



# OGC API - ENVIRONMENTAL DATA RETRIEVAL STANDARD - PART 3: PROFILES

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STANDARD  
Implementation

DRAFT

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**Editor:** Mark Burgoyne, Charles Heazel

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## ABSTRACT

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<Insert Abstract Text here>



## KEYWORDS

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

ogcdoc, OGC document, API, openapi, html



## PREFACE

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The aim of an OGC API EDR profile is to ensure interoperability between API implementations. To achieve this, it is essential that providers use a consistent approach when defining collections and instances of collections. An OGC EDR profile will specify a set of requirements that an API implementation must support to be a compliant implementation.

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## SECURITY CONSIDERATIONS

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No security considerations have been made for this Standard.





## SUBMITTING ORGANIZATIONS

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

- UK Met Office
- Heazeltech



## SUBMITTERS

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

Name	Affiliation



## CONTRIBUTORS

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Additional contributors to this Standard include the following:

Individual name(s), Organization



# PREFACE





# PREFACE

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**NOTE:** Insert Preface Text here. Give OGC specific commentary: describe the technical content, reason for document, history of the document and precursors, and plans for future work. > Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. The Open Geospatial Consortium shall not be held responsible for identifying any or all such patent rights.

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1

# SCOPE

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**NOTE:** Insert Scope text here. Give the subject of the document and the aspects of that scope covered by the document.



2

# CONFORMANCE

---

This standard defines XXXX.

Requirements for N standardization target types are considered:

- AAAA
- BBBB

Conformance with this standard shall be checked using all the relevant tests specified in Annex A (normative) of this document. The framework, concepts, and methodology for testing, and the criteria to be achieved to claim conformance are specified in the OGC Compliance Testing Policies and Procedures and the OGC Compliance Testing web site.

In order to conform to this OGC® interface standard, a software implementation shall choose to implement:

- Any one of the conformance levels specified in Annex A (normative).
- Any one of the Distributed Computing Platform profiles specified in Annexes TBD through TBD (normative).

All requirements-classes and conformance-classes described in this document are owned by the standard(s) identified.



3

# NORMATIVE REFERENCES

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The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO: ISO 19106, *Geographic information – Profiles*. International Organization for Standardization, Geneva <https://www.iso.org/standard/26011.html>.

OGC API – Environmental Data Retrieval Standard

The ModSpec Model – Part 1: Core – A Standard for Designing and Writing Modular Standards

OpenAPI Initiative (OAI). **OpenAPI Specification 3.0** [online]. 2020 [viewed 2025-01-03]. The latest patch version at the time of publication of this standard was 3.0.4, available at <https://spec.openapis.org/oas/v3.0.4>

OpenAPI Initiative (OAI). **OpenAPI Specification 3.1** [online]. 2021 [viewed 2025-01-03]. The latest patch version at the time of publication of this standard was 3.1.1, available at <https://spec.openapis.org/oas/v3.1.1>



4

# TERMS AND DEFINITIONS

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## TERMS AND DEFINITIONS

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This document uses the terms defined in OGC Policy Directive 49, 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 document and OGC documents do not use the equivalent phrases in the ISO/IEC Directives, Part 2.

This document also uses terms defined in the OGC Standard for Modular specifications (OGC 08-131r3), also known as the ‘ModSpec’. The definitions of terms such as standard, specification, requirement, and conformance test are provided in the ModSpec.

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

This document uses the terms defined in OGC Policy Directive 49, 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. Collection

---

Body of resources that belong or are used together. An aggregate, set, or group of related resources.

### 4.2. Conformance Module; Conformance Test Module

---

A set of related conformance classes and their associated components.

**Note 1 to entry:** When no ambiguity is possible, the word test may be omitted. i.e. conformance test module is the same as conformance module. Conformance modules may be nested in a hierarchical way.

[SOURCE: OGC 08-131r5]

## 4.3. Conformance Class; Conformance Test Class

---

A set of conformance tests that must be passed to receive a single certificate of conformance.

**Note 1 to entry:** When no ambiguity is possible, the word *test* may be left out, so conformance test class maybe called a conformance class.

[SOURCE: OGC 08-131r5]

## 4.4. Conformance Test

---

A test, abstract or real, of one or more requirements contained within a standard, or set of standards.

[SOURCE: OGC 08-131r5]

## 4.5. Requirement

---

Expression in the content of a standard conveying criteria to be fulfilled if compliance with the standard is to be claimed and from which no deviation is permitted.

[SOURCE: OGC 08-131r5]

## 4.6. Requirements Class

---

An aggregate of requirements with a single standardization target type that must all be satisfied to pass a conformance test Class.

[SOURCE: OGC 08-131r5]

## 4.7. Requirements Module

---

A set of related requirement classes and their associated components.

[SOURCE: OGC 08-131r5]

## 4.8. Standardization Goal

---

A concise statement of the problem that the standard helps address and the strategy envisioned for achieving a solution. This strategy typically identifies real-world entities that need to be modified or constrained. At the abstract level, those entities are the Standardization Target Types.

[SOURCE: OGC 08-131r5]

## 4.9. Standardization Target

---

Entity to which some requirements of a standard apply.

**Note 1 to entry:** The standardization target is the entity which may receive a certificate of conformance for a requirements class.

[SOURCE: OGC 08-131r5]

## 4.10. Standardization Target Type

---

Type of entity or set of entities to which the requirement of a standard apply

**Note 1 to entry:** For example, the standardization target type for The OGC API – Features Standard are Web APIs. The standardization target type for the CDB Standard is “datastore”. It is important to understand that a standard’s root standardization target type can have sub-types, and that there can be a hierarchy of target types. For example, a Web API can have sub types of client, server, security, and so forth. As such, each requirements class can have a standardization target type that is a sub-type of the root.

[SOURCE: OGC 08-131r5]



5

# CONVENTIONS

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This sections provides details and examples for any conventions used in the document. Examples of conventions are symbols, abbreviations, use of XML schema, or special notes regarding how to read the document.

### 5.1. Identifiers

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The normative provisions in this standard are denoted by the URI

<http://www.opengis.net/doc/IS/ogcapi-edr-3/1.0>

All requirements and conformance tests that appear in this document are denoted by partial URIs which are relative to this base.



6

# CONTEXT

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## 6.1. Standardization Goal

---

The goal of this Standard is to ensure interoperability between implementations of the OGC API — Environmental Data Retrieval Standard (EDR API).

The OGC EDR Standard does not try to address every possible application domain. Rather, it provides a foundation which can be tailored for a specific domain. The result of this tailoring is a domain specific “profile” of the EDR API Standard.

A significant risk to this approach is that, in the act of profiling, interoperability will be compromised. This risk can be mitigated by establishing rules for how the EDR API Standard can be profiled. The goal of this Standard is to define a set of rules sufficient to ensure interoperability while retaining the adaptability needed to support domain-specific requirements.

## 6.2. Standardization Target Type

---

The Standardization Target Type for this Standard is the set of standards and specifications which profile the OGC API — Environmental Data Retrieval Standard.

It is important to understand that:

- This Standard is a standard for writing standards. It does not address the EDR API implementation.
- This Standard is a profile of the OGC ModSpec Model — Part 1: Core — A Standard for Designing and Writing Modular Standards (ModSpec).
- Implementations of this Standard are Profiles of the OGC API — Environmental Data Retrieval Standard
- The profiling model used is defined in ISO 19106:2004 Geographic information — Profiles

## 6.3. Profiles

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ISO 19106:2004 Geographic information — Profiles is the ISO TC211 Standard for developing profiles of ISO TC211 Standards. This standard defined two conformance classes. These conformance classes can be thought of as two classes of profile.

- A Class 1 profile is a pure subset of the ISO geographic information standards.
- A Class 2 profile has the same basis as Class 1 but include extensions within the contexts permitted in the base standard. Additionally, a Class 2 profile permits the profiling of non-ISO geographic information standards as part of the profile.

In other words, a Class 1 profile restricts the base standard while a Class 2 profile both restricts and extends the base standard.

Both Class 1 and Class 2 Profiles of the OGC-EDR Standard are allowed.

**NOTE:** Consider organizing requirements based on whether they are Class 1 or Class 2.



7

# REQUIREMENT CLASS CORE

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Paragraph

## REQUIREMENTS CLASS 1: REQUIREMENTS CLASS 'CORE'

IDENTIFIER	<code>http://www.opengis.net/spec/ABCD/m.n/req/req-class-a</code>
TARGET TYPE	Web API
CONFORMANCE CLASS	Conformance class A.1: <code>http://www.opengis.net/spec/name-of-standard/1.0/conf/example1</code>
NORMATIVE STATEMENTS	Requirement 16: <code>/req/req-class-a/req-name-1</code> Requirement 15: <code>/req/req-class-a/req-name-2</code>

## 7.1. Documentation

### 7.1.1. Conformance to the ModSpec

### 7.1.2. Requirement 2

#### REQUIREMENT 1

IDENTIFIER `/req/req-class-a/req-name-19`

A For each of the requirements defined in the profile there SHALL be a conformance test which defines how to validate compliance with the requirement.

### 7.1.3. Requirement 18

#### REQUIREMENT 2

IDENTIFIER `/req/req-class-a/req-name-17`

## REQUIREMENT 2

A	For every http status code supported by the profile. A requirement SHALL be created. The requirement SHALL provide the following:
	<ul style="list-style-type: none"><li>• A description of the cause of the error.</li><li>• A JSON schema for the message body structure</li></ul>

### 7.1.4. Requirements governing how links must be populated

## 7.2. Landing Page

### 7.2.1. Links requirements for service-doc and service-desc

### 7.2.2. Conformance classes requirements

### 7.2.3. Requirement 16

## REQUIREMENT 3

IDENTIFIER /req/req-class-a/req-name-20

A	An EDR profile SHALL be published as an OpenAPI JSON document. The rules described in the requirements SHALL be encoded using the OpenAPI 3.1 specification, The requirement rules are encoded in either the OpenAPI Path Item or in the Response object schema sections of the document.
	<p>The profile OpenAPI document should describe the profile EDR API as follows:</p> <p>The servers attributes of the OpenAPI root object SHALL be blank (the profile is not linked to specific implementations)</p> <p>The Extent requirement rules SHALL be encoded in the JSON schema defined in the 200 responses for the /collections and /collections/{collection} id Paths object</p> <p>The data_query type requirement rules SHALL be encoded in the JSON schema defined in the 200 responses for the /collections and /collections/{collection} id Paths object</p> <p>The data_query types SHALL be encoded as Paths objects in the OpenAPI document, where appropriate the output_format, default_output_format, crs, within_units, width-units, height-units and limit (paging) requirements SHALL be encoded in the child Parameter objects of the Paths object.</p> <p>The output_format requirement rules SHALL be encoded in the 200 responses of the data_query type Paths objects</p>
STATEMENT	

## REQUIREMENT 3

The Parameter\_names requirements SHALL be encoded in the JSON schema defined in the 200 responses for the /collections and /collections/{collection} id Paths object.

An EDR API SHALL advertise the location of the profile OpenAPI document it complies

An EDR API SHALL advertise the location of the profile OpenAPI document it complies with in the links section of the API root with a link relation value of 'profile'

## 7.3. Collections

### 7.3.1. Requirement 17

## REQUIREMENT 4

IDENTIFIER /req/req-class-a/req-name-18

A

The profile SHALL consist of a set of requirements for a collection and (if the collection supports instances) the instances of the collection. For each of the attributes listed, if it is in the collection (or instance), there SHALL be a requirement to define it.

### 7.3.2. Requirement 14

## REQUIREMENT 5

IDENTIFIER /req/req-class-a/req-name-13

A

Paging support depends on query pattern and output format. A requirement SHALL be created for each combination of query pattern and output format that must support paging.

STATEMENT

Each paging requirement SHOULD also include a recommendation for the default number of items to return per page request.

### 7.3.3. Title/Description

## 7.4. Data Query

### 7.4.1. Requirement 3

#### REQUIREMENT 6

IDENTIFIER /req/req-class-a/req-name-3

A

A data\_queries requirement definition SHALL specify which data queries a service supports. This can be defined as follows:

- Enumerated list of query types

STATEMENT Each data\_query type listed SHALL also have a requirement definition.

### 7.4.2. Requirement 4

#### REQUIREMENT 7

IDENTIFIER /req/req-class-a/req-name-6

A

An area query requirement SHALL specify the following:

- Enumerated list of output\_format types
- The default\_output\_format
- Enumerated list of crs\_details values
- Enumerated list of the operations that the query supports (i.e. GET, POST)

### 7.4.3. Requirement 5

#### REQUIREMENT 8

IDENTIFIER /req/req-class-a/req-name-7

## REQUIREMENT 8

A	A corridor requirement SHALL specify the following:	
	<ul style="list-style-type: none"><li>• Enumerated list of output_format types</li><li>• The default_output_format</li><li>• Enumerated list of crs_details values</li><li>• Enumerated list of width-units values</li><li>• Enumerated list of height-units values</li><li>• Enumerated list of the operations that the query supports (i.e. GET, POST)</li></ul>	

### 7.4.4. Requirement 6

## REQUIREMENT 9

IDENTIFIER /req/req-class-a/req-name-9

A	A cube requirement SHALL specify the following:	
	<ul style="list-style-type: none"><li>• Enumerated list of output_format types</li><li>• The default_output_format</li><li>• Enumerated list of crs_details values</li><li>• Enumerated list of the operations that the query supports (i.e. GET, POST)</li></ul>	

### 7.4.5. Requirement 7

## REQUIREMENT 10

IDENTIFIER /req/req-class-a/req-name-10

A	Instances SHALL be defined in the data_queries enumerated list if the collection has child instances that can be queried.
---	---

### 7.4.6. Requirement 8

## REQUIREMENT 11

IDENTIFIER /req/req-class-a/req-name-4



## REQUIREMENT 11

A	A position query requirement SHALL specify the following:
	<ul style="list-style-type: none"><li>• Enumerated list of output_format types</li><li>• The default_output_format</li><li>• Enumerated list of crs_details values</li><li>• Enumerated list of the operations that the query supports (i.e. GET, POST)</li></ul>
STATEMENT	A position query requirement SHALL also specify the logic used in selecting the data returned by the response, i.e. exact, nearest neighbour, most representative or interpolated.

### 7.4.7. Requirement 9

## REQUIREMENT 12

IDENTIFIER      /req/req-class-a/req-name-5

A	A radius query requirement SHALL specify the following:
	<ul style="list-style-type: none"><li>• Enumerated list of output_format types</li><li>• The default_output_format</li><li>• Enumerated list of crs_details values</li><li>• Enumerated list of within_units values</li><li>• Enumerated list of the operations that the query supports (i.e. GET, POST)</li></ul>

### 7.4.8. Requirement 10

## REQUIREMENT 13

IDENTIFIER      /req/req-class-core/req-name-9

A	A trajectory requirement SHALL specify the following:
	<ul style="list-style-type: none"><li>• Enumerated list of output_format types</li><li>• The default_output_format</li><li>• Enumerated list of crs_details values</li><li>• Enumerated list of the operations that the query supports (i.e. GET, POST)</li></ul>

## 7.5. Parameters

### 7.5.1. Requirement 15

#### REQUIREMENT 14

**IDENTIFIER** /req/req-class-a/req-name-11

- A** The parameter\_names requirement definition would specify the required parameter\_names objects in full. The parameter\_names object defines the name, units, data type and measurement duration of the data value so it is essential that all implementations are consistent for interoperability.

### 7.5.2. Requirement 11

#### REQUIREMENT 15

**IDENTIFIER** /req/req-class-a/req-name-2

**INCLUDED IN** Requirements class 1: <http://www.opengis.net/spec/ABCD/m.n/req/req-class-a>

- A** An extent requirements definition SHALL specify the rules for the spatial CRS, and where supported temporal TRS, vertical VRS and any custom dimension attributes. The attributes are constrained by one of:

- Enumerated list of valid crs values
- Regular expression defining valid crs string patterns.

If the collection has a temporal dimension one of:

- Enumerated list of valid trs values
- Regular expression defining valid trs string patterns.

If the collection has a vertical dimension one of:

- Enumerated list of valid vrs values

**STATEMENT**

- Regular expression defining valid vrs string patterns.

If the collection requires a custom dimension as requirements definition SHALL specify:

- custom dimension name
- custom dimension reference value
- Where applicable enumerated list of valid custom dimension values

## REQUIREMENT 15

(Regular expressions could be used to restrict reference system definitions to WKT2 or EPSG values)

### 7.5.3. Requirement 12

## REQUIREMENT 16

**IDENTIFIER** /req/req-class-a/req-name-1

**INCLUDED IN** Requirements class 1: <http://www.opengis.net/spec/ABCD/m.n/req/req-class-a>

- A** A Requirement definition *SHALL* specify the rules that the Collection id string must follow. This can be one of the following:
- identifier string
  - Regular expression defining valid string patterns.

### 7.5.4. Requirement 13

## REQUIREMENT 17

**IDENTIFIER** /req/req-class-a/req-name-12

- A** For every output\_format specified in any of the data\_query enumerated lists there *SHOULD* be a requirement which defines the schema or structure of the data (depending on the format). Suggested definition approaches are as follows:
- JSON – Link to a JSON Schema definition
  - XML – Link to a XML Schema definition
  - CSV, TSV, PSV, SSV – Link to a definition based on the CSV on the web recommendations
  - Other types (e.g. binary file types) – Link to a description of the format

## 7.6. Asynchronous

### 7.6.1. Requirement 1

## REQUIREMENT 18

**IDENTIFIER** /req/req-class-a/req-name-14

**A** A requirement SHALL be defined for each query type that is asynchronous.

**STATEMENT** Each asynchronous query type requirement SHALL define the HTTP Status Code and provide a message schema and text used to inform the user that the response is asynchronous.  
The requirement will also document (this can be a link to another document) the mechanism for delivering the result of the asynchronous query.



8

# MEDIA TYPES FOR ANY DATA ENCODING(S)

---

A section describing the MIME-types to be used is mandatory for any standard involving data encodings. If no suitable MIME type exists in <http://www.iana.org/assignments/media-types/index.html> then this section may be used to define a new MIME type for registration with IANA.



A

# ANNEX A (INFORMATIVE) CONFORMANCE CLASS ABSTRACT TEST SUITE (NORMATIVE)





# ANNEX A

## (INFORMATIVE)

### CONFORMANCE CLASS ABSTRACT TEST SUITE (NORMATIVE)

**NOTE:** Ensure that there is a conformance class for each requirements class and a test for each requirement (identified by requirement name and number)

#### A.1. Conformance Class A

CONFORMANCE CLASS A.1	
IDENTIFIER	<code>http://www.opengis.net/spec/name-of-standard/1.0/conf/example1</code>
REQUIREMENTS CLASS	Requirements class 1: <code>http://www.opengis.net/spec/ABCD/m.n/req/req-class-a</code>
TARGET TYPE	Web API
CONFORMANCE TESTS	Abstract test A.1: <code>/conf/core/map-response</code> Abstract test A.2: <code>/conf/core/http</code>

##### A.1.1. Example 1

ABSTRACT TEST A.1	
IDENTIFIER	<code>/conf/core/map-response</code>
REQUIREMENT	Requirement 16: <code>/req/req-class-a/req-name-1</code>
TEST PURPOSE	Verify that the implementation's response for the map retrieval operation is correct
TEST METHOD	A single step test method can be documented as a single line.



## A.1.2. Example 2

### ABSTRACT TEST A.2

**IDENTIFIER**     /conf/core/http

**REQUIREMENT** Requirement 15: /req/req-class-a/req-name-2

**TEST PURPOSE**     Validate that the resource paths advertised through the API conform with HTTP 1.1 and, where appropriate, TLS.

**DESCRIPTION**     **Example:**  
A sequential multi-step test method can be documented as shown here. This is the first step.  
This is the second step.



B

# ANNEX B (INFORMATIVE)

## TITLE

---



## ANNEX B (INFORMATIVE) TITLE

---

**NOTE:** Place other Annex material in sequential annexes beginning with “B” and leave final two annexes for the Revision History and Bibliography



# ANNEX C (INFORMATIVE) REVISION HISTORY

---



# ANNEX C

## (INFORMATIVE)

### REVISION HISTORY

---

Table C.1

DATE	RELEASE	EDITOR	PRIMARY CLAUSES MODIFIED	DESCRIPTION
2016-04-28	0.1	G. Editor	all	initial version



# BIBLIOGRAPHY





## BIBLIOGRAPHY

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**NOTE:** The TC has approved Springer LNCS as the official document citation type.

Springer LNCS is widely used in technical and computer science journals and other publications

– Actual References:

[n] Journal: Author Surname, A.: Title. Publication Title. Volume number, Issue number, Pages Used (Year Published)

[1] OGC: *OGC Testbed 12 Annex B: Architecture* (2015).