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**Geographic information —
Ontology —**

**Part 2:
Rules for developing ontologies in the
Web Ontology Language (OWL)**

AMENDMENT 1

Information géographique — Ontologie —

*Partie 2: Règles pour le développement d'ontologies dans le langage
d'ontologie Web (OWL)*

AMENDEMENT 1



Reference number
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Geographic information — Ontology —

Part 2:

Rules for developing ontologies in the Web Ontology Language (OWL)

AMENDMENT 1

Page 26, Clause 6.7.2.3

Replace Table 16 and the example following the Table with the following. This corrects the description of a `skos:collection` for the purpose of codelist implementation by rectifying the declaration of `skos:members` to `skos:member`.

Table 16 — Code list

Requirement
19150-2package:codelist
A CODELIST shall correspond to a Class <OWL>, a ConceptScheme <SKOS>, and a Collection <SKOS>. The Class <OWL> shall be a subclass of <i>skos:Concept</i>. The SKOS concept scheme shall be related to the Class <OWL> using a <i>dct:isFormatOf</i> property. Each member of the CODELIST shall correspond to an individual whose type is the Class <OWL> corresponding to the CODELIST, and with a <i>skos:inScheme</i> property whose value is the ConceptScheme <SKOS> corresponding to the CODELIST. Additionally, each member of the CODELIST shall also be member of the Collection <SKOS> using a <i>skos:member</i> declaration. Each of the resources shall be annotated with the following: — a label, using <i>rdfs:label</i>, — a source for the definition, using <i>rdfs:isDefinedBy</i> for the IRI of the resource.

The following example illustrates the construction of a CodeList using the OWL and SKOS elements.

EXAMPLE

RDF/Turtle serialization

```

exPk:ClassA a owl:Class ;
  rdfs:subClassOf skos:Concept ;
  rdfs:label "ClassA" ;
  rdfs:isDefinedBy <http://sourceDefinitionIRI> .
exPkCode:ClassA a skos:ConceptScheme ;
  skos:prefLabel "ClassA - ConceptScheme" ;
  rdfs:isDefinedBy <http://sourceDefinitionIRI> ;
  dct:isFormatOf exPk:ClassA .
exPkCode:ClassA/value1 a exPk:ClassA , skos:Concept ;
  skos:prefLabel "value1" ;
  skos:inScheme exPkCode:ClassA ;
  rdfs:isDefinedBy <http://sourceDefinitionIRI> .
exPkCode:ClassA/value2 a exPk:ClassA , skos:Concept ;
  skos:prefLabel "value2" ;
  skos:inScheme exPkCode:ClassA ;
  rdfs:isDefinedBy <http://sourceDefinitionIRI> .
exPkCode:ClassA/value3 a exPk:ClassA , skos:Concept ;
  skos:prefLabel "value3" ;
  skos:inScheme exPkCode:ClassA ;
  rdfs:isDefinedBy <http://sourceDefinitionIRI> .

```

```
exPkCode: ClassACollection a skos:Collection ;
  skos:prefLabel "ClassA - Concepts" ;
  skos:member exPkCode: ClassA/value1 ;
  skos:member exPkCode: ClassA/value2 ;
  skos:member exPkCode: ClassA/value3 .
```

RDF/XML serialization

```
<owl:Class rdf:about="&exPk;ClassA">
  <rdfs:label>ClassA</rdfs:label>
  <rdfs:isDefinedBy>http://sourceDefinitionIRI</rdfs:isDefinedBy>
  <rdfs:subClassOf rdf:resource="&skos;Concept"/>
</owl:Class>
<skos:ConceptScheme rdf:about="&exPkCode;ClassA">
  <skos:prefLabel>ClassA - ConceptScheme</skos:prefLabel>
  <rdfs:isDefinedBy>http://sourceDefinitionIRI</rdfs:isDefinedBy>
  <dc:isFormatOf rdf:resource="&exPk;ClassA"/>
</skos:ConceptScheme>
<exPk:ClassA rdf:about="&exPkCode;ClassA/value1">
  <rdf:type rdf:resource="skos:Concept"/>
  <skos:prefLabel>value1</skos:prefLabel>
  <skos:inScheme rdf:resource="exPkCode:ClassA"/>
  <rdfs:isDefinedBy>http://sourceDefinitionIRI</rdfs:isDefinedBy>
</exPk:ClassA>
<exPk:ClassA rdf:about="&exPkCode;ClassA/value2">
  <rdf:type rdf:resource="skos:Concept"/>
  <skos:prefLabel>value2</skos:prefLabel>
  <skos:inScheme rdf:resource="exPkCode:ClassA"/>
  <rdfs:isDefinedBy>http://sourceDefinitionIRI</rdfs:isDefinedBy>
</exPk:ClassA>
<exPk:ClassA rdf:about="&exPkCode;ClassA/value3">
  <rdf:type rdf:resource="skos:Concept"/>
  <skos:prefLabel>value3</skos:prefLabel>
  <skos:inScheme rdf:resource="exPkCode:ClassA"/>
  <rdfs:isDefinedBy>http://sourceDefinitionIRI</rdfs:isDefinedBy>
</exPk:ClassA>
<skos:Collection rdf:about="&exPkCode;ClassACollection">
  <skos:prefLabel>ClassA - Concepts</skos:prefLabel>
  <skos:member rdf:resource="&exPkCode;ClassA/value1"/>
  <skos:member rdf:resource="&exPkCode;ClassA/value2"/>
  <skos:member rdf:resource="&exPkCode;ClassA/value3"/>
</owl:Collection>
```