Name type specification - documents

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Warning

This document defines an OGC Policy. It is subject to change without notice. This document is an official position of the OGC membership on this particular topic.
i.  Preface

This document specifies a rule for constructing OGC names that may be used for identifying documents and elements within a document.

ii.  Document terms and definitions

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

Name production rules in this document are expressed using ABNF (IETF RFC 5324).

iii.  Revision History

<table>
<thead>
<tr>
<th>Date</th>
<th>Internal version</th>
<th>Editor</th>
<th>Sections modified</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>25 March 2009</td>
<td>0.1.0 Draft</td>
<td>Simon Cox</td>
<td>N/A</td>
<td>Initial Draft Document.</td>
</tr>
<tr>
<td>1 April 2009</td>
<td></td>
<td>Simon Cox</td>
<td>All</td>
<td>Remove specification elements from scope of 'doc' branch. Minor tweaks and corrections for consistency with the other OGC-NA documents.</td>
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<tr>
<td>21 May 2009</td>
<td></td>
<td>Simon Cox</td>
<td>3</td>
<td>Replaced EBNF with ABNF</td>
</tr>
<tr>
<td>January 2010</td>
<td>1.1</td>
<td>Simon Cox</td>
<td>All</td>
<td>ABNF revised to match RFC 3986; http URI syntax made explicit</td>
</tr>
<tr>
<td>November 2010</td>
<td>1.2</td>
<td>Simon Cox</td>
<td>3.2, 5.2</td>
<td>‘#’ allowed as well as ‘/’ before doc element in http URI form. ‘-’ allowed as well as ‘/’ to separate sub-elements of doc element.</td>
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Name type specification - documents

1 Scope

An OGC name may be provided for a document published by OGC, such as OpenGIS Standards, Best Practice Papers, Discussion papers, and also for an individual element within document, such as clauses, tables, or figures.

The precise scope of documents that may be identified with OGC Names is provided by the set of items in the register http://urn.opengis.net/register/ogc-na/doc-type. The precise scope of document elements that may be identified with OGC Names is provided by the set of items in the register http://urn.opengis.net/register/ogc-na/doc-element-type.
2 Normative references:


OGC 05-020r10, Technical Committee Policies and Procedures http://www.opengis.net/doc/POL/PnP

OGC 09-046r2, OGC Naming Authority – Procedures http://www.opengis.net/doc/POL/OGC-NA
3 Naming rule

3.1 OGC name schemes

Two URI schemes [IETF RFC 3986] are defined by OGC to provide persistent names for resources of interest in geographic information infrastructures. The generic syntax for OGC names is described in [OGC Naming Authority – Procedures].

The generic syntax for OGC http URIs is

\[
\text{URI} = "http://www.opengis.net/" \text{OGCResource }/\text{ ResourceSpecificPath}
\]

The generic syntax for OGC URNs is [IETF RFC 5165]

\[
\text{URN} = "urn:ogc:" \text{OGCResource }:\text{ ResourceSpecificString}
\]

The following ABNF adapted from [IETF RFC 3986] provides some basic definitions required in the rest of this document.

\[
\begin{align*}
\text{segment} & = *\text{pchar} \\
\text{segment-nc} & = *\text{pchar-nc} \\
\text{segment-nz} & = 1*\text{pchar} \\
\text{segment-nz-nc} & = 1*\text{pchar-nc} \\
\text{pchar} & = \text{unreserved} / \text{pct-encoded} / \text{sub-delims} / ":" / ":\" \\
\text{pchar-nc} & = \text{unreserved} / \text{pct-encoded} / \text{sub-delims} / ":\" \\
\text{pct-encoded} & = \% \text{HEXDIG} \text{HEXDIG} \\
\text{unreserved} & = \text{ALPHA} / \text{DIGIT} / \"-\" / \".\" / \"_\" / \"\_\" \\
\text{reserved} & = \text{gen-delims} / \text{sub-delims} \\
\text{gen-delims} & = \:" /="/\" / "?" / "#" / "[" / "]\" / ":\" \\
\text{sub-delims} & = ":!" / ":$" / "&" / ":'" / ":" / ":(" / ":")" \\
& / "*" / "+" / ":", / ":;" / ":="
\end{align*}
\]

3.2 Production rule for document names

An OGC name for a document or document element shall be produced using the following rule:

\[
\begin{align*}
\text{OGCResource} & = "doc" \\
\text{ResourceSpecificPath} & = \text{doc-type }/\text{ doc-identifier} \{ ( "#" / "/" ) \text{doc-element} \}
\end{align*}
\]
ResourceSpecificString = doc-type ":" doc-identifierURN [":" doc-elementURN]

doc-type = segment-nz-nc; token from the register of OGC document types

doc-identifier = doc-name ["/" doc-version]

doc-identifierURN = doc-name [":" doc-version]

doc-name = segment-nz-nc; acronym or code for document topic

doc-version = 1*DIGIT "." 1*DIGIT ["." 1*DIGIT]

doc-element = doc-element-type ("-" / "/") element-number

doc-elementURN = doc-element-type ":" element-number

doc-element-type = segment-nz-nc; token from the register of OGC document element types

element-number = 1*DIGIT *("." 1*DIGIT)

NOTE: The document element (clause, table, figure, etc) is optional. If present, in the http URI form the element designator follows either a '/' or '#', and sub-elements may be separated by either '/' or '-'. If the '#' form is used as a fragment separator resolution of the secondary resource is delegated to the http client. If the '#' form is used as a fragment separator, the '-' is recommended as the separator for sub-elements.

---

1 http://uwww.opengis.net/register/ogc-na/doc-type.

2 http://uwww.opengis.net/register/ogc-na/doc-element-type
4 Name assignment policy

4.1 Document types

The registers of document types http://www.opengis.net/register/ogc-na/doc-type is controlled by OGC-NA. Changes to this register (additions, deletions, and supersession) shall be initiated by a submission to the OGC Naming Authority names@opengeospatial.org.

4.2 Document element types

The registers of document element types is controlled by OGC-NA. Changes to this register (additions, deletions, and supersession) shall be by application to ogcna@lists.opengeospatial.org.

The current state of the register of document element types is shown at http://www.opengis.net/register/ogc-na/doc-element-type.

4.3 Names

The register of names http://www.opengis.net/register/ogc-na/name is controlled by OGC-NA. Changes to this register (additions, deletions, and supersession) shall be initiated by a submission to the OGC Naming Authority names@opengeospatial.org.

NOTE: The approval of any new public document by OGC shall automatically trigger a registration request to OGC-NA. The name assigned shall be included on the cover page of the document.
5 Examples

5.1 Complete documents

Example 1 The OGC Name for the WMS specification, version 1.3, is:
http URI Form

  http://www.opengis.net/doc/IS/WMS/1.3

URN Form

  urn:ogc:doc:IS:WMS:1.3

Example 2 The OGC Name for the Discrete Coverage Interleaved Encoding best practice document, version 0.2.0 is:
http URI Form

  http://www.opengis.net/doc/BP/DCV/0.2

URN Form

  urn:ogc:doc:BP:DCV:0.2

Example 3 The OGC Name for the KML Requirements engineering report, version 1.0 is:
http URI Form

  http://www.opengis.net/doc/ER/KML-REQ/1.0

URN Form

  urn:ogc:doc:ER:KML-REQ:1.0

Example 4 The OGC Name for the charter for the Hydrology Domain Working Group is:
http URI Form

  http://www.opengis.net/doc/CHARTER/HYDRO-DWG

URN Form

  urn:ogc:doc:CHARTER:HYDRO-DWG

5.2 Document elements

Example 5 The OGC Name for Clause 5.2 of the WMS specification, version 1.3, is:
http URI Form

  http://www.opengis.net/doc/IS/WMS/1.3#clause-5.2

URN Form

  urn:ogc:doc:IS:WMS:1.3:clause:5.2

Example 6 The OGC Name for Figure 1 of the WMS specification, version 1.3, is:
Example 7 The OGC Name for Annex A.2.5 in the Modular Specifications standard, version 1.0, is:

http URI Form
http://www.opengis.net/doc/std/spec/1.3#clause-a.2.5

URN Form
urn:ogc:doc:std:spec:1.0:clause:A.2.5