TITLE: TimeSeriesML 1.0 Standards Working Group Charter

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CATEGORY: SWG Charter

General Call to be included in the participation announcement.

To: OGC members & interested parties

The OGC TimeSeriesML 1.0 Standards Working Group is starting work on TimeSeriesML 1.0. The OGC members listed below have proposed forming the OGC TimeSeriesML 1.0 SWG. The SWG proposal provided in this document meets the requirements of the OGC TC Policies and Procedures.

The SWG name, statement of purpose, scope, list of deliverables, audience, and language specified in the proposal will constitute the SWG's official charter. Technical discussions may occur no sooner than the SWG's first meeting.

This SWG will operate under the OGC 2009 IPR Policy. The eligibility requirements for becoming a participant in the SWG at the first meeting (see details below) are that:

(a) you must be an employee of an OGC member organization or an individual
member of OGC;

(b) the OGC member must have signed the OGC membership agreement;

(c) you must notify the SWG chair of your intent to participate in the first meeting. Members may do so by navigating to:

<https://portal.opengeospatial.org/index.php?m=public&orderby=default&tab=6> and joining the SWG and

(d) you must attend meetings of the SWG. The first meeting of this SWG is at the time and date fixed below. Attendance may be by teleconference.

Of course, participants also may join the SWG at any time. The OGC and the SWG welcomes all interested parties.

Non-OGC members who wish to participate may contact us about joining the OGC. In addition, the public may access some of the resources maintained for each SWG: the SWG public description, the SWG Charter, Change Requests, and public comments, which will be linked from the SWG’s page.

Please feel free to forward this announcement to any other appropriate lists. The OGC is an open standards organization; we encourage your feedback.

# TimeSeriesML 1.0 Standards Working Group

TimeSeriesML 1.0 is a proposed Open Geospatial Consortium encoding standard for the representation of time series observations data. The work activities defined in this charter are inspired by the OGC change request 13-123 (<https://portal.opengeospatial.org/files/?artifact_id=56304>) concerning the repackaging of current standard WaterML 2.0 Part 1.

It is intended that TimeSeriesML 1.0 will be implemented as an application schema of the Geography Markup Language version 3.3 and make use of the OGC Observations and Measurements (O&M) standard and the OMXML GML Application Schema.

# Purpose of this Standards Working Group

The purpose of this Standards Working Group is to develop and propose a candidate standard for TimeSeriesML and progress it to the state of an adopted OGC Standard. This goal will be achieved by conducting a review of WaterML 2.0 Part 1, developing and publishing a draft standard, processing comments received during a public comment period and ensuring that the standard is consistent with the OGC Standards Baseline and Business Plan.

# Scope of Work

This SWG is focused on the development of a TimeSeriesML 1.0 candidate standard submission, coordinating a public comment period, and processing any comments received during this period. The final deliverable of the SWG will be a version of the candidate standard for consideration by the OGC membership for approval as an OGC standard.

## What is out of scope?

While OGC standard services, such as WFS and SOS, are the preferred mechanism for exchanging information, TimeSeriesML 1.0 will not specify a specific transport mechanism or service interface. However, members of the SWG will assess the compatibility of the draft TimeSeriesML 1.0 with existing OGC services such as WFS and SOS.

Following the development of the standard this SWG will focus only on processing comments received during the 30 day public comment period. Separately submitted Change Requests are out of scope, and will only be considered at the discretion of the SWG.

## Specific contribution of existing work as a starting point

The starting point for the work will be the OGC change request 13-123 and the already standardised WaterML 2.0 Part 1. TimeSeriesML 1.0 shall satisfy the core (non-hydrology) requirements and implementation patterns from WaterML 2.0 Part 1 and should include both domain-range and time-value-pair style implementations.

## When is the work of the SWG complete?

The work of the SWG will be complete when:

* A draft standard has been developed and circulated for comments
* All comments submitted during the 30 day public comment period have been dealt with to the satisfaction of the SWG.
* The SWG approves the TimeSeriesML 1.0 Candidate Standard and Abstract Test Suite (ATS) document, for submission to the TC for approval as an adopted standard.
* The candidate standard has been approved by the OGC Technical and Planning Committees as an Adopted OGC standard.

# Statement of Relationship of Planned Work to the Current OGC Standards Baseline

This work is intended to be aligned with the existing OGC standards baseline where appropriate.

# Description of Deliverables

The following deliverables will result from the work of this SWG:

* A draft version of the TimeSeriesML 1.0 for comment
* An annotated list of all comments submitted during the 30 day public comment period, including the comment, submitter, rationale, comment type/priority, and the response of the SWG.
* A final version of the TimeSeriesML 1.0 Standard and ATS documents for submission to the TC.

The following schedule of activities is planned:

* SWG startup. 2014 September
* OAB/ONA RFC review; SWG prepares candidate standard for vote for public release. 2015 March
* SWG votes to release TimeSeries 1.0 for public comment. 2015 April
* OGC staff develops PR and announces availability for public comment. 2015 April
* 30-day public comment period. 2015 April -May
* SWG collects and collates comments into a single document. 2015 June
* SWG discusses and votes on comments and makes resulting edits towards final TimeSeriesML 1.0 candidate standard. 2015 June
* SWG votes to approve release of TimeSeriesML 1.0 candidate standard for approval as an OGC adopted standard. 2015 June
* 60 day IPR review period and associated TC e-vote to approve TimeSeriesML 1.0 candidate standard as an OGC adopted standard. 2015 June – August

# IPR Policy for this SWG

RAND-Royalty Free.

# Anticipated Participants

The target audience/participants of TimeSeriesML 1.0 includes: application developers; GIS and software vendors; the meteorologic and hydrologic research and education community; and the consumer.

Development of TimeSeriesML 1.0 will be undertaken by the following OGC members:

a) Australian Commonwealth Scientific and Industrial Research Organisation (CSIRO)

b) Australian Bureau of Meteorology (BoM)

c) Météo-France

d) Met Office

e) Kisters

f) Environment Canada

g) US National Weather Service

h) Landcare Research New Zealand Ltd

It is envisaged that these organization, at least, will participate in the SWG.

# Other informative information about the work of this SWG

## Similar or applicable standards work (OGC and elsewhere)

The following standards and projects may be relevant to the SWG's planned work, although none currently provide the functionality or domain focus anticipated by this committee's deliverables:

WaterML2.0 - part 1: TimeSeries

OGC Observations and Measurements 2.0, OGC AS Topic 20 (also ISO DIS 19156:2010)

OGC Geography Markup Language v3.3 (also ISO 19136:2007)

OGC Observations and Measurements XML (OMXML) Encoding Standard

OGC SWE Common Data Model 2.0

ISO 19109:2005 Geographic Information – Rules for application schema

ISO 19110:2005 Geographic Information – Methodology for feature cataloguing

The SWG intends to seek and if possible maintain liaison with each of the organizations maintaining the above works.

## Details of the first meeting

The first meeting of the committee will be late September, early October 2014. Call-in information will be provided to the SWG's e-mail list and on the portal calendar in advance of the meeting. The main items of business will be to select (co-) chair(s) for the SWG, and the primary editor for the standard, and agree on a schedule of work, including regular meetings if required.

## Projected on-going meeting schedule

The work of the committee will be carried out primarily by email and conference calls. Scheduling of conference calls will be determined by the chair. Face-to-face meetings are not planned.

## Supporters of the Proposal

The following people support this proposal and are committed to the Charter and projected meeting schedule. These members are known as SWG Founding or Charter members. Once the SWG is officially activated, this group is immediately “opted-into” the SWG and have voting rights from the first day the SWG is officially formed. Extend the table as necessary.

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| --- | --- |
| Name | Organization |
| James Tomkins | Met Office |
| Peter Taylor | CSIRO |
| Tony Boston | Australian Bureau of Meteorology |
| Dominic Lowe | Australian Bureau of Meteorology |
| Frédéric Guillaud | Météo-France |
| Bruce Bannerman | Australian Bureau of Meteorology |
| Michael Utech | Kisters |
| Michael Natschke | Kisters |
| James Doyle | Environment Canada |
| Jack Lindsey | Environment Canada |
| Paul Hershberg | US National Weather Service |
| Alistair Ritchie | Landcare Research New Zealand |
| Christopher Thorne | Environment Canada |

# Bibliography

IETF RFC 2616, Hypertext Transfer Protocol – HTTP/1.1. (June 1999)

ISO 8601:2004, Data elements and interchange formats — Information interchange —
Representation of dates and times.

ISO 19101:2002. Geographic information -- Reference model

ISO 19107:2003, Geographic Information — Spatial schema.

ISO 19111:—1), Geographic Information — Spatial referencing by coordinates.

OGC 07-136, OGC Geography Markup Language

OGC 10-129r1, OGC Geography Markup Language Version 3.3

OGC 10-004r3, OGC Observations and Measurements v2.0

OGC 00-014r1, Guidelines for Successful OGC Interface Specifications

OGC Document 08-095r5 - Hydrology Domain Working Group Charter, 26th April 2008 updated 2

OGC Document 10-126r4 OGC WaterML2.0: Part 1 - timeseries

OGC Document 09-124r2 - Harmonising Standards for Water Observation Data (OGC Discussion Paper)