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OGC OWS Context GeoJSON Encoding Standard

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Abstract

This standard describes the GeoJSON encoding of the OWS Context conceptual model.

The OGC Web Services Context Document standard (OWS Context) was created to allow a set of configured information resources to be passed between applications primarily as a collection of services (but also potentially in-line content). The objective is to support use cases such as the distribution of search results, the exchange of a set of resources in a common operating picture (COP) or delivery of a set of configured processing services to allow the processing to be reproduced on different nodes.

GeoJSON is a format for encoding collections of simple geographical features along with their non-spatial attributes using JSON. GeoJSON objects may represent a geometry, a feature, or a collection of features. It supports the following geometry types: *Point*, *LineString*, *Polygon*, *MultiPoint*, *MultiLineString*, *MultiPolygon*, and *GeometryCollection*. Features in GeoJSON contain a geometry object and additional properties, and a feature collection represents a list of features.

This document concentrates on describing the encoding in GeoJSON of the OWS Context Model that is described in abstract terms in a separate document.

Keywords

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

OGCDOC, COP, Common Operating Picture, OWC, Context, JSON, GeoJSON

Preface

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Submitting organizations

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

Terradue Srl

USGS

Organization name(s)

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

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| David Wesloh | NGA |
|  |  |

# Scope

This document specifies how applications supporting the OWS Context GeoJSON encoding can exchange information context with other supporting applications in compliance with the OWS Context Conceptual Model.

# 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[[1]](#footnote-1).

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

1. Any one of the conformance levels specified in Annex B (normative).
2. 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.

# References

The following normative documents contain provisions that, through reference in this text, constitute provisions of this document. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. For undated references, the latest edition of the normative document referred to applies.

[OGC 12-080] – OWS Context Conceptual Model

<Insert References here. If there are no references, state “There are no normative references”.>

# 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.

1. Common Operating Picture

A single identical display of relevant information shared by more than one command. A common operational picture facilitates collaborative planning and assists all echelons to achieve situational awareness.

1. Context Document

A Context Document is a document describing the set of services and their configuration, and ancillary information (area of interest etc) that defines the information representation of a common operating picture.

1. Resource

A resource is a configured set of information that is uniquely identifiable to a user. Can be realized as in-line content or by one or more configured web services.

1. Area Of Interest

An Area of Interest is a geographic area that is significant to a user.

# Conventions

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.

# Overview

TBW

## JavaScript Object Notation

TBW

Add how to make safestrings

## GeoJSON Format Specification

TBW

# GeoJSON Encoding Specification

This clause specifies the links from the encoding to the underlying OWS Context data model. It defines a mapping for all classes and attributes of the OWS Conceptual model. This includes mandatory requirements for the encoding of a context document and the necessary semantics of how that encoding should be interpreted. The conceptual model on which this encoding is based is divided into various packages. Note that these packages map directly to requirement classes.

## OWS Core Context GeoJSON Encoding

The GeoJSON object SHALL be used in the OWS Context to describe the context document.

|  |  |
| --- | --- |
| **Requirements Class** | |
| [**http://www.opengis.net/spec/owc-geojson/1.0/req/core**](http://www.opengis.net/spec/owc-geojson/1.0/req/core) | |
| Target type | Token |
| Dependency | [**http://www.opengis.net/spec/owc/1.0/core**](http://www.opengis.net/spec/owc/1.0/core) |
| **Requirement** | **http://www.opengis.net/spec/owc-geojson/1.0/req/geojsonRules**  *The GeoJSON encoding of the OWS Context document shall comply with the rules specified in [GeoJSON]* |
| **Requirement** | **http://www.opengis.net/spec/owc-geojson/1.0/req/mime-type**  *OWS Context documents shall adopt the GeoJSON MIME-type* ***TBD*** |
| **Requirement** | **http://www.opengis.net/spec/owc-geojson/1.0/req/file-extension**  *OWS Context documents shall use the file extension of ‘.json’* ***TBD*** |
| **Requirement** | **http://www.opengis.net/spec/owc-geojson/1.0/req/owc-encoding**  *OWS Context documents shall comply with the population rules given in the following sections* ***TBD***. |

### Class OWC:Context

The mapping of the OWC:Context Class in the *geojson* object is shown in Table 1.

Table — OWC:Context mapping to *geojson*

| **Names: Conceptual GeoJSON mapping** a | **Definition** | **Data type and value** | **Multiplicity and use** |
| --- | --- | --- | --- |
| specReference  <xz>.properties.links.profiles | Specification Reference (requirements class) identifying that this is an OWC Context document and its version. | An array where one element SHALL have the value “http://www.opengis.net/spec/owc-geojson/1.0/req/core” in this version | One (mandatory) |
| Language  <xz>.properties.lang | A language of feed's content | Character String type, not empty based on RFC-3066 codes | One (mandatory) |
| Id  <xz>.id | An unambiguous reference to the identification of the feed (IRI) | URI | One b (mandatory) |
| Title  <xz>.properties.title | A title for the Context document | Character String type, not empty | One (mandatory) |
| Abstract  <xz>.properties.abstract | Description of the Context document purpose or content | Character String type, not empty | Zero or one (optional) |
| updateDate  <xz>.properties.updated | A date of a creation or update of the Context document | RFC-3339 date | One (mandatory) |
| author  <xz>.properties.author.name | An entity primarily responsible for making the Context Document | Character String type, not empty | Zero or more (optional) c |
| publisher  <xz>.properties.publisher | Identifier for the publisher of the Context document | Character String type, not empty | Zero or one (optional) |
| creator  <xz>.properties.generator  <xz>.properties.display TBD | The tool/application used to create the Context document and its properties | OWC:Creator (as defined in TBD) | Zero or one (optional) |
| rights  <xz>.properties.rights | Information about rights held in and over the Context document | Character String type, not empty | Zero or one (optional) |
| areaOfInterest  <xz>.bbox | Geographic Area of interest of the users of the Context document according to the GeoJSON “bbox” definition | The value of the bbox member must be a 2\*n array (n is the number of dimensions) | Zero or one (optional) |
| timeIntervalOfInterest  <xz>.TBD | A date or range of dates relevant to the resource | A string representing a date according to the ISO-8601 format | Zero or one (optional) |
| keyword  <xz>.properties.categories | Category related to this context document. It MAY have a related code-list that is identified by the scheme attribute. | An array of category objects. | Zero or more (optional) |
| resource  <xz>.features | The resources available on the Context document | Features array element as defined in Section 7.3 | Zero or more (optional) |
| contextMetadata  <xz>.properties.links.via | A reference to a resource from which the present resource is derived (e.g. source of the information) | An array of *link* objects | Zero or more (optional) |
| extension  <xz>.\* | Any other element | Any (outside of the scope of OWS Context) | Zero or more (optional) |
| a This specification assigns no significance to the order of appearance of the child elements of geojson object with the exception of member of the *features* array. The order of the member of the *features* MAY be used to identify the drawing order of the entries. In that case, the first item of the array represents the top most layer (see section 7.2.1.13 for further details.  b URIs used as identifiers should be in canonical form, as described by section 6 of RFC-3986. Avoid the use of URI like http://server.com/path that should be written as http://server.com/path/  c geojson objects MUST contain one or more elements on the *properties.author* array, unless all of the entries of the *features* array contain one or more elements on the *properties.authors* array. | | | |

#### specReference

**Path**: <xz>.properties.TBD

The value of this element is the specification reference (requirements class) identifying that this is an OWC Context document and its version.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

TBD

...

},

"features": [{

...

}]

}

#### language

**Path**: <xz>.lang

A GeoJSON Context object SHALL have a *lang* element. The format and interpretation of this value must follow the same rules as specified in [XML 1.0 W3C.REC], Section 2.12.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

"lang" : "en",

....

},

"features": [{

...

}]

}

#### id

**Path**: <xz>.id

The id element defines a mandatory reference to the identification of the Context document. Its content SHALL be an IRI, as defined by IETF [RFC-3987]. By defining it as an "IRI" the use of relative references is excluded and it SHALL NOT be assumed to convey dereferenceable information. The content of this element SHALL be created in a way that assures uniqueness and follow the recommendations of IETF [RFC-4287] section 4.2.6. The id should be in canonical form (avoiding the use of URI like *http://server.com/path* and using *http://server.com/path/* instead).

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

....

"features": [{

...

}]

}

#### title

**Path**: <xz>.properties.title

This element contains the title of the Context document. This element is mandatory and it conveys a human-readable title.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

"title" : "OWS Context GeoJSON Example",

....

},

"features": [{

...

}]

}

#### abstract

**Path**: <xz>.properties.subtitle

This element is optional and it contains the description of the Context Document Purpose or Content.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

"title" : "OWS Context GeoJSON Example",

"subtitle" : "This Context document uses WMS and GML",

....

},

"features": [{

...

}]

}

#### updateDate

**Path**: <xz>.properties.updated

This element is mandatory and indicates the most recent instant in time when the feed was modified in a way the publisher considers **significant** and does not necessarily account for minor modifications. The content of this element SHALL conform to the "date-time" production in IETF [RFC-3339]. In addition, an uppercase "T" character SHALL be used to separate date and time, and an uppercase "Z" character SHALL be present in the absence of a numeric time zone offset.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

"title" : "OWS Context GeoJSON Example",

"updated" : "2012-11-04T17:26:23Z",

....

},

"features": [{

...

}]

}

#### author

**Path**: <xz>.properties.authors

This element indicates the *authors* array of the Context document. It MAY contain *name* (conveys a human-readable name for the person), *email* (email address for the person) and *uri* (home page for the person) elements.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

"title" : "OWS Context GeoJSON Example",

"authors" : [{

"name" : "Joe Doe”,

"email" : "jdoe@some.com",

"uri" : "http://some.com/jdoe"

}]

....

},

"features": [{

...

}]

}

#### publisher

**Path**: <xz>.properties.publisher

This element is optional and describes the entity responsible for making the Context document available. Examples of a Publisher include a person, an organization, or a service.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

"title" : "OWS Context GeoJSON Example",

"publisher" : "ACME Inc.”,

....

},

"features": [{

...

}]

}

#### creator

**Path**: <xz>.properties.creator

The element is optional and expresses the entity or agent (e.g. software) responsible for making the Context document.

Example:

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

"title" : "OWS Context GeoJSON Example",

"creator" : "ACME CSW Server”,

....

},

"features": [{

...

}]

}

#### rights

**Path**: <xz>properties.rights

This element is optional and contains information about rights held in and over the Context document. Please note that this element SHALL NOT be used to convey machine-readable licensing information.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

"rights" : "ACME Srl, licensed under a Creative Commons Attribution 3.0 License",

....

},

"features": [{

...

}]

}

#### areaOfInterest

**Path**: <xz>.bbox

This element is optional and expresses the geographic area of interest Context document using the GeoJSON bbox object. The value of the bbox member must be a 2\*n array where n is the number of dimensions represented in the contained geometries, with the lowest values for all axes followed by the highest values. The axes order of a bbox follows the axes order of geometries. In addition, the coordinate reference system for the bbox is assumed to match the coordinate reference system of the GeoJSON object of which it is a member.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

....

},

"bbox": [100.0, 0.0, 105.0, 1.0],

"features": [{

...

}]

}

#### timeIntervalOfInterest

**Path**: <xz>.when

This element is optional and expressed a date or range of dates relevant to the Context document. It can contain the element *start*, *stop* and *instant*. The values of these elements SHALL conform to the "date-time" production of ISO-8601. An uppercase "T" character SHALL be used to separate date and time, and an uppercase "Z" character SHALL be present in the absence of a numeric time zone offset. To specify a range of dates the "/" character SHALL be used.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"when": {

"start" : "2012-11-04T00:01:23Z ",

"stop" : "2012-12-05T17:28:56Z "

},

"features": [{

...

}]

}

#### resource

**Path**: <xz>.features

The resources of a Context document are mapped by the array elements described below in section 7.2.2.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

....

},

"when": {

"start" : "2012-11-04T00:01:23Z ",

"stop" : "2012-12-05T17:28:56Z "

},

"features": [{

...

}]

}

Note: This specification identifies the order of the *features* array element in relation to interpretation of the context document contents. Elements are ordered from highest importance to lowest in the file. In particular in relation to visualization geographically the first entry in the GeoJSON document is the topmost layer in the display.

#### contextMetadata

**Path**: <xz>.properties.links.via

This element is optional and references an external resource from which the Context document is derived (e.g. metadata document from which the metadata of the resource is derived). The *via* element is an array of TBD objects that contains four elements named *type*, *href*, *title* and *lang*.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

...,

"links" : {

"via" : {

"href" : "http://www.acme.com/collections/algal.xml",

"type" : " application/xml ",

"title" : "Algal XML metadata",

"lang" : "en",

}

....

},

"features": [{

...

}]

}

#### keyword

**Path**: <xz>properties.categories

This array is an optional and expresses a category related to this Context document. It MAY have a related code-list that is identified by the scheme attribute. Each item of the category array has one required element, *term* (identifies the category), and two optional elements, *scheme* (identifies the categorization scheme via a URI) and *label* (provides a human-readable label for display). This specification assigns no significance to the order of items in the array.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

...

"categories" : [{

"scheme" : "http://www.acme.com/category",

"term" : "oceansec",

"label" : " Ocean Integrated Maritime Security"

}]

...

},

"features": [{

...

}]

}

#### extension

Any other element can be added to the JSON object safeguarding that none of the above element names are used.

### Class OWC:Resource

The mapping of the OWC:Resource Resource Class in the *features* element entry is shown in the table below.

Table - OWC:Resource mapping to *features* element entry

| **Names: Conceptual GeoJSON mapping****a** | **Definition** | **Data type and values** | **Multiplicity and use** |
| --- | --- | --- | --- |
| Id  <xz>.features[i].id | An unambiguous reference to the identification of the Context resource (IRI) | URI | One (mandatory) |
| Title  <xz>.features[i].properties.title | A title given to the Context resource | Character String type, not empty | One (mandatory) |
| abstract  <xz>.features[i].properties. content | An account of the content of the Context resource. Each resource shall have an abstract.  The purpose is to provide a generic description of the content in a format understandable by generic readers. | Character String type, not empty. | One (mandatory) |
| updateDate  <xz>.features[i].properties. updated | A date of the last update of the Context resource | A string representing a date according to the RFC-3339 date format | One (mandatory) |
| author  <xz>.features[i].properties. author.name | An entity primarily responsible for making the content of the Context resource | Character String type, not empty | Zero or more (optional) b |
| publisher  <xz>.features[i].properties. publisher | An entity responsible for making the Context resource available | Character String type, not empty | Zero or one (optional) |
| rights  <xz>.features[i].properties. rights | Information about rights held in and over the Context resource | Character String type, not empty | Zero or one (optional) |
| geospatialExtent  <xz>.features[i].geometry | The spatial extent or scope of the content of the Context resource. | GeoJSON *geometry* object | Zero or one (optional) |
| temporalExtent  <xz>.features[i].properties.when | A date or range of dates relevant to the Context resource | A GeoJSON when object containing dates strings representing a date according to the ISO-8601 format | Zero or more (optional) |
| contentDescription  <xz>.features[i].properties.links.alternate | A reference to a description of the Context resource in alternative format. | An array of *link* objects*.* | Zero or more (optional) c |
| Preview  <xz>.features[i].properties.links.icons | Reference to a quick-look or browse image representing the Context resource. | An array of *link* objects*.* The elements *length* and *type* SHOULD be provided | Zero or more (optional). |
| contentByRef  <xz>.features[i].properties.links.data | Reference to the location of the data resource described in the Context resource. | An array of *link* objectsd | Zero or more (optional) |
| Offering  <xz>.features[i].properties. offering | Service or inline content offering for the resource targeted at OGC compliant clients | owc:OfferingType, see Table 3 | Zero or more (optional) |
| Active  <xz>.features[i].properties. active | Flag value indicating to the client if the Context resource should be displayed by default. | Boolean  Possible values are 'true' or 'false'. Default value is ‘true’ | Zero or one (optional) |
| resourceMetadata  <xz>.features[i].properties.links.via | A reference to a resource from which the Context resource is derived (e.g. source of the information). | A *link* object | Zero or more (optional) e |
| Keyword  <xz>.features[i].properties. categories | Category related to this resource. It MAY have a related code-list that is identified by the scheme attribute.. | An array of category objects. | Zero or more (optional) |
| minScale‌Denominator  <xz>.features[i].properties.TBD | Minimum scale for the display of the Context resource | Double | Zero or one (optional) |
| maxScaleDenominator  <xz>.features[i].properties.TBD | Maximum scale for the display of the Context resource | Double | Zero or one (optional) |
| folder  <xz>.features[i].properties.TBD | Definition of the folder in which the resource is placed | Character String type, not empty. | Zero or one (optional) |
| extension | Any other element | Any | Zero or more (optional) |
| a This specification assigns no significance to the order of appearance object elements.  b The *features* array entries MUST contain one or more elements on the *authors* array, unless the parent GeoJSON object contains at least one element on its *authors* array.  c A *features* array entry MUST NOT contain more than *alternate* element with the same combination of *type* and *lang* element values  d Because it describes a resource potentially large in size and might require special handling the *length* and *type* attribute SHOULD be provided. | | | |

#### **id**

**Path**: <xz>.features[i].id

This element defines a mandatory reference to the identification of the Context resource. Its content SHALL be an IRI, as defined by RFC-3987. By defining it as an "IRI" the use of relative references is excluded and it SHALL NOT be assumed to convey dereferencable information. The content of this element SHALL be created in a way that assures uniqueness and follow the recommendations of RFC-4287 section 4.2.6. The id should be in canonical form and avoiding the use of URI like *http://server.com/path* and using *http://server.com/path/* instead.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

...

},

"features": [{

"id": "http://www.acme.eu/geoserver/wms/#world\_countries”,

...

}]

}

#### title

**Path**: <xz>.features[i].properties.title

This element is mandatory and it conveys a human-readable title of the Context resource.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

...

},

"features": [{

"id": "http://www.acme.eu/geoserver/wms/#world\_countries”,

"properties" : {

"title": " Base World Map”,

...

},

...

}]

}

#### abstract

**Path**: <xz>.features[i].properties.content

This element is mandatory and it contains the description of the Context resource purpose or content.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

...

},

"features": [{

"id": "http://www.acme.eu/geoserver/wms/#MERIS”,

"properties" : {

"content": "ENVISAT MERIS Level 1 Reduced Resolution”,

...

},

...

}]

}

#### updateDate

**Path**: <xz>.features[i].properties.updated

This element is optional and contains the date of a creation or update of the Context resource (ISO-8601 date). This value indicates the most recent instant in time when the Context resource was modified in a way the publisher considers **significant** and not necessarily covering all any minor modifications. The content of this element SHALL conform to the "date-time" production in RFC-3339. In addition, an uppercase "T" character SHALL be used to separate date and time, and an uppercase "Z" character SHALL be present in the absence of a numeric time zone offset.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

...

},

"features": [{

"id": "http://www.acme.eu/geoserver/wms/#world\_countries”,

"properties" : {

"updated": "2012-05-10T14:35:00.400Z”,

...

},

...

}]

}

#### author

**Path**: <xz>.features[i].properties.authors[j].name

This element indicates the *authors* array of the Context resource. It MAY contain *name* (conveys a human-readable name for the person), *email* (email address for the person) and *uri* (home page for the person) elements.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

...

},

"features": [{

"id": "http://www.acme.eu/geoserver/wms/#world\_countries”,

"title": " Base World Map”,

"properties" : {

"authors" : [{

"name" : "Joe Doe”,

"email" : "jdoe@some.com",

"uri" : "http://some.com/jdoe"

}]

...

},

...

}]

}

#### publisher

**Path**: <xz>.features[i].properties.publisher

This element defines an entity responsible for making the Context resource available. Examples of a Publisher include a person, an organization, or a service.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

...

},

"features": [{

"id": "http://www.acme.eu/geoserver/wms/#world\_countries”,

"properties" : {

"publiser": " ACME Project”,

...

},

...

}]

}

#### rights

**Path**: <xz>.features[i].properties.rights

This element is optional and contains information about rights held in and over the Context resource. Please note that this element SHALL NOT be used to convey machine-readable licensing information

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

...

},

"features": [{

"id": "http://www.acme.eu/geoserver/wms/#world\_countries”,

"properties" : {

"rights": "ACME Srl, licensed under a Creative Commons Attribution 3.0 License",

...

},

...

}]

}

#### geospatialExtent

**Path**: <xz>.features[i].geometry

This element expresses the geographic area of interest of the Context resource according to the GeoJSON *geometry* object.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

...

},

"features": [{

"id": "http://www.acme.eu/geoserver/wms/#world\_countries”,

"geometry": {

"type" : "Polygon",

"coordinates" : [[[-2,45],[8,45],[8,55],[-2,55],[-2,45]]]

},

"properties" : {

...

},

...

}]

}

#### temporalExtent

**Path**: <xz>.features[i].when

This element is optional and expressed a date or range of dates relevant to the Context document. It can contain the element *start*, *stop* and *instant*. The values of these elements SHALL conform to the "date-time" production of ISO-8601. An uppercase "T" character SHALL be used to separate date and time, and an uppercase "Z" character SHALL be present in the absence of a numeric time zone offset. To specify a range of dates the "/" character SHALL be used.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

...

},

"features": [{

"id": "http://www.acme.eu/geoserver/wms/#world\_countries”,

"when": {

"start" : "2009-01-23T09:08:56.000Z",

"stop" : "2009-01-23T09:14:08.000Z"

},

"properties" : {

...

},

...

}]

}

#### preview

The **preview** property of the Context resource can be expressed by using the following elements:

**Path**: <xz>.features[i].properties.links.icons[j].href

Reference to a quick-look or browse image representing the Context resource. The attributes *length* and *type* SHOULD be provided

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

...

},

"features": [{

"id": "http://www.acme.eu/geoserver/wmts/#algal20090123090856”,

"properties" : {

"links": {

"icons" : [{

"href" : "http://www.acme.com/products/algal20090123090856.png",

"type" : "image/png",

"length" : "12321",

"title" : " Quicklook for the entry 2009-01-23 09:08:56"

}]

}

...

},

...

}]

}

**Path**: <xz>.features[i].properties.links.alternates[j].href

This element contains a reference to a description of the Context resource in alternative format.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

...

},

"features": [{

"id": "http://www.acme.eu/geoserver/wms/#algal20090123090856”,

"properties" : {

"links": {

"alternates" : [{

"href" : " http://www.acme.com/products/algal20090123090856.html",

"type" : "text/html",

"title" : " Information for the entry 2009-01-23 09:08:56"

}]

}

...

},

...

}]

}

#### contentByRef

**Path**: xz.features[i]. properties.links.data[j].href

This element contains a reference to the location of the data resource described in the Context resource. Because it describes a resource potentially large in size and might require special handling the *length* and *type* attributes SHOULD be provided.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

...

},

"features": [{

"id": "http://www.acme.eu/geoserver/wms/#algal20090123090856”,

"properties" : {

"links": {

"icons" : [{

"href" : "http://www.acme.com/products/algal20090123090856.hdf",

"type" : "application/x-hdf5",

"length" : "453123432",

"title" : "HDF file for the entry 2009-01-23 09:08:56"

}]

}

...

},

...

}]

}

#### offering

**Path**: xz.features[i].properties.offerings[i]

The entry can contain a number of offerings defined by the class OWC:Offering (defined in section 7.3.2 below). This specification assigns no significance to the order of appearance on the *offerings* array.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

...

},

"features": [{

"id": "http://www.acme.eu/geoserver/wms/#algal20090123090856”,

...

"properties" : {

"offerings" : [{

"code" : " http://www.opengis.net/spec/owc-geojson/1.0/req/wms",

...

},{

"code" : " http://www.opengis.net/spec/owc-geojson/1.0/req/gml",

...

}]

...

}]

}

#### active

**Path**: <xz>.features[i].properties.active

This element is a Boolean value indicating to the client if the Context resource should be displayed by default.

Example:

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

...

},

"features": [{

"id": "http://www.acme.eu/geoserver/wms/#algal20090123090856”,

"properties" : {

"active": true,

...

},

...

}]

}

#### resourceMetadata

**Path**: xz.features[i]. properties.links.via.href

This element contains a reference to a resource from which the present resource is derived.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

...

},

"features": [{

"id": "http://www.acme.eu/geoserver/wms/#algal20090123090856”,

"properties" : {

"links": {

"via" : {

"href" : "http://www.acme.com/products/algal20090123090856.xml",

"type" : "application/xml",

"length" : "435",

"title" : " XML metadata file for the entry 2009-01-23 09:08:56"

}

}

...

},

...

}]

}

#### keyword

**Path**: <xz>.features[i].properties.categories[j].term

This array is an optional and expresses a category related to the Context resource. It MAY have a related code-list that is identified by the scheme attribute. Each item of the category array has one required element, *term* (identifies the category), and two optional elements, *scheme* (identifies the categorization scheme via a URI) and *label* (provides a human-readable label for display). This specification assigns no significance to the order of items in the array.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

...

},

"features": [{

...

"properties" : {

"categories" : [{

"scheme" : "http://www.acme.com/category",

"term" : "high\_concentration",

"label" : "High Concentration was detected on this entry"

},{

"scheme" : "http://www.earthobservations.org/category",

"term" : "GEOSSDataCore",

"label" : "GEOSS Data Collection of Open Resources for Everyone"

},{

...

}]

...

}]

}

#### minScaleDenominator

**Path**: <xz>.features[i].properties.minscale

This element defines the minimum scale for the display of the resource. The scale denominator is defined with respect to a “standardized rendering pixel size” of 0.28 mm × 0.28 mm (millimeters). The definition is the same used in WMS 1.3.0 [OGC 06-042] and in Symbology Encoding Implementation Specification 1.1.0 [05-077r4]. Frequently, the true pixel size is unknown and 0.28 mm is a common actual size for current displays.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

...

},

"features": [{

"id": "http://www.acme.eu/geoserver/wms/#algal20090123090856”,

"properties" : {

"minscale" : 100,

...

},

...

}]

}

#### maxScaleDenominator

**Path**: <xz>.features[i].properties.maxscale

This element defines the maximum scale for the display of the resource. The scale denominator is defined with respect to a “standardized rendering pixel size” of 0.28 mm × 0.28 mm (millimeters). The definition is the same used in WMS 1.3.0 [OGC 06-042] and in Symbology Encoding Implementation Specification 1.1.0 [05-077r4]. Frequently, the true pixel size is unknown and 0.28 mm is a common actual size for current displays.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

...

},

"features": [{

"id": "http://www.acme.eu/geoserver/wms/#algal20090123090856”,

"properties" : {

"maxscale" : 100,

...

},

...

}]

}

#### folder

**Path**: <xz>.features[i].properties.TBD

TBW

TBD

#### extension

Any other element can be added to the JSON object safeguarding that none of the above element names are used.

### DataType OWC:Offering

The mapping between the OWC:Offering Class and JSON is shown in the table below.

Table - Definitions of owc:Offering elements

| **Names: Conceptual JSON mapping** | **Definition** | **Data type and values** | **Multiplicity and use** |
| --- | --- | --- | --- |
| code  <xz>.features[i].properties. offerings[j]. code | Code identifying the type of offering | URI  A requirement class identifier (URI) for the extension defining the operation. See sections 7.4 to 7.14 | One (mandatory) |
| operation  <xz>.features[i].properties. offerings[j]. operations | Array of operations used to invoke the service. | owc:OperationType, see Table 4 | Zero or more (optional) |
| content  <xz>.features[i].properties. offerings[j]. contents | Array of contents (inline or byRef) | owc:ContentType, see Table 5 | Zero or more (optional) |
| styleSet  <xz>.features[i].properties. offerings[j].styles | Array of style sets. | owc:StyleSetType, see Table 4 | Zero or more (optional) |
| extension | Any other element | Any | Zero or more (optional) |

#### code

**Path**: <xz>.features[i].properties.offerings[j].code

The offering code is defined as the requirement class identifier (URI) for the extension defining the operation. It can be an owc extension or one defined in a profile.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

...

},

"features": [{

"id": "http://www.acme.eu/geoserver/wms/#algal20090123090856”,

...

"properties" : {

"offerings" : [{

"code" : " http://www.opengis.net/spec/owc-geojson/1.0/req/wms",

...

},{

"code" : " http://www.opengis.net/spec/owc-geojson/1.0/req/gml",

...

}]

...

}]

}

#### operation

**Path**: <xz>.features[i].properties.offerings[j].operations[k]

Defines an operation within an offering. Valid operations for an offering are defined in the relevant offering extension (Section [8.2.4 Class OWC:Operation](https://portal.opengeospatial.org/wiki/OWSContextswg/SpecAtomEncodingAlt#ClassOperation)).

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

...

},

"features": [{

"id": "http://www.acme.eu/geoserver/wms/#algal20090123090856”,

...

"properties" : {

"offerings" : [{

"code" : " http://www.opengis.net/spec/owc-geojson/1.0/req/wms",

"operations" : [{

"code" : " GetCapabilities",

"href" : "http://www.someserver.com/wrs.cgi?REQUEST=GetCapabilities&  
amp;SERVICE=WMS&amp;VERSION=1.1.1"

}]

...

},{

"code" : " http://www.opengis.net/spec/owc-geojson/1.0/req/gml",

...

}]

...

}]

}

#### content

**Path**: <xz>.features[i].properties.offerings[j].contents

This is an array of the class OWC:Content (see section 7.3.4)

#### styleSet

**Path**: <xz>.features[i].properties.offerings[j].styles

This is an array of the OWC:StyleSet (see section 7.3.5 class for further details).

#### extension

Any other element can be added to the JSON object safeguarding that none of the above element names are used.

### DataType OWC:Operation

This class defines the operation either to get the information or to get the capabilities. Note that service specific extension requirements may mandate more than one operation. As such this element is an array of operations.

Table - Definitions of owc:Operation elements

| **Names: Conceptual JSON mapping** | **Definition** | **Data type and values** | **Multiplicity and use** |
| --- | --- | --- | --- |
| code  <pr>.operations[j].code | Code identifying the type of Operation | CharacterString a | One (mandatory) |
| method  <pr>.operations[j].method | Code identifying the verb type of Operation. | Character String type, not empty. Example values are GET and POST. | One (mandatory) |
| type  <pr>.operations[j].type | MIME type of the expected results | Character String type, not empty | Zero or one (optional) |
| requestURL  <pr>.operations[j].href | Service Request URL b | URL | One (mandatory) |
| request  <pr>.operations[j].request | Optional request body content c | owc:ContentType, see Table 5 | Zero or one (optional) |
| result  <pr>.operations[j].result | Optional Result Payload of the operationc | owc:ContentType, see Table 5 | Zero or one (optional) |
| extension | Any other element | Any | Zero or more (optional) |
| a Typically the OGC Service request type, e.g. “GetCapabilities” or “GetMap”.  b Full request URL for an HTTP GET, and request URL for HTTP POST.  c Not necessarily XML as the content is defined by MIME-type. If the content is text/xml or application/\*+xml it SHALL be present as a XML fragment (without the *<?xml...* header) and the encoding SHALL be the same as the feed. | | | |

#### code

**Path**: <xz>.features[i].properties.offerings[j].operations[k].code

This identifies the type of operation. The valid operation types are defined within each specific extension within the OWS Context conceptual model [OGC 12-080].

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

...

},

"features": [{

"id": "http://www.acme.eu/geoserver/wms/#algal20090123090856”,

...

"properties" : {

"offerings" : [{

"code" : " http://www.opengis.net/spec/owc-geojson/1.0/req/wms",

"operations" : [{

"code" : " GetCapabilities",

"href" : "http://www.someserver.com/wrs.cgi?REQUEST=GetCapabilities&  
amp;SERVICE=WMS&amp;VERSION=1.1.1"

}]

...

},{

"code" : " http://www.opengis.net/spec/owc-geojson/1.0/req/gml",

...

}]

...

}]

}

#### method

**Path**: <xz>.features[i].properties.offerings[j].operations[k].method

This identifies the method (verb) of the operation. Default value is GET.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

...

},

"features": [{

"id": "http://www.acme.eu/geoserver/wms/#algal20090123090856”,

...

"properties" : {

"offerings" : [{

"code" : " http://www.opengis.net/spec/owc-geojson/1.0/req/wms",

"operations" : [{

"code" : " GetCapabilities",

"method" : "GET",

"href" : "http://www.someserver.com/wrs.cgi?REQUEST=GetCapabilities&  
amp;SERVICE=WMS&amp;VERSION=1.1.1"

}]

...

},{

"code" : " http://www.opengis.net/spec/owc-geojson/1.0/req/gml",

...

}]

...

}]

}

#### type

**Path**: <xz>.features[i].properties.offerings[j].operations[k].type

It defines the MIME-type of the content class.

#### requestURL

**Path**: <xz>.features[i].properties.offerings[j].operations[k].href

For HTTP GET the serviceURL item is used to capture the entire request. For POST (and SOAP) requests, the serviceURL is used to capture the address, and an additional *request* element (section 7.3.3.5) may be specified.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

...

},

"features": [{

"id": "http://www.acme.eu/geoserver/wms/#algal20090123090856”,

...

"properties" : {

"offerings" : [{

"code" : " http://www.opengis.net/spec/owc-geojson/1.0/req/wms",

"operations" : [{

"code" : " GetCapabilities",

"method" : "GET",

"href" : "http://www.someserver.com/wrs.cgi?REQUEST=GetCapabilities&  
amp;SERVICE=WMS&amp;VERSION=1.1.1"

}]

}]

...

}]

}

#### request

**Path**: <xz>.features[i].properties.offerings[j].operations[k].request.content

Result is an optional element of the type OWC:Content that captures the request of an operation as it was sent to the server. This can be defined inline or as a reference. For POST and SOAP Requests, an element request with the payload contents may be required.

**Note**: not necessarily XML as the content is defined by MIME-type. If the content is text/xml or application/xml+\* it SHALL be present as a XML fragment (without the *<?xml...* header) and the encoding SHALL be the same as the feed.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

...

},

"features": [{

"id": "http://www.acme.eu/geoserver/csw/oceans”,

...

"properties" : {

"offerings" : [{

"code" : " http://www.opengis.net/spec/owc-geojson/1.0/req/csw",

"operations" : [{

"code" : " GetCapabilities",

"method" : "GET",

"href" : " http://www.someserver.com/wrs.cgi?service=CSW&amp;request= GetCapabilities&amp;VERSION=2.0.2"

},{

"code" : "GetRecords",

"type" : "application/xml"

"method" : "POST",

"href" : " http://www.someserver.com/wrs.cgi?service=CSW&amp;request= GetCapabilities&amp;VERSION=2.0.2",

"request":{

"type" : "application/xml",

"content" : "<csw:GetRecords maxRecords=\"10\" outputFormat=\"application/xml\" outputSchema=\"http://www.isotc211.org/2005/gmd\" resultType=\"results\" service=\"CSW\" startPosition=\"1\" version=\"2.0.2\" xmlns:ogc=\"http://www.opengis.net/ogc\" xmlns:csw=\"http://www.opengis.net/cat/csw/2.0.2\"><csw:Query typeNames=\"csw:Record Service Association\" xmlns:ogc=\"http://www.opengis.net/ogc\" xmlns:csw=\"http://www.opengis.net/cat/csw/2.0.2\"><csw:ElementSetName typeNames=\"csw:Record\" xmlns:csw=\"http://www.opengis.net/cat/csw/2.0.2\">full</csw:ElementSetName><csw:Constraint version=\"1.1.0\" xmlns:ogc=\"http://www.opengis.net/ogc\" xmlns:csw=\"http://www.opengis.net/cat/csw/2.0.2\"><ogc:Filter xmlns:ogc=\"http://www.opengis.net/ogc\"><ogc:PropertyIsEqualTo xmlns:ogc=\"http://www.opengis.net/ogc\"><ogc:PropertyName xmlns:ogc=\"http://www.opengis.net/ogc\">csw:Record/@id</ogc:PropertyName><ogc:Literal xmlns:ogc=\"http://www.opengis.net/ogc\">9496276a-4f6e-47c1-94bb-f604245fac57</ogc:Literal></ogc:PropertyIsEqualTo></ogc:Filter></csw:Constraint></csw:Query></csw:GetRecords> "

}]

}]

...

}]

}

#### result

**Path**: <xz>.features[i].properties.offerings[j].operations[k].result.content

Result is an optional element of the type OWC:Content that captures the result of an operation as it was returned from the server. This can be defined inline or as a reference. When the result content is inline XML it should be as a XML fragment (without the *<?xml...* header) and the encoding SHALL be the same as the feed.

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

...

},

"features": [{

"id": "http://www.acme.eu/geoserver/csw/oceans”,

...

"properties" : {

"offerings" : [{

"code" : " http://www.opengis.net/spec/owc-geojson/1.0/req/csw",

"operations" : [{

"code" : " GetCapabilities",

"method" : "GET",

"href" : " http://www.someserver.com/wrs.cgi?service=CSW&amp;request= GetCapabilities&amp;VERSION=2.0.2"

},{

"method" : "POST",

"code" : "GetRecords",

"href" : "http://www.someserver.com/wrs.cgi?",

"request":{

"type" : "application/xml",

"content" : "<GetRecords service=\"CSW\" version=\"2.0.2\" maxRecords=\"5\" startPosition=\"1\" resultType=\"results\" outputFormat=\"application/xml\" outputSchema=\"http://www.opengis.net/cat/csw/2.0.2\" xsi:schemaLocation=\"http://www.opengis.net/cat/csw/2.0.2 http://schemas.opengis.net/csw/2.0.2/CSW-discovery.xsd\" xmlns:xsi=\"http://www.w3.org/2001/XMLSchema-instance\" xmlns:gml=\"http://www.opengis.net/gml\" xmlns:ogc=\"http://www.opengis.net/ogc\" xmlns:csw=\"http://www.opengis.net/cat/csw/2.0.2\" xmlns=\"http://www.opengis.net/cat/csw/2.0.2\"><Query typeNames=\"csw:Record\" xmlns:gml=\"http://www.opengis.net/gml\" xmlns:ogc=\"http://www.opengis.net/ogc\" xmlns:csw=\"http://www.opengis.net/cat/csw/2.0.2\" xmlns=\"http://www.opengis.net/cat/csw/2.0.2\"><ElementSetName typeNames=\"csw:Record\" xmlns:csw=\"http://www.opengis.net/cat/csw/2.0.2\" xmlns=\"http://www.opengis.net/cat/csw/2.0.2\">full</ElementSetName><Constraint version=\"1.1.0\" xmlns:gml=\"http://www.opengis.net/gml\" xmlns:ogc=\"http://www.opengis.net/ogc\" xmlns:csw=\"http://www.opengis.net/cat/csw/2.0.2\" xmlns=\"http://www.opengis.net/cat/csw/2.0.2\"><ogc:Filter xmlns:gml=\"http://www.opengis.net/gml\" xmlns:ogc=\"http://www.opengis.net/ogc\"><ogc:And xmlns:gml=\"http://www.opengis.net/gml\" xmlns:ogc=\"http://www.opengis.net/ogc\"><ogc:PropertyIsLike escapeChar=\"\\\" singleChar=\"?\" wildCard=\"\*\" xmlns:ogc=\"http://www.opengis.net/ogc\"><ogc:PropertyName xmlns:ogc=\"http://www.opengis.net/ogc\">dc:title</ogc:PropertyName><ogc:Literal xmlns:ogc=\"http://www.opengis.net/ogc\">\*Elevation\*</ogc:Literal></ogc:PropertyIsLike><ogc:Intersects xmlns:gml=\"http://www.opengis.net/gml\" xmlns:ogc=\"http://www.opengis.net/ogc\"><ogc:PropertyName xmlns:ogc=\"http://www.opengis.net/ogc\">ows:BoundingBox</ogc:PropertyName><gml:Envelope xmlns:gml=\"http://www.opengis.net/gml\"><gml:lowerCorner xmlns:gml=\"http://www.opengis.net/gml\">14.05 46.46</gml:lowerCorner><gml:upperCorner xmlns:gml=\"http://www.opengis.net/gml\">17.24 48.42</gml:upperCorner></gml:Envelope></ogc:Intersects></ogc:And></ogc:Filter></Constraint></Query></GetRecords>"},

"result":{

"type" : "application/xml",

"content" : "<csw:Record xsi:schemaLocation=\"http://www.opengis.net/cat/csw/2.0.2 http://schemas.opengis.net/csw/2.0.2/record.xsd\" xmlns:xsi=\"http://www.w3.org/2001/XMLSchema-instance\" xmlns:ows=\"http://www.opengis.net/ows\" xmlns:dct=\"http://purl.org/dc/terms/\" xmlns:dc=\"http://purl.org/dc/elements/1.1/\" xmlns:csw=\"http://www.opengis.net/cat/csw/2.0.2\"><dc:creator xmlns:dc=\"http://purl.org/dc/elements/1.1/\">U.S. Geological Survey</dc:creator><dc:contributor xmlns:dc=\"http://purl.org/dc/elements/1.1/\">State of Texas</dc:contributor><dc:publisher xmlns:dc=\"http://purl.org/dc/elements/1.1/\">U.S. Geological Survey</dc:publisher><dc:subject xmlns:dc=\"http://purl.org/dc/elements/1.1/\">Elevation, Hypsography, and Contours</dc:subject><dc:subject xmlns:dc=\"http://purl.org/dc/elements/1.1/\">elevation</dc:subject><dct:abstract xmlns:dct=\"http://purl.org/dc/terms/\">Elevation data collected for the National Elevation Dataset (NED) based on 30m horizontal and 15m vertical accuracy.</dct:abstract><dc:identifier xmlns:dc=\"http://purl.org/dc/elements/1.1/\">ac522ef2-89a6-11db-91b1-7eea55d89593</dc:identifier><dc:relation xmlns:dc=\"http://purl.org/dc/elements/1.1/\">OfferedBy</dc:relation><dc:source xmlns:dc=\"http://purl.org/dc/elements/1.1/\">dd1b2ce7-0722-4642-8cd4-6f885f132777</dc:source><dc:rights xmlns:dc=\"http://purl.org/dc/elements/1.1/\">Copyright © 2004, State of Texas</dc:rights><dc:type xmlns:dc=\"http://purl.org/dc/elements/1.1/\">Service</dc:type><dc:title xmlns:dc=\"http://purl.org/dc/elements/1.1/\">National Elevation Mapping Service for Texas</dc:title><dct:modified xmlns:dct=\"http://purl.org/dc/terms/\">2004-03-01</dct:modified><dc:language xmlns:dc=\"http://purl.org/dc/elements/1.1/\">en</dc:language><ows:BoundingBox xmlns:ows=\"http://www.opengis.net/ows\"><ows:LowerCorner xmlns:ows=\"http://www.opengis.net/ows\">-108.44 28.229</ows:LowerCorner><ows:UpperCorner xmlns:ows=\"http://www.opengis.net/ows\">-96.223 34.353</ows:UpperCorner></ows:BoundingBox></csw:Record>"}

}]

}]

...

}]

}

#### extension

Any other element can be added to the JSON object safeguarding that none of the above element names are used.

### DataType OWC:Content

This class defines a generic container for any content. It is the class defining the array elements of the objects *offerings[i].contents[j]*, *offerings[i].operations[j].request* and *offerings[i].operations[j].result* elements

Table - Definitions of owc:Content elements

| **Names: Conceptual JSON mapping** | **Definition** | **Data type and values** | **Multiplicity and use** |
| --- | --- | --- | --- |
| type  <pr>.operations[j].<request>.type | MIME type of the Content | CharacterString not empty | One (mandatory) |
| URL  <pr>.operations[j].<request>.href | URL of the Content | URL | Zero or one (optional) a |
| title  <pr>.operations[j].<request>.title | Title of the Content | Character String type | Zero or one (optional) |
| content  <pr>.operations[j].<request>.content | In-line content for the Content element | Any | Zero or one (optional) a |
| a If the “href” attribute is present, the element content SHALL be empty. If “href” is not provided, content SHALL be provided | | | |

#### type

**Path**: <xz>.features[i].properties.offerings[j].operations[k].result.type

**Path**: <xz>.features[i].properties.offerings[j].operations[k].request.type

**Path**: <xz>.features[i].properties.offerings[j].contents[k].type

It defines the MIME-type of the content class.

#### URL

**Path**: <xz>.features[i].properties.offerings[j].operations[k].result.href

**Path**: <xz>.features[i].properties.offerings[j].operations[k].request.href

**Path**: <xz>.features[i].properties.offerings[j].contents[k].href

It provides the path to the content. It can be a full URL or a relative reference. For example you can use an http:, ftp:, file: etc, or simply a file name if the OWS context document and the content share the same location.

#### content

**Path**: <xz>.features[i].properties.offerings[j].operations[k].result.content

**Path**: <xz>.features[i].properties.offerings[j].operations[k].request.content

**Path**: <xz>.features[i].properties.offerings[j].contents[k].content

This element contains the inline content or a local file reference (encoded in any form in the document and definable via MIME Type).

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/geojson/1",

"properties" : {

...

},

"features": [{

"id": "http://www.acme.eu/geoserver/gml/draw20090123090856”,

...

"properties" : {

"offerings" : [{

"code" : " http://www.opengis.net/spec/owc-geojson/1.0/req/gml",

"contents" : [{

"type" : "application/gml+xml",

"content" : " <my\_srf:RoadCollection gml:id=\"ID\_ROADS1\" xsi:schemaLocation=\"http://www.opengis.net/gml/3.2 http://schemas.opengis.net/gml/3.2.1/gml.xsd http://www.opengis.net/owc/1.0/examples/gml/1 road.xsd\" xmlns:xsi=\"http://www.w3.org/2001/XMLSchema-instance\" xmlns:gml=\"http://www.opengis.net/gml/3.2\" xmlns:my\_srf=\"http://www.opengis.net/owc/1.0/examples/example1\"><my\_srf:road xmlns:gml=\"http://www.opengis.net/gml/3.2\" xmlns:my\_srf=\"http://www.opengis.net/owc/1.0/examples/example1\"><my\_srf:Road gml:id=\"ID\_ROAD1\" xmlns:gml=\"http://www.opengis.net/gml/3.2\" xmlns:my\_srf=\"http://www.opengis.net/owc/1.0/examples/example1\"><my\_srf:position xmlns:gml=\"http://www.opengis.net/gml/3.2\" xmlns:my\_srf=\"http://www.opengis.net/owc/1.0/examples/example1\"><gml:LineString gml:id=\"ID\_LINEROAD1\" xmlns:gml=\"http://www.opengis.net/gml/3.2\"><gml:pos xmlns:gml=\"http://www.opengis.net/gml/3.2\">300 200</gml:pos><gml:pos xmlns:gml=\"http://www.opengis.net/gml/3.2\">350 222</gml:pos></gml:LineString></my\_srf:position><my\_srf:width xmlns:my\_srf=\"http://www.opengis.net/owc/1.0/examples/example1\">4.1</my\_srf:width><my\_srf:name xmlns:my\_srf=\"http://www.opengis.net/owc/1.0/examples/example1\">M30</my\_srf:name></my\_srf:Road></my\_srf:road></my\_srf:RoadCollection>"

}]

}]

...

}]

}

#### extension

Any other element can be added to the JSON object safeguarding that none of the above element names are used.

### DataType OWC:StyleSet

This class defines a portrayal style for a resource inline or service derived content. It is specified at an offering level.

Table - Definitions of OWC:styleSet elements

| **Names: Conceptual JSON mapping** | **Definition** | **Data type and values** | **Multiplicity and use** |
| --- | --- | --- | --- |
| name  <styles>.name | Unique name of the styleSet within a given offering | CharacterString not empty | One (mandatory) |
| title  <style>.title | A Human Readable title of the styleSet within a given offering | CharacterString not empty | One (mandatory) |
| abstract  <style>.abstract | Description of the styleSet | CharacterString not empty | Zero or one (optional) |
| default  <style>.default | Whether this styleSet is the one to be defined by default. | Boolean (default value is false) | Zero or one (optional) |
| legendURL  <style>.legendURL | URL of a legend image for the styleSet | URL | Zero or one (optional) |
| content  <style>.content | The inline or a external reference to the styleSet definition | owc:ContentType, see Table 3 | Zero or one (optional) |
| extension | Any other element | Any | Zero or more (optional) |

The intention of the StyleSet is that the client could visualise the resource using say the GetMap call (which would have defined styling) but could also offer the selection of alternative styles for the layer to the user. These would be derived from the style set offering.

#### name

**Path**: <xz>.features[i].properties.offerings[j].styles[k].name

The name of the style is used to present to the service in order to invoke a standard style. It is not required on referenced styles.

TBW

#### title

**Path**: <xz>.features[i].properties.offerings[j].styles[k].title

This element is intended to provide a human readable name for an element (used in any label or legend for the style).

TBW

#### abstract

**Path**: <xz>.features[i].properties.offerings[j].styles[k].abstract

The abstract provides a textual description of the style.

TBW

#### default

**Path**: <xz>.features[i].properties.offerings[j].styles[k].default

Specifies the style to be applied when the service is invoked (other styles are there as alternatives).

Note: The default does not need to be defined and is not required when a service request in an offering already has a way of specifying the default. For example where a WMS Call can include the style request, this element is not required. However when specifying the style for a WFS or a GML File (where there is no place to specify styling) the default can be used.

TBW

#### legendURL

**Path**: <xz>.features[i].properties.offerings[j].styles[k].legendURL

The legend URL specifies a link to a legend image.

Example:

TBW

#### Content

**Path**: <xz>.features[i].properties.offerings[j].styles[k].content

The content element allows an external or an inline style definition to be identified. It is a owc:Content class and as such if it has a value on the attribute *href* it SHALL NOT have inline content. This could potentially be an OGC Styled Layer Descriptor document but also potentially a Cascading Style Sheet. The valid types of document for a given service/inline content are specified in the relevant offering extension.

TPW

or an inline content as

#### extension

Any other element can be added to the JSON object safeguarding that none of the above element names are used.

### DataType OWC:Creator

This datatype class provides place to encode information related to the creator of the context document. It includes the creator application and any relevant properties or settings for the application.

Table - Definitions of owc:Creator elements

| **Names: Conceptual JSON mapping** | **Definition** | **Data type and values** | **Multiplicity and use** |
| --- | --- | --- | --- |
| creatorApplication  generator | The name, reference and version of the creator application used to create the context document | owc:CreatorApplication  (as defined in Table 6) | Zero or one (optional) |
| creatorDisplay  display | Properties of the display in use when the context document was created (for display based applications only). | owc:CreatorDisplay (as defined in Table 7) | Zero or more (optional) |
| extension | Any encoding should allow the user to extend the Creator information to include custom items | n/a | Zero or more (optional) |

### DataType OWC:Creator/OWC:CreatorApplication

This datatype class provides place to encode information related to the application responsible be the creation of the context document (not necessarily the content described).

Table - Definitions of owc:Creator/OWC:CreatorApplication elements

| **Names: Conceptual JSON mapping** | **Definition** | **Data type and values** | **Multiplicity and use** |
| --- | --- | --- | --- |
| Title  generator.title | Title or name of the application (for display purposes) | CharacterString | Zero or one (optional) |
| uri  generator.uri | URI describing the creator application. | URI | Zero or more (optional) |
| version  generator.version | Version of the creator application | CharacterString | Zero or more (optional) |
|  | | | |

TBW

#### title

**Path**: <xz>.properties.title

The content of this element SHALL be a human-readable text (character string) where entities such as "&amp;" and "&lt;" represent their corresponding characters ("&" and "<" respectively), not markup.

#### uri

**Path**: <xz>.properties.uri

The optional *uri* attribute is a URI that when dereferenced SHALL produce a representation that is relevant to the client (web address).

#### version

**Path**: <xz>.properties.version

The optional *version* attribute is a character string that conveys the version of the generating application.

### DataType OWC:Creator/OWC:CreatorDisplay

The OWC:CreatorDisplay class provides place to encode information related to the display area used in the creator application when the OWS Context document was produced. This class is optional and intended for creator applications that use a graphical user interface with a geographical display within a fixed pixel size and not scalable to different computational devices. The set of properties of this class are only informative and creator applications SHALL NOT expect clients to use them to reproduce the original graphical display. Client applications SHALL NOT use the information of this class to define the size of their own graphical interface. The values present on this class are to be considered as a creator application metadata and client applications SHALL NOT assign any meaning to them. The presence of this class in an Context document SHALL NOT be considered an indication of any type of limitation or constraint of the Context resources (*features* elements). The mapping between the OWC:CreatorDisplay Class and JSON encoding is shown in the table below.

Table - Definitions of owc:CreatorDisplay elements

| **Names: Conceptual JSON mapping** | **Definition** | **Data type and values** | **Multiplicity and use** |
| --- | --- | --- | --- |
| pixelWidth  display.pixelWidth | Width measured in pixels of the display specified by Area of Interest. | Integer | Zero or more (optional) |
| pixelHeight  display.pixelHeight | Width measured in pixels of the display specified by Area of Interest. | Integer | Zero or more (optional) |
| mmPerPixel  display.mmPerPixel | Number of pixels per mm for the above parameters (allowing the real display size to be calculated. | Integer | Zero or more (optional) |
| extension | Any other element | Any | Zero or more (optional) |

TBW

## GeoJSON [WMS](https://portal.opengeospatial.org/wiki/OWSContextswg/WMS) Offering

**Requirement Class:** http://www.opengis.net/spec/owc-geojson/1.0/req/wms

**Scope:** All requirements in this subsection relate to the above requirement class)

**Dependencies**: [http://www.opengis.net/spec/owc/1.0/req/wms](http://www.opengis.net/spec/owc/1.0/conf/wms" \t "_top) , http://www.opengis.net/spec/owc-geojson/1.0/req/core

**Requirement id:** http://www.opengis.net/spec/owc-geojson/1.0/req/wms/content

**Requirement tx:** Encodings of this offering shall be populated in accordance with the requirements of the referenced wms conformance class (see REF 1, OWS Context Conceptual Model)

## GeoJSON [WFS](https://portal.opengeospatial.org/wiki/OWSContextswg/WFS) Offering

**Requirement Class:** http://www.opengis.net/spec/owc-geojson/1.0/req/wfs

**Scope:** All requirements in this subsection relate to the above requirement class)

**Dependencies**: [http://www.opengis.net/spec/owc/1.0/req/wms](http://www.opengis.net/spec/owc/1.0/conf/wms" \t "_top) , http://www.opengis.net/spec/owc-geojson/1.0/req/core

**Requirement id:** http://www.opengis.net/spec/owc-geojson/1.0/req/wfs/content

**Requirement tx:** Encodings of this offering shall be populated in accordance with the requirements of the referenced wfs conformance class (see REF 1, OWS Context Conceptual Model)

TBW

## GeoJSON [WCS](https://portal.opengeospatial.org/wiki/OWSContextswg/WCS) Offering

**Requirement Class:** http://www.opengis.net/spec/owc-geojson/1.0/req/wcs

**Scope:** All requirements in this subsection relate to the above requirement class)

**Dependencies**: [http://www.opengis.net/spec/owc/1.0/req/wcs](http://www.opengis.net/spec/owc/1.0/conf/wcs" \t "_top), http://www.opengis.net/spec/owc-geojson/1.0/req/core

**Requirement id:** http://www.opengis.net/spec/owc-geojson/1.0/req/wcs/content

**Requirement tx:** Encodings of this offering shall be populated in accordance with the requirements of the referenced wcs conformance class (see REF 1, OWS Context Conceptual Model)

TBW

## GeoJSON [WPS](https://portal.opengeospatial.org/wiki/OWSContextswg/WPS) Offering

**Requirement Class:** http://www.opengis.net/spec/owc-geojson/1.0/req/wps

**Scope:** All requirements in this subsection relate to the above requirement class)

**Dependencies**: [http://www.opengis.net/spec/owc/1.0/req/wps](http://www.opengis.net/spec/owc/1.0/conf/wps" \t "_top) , http://www.opengis.net/spec/owc-geojson/1.0/req/core

**Requirement id:** http://www.opengis.net/spec/owc-geojson/1.0/req/wps/content

**Requirement tx:** Encodings of this offering shall be populated in accordance with the requirements of the referenced wps conformance class (see REF 1, OWS Context Conceptual Model)

TBW

## GeoJSON [CSW](https://portal.opengeospatial.org/wiki/OWSContextswg/CSW) Offering

**Requirement Class:** http://www.opengis.net/spec/owc-geojson/1.0/req/csw

**Scope:** All requirements in this subsection relate to the above requirement class)

**Dependencies**: [http://www.opengis.net/spec/owc/1.0/req/csw](http://www.opengis.net/spec/owc/1.0/conf/csw" \t "_top) , http://www.opengis.net/spec/owc-geojson/1.0/req/core

**Requirement id:** http://www.opengis.net/spec/owc-geojson/1.0/req/csw/content

**Requirement tx:** Encodings of this offering shall be populated in accordance with the requirements of the referenced wps conformance class (see REF 1, OWS Context Conceptual Model)

TBW

## GeoJSON [WMTS](https://portal.opengeospatial.org/wiki/OWSContextswg/WMTS) Offering

**Requirement Class:** http://www.opengis.net/spec/owc-geojson/1.0/req/wmts

**Scope:** All requirements in this subsection relate to the above requirement class)

**Dependencies**: [http://www.opengis.net/spec/owc/1.0/req/wmts](http://www.opengis.net/spec/owc/1.0/conf/wmts" \t "_top) , http://www.opengis.net/spec/owc-geojson/1.0/req/core

**Requirement id:** http://www.opengis.net/spec/owc-core/1.0/req/wmts/content

**Requirement tx:** Encodings of this offering shall be populated in accordance with the requirements of the referenced wmts conformance class (see REF 1, OWS Context Conceptual Model)

TBW

## GeoJSON GML Offering

**Requirement Class:** http://www.opengis.net/spec/owc-geojson/1.0/req/gml

**Scope:** All requirements in this subsection relate to the above requirement class)

**Dependencies**: [http://www.opengis.net/spec/owc/1.0/req/gml](http://www.opengis.net/spec/owc/1.0/conf/gml" \t "_top) , http://www.opengis.net/spec/owc-geojson/1.0/req/core

**Requirement id:** http://www.opengis.net/spec/owc-geojson/1.0/req/gml/content

**Requirement tx:** Encodings of this offering shall be populated in accordance with the requirements of the referenced gml conformance class (see REF 1, OWS Context Conceptual Model)

TBW

Note it is also valid to specify a file or url reference to gml content. See the content class definition for details.

## GeoJSON KML Offering

**Requirement Class:** http://www.opengis.net/spec/owc-geojson/1.0/req/kml

**Scope:** All requirements in this subsection relate to the above requirement class)

**Dependencies**: [http://www.opengis.net/spec/owc/1.0/req/kml](http://www.opengis.net/spec/owc/1.0/conf/kml" \t "_top) , http://www.opengis.net/spec/owc-geojson/1.0/req/core

**Requirement id:** http://www.opengis.net/spec/owc-geojson/1.0/req/kml/content

**Requirement tx:** Encodings of this offering shall be populated in accordance with the requirements of the referenced kml conformance class (see REF 1, OWS Context Conceptual Model)

TBW

Note it is also valid to specify a file or url reference to gml content. See the content class definition for details.

## GeoJSON GeoTIFF Offering

**Requirement Class:** http://www.opengis.net/spec/owc-geojson/1.0/req/geotiff

**Scope:** All requirements in this subsection relate to the above requirement class)

**Dependencies**: [http://www.opengis.net/spec/owc/1.0/req/geotiff](http://www.opengis.net/spec/owc/1.0/conf/geotiff" \t "_top) , http://www.opengis.net/spec/owc-geojson/1.0/req/core

**Requirement id:** http://www.opengis.net/spec/owc-geojson/1.0/req/geotiff/content

**Requirement tx:** Encodings of this offering shall be populated in accordance with the requirements of the referenced geotiff conformance class (see REF 1, OWS Context Conceptual Model)

TBW

## GeoJSON GMLJP2 Offering

**Requirement Class:** http://www.opengis.net/spec/owc-geojson/1.0/req/gmljp2

**Scope:** All requirements in this subsection relate to the above requirement class)

**Dependencies**: [http://www.opengis.net/spec/owc/1.0/req/gmljp2](http://www.opengis.net/spec/owc/1.0/conf/gmljp2" \t "_top) , http://www.opengis.net/spec/owc-geojson/1.0/req/core

**Requirement id:** http://www.opengis.net/spec/owc-geojson/1.0/req/gmljp2/content

**Requirement tx:** Encodings of this offering shall be populated in accordance with the requirements of the referenced gmljp2 conformance class (see REF 1, OWS Context Conceptual Model)

TBW

## GeoJSON GMLCOV Offering

**Requirement Class:** http://www.opengis.net/spec/owc-geojson/1.0/req/gmlcov

**Scope:** All requirements in this subsection relate to the above requirement class)

**Dependencies**: http://www.opengis.net/spec/owc/1.0/req/gmlcov , http://www.opengis.net/spec/owc-geojson/1.0/req/core

**Requirement id:** http://www.opengis.net/spec/owc-geojson/1.0/req/gmlcov/content

**Requirement tx:** Encodings of this offering shall be populated in accordance with the requirements of the referenced gmlcov conformance class (see REF 1, OWS Context Conceptual Model)

TBW

# 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.

TBD

Annex A: Conformance Class Abstract Test Suite (Normative)

Conformance class: AAAA (repeat as necessary)

Annex B: Examples

* 1. wmts.json

{

"type": "FeatureCollection",

"id": "http://www.opengis.net/owc/1.0/examples/wmts",

"geometry": {},

"properties" : {

"lang" : "en",

"title" : "WMTS Example",

"subtitle" : "WMTS Example",

"updated" : "2012-11-04T17:26:23Z",

"authors" : [{"name" : "John Doe"}],

"contributors" : [],

"categories" : [],

"links" : [{

"rel" : "profile",

"href" : "http://www.opengis.net/spec/owc-geojson/1.0/req/core",

"title" : "Compliant with version 1.0 of OGC Context"

}]

},

"features" : [{

"type": "Feature",

"id": "http://www.opengis.net/spec/owc-geojson/1.0/req/wmts/1",

"geometry": {},

"properties": {

"title" : "WMTS Example",

"updated" : "2011-11-01T00:00:00Z",

"content" : "WMTS example",

"authors" : [],

"contributors" : [],

"categories" : [],

"links" : [],

"offerings" : [{

"code" : "http://www.opengis.net/spec/owc-geojson/1.0/req/wmts",

"operations" : [{

"code" : "GetCapabilities",

"method" : "GET",

"type" : "application/xml",

"href" : "http://www.opengis.uab.es/cgi-bin/ICCTiled/MiraMon.cgi?REQUEST=GetCapabilities&SERVICE=WMTS",

"request":{},

"result":{}

},{

"code" : "GetTile",

"method" : "GET",

"type" : "image/jpeg",

"href" : "http://www.opengis.uab.es/cgi-bin/ICCTiled/MiraMon.cgi?REQUEST=GetTile&SERVICE=WMTS&version=1.0.0&format=image/jpeg&layer=Topo250k\_Vers5\_ICC&TileMatrixSet=Cat\_topo250k\_v5\_EPSG23031&TileMatrix=200m&TileRow=1&TileCol=0",

"request":{},

"result":{}

}],

"contents" : []

}]

}

}]

}

Annex C: Revision history

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date | Release | Author | Paragraph modified | Description |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

Annex D: Bibliography

<A Bibliography, if present, shall appear as the last annex. >

1. [www.opengeospatial.org/cite](http://www.opengeospatial.org/cite) [↑](#footnote-ref-1)