Naming of OGC API Standards, Repositories & Specification Elements

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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
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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