn/issues?q=is%3Aissue+is%3Aopen+label%3Acollections>

- SSN-ext introduced *homogeneous* collections. OMS also allows for *summarizing* collections, with a `type` attribute switching between these modes.

In RDFS/OWL if the classes have different constraints and behaviours, it is more usual to have a new class for a different purpose (e.g. summarizing) - this should be a new proposal

<https://github.com/w3c/sdw-sosa-ssn/issues/12#issuecomment-1736637294>

*Soft-typing vs hard-typing - is *Collection a valid example where soft-typing is needed?*

Implications for member items and rules around these?

Need examples of both patterns ...

What is the collection type if the 'type' attribute not present. Separate classes would force choice.

- Should `hasResult` be allowed on ObservationCollection ?
<https://github.com/w3c/sdw-sosa-ssn/issues/28>
- Generic hasMember vs. specific hasMemberSample+hasMemberObs
<https://github.com/w3c/sdw-sosa-ssn/issues/51#issuecomment-1784005625>
<https://github.com/w3c/sdw-sosa-ssn/issues/50#issuecomment-1784005553>
- Review proposal here
<https://github.com/w3c/sdw-sosa-ssn/blob/collections/ssn/integrated/collections.ttl>
If approved, should these be rolled into the SOSA graph? Or kept in a separate module?

19/10/2023 - notes

Attendees

- Simon Cox
- Maxime Lefrancois
- Kathi Schleidt
- Krzysztof Janowicz
- Sylvain Grellet

Apologies

- Rob Atkinson
- Rob Warren
- Alex Robin

Agenda

0. Timing for future meetings
 - c. Fortnightly from 2023-11-02
 - d. Propose: 20:00 UTC ?
[The World Clock Meeting Planner - Details \(timeanddate.com\)](https://timeanddate.com)
 - e. Alternate with 11:00 UTC
1. SOSA-OMS alignment - see
<https://github.com/w3c/sdw-sosa-ssn/issues/104#issuecomment-1752427548>
<https://github.com/w3c/sdw-sosa-ssn/blob/OMS-mapping/ssn/mappings/sosa-oms-mapping.ttl>
Need review from **Kathi** and **Sylvain**
Need to understand how to use rdfs:isDefinedBy - krzysztof.janowicz@univie.ac.at
2. Sensor vs Observer - perhaps resolved by the SOSA-OMS alignment graph? ISO TC211 / OGC OMS
<https://github.com/w3c/sdw-sosa-ssn/issues/29>
<https://github.com/w3c/sdw-sosa-ssn/issues/43>
3. Updating examples (commenced)
<https://github.com/w3c/sdw-sosa-ssn/tree/update-examples-1/ssn/examples>

<https://raw.github.com/w3c/sdw-sosa-ssn/update-examples-1/ssn/index.html#location>

4. Plans for updating or replacing the Observable Properties section -

<https://www.w3.org/TR/vocab-ssn/#SSNProperty-instances> maxime.lefrancois@emse.fr

Compare with I-ADOPT,

PUV <https://w3id.org/env/puv> , <https://github.com/CSIRO-enviro-informatics/PUV-ont>

S06 <http://vocab.nerc.ac.uk/collection/S06/current/> ,

P01 <http://vocab.nerc.ac.uk/collection/P01/current/>

Chatlog:

kathi schleidt

22:11

https://inspire-geoportal.ec.europa.eu/theme_selection.html?view=qsTheme

You

22:16

Rolling minutes https://docs.google.com/document/d/15TBmYhgRjncdd_bvmTKyqCD8alHqo1-Tkg3eOKjYNTw/edit

Krzysztof Janowicz

22:18

2min

Krzysztof Janowicz

22:23

observableProperties are per kind

That is the discussion we are having for years

kathi schleidt

22:27

Class: temp Subclass: temp of room Instance: temp of room 123

Krzysztof Janowicz

22:29

temp is an observableProperty the room is the FOI the 24C is the result and all together are the observation and if I need to add more prov or other info, I add it to the observation.

You

22:29

Yes - that's how I always thought of it

Rolling minutes https://docs.google.com/document/d/15TBmYhgRjncdd_bvmTKyqCD8alHqo1-Tkg3eOKjYNTw/edit

Krzysztof Janowicz

22:31

Why is it 6 years, am I this old now?

Maxime Lefrançois

22:31

hehe

Sylvain Grellet

22:34

google meet is complaining

I'll check the setting

s

You

22:35

<https://www.timeanddate.com/worldclock/meetingdetails.html?year=2023&month=11&day=2&hour=20&min=0&sec=0&p1=152&p2=259&p3=195&p4=263&p5=75>

Sylvain Grellet

22:35

I'll manage to connect

Sylvain Grellet

22:38

I'll try to close some windows and get back and see if the mic is working better

Krzysztof Janowicz

22:46

Very glad to hear that

kathi schleidt

22:48

OMS Spec

<https://docs.ogc.org/as/20-082r4/20-082r4.html>

Krzysztof Janowicz

22:48

The ogc:implements looks great to me

What do you mean by " rdfs:isDefinedBy sosa: "

Sylvain Grellet

22:50

back after mandatory windows updates apparently with mic on but no cam :(

Maxime Lefrançois

22:56

https://www.w3.org/2015/spatial/wiki/Domain,_Range,_InverseOf

05/10/2023 - notes

Attendees

- Rob Atkinson
- Simon Cox
- Sylvain Grellet
- Krzysztof Janowicz

agenda

- From SDW WG : we ave 6 month to finalise SOSA
- Discussion over
 - <https://github.com/w3c/sdw-sosa-ssn/pull/99>
 - <https://github.com/w3c/sdw-sosa-ssn/pull/100>
 - Over OMS:Observer “VS” SOSA:Sensor
 - Question on where axiomatization lives
 - On axiomatization and SOSA being an implementation of OMS
 - association in SOSA using schema.org : domainIncludes, rangeIncludes
 - No subclass axioms in SOSA
- Consider having a SOSA-UML graph with `subClass`, `inverseOf` axioms to match a minimal UML-ish semantics
 - Giancarlo Guizzardi
<https://scholar.google.com/citations?user=nnfVBt8AAAAJ&hl=en&oi=sra>
An ontologically well-founded profile for UML conceptual models
- Side information on discussion topic around Earth-Observation <-> Observation model mentioned : <https://hal.science/hal-02976647/document>

Ensure that Alex, Jano have access to GitHub

Reach out to Maxime to check if he wants to be involved

Check for `rdf:Property` - OWL-Full implications

Add formal statement in SOSA-rev Recommendation that it includes an implementation of OMS

OGC/ISO should manage its own alignment axioms, as sub- or super-properties of the proposals in #57

21/09/2023 - notes

Attendees

- Rob Warren
- Kathi Schleidt
- Rob Atkinson
- Simon Cox
- Sylvain Grellet

agenda

- Appoint scribe
- SDW charter discussion
- Actions
- Pull Requests
- Rob Warren presentation on corner cases of interest
- Address issues

SDW Plenary: charter for W3C SDWWG extended for 6 months -> brings us to end of March 2024

Discussion with OGC on long-term maintenance...

Due to these temporal constraints, focus on aligning SOSA with OMS, additional topics to be done after this core is completed, e.g.:

- OGC-API-OMS
- Complex Observable Properties

Repository maintenance

- Gh-pages now default branch
- Need 2 members of the repo to approve MR

Unmerged branch <https://github.com/w3c/sdw-sosa-ssn/tree/Mirror-SSN-resources-in-SOSA>

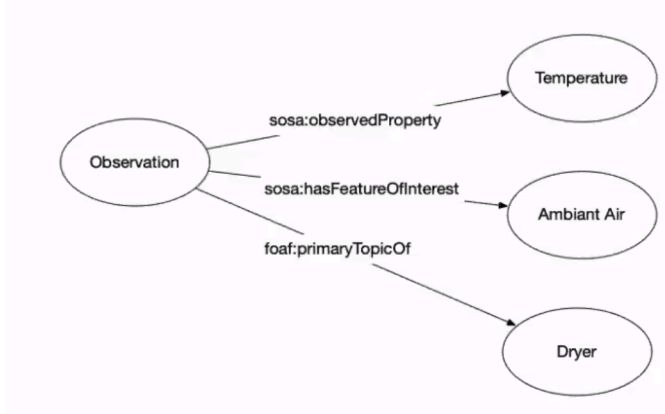
- PR @ <https://github.com/w3c/sdw-sosa-ssn/pull/97>

All SSN properties and relations are now also included in SOSA (can use SOSA standalone), mirrored in SSN via owl:equivalentClass and owl:equivalentProperty axioms in SSN graph

Removing sosa:Host: Issue: [What's the difference between Platform and Host? #56](#)
Simon will do

Rob Warren Presentation

How to deal with a temperature sensor that's regularly redeployed, FoI is always "ambient air", but could be in various places (e.g. Dryer, Truck...)



How to provide examples, patterns of using SOSA. Cannot be normative, as existing practices must be supported. OGC Building Blocks allow provision of profiles (e.g. SHACL Graphs), then communities could indicate which profile of SOSA they're applying

7/09/2023 - notes

Attendees

- Rob Warren
- Kathi Schleidt
- Linda Van Den Brink
- Rob Atkinson
- Sylvain Grellet
- Simon Cox

Apologies

-

Meeting notes

Report from Simon Cox about github tickets.

- Labels are being refactored, a number of legacy items from outdated W3C processes were removed. A number of obvious tags were added related to basic operations “help wanted” and functional parts of the SOSA.
- Review of PR items. Reorganization of repository structure and redundant information as per issue [#86](#)
 - rdf directory contains the mappings and to be called mappings
 - ssn_seperated will move to ssn-dul
 - Duplicated versions of sosa.rdf / sosa.html will be removed.
 - Informal approval of changes by show of hands. A pull-request will follow for formal approval.
- Review of pull [#91](#), axioms erroneously part of the wrong files.
 - Sosa.ttl to ssn.ttl
- Sylvain asks about issue [#48](#) about sosa namespace and ssn namespaces.
 - Confusion about the name space and the graphs.
 - The ssn does contain elements that aren't in sosa and contains entire axiomatization.
 - Also covered by PR [#92](#).
 - Concerned about the effects of changes on outside people.
 - Discussion about modularization versus one-file-for-all and how it will be perceived by others.
- Rob Atkinson asks what axioms are missing to implement OMS
- Kathi Schleidt asks abouts [#56](#). We'd agreed that SOSA:Platform = OMS:Host, how to represent (as annotation?)
- #91 and #92 to be updated by Simon Cox according to conversations.
- Rob Warren to make a few slides about edges cases next meeting.

24/08/2023 - notes

Attendees

- Rob Atkinson
- Linda Van Den Brink
- Alejandro Villar
- Bert Bos
- Kathi Schleidt
- Sam Bolling
- David Archer

Actions from last meeting:

Bert looked into moving the issues from sdw repo to sosa/ssn repo: no way to do bulk transfer, but will move them by hand. New urls will redirect to old ones. Bert will also move the submodule.

[Accepted PR](#) discussed by Rob and Kathi. Concerns that PR contained things that may need to be picked out again.

Proposal to link ssn classes to OMS using a documentation property.

Key thing moving forward is regression testing, as we don't want to break things. So creating examples is necessary.

[Linda stopped taking notes here, with meeting half way]

Discussion of issue

"Document the alignment of SOSA with OMS on a class-by-class basis #1431"

<https://github.com/w3c/sdw/issues/1431>

Decided we need to have a consistent approach to referencing OMS to address issues of transparency, a PR to remove OMS "Host" as a class and replace with a reference to the OMS usage/terminology can be used to test the pattern with the wider audience.

Action: RA to generate a PR with a proposal for referencing OMS conformance classes and show alternative labels. This will then free up group to remove sosa:Host as an unnecessary synonym.

Action: KS to lodge OMS URI set into SOSA repository - done

10/08/2023 - notes

Attendees

- Simon Cox
- Rob Atkinson
- Linda Van Den Brink
- Alejandro Villar
- Sylvain Grellet

Apologies

- *Kathi Schleidt*

Meeting notes

Actions from last meeting:

RA chase Bert re issue migration

Not progressed (c'mon Bert!)

Also set up gh-pages build (Done - thanks Linda)

RA to transfer SOSA content

Content moved to <https://github.com/w3c/sdw-sosa-ssn>

and create branch on main repo (to retain history)

- Branch created <https://github.com/w3c/sdw/tree/prior-to-ssn-submodule>

and remove from master.

Ready to go?

Actions:

1. Notify mailing list that the working repository is now <https://github.com/w3c/sdw-sosa-ssn>
2. Notify the mailing list that Alex's updates have been applied so they can now be discussed in separate issues
3. Transfer issues (Bert?)
4. Set up repo to build from gh-pages (Done - thanks Linda)
5. Change references to 'editor's draft' in /sdw/ repo to point to new repo (Done - Linda)

We discussed the nature of the process from the original SSN development. A consensus is that we should aim for a more systematic approach now. Alignment with the new ISO standard

(OMS) is the primary goal, as well as accommodating the additional requirements from the remote-sensing community.

Backward compatibility with 2017 ontology is essential, particularly in view of the large deployments through KnowWhereGraph. Test cases must be sought from KnowWhereGraph (Jano).

Action: Set up example validation actions (AV + RA)

Action: Add ObservationCollection logical consistency tests as SHACL and integrate with validation process (AV + RA)

Action: review validation mechanism and ObservationCollection implementations (SC + RA)

Action: Request regression test examples from original contributors and other implementing stakeholders

Action: solicit KnowWhereGraph test cases from Jano

Decision is to focus on Use Cases motivations for updates and extensions to SOSA and reference original UCR document @

<https://w3c.github.io/sdw/UseCases/SDWUseCasesAndRequirements.html#NominalObservations>

27/07/2023 - notes

Attendees

- Simon Cox
- Rob Atkinson
- Kathi Schleidt
- Linda Van Den Brink
- Alejandro Villar
- Sylvain Grellet
- Rob Warren

Meeting notes

- Work organisation

New repository <https://github.com/w3c/sdw-sosa-ssn>

This is now submodule linked into sdw

Sync will need to be organised

Alejandro Villar and Rob to ensure this is correctly set

<https://github.com/w3c/sdw/issues?q=is%3Aissue+is%3Aopen+label%3Assn>

GitHub Project: <https://github.com/w3c/sdw/projects/3>

Actions:

RA chase Bert re issue migration

RA to transfer SOSA content

Content moved to <https://github.com/w3c/sdw-sosa-ssn>
and create branch on main repo (to retain history) and remove from master.

- Branch created <https://github.com/w3c/sdw/tree/prior-to-ssn-submodule>

Alejandro Villar and Rob to ensure this is correctly set

Ttl online validator: <http://ttl.summerofcode.be/>

Notepad++ ttl validator:

https://github.com/notepad-plus-plus/userDefinedLanguages/blob/master/UDLs/Turtle-RDF_byEranckMichel.xml

Drivers (from Simon):

1. alignment with OMS (ISO 19156:2023)
2. Alex's needs (I'm not quite sure what the key concerns are)
3. the outstanding issues from the SDW project

How will we accommodate W3C people who expect an activity to start with a Use Cases and Requirements document?

(perhaps we should check if that applies to a revision)

Google doc chat :)

- Let's chat here

01/06/2023 - notes

Connexion link

OGC calendar item now active:

https://portal.ogc.org/?m=calendar&a=view&event_id=82244

Attendees

- Sylvain : see my email on the webconf link, do we meet ?

18/05/2023 - notes

Attendees

Robert Warren, Rob Atkinson, Josh Lieberman

As no OMS or CS folk showed up had a brief chat - Robert W. has some cases from agriculture traceability that may require addressing in SOSA or some related extension. Request for example cases made.

Action: RA to chase W3C contacts and try to fix the zoom meeting link!

04/05/2023 - notes

Attendees

- xyz

13/04/2023 - notes

Attendees

- Jérémy
- Alex
- Linda
- Others ?

- 1). Speak with XXXX about having Observer as a System.
- 2). Jeremy: Could you stack up a host to be something like a research observation mission or an organization. Alex: If you want to be a host and a system, then you are a platform. Alex: Any kind a group of observers is a host, in OMS.
- 3). Specific types of procedures are also new. SOSA/SSN only had one kind of procedure. OMS had 3 (preparation, sampling, observing) , and Alex added "Actuation Procedure". Had to modify some associations to be more specific.
- 4). Different kinds of samples.
- 5). No need to change URI's in SOSA. But we did need to make some associations more specific.
- 6). In connected systems, we mostly use the URIs of the concepts. Not the associations. But we do want to be careful of the associations already used by others.
- 7). Discussion of the general concept of "Procedure". Do we bring the new classes that need constraints on procedures? "Neat and tidy make work": Jeremy Tandy. Trust that people will sensibly use the procedures you put in place. If not, treat as a an errata that can be fixed later. Alex; Let's not break what is there, as it relates to procedures and their constraints.
- 8). Between the observer and the sampler - clarification by Alex.
- 9). Observer class is new
- 10). Linda; The other question to whether we can discuss the relationship between observer, sensor, host and platform and see if we can get the OMS people to clarify.

Additionally, here is the GitHub Pull Request Alex just created that reflects the work discussed today:

<https://github.com/w3c/sdw/pull/1402>

TODOs :

- Semantics

- SOSA update
 - After OM -> OMS revision
 - Are there any pending change requests to SOSA/SSN (apart from those related to OMS) ?
 - Open issues:
 - <https://github.com/w3c/sdw/issues?q=is%3Aissue+is%3Aopen+label%3Assn> and
 - <https://github.com/w3c/sdw/issues?q=is%3Aissue+is%3Aopen+label%3Assn-ext>
 - Are there any extensions awaiting to be brought back to SOSA/SSN ?
 - <https://www.w3.org/TR/vocab-ssn-ext/>
 - Other ?
 - Update SOSA/SSN for OMS, updating the ontology to include OMS concepts - achieving a **backward compatible** approach
 - Observable Properties model(s?)
 - I-ADOPT, other ?
 - See discussion at <https://github.com/w3c/sdw/blob/observables/proposals/ObservablePropertiesRegister.md>
 - Alex has a plan for this in Connected Systems that he can share with the group.
 - ? Serializations ?
 - JSON, JSON-LD encodings (context) for OGC API building blocks
 - NB - OGC COSI demonstrated the Building Blocks pattern for linking schemas and ontologies.
 -
 - BuildingBox repository design, automation (build) in testing - SOSA building blocks started here:
 - <https://github.com/opengeospatial/ogcapi-sosa>

Noting that there are also SOSA users within W3C: the Web of Things working group are using it in Thing Description.

-> @Linda : will there be a call for participants to catch those one as well ?

OGC will work on mechanisms - testing and document generation, playgrounds, reference implementation deployment support etc.

Action: Rob to distribute Building Block design pattern and template - and set up for SOSA

In progress: <https://github.com/opengeospatial/bblock-template>

Tool chain: Rob will bring back a recommendation.

Rob. Observations as Features, as a building block. Alex: This needs to be done in the OMS working group? For OWL to GeoJSON or FG-JSON.

In progress:

<https://github.com/opengeospatial/ogcapi-sosa>

GitHub issues categorized 27/07/2023

<https://docs.google.com/spreadsheets/d/1VXP-1YYcVJiKNNosJ7uS422wVq7eaSQPq-iM4bksi9s/edit#gid=0>

Split by topics:

- Collections (both Observation and Sample)
 - SOSA: SampleCollection #1417 <https://github.com/w3c/sdw/issues/1417>
 - SOSA: Observation Collection #1416 <https://github.com/w3c/sdw/issues/1416>
 - Sample Collections #1282 <https://github.com/w3c/sdw/issues/1282>
 - SSN-Ext: ObservationCollection-Collections? #1255 <https://github.com/w3c/sdw/issues/1255>
 - Allow hasResult on ObservationCollection #1164 <https://github.com/w3c/sdw/issues/1164>
 - Relax cardinality of hasUltimateFeatureOfInterest on ObservationCollection <https://github.com/w3c/sdw/issues/1163>
 - Add Datastream example to ObservationCollection proposal #1043 <https://github.com/w3c/sdw/issues/1043>
 - Homogeneity of an ObservationCollection #1028 <https://github.com/w3c/sdw/issues/1028>
 - Alignment of ObservationCollection to Datastream #1026 <https://github.com/w3c/sdw/issues/1026>
- HostPlatformSensor:

See

<https://github.com/w3c/sdw-sosa-ssn/issues?q=is%3Aissue+is%3Aopen+label%3Aplatform-host-system>

- SOSA: what's the difference between Platform and Host? #1424 <https://github.com/w3c/sdw/issues/1424>
- SOSA: madeOnHost association bad english #1423 <https://github.com/w3c/sdw/issues/1423>
- Should Platform be a subclass of System? #1411 <https://github.com/w3c/sdw/issues/1411>
- Should Observer and Host classes be equivalent to or superclass of Sensor and Platform? #1408 <https://github.com/w3c/sdw/issues/1408>

- Change prefLabel of sosa:Sensor to 'Observer' #1177
<https://github.com/w3c/sdw/issues/1177>
- ObsProp/Procedure:
 - SOSA: ObservableProperty approaches #1418
<https://github.com/w3c/sdw/issues/1418>
 - SOSA: Muddled ObservableProperty #1415
<https://github.com/w3c/sdw/issues/1415>
 - Add association between ObservingProcedure and ObservableProperty #1412
<https://github.com/w3c/sdw/issues/1412>
 - How should we handle associations to specialized Procedure classes? #1409
<https://github.com/w3c/sdw/issues/1409>
 - linking observableProperty with 'potential' Procedure #1401
<https://github.com/w3c/sdw/issues/1401>
 - modeling units on properties instead of results [SOSA/SSN] #1267
<https://github.com/w3c/sdw/issues/1267>
 - SSN-Ext: relationship between results and values of observedProperties #1256
<https://github.com/w3c/sdw/issues/1256>
 - Add SSN hasProperty to SOSA namespace #1006
<https://github.com/w3c/sdw/issues/1006>
- Namespace
 - SOSA: handle issues with ssn or ssn-ext label? #1419
<https://github.com/w3c/sdw/issues/1419>
 - Should we merge SSN and SOSA into a single namespace? #1413
<https://github.com/w3c/sdw/issues/1413>
 - sosa or sosa-ext for SOSA/SSN Extensions? #1245
<https://github.com/w3c/sdw/issues/1245>
- Documentation/Example
 - Document the alignment of SOSA with OMS on a class-by-class basis #1431
<https://github.com/w3c/sdw/issues/1431>
 - Documentation and example validation CI/CT/CD #1420
<https://github.com/w3c/sdw/issues/1420>
 - Dead link: Section 6.3.1 "official OWL implementation of ISO 19156 (O&M)..."
<https://github.com/w3c/sdw/issues/1260>
 - Minor error in SOSA example #1258 <https://github.com/w3c/sdw/issues/1258>
 - Sample modeling in sosa/ssn #1122 <https://github.com/w3c/sdw/issues/1122>
- Admin
 - Investigate impact for any proposed breaking changes #1410
<https://github.com/w3c/sdw/issues/1410>
 - Should Observer and Host classes be equivalent to or superclass of Sensor and Platform? #1408 <https://github.com/w3c/sdw/issues/1408>
 - iso 19156 URIs vs SSN/SOSA URIs #1372
<https://github.com/w3c/sdw/issues/1372>
 - SSN-Ext: relationship between results and values of observedProperties #1256
<https://github.com/w3c/sdw/issues/1256>

- Change prefLabel of sosa:Sensor to 'Observer' #1177
<https://github.com/w3c/sdw/issues/1177>