

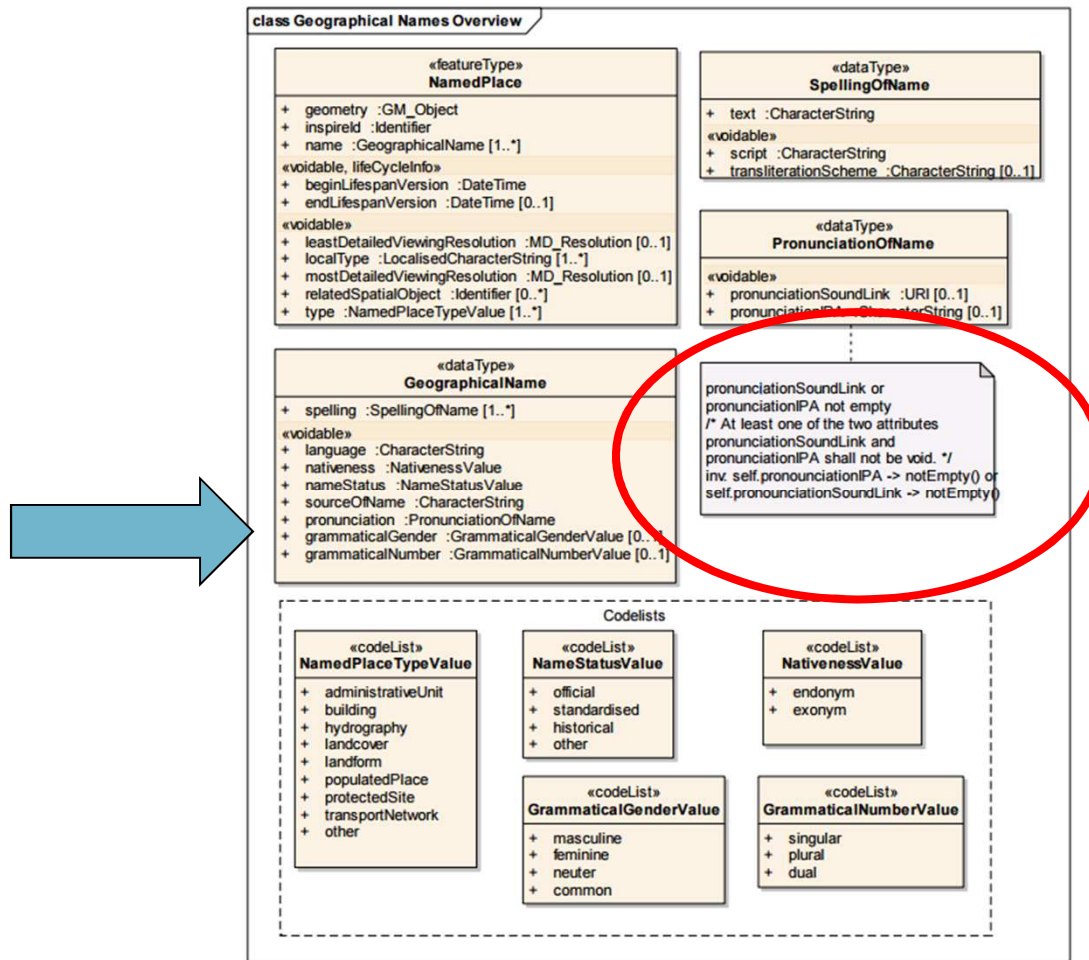
Transformation of theme Addresses

AD

Jakob Ventin NLS Finland
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Question on GN



Source data

- National Topographic database (open data)
 - Automatically calculated address points
 - The quality of this data is not sufficient. However partial compatibility with the AD theme was reached.
- Under investigation: use of data from Population Register Centre (Not open data)
 - Data is more accurate
 - Requires work on licenses

Main issues (1/3)

- The schema is found to be very heavy
 - The output in GML consist of mainly field names etc.
 - Hard to read for a client
 - Or even unusable?
- The data model could be much more compact

Main issues (2/3)

```

▼ <wfs:FeatureCollection xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:wfs="http://www.opengis.net/wfs/2.0" xmlns:gml="http://www.opengis.net/gml/3.2" xsi:schemaLocation="http://www.opengis.net/wfs/2.0 http://schemas.opengis.net/wfs/2.0/wfs.xsd http://www.opengis.net/gml/3.2 http://schemas.opengis.net/gml/3.2.1/gml.xsd http://inspire.ec.europa.eu/draft-schemas/bu/3.0rc3 http://elf-wfs.maanmittauslaitos.fi/elf-wfs/services/elf-lod0ad?SERVICE=WFS&VERSION=2.0.0&REQUEST=DescribeFeatureType&OUTPUTFORMAT=application%2Fgml%28xml%3B-version%3D3.2" timeStamp="2015-04-16T21:05:39Z" numberMatched="unknown" numberReturned="0">
  <!--
    NOTE: numberReturned attribute should be 'unknown' as well, but this would not validate against the current version of the WFS 2.0 schema (change upcoming). See change request (CR 144): https://portal.openeospatial.org/files?artifa
  -->
  <wfs:member>
    ▼ <elf-lod0ad:Address xmlns:elf-lod0ad="http://www.locationframework.eu/schemas/Addresses/MasterLod0/1.0" gml:id="FI_MTK_OSOITE_1076">
      ▼ <ad:inspireId xmlns:ad="urn:x-inspire:specification:gmlas:Addresses:3.0">
        ▼ <base:Identifier xmlns:base="http://inspire.ec.europa.eu/schemas/base/3.3rc3/">
          <base:localId>1076</base:localId>
          <base:namespace>http://paikkatiedot.fi/so/1000785/Address</base:namespace>
          <base:versionId xsi:nil="true" nilReason="unpopulated"/>
        </base:Identifier>
      </ad:inspireId>
      ▼ <ad:position xmlns:ad="urn:x-inspire:specification:gmlas:Addresses:3.0">
        ▼ <ad:GeographicPosition>
          ▼ <ad:geometry>
            ▼ <gml:Point gml:id="FI_MTK_OSOITE_1076_AD_POSITION" srsName="EPSG:3035">
              <gml:pos>5032019.655 4505181.968</gml:pos>
            </gml:Point>
          </ad:geometry>
          <ad:specification xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://inspire.ec.europa.eu/codelist/GeometrySpecificationValue/segment"/>
          <ad:method xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://inspire.ec.europa.eu/codelist/GeometryMethodValue/fromFeature"/>
          <ad:default>true</ad:default>
        </ad:GeographicPosition>
      </ad:position>
      ▼ <ad:locator xmlns:ad="urn:x-inspire:specification:gmlas:Addresses:3.0">
        ▼ <ad:AddressLocator>
          ▼ <ad:designator>
            ▼ <ad:LocatorDesignator>
              ▼ <ad:designator>
                <ad:designator>344</ad:designator>
                <ad:type xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://inspire.ec.europa.eu/codelist/LocatorDesignatorTypeValue/addressNumber"/>
              </ad:LocatorDesignator>
            </ad:designator>
            <ad:level xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://inspire.ec.europa.eu/codelist/LocatorLevelValue/siteLevel"/>
          </ad:AddressLocator>
        </ad:locator>
        <ad:validFrom xmlns:ad="urn:x-inspire:specification:gmlas:Addresses:3.0" xsi:nil="true" nilReason="unpopulated"/>
        <ad:validTo xmlns:ad="urn:x-inspire:specification:gmlas:Addresses:3.0" xsi:nil="true" nilReason="unpopulated"/>
        <ad:beginLifespanVersion xmlns:ad="urn:x-inspire:specification:gmlas:Addresses:3.0" xsi:nil="true" nilReason="unpopulated"/>
        <ad:endLifespanVersion xmlns:ad="urn:x-inspire:specification:gmlas:Addresses:3.0" xsi:nil="true" nilReason="UNKNOW"/>
        <ad:component xmlns:ad="urn:x-inspire:specification:gmlas:Addresses:3.0" xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://elf-wfs.maanmittauslaitos.fi/elf-wfs/services/elf-lod0ad?SERVICE=WFS&VERSION=2.0.0&REQUEST=GetFeature&OUTPUTFORMAT=application%2Fgml%28xml%3B-version%3D3.2&STOREDQUERY_ID=urn:ogc:def:query:OGC-WFS::GetFeatureByIdID=KUNTANIMI_0051#KUNTANIMI_0051"/>
        <ad:component xmlns:ad="urn:x-inspire:specification:gmlas:Addresses:3.0" xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://elf-wfs.maanmittauslaitos.fi/elf-wfs/services/elf-lod0ad?SERVICE=WFS&VERSION=2.0.0&REQUEST=GetFeature&OUTPUTFORMAT=application%2Fgml%28xml%3B-version%3D3.2&STOREDQUERY_ID=urn:ogc:def:query:OGC-WFS::GetFeatureByIdID=TIENIMI_10#TIENIMI_10"/>
      </elf-lod0ad:Address>
    </wfs:member>
  </wfs:FeatureCollection>

```


Main issues (3/3) & resolveDepth=1

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This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<?xml version="1.0" encoding="UTF-8" ?>
<wfs:FeatureCollection xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:wfs="http://www.opengis.net/wfs/2.0" xmlns:gml="http://www.opengis.net/gml/3.2" xsi:schemaLocation="http://www.opengis.net/wfs/2.0 http://schemas.opengis.net/wfs/2.0/wfs.xsd http://www.opengis.net/gml/3.2 http://schemas.opengis.net/gml/3.2.1/gml.xsd http://inspire.ec.europa.eu/draft-schemas/bu/3.0rc3 http://viskartake01.nls.fi:8080/elf-wfs/services/elf-lod0ad?SERVICE=WFS&VERSION=2.0.0&REQUEST=DescribeFeatureTypes&OUTPUTFORMAT=application%2Fgml%28xml%3B-version%3D3.2" timeStamp="2015-04-16T21:00:51Z" numberMatched="unknown" numberReturned="0">
  <!--
    NOTE: numberReturned attribute should be 'unknown' as well, but this would not validate against the current version of the WFS 2.0 schema (change upcoming). See change request (CR 144): https://portal.opengeospatial.org/files?artifact_id=41
  -->
  <wfs:member>
    <elf-lod0ad:Address xmlns:elf-lod0ad="http://www.locationframework.eu/schemas/Addresses/MasterLoD0/1.0" gml:id="FI_MTK_OSOITE_1076">
      <ad:inspireId xmlns:ad="urn:x-inspire:specification:gmlas:Addresses:3.0">
        <base:Identifier xmlns:base="http://inspire.ec.europa.eu/schemas/base/3.3rc3/">
          <base:localId>1076</base:localId>
          <base:namespace>http://paikkatiedot.fi/so/1000785/Address</base:namespace>
          <base:versionId xsi:nil="true" nilReason="unpopulated"/>
        </base:Identifier>
      </ad:inspireId>
      <ad:position xmlns:ad="urn:x-inspire:specification:gmlas:Addresses:3.0">
        <ad:GeographicPosition>
          <ad:geometry>
            <gml:Point gml:id="FI_MTK_OSOITE_1076_AD_POSITION" srsName="EPSG:3035">
              <gml:pos>5032019.655 4505181.968</gml:pos>
            </gml:Point>
          </ad:geometry>
          <ad:specification xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://inspire.ec.europa.eu/codelist/GeometrySpecificationValue/segment"/>
          <ad:method xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://inspire.ec.europa.eu/codelist/GeometryMethodValue/fromFeature"/>
          <ad:default>true</ad:default>
        </ad:GeographicPosition>
      </ad:position>
      <ad:locator xmlns:ad="urn:x-inspire:specification:gmlas:Addresses:3.0">
        <ad:AddressLocator>
          <ad:designator>
            <ad:locatorDesignator>
              <ad:designator>344</ad:designator>
              <ad:type xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://inspire.ec.europa.eu/codelist/LocatorDesignatorTypeValue/addressNumber"/>
            </ad:locatorDesignator>
          </ad:designator>
          <ad:level xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://inspire.ec.europa.eu/codelist/LocatorLevelValue/siteLevel"/>
        </ad:AddressLocator>
      </ad:locator>
      <ad:validFrom xmlns:ad="urn:x-inspire:specification:gmlas:Addresses:3.0" xsi:nil="true" nilReason="unpopulated"/>
      <ad:validTo xmlns:ad="urn:x-inspire:specification:gmlas:Addresses:3.0" xsi:nil="true" nilReason="unpopulated"/>
      <ad:beginLifespanVersion xmlns:ad="urn:x-inspire:specification:gmlas:Addresses:3.0" xsi:nil="true" nilReason="unpopulated"/>
      <ad:endLifespanVersion xmlns:ad="urn:x-inspire:specification:gmlas:Addresses:3.0" xsi:nil="true" nilReason="UNKNOWM"/>
      <ad:component xmlns:ad="urn:x-inspire:specification:gmlas:Addresses:3.0" xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="#KUNTANIMI_0051"/>
      <ad:component xmlns:ad="urn:x-inspire:specification:gmlas:Addresses:3.0" xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="#TIENIMI_10"/>
    </elf-lod0ad:Address>
  </wfs:member>
  <wfs:additionalObjects>
    <wfs:SimpleFeatureCollection>
      <wfs:member>
        <elf-lod0ad:AdminUnitName xmlns:elf-lod0ad="http://www.locationframework.eu/schemas/Addresses/MasterLoD0/1.0" gml:id="KUNTANIMI_51">
          <ad:inspireId xmlns:ad="urn:x-inspire:specification:gmlas:Addresses:3.0">
            <base:Identifier xmlns:base="http://inspire.ec.europa.eu/schemas/base/3.3rc3/">
              <base:localId>51</base:localId>
              <base:namespace>http://paikkatiedot.fi/so/1000785/AdminUnitName</base:namespace>
              <base:versionId xsi:nil="true" nilReason="unpopulated"/>
            </base:Identifier>
          </ad:inspireId>
          <ad:name xmlns:ad="urn:x-inspire:specification:gmlas:Addresses:3.0">
            <ad:GeographicalName xmlns:ad="urn:x-inspire:specification:gmlas:GeographicalNames:3.0">
              <gml:language>fin</gml:language>
            </ad:GeographicalName>
          </ad:name>
        </elf-lod0ad:AdminUnitName>
      </wfs:member>
    </wfs:SimpleFeatureCollection>
  </wfs:additionalObjects>
</wfs:FeatureCollection>
```

Main issues (3/3) &resolvedepth=1

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```
<gn:language>fi</gn:language>
<gn:nativeness xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://inspire.ec.europa.eu/codelist/NativenessValue/endorym"/>
<gn:nameStatus xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://inspire.ec.europa.eu/codelist/NameStatusValue/official"/>
  <gn:sourceOfName>
    National Land Survey of Finland - Topographic Database
  </gn:sourceOfName>
  <gn:pronunciation xsi:nil="true" nilReason="unpopulated"/>
  <gn:spelling>
    <gn:SpellingOfName>
      <gn:text>Alajärvi</gn:text>
      <gn:script>Latn</gn:script>
    </gn:SpellingOfName>
  </gn:spelling>
</gn:GeographicalName>
</ad:name>
<ad:level xmlns:ad="urn:x-inspire:specification:gmlas:Addresses:3.0"/>
</elf-lod0ad:AdminUnitName>
</wfs:member>
<wfs:member>
  <elf-lod0ad:ThoroughfareName xmlns:elf-lod0ad="http://www.locationframework.eu/schemas/Addresses/MasterLoD0/1.0" gml:id="TIENIMI_10">
    <ad:inspireId xmlns:ad="urn:x-inspire:specification:gmlas:Addresses:3.0">
      <base:Identifier xmlns:base="http://inspire.ec.europa.eu/schemas/base/3.3rc3/">
        <base:localId>10</base:localId>
      </base:Identifier>
      <base:namespace>
        http://paikkatiedot.fi/so/1000785/ThoroughfareName/
      </base:namespace>
      <base:versionId xsi:nil="true" nilReason="unpopulated"/>
    </ad:inspireId>
    <ad:name xmlns:ad="urn:x-inspire:specification:gmlas:Addresses:3.0">
      <gn:GeographicalName xmlns:gn="urn:x-inspire:specification:gmlas:GeographicalNames:3.0">
        <gn:language>fin</gn:language>
        <gn:nativeness xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://inspire.ec.europa.eu/codelist/NativenessValue/endorym"/>
        <gn:nameStatus xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://inspire.ec.europa.eu/codelist/NameStatusValue/official"/>
        <gn:sourceOfName>
          National Land Survey of Finland - Topographic Database
        </gn:sourceOfName>
        <gn:pronunciation xsi:nil="true" nilReason="unpopulated"/>
        <gn:spelling>
          <gn:SpellingOfName>
            <gn:text>Alttasaarentie</gn:text>
            <gn:script>Latn</gn:script>
          </gn:SpellingOfName>
        </gn:spelling>
      </gn:GeographicalName>
    </ad:name>
  </elf-lod0ad:ThoroughfareName>
</wfs:member>
</wfs:SimpleFeatureCollection>
</wfs:additionalObjects>
</wfs:FeatureCollection>
```

More information

Jakob.ventin@nls.fi
www.nls.fi

