

# Naming of OGC API Standards, Repositories & Specification Elements

# Open Geospatial Consortium

Submission Date: YYYY-MM-DD

Approval Date: YYYY-MM-DD

Publication Date: YYYY-MM-DD

External identifier of this OGC® document: <http://www.opengis.net/doc/ZZZ/API-1/n.n>

Internal reference number of this OGC® document: 20-059

Version: n.n

Category: OGC® Policy

Editor: Gobe Hobona

## Naming of OGC API Standards, Repositories & Specification Elements

### Copyright notice

Copyright © 2020 Open Geospatial Consortium

To obtain additional rights of use, visit <http://www.opengeospatial.org/legal/>

### Warning

This document defines a **draft** OGC Policy. It is subject to change without notice. This document is **not** an official position of the OGC membership on this particular topic.

Recipients of this document are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Document type: OGC® Policy

Document subtype: Name Type Spec

Document stage: Draft

Document language: English

## License Agreement

Permission is hereby granted by the Open Geospatial Consortium, ("Licensor"), free of charge and subject to the terms set forth below, to any person obtaining a copy of this Intellectual Property and any associated documentation, to deal in the Intellectual Property without restriction (except as set forth below), including without limitation the rights to implement, use, copy, modify, merge, publish, distribute, and/or sublicense copies of the Intellectual Property, and to permit persons to whom the Intellectual Property is furnished to do so, provided that all copyright notices on the intellectual property are retained intact and that each person to whom the Intellectual Property is furnished agrees to the terms of this Agreement.

If you modify the Intellectual Property, all copies of the modified Intellectual Property must include, in addition to the above copyright notice, a notice that the Intellectual Property includes modifications that have not been approved or adopted by LICENSOR.

THIS LICENSE IS A COPYRIGHT LICENSE ONLY, AND DOES NOT CONVEY ANY RIGHTS UNDER ANY PATENTS THAT MAY BE IN FORCE ANYWHERE IN THE WORLD.

THE INTELLECTUAL PROPERTY IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE DO NOT WARRANT THAT THE FUNCTIONS CONTAINED IN THE INTELLECTUAL PROPERTY WILL MEET YOUR REQUIREMENTS OR THAT THE OPERATION OF THE INTELLECTUAL PROPERTY WILL BE UNINTERRUPTED OR ERROR FREE. ANY USE OF THE INTELLECTUAL PROPERTY SHALL BE MADE ENTIRELY AT THE USER'S OWN RISK. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR ANY CONTRIBUTOR OF INTELLECTUAL PROPERTY RIGHTS TO THE INTELLECTUAL PROPERTY BE LIABLE FOR ANY CLAIM, OR ANY DIRECT, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM ANY ALLEGED INFRINGEMENT OR ANY LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR UNDER ANY OTHER LEGAL THEORY, ARISING OUT OF OR IN CONNECTION WITH THE IMPLEMENTATION, USE, COMMERCIALIZATION OR PERFORMANCE OF THIS INTELLECTUAL PROPERTY.

This license is effective until terminated. You may terminate it at any time by destroying the Intellectual Property together with all copies in any form. The license will also terminate if you fail to comply with any term or condition of this Agreement. Except as provided in the following sentence, no such termination of this license shall require the termination of any third party end-user sublicense to the Intellectual Property which is in force as of the date of notice of such termination. In addition, should the Intellectual Property, or the operation of the Intellectual Property, infringe, or in LICENSOR's sole opinion be likely to infringe, any patent, copyright, trademark or other right of a third party, you agree that LICENSOR, in its sole discretion, may terminate this license without any compensation or liability to you, your licensees or any other party. You agree upon termination of any kind to destroy or cause to be destroyed the Intellectual Property together with all copies in any form, whether held by you or by any third party.

Except as contained in this notice, the name of LICENSOR or of any other holder of a copyright in all or part of the Intellectual Property shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Intellectual Property without prior written authorization of LICENSOR or such copyright holder. LICENSOR is and shall at all times be the sole entity that may authorize you or any third party to use certification marks, trademarks or other special designations to indicate compliance with any LICENSOR standards or specifications. This Agreement is governed by the laws of the Commonwealth of Massachusetts. The application to this Agreement of the United Nations Convention on Contracts for the International Sale of Goods is hereby expressly excluded. In the event any provision of this Agreement shall be deemed unenforceable, void or invalid, such provision shall be modified so as to make it valid and enforceable, and as so modified the entire Agreement shall remain in full force and effect. No decision, action or inaction by LICENSOR shall be construed to be a waiver of any rights or remedies available to it.

# Table of Contents

1. Scope .....	5
2. Conformance .....	6
3. References .....	7
4. Terms and Definitions .....	8
4.1. <b>specification</b> .....	8
4.2. <b>standard</b> .....	8
4.3. <b>Web API</b> .....	8
5. Conventions .....	9
6. Naming of OGC API Standards, Repositories & Specification Elements .....	10
6.1. Repositories .....	10
6.2. Standards .....	10
6.3. Requirements Classes .....	10
6.4. Requirements .....	11
6.5. Conformance Classes .....	11
6.6. Abstract Tests .....	11
6.7. Definitions of the standards .....	11
6.8. Link Relation Types .....	11
6.9. Media Types .....	12
6.10. Abbreviation of names .....	12
Annex A: Revision History .....	13

## i. Abstract

This document is a **draft** policy of the OGC Naming Authority (OGC-NA), a sub-committee of the OGC Technical Committee. The document defines a series of policy requirements for OGC API standards, repositories, definitions, name abbreviations, and specification elements. The policy document is intended to be a specialisation of the OGC-NA [policy](#) on naming specification elements (OGC 10-103).

Upon approval of this policy, OGC staff shall proceed to change the names of the Git repositories to conform to the policy.

## ii. Keywords

The following are keywords to be used by search engines and document catalogues.

ogcdoc, OGC document, policy, naming authority, OGC API

## iii. Preface

This document defines a series of policy requirements for OGC API standards, repositories and specification elements. It is subject to change without notice.

## iv. Submitting organizations

The following organizations submitted this Document to the Open Geospatial Consortium (OGC):

Organization name(s)

Open Geospatial Consortium

## v. Submitters

All questions regarding this submission should be directed to the editor or the submitters:

*Table 1. Contacts*

Name	Affiliation
Gobe Hobona	OGC
Scott Simmons	OGC
Clemens Portele	interactive instruments

# Chapter 1. Scope

This policy document applies to OGC API standards, repositories, definitions, name abbreviations, and specification elements. Within the context of this policy, the term 'specification elements' refers to:

- Requirements Classes
- Requirements
- Conformance Classes
- Abstract Tests

# Chapter 2. Conformance

This policy defines a series of policy requirements for OGC API standards.

Conformance with this policy shall be checked manually through review, or through automation where possible.

# Chapter 3. References

OGC: OGC 05-020r25, Technical Committee Policies and Procedures, <http://docs.opengeospatial.org/pol/05-020r25/05-020r25.html> (2017)

OGC: OGC 09-046r5, OGC Naming Authority – Procedures, <http://www.opengeospatial.org/standards/na> (2018)



# Chapter 4. Terms and Definitions

This document uses the terms defined in Sub-clause 5.3 of [OGC 06-121r8], which is based on the ISO/IEC Directives, Part 2, Rules for the structure and drafting of International Standards. In particular, the word “shall” (not “must”) is the verb form used to indicate a requirement to be strictly followed to conform to this standard.

For the purposes of this document, the following additional terms and definitions apply.

## 4.1. specification

document containing recommendations, requirements and conformance tests for those requirements

## 4.2. standard

specification that has been approved by a legitimate Standards Body ([OGC 08-131r3](#))

## 4.3. Web API

API using an architectural style that is founded on the technologies of the Web [DWBP](#)

### NOTE

[Best Practice 24: Use Web Standards as the foundation of APIs](#) in the [W3C Data on the Web Best Practices](#) provides more detail.

# Chapter 5. Conventions

This document uses the normative terms (SHALL, SHOULD, etc) defined in Subclause 5.3 of [OGC 06-121r3], which is based on the ISO/IEC Directives, Part 2: Rules for the structure and drafting of International Standards. In particular, the word 'shall' (not 'must') is the verb form used to indicate a requirement to be strictly followed to comply with this specification.

# Chapter 6. Naming of OGC API Standards, Repositories & Specification Elements

This section presents the normative clauses of this policy. It should be noted that the clauses relating to specification elements maintain consistency with the [OGC-NA Name type specification - specification elements \(10-103\)](#) policy.

## 6.1. Repositories

This policy document acknowledges that SWGs will create one or more Git repositories on GitHub, Gitlab or other service. To ensure consistency in the naming of Git repositories, SWGs shall be required to name the repositories as follows:

- <https://github.com/opengeospatial/ogcapi-{resourceName}>

The parameter {resourceName} shall be the plural of the name of the type of resource. For example, <https://github.com/opengeospatial/ogcapi-features>

## 6.2. Standards

Many of the emerging and existing OGC API standards are multi-part standards. This policy document acknowledges that the SWGs will have to plan to accommodate future extensions into their naming of standards. To ensure consistency in the naming of standards and their extensions, SWGs shall be required to name the standards as follows:

- OGC API - {resourceName} - Part n: {Topic}

The parameter {resourceName} shall be the plural of the name of the type of resource. 'n' refers to the position of the document in the multi-part standard and shall always be greater than zero. {Topic} refers to the topic or theme of the standard. For example, OGC API - Common - Part 1: Core

The first in the sequence of parts shall always be reserved for the 'Core' standard and therefore Part 1 is reserved for the 'Core' standard.

## 6.3. Requirements Classes

The base namespace of Requirements Classes shall indicate the Part number {n} and Version number {v} of the standard as follows. The requirements class shall be indicated by the {reqClass} segment(s) to the right of the '/req' segment.

- <http://www.opengis.net/spec/ogcapi-{resourceName}-{n}/{v}/req/{reqClass}>

For example, <http://www.opengis.net/spec/ogcapi-processes-1/1.0/req/core>

## 6.4. Requirements

The base namespace of Requirements shall indicate the Part number {n} and Version number {v} of the standard as follows. The requirement shall be indicated by the {req} segment(s) to the right of the '/req' segment.

- <http://www.opengis.net/spec/ogcapi-{resourceName}-{n}/{v}/req/{reqClass}/{req}>

For example, <http://www.opengis.net/spec/ogcapi-tiles-1/1.0/req/core/root-success>

## 6.5. Conformance Classes

The base namespace of Conformance Classes shall indicate the Part number {n} and Version number {v} of the standard as follows. The conformance class shall be indicated by the {confClass} segment(s) to the right of the '/conf' segment.

- <http://www.opengis.net/spec/ogcapi-{resourceName}-{n}/{v}/conf/{confClass}>

For example, <http://www.opengis.net/spec/ogcapi-coverages-1/1.0/conf/core>

## 6.6. Abstract Tests

The base namespace of Abstract Tests shall indicate the Part number {n} and Version number {v} of the standard as follows. The conformance test shall be indicated by the {test} segment(s) to the right of the '/ats' segment.

- <http://www.opengis.net/spec/ogcapi-{resourceName}-{n}/{v}/conf/{confClass}/{test}>

## 6.7. Definitions of the standards

The OGC-NA maintains URIs for definitions of several standards, for example [OGC API - Features](#), Sensor Observation Service (SOS) and so forth. To formalize the namespace used for the definitions, this policy states that the URIs of definitions of OGC API standards shall be of the form:

- <http://www.opengis.net/def/interface/ogcapi-{resourceName}>

Note that this clause maintains consistency with the [OGC Name Type Specification - definitions - part 1 – basic name \(09-048r5\)](#) policy.

## 6.8. Link Relation Types

The OGC-NA maintains a register for link relation types at <https://www.opengis.net/def/rel>.

Every link relation type used in an OGC standard shall be registered in the OGC link relation type register.

For link relation types registered outside of the authority "iana", the definition URI shall be used as the value of the `rel` property of the link. For example, <http://www.opengis.net/def/rel/ogc/1.0/>

## 6.9. Media Types

The OGC-NA maintains a register for media types at <https://www.opengis.net/def/media-type>.

Every media type used in an OGC standard

- shall be registered in the OGC media type register,
- shall include a notation property, and
- should be registered in the IANA register.

## 6.10. Abbreviation of names

This policy document specifies restrictions on abbreviations of names of OGC API standards, due to the utility of such abbreviations in shortened URIs, hashtags and similar identifiers.

The abbreviated form of the names of OGC API standards shall follow the template OA{zzz[z]}. The parameter {zzz[z]} shall be a 3-letter or 4-letter abbreviation of the resource offered by the API or the acronym of the standard as shown below:

- OACom (for OGC API - Common)
- OACov (for OGC API - Coverages)
- OAEDR (for the Environmental Data Retrieval API)
- OAFeat (for OGC API - Features)
- OAMap (for OGC API - Maps)
- OAProc (for OGC API - Processes)
- OARec (for OGC API - Records)
- OASTyl (for OGC API - Styles)
- OATile (for OGC API - Tiles)

# Annex A: Revision History

Date	Release	Editor	Primary clauses modified	Description
2020-06-03	0.1	Gobe Hobona	all	Initial text
2020-06-19	0.2	Clemens Portele	multiple	Added sections on registers and fixed sections on URIs