Transformation of theme Geographical Names

GN

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NLS
NATIONAL
LAND SURVEY
OF FINLAND

Source data

- Name register database of NLSFI

  - Open data

  - Updated continuosly

  - Replicated to web services 1/week at this moment

- Very good compability to GN theme

Main issues

- Minor issue: need to make one mapping table in database where source data is integer and INSPIRE string

Achievements

```xml
<?xml version="1.0" encoding="UTF-8"?>
<wfs:FeatureCollection numberReturned="0" numberMatched="unknown" xmlns:gml="http://www.opengis.net/gml/3.2" timeStamp="2015-04-13T11:36:29Z" xmlns:wfs="http://www.opengis.net/wfs/2.0" 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://www.locationframework.eu/schemas/GeographicalNames/MasterLoD1/1.0 http://visukarttake01.nls.fi:8080/elf-wfs/services/elf-lod1gn?
SERVICE=WFS&VERSION=2.0.0&REQUEST=DescribeFeatureType&OUTPUTFORMAT=application%2Fgml%2Bxml%3B+version%3D3.2&TYPENAME=elf-lod1gn:NamedPlace&NAMESPACES=xmlns(elf-lod1gn,http%3A%2F%2Fwww.locationframework.eu%2Fschemas%2FGeographicalNames%
2FMasterLoD1%2F1.0)" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <!--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=43925.-->
  <wfs:member>
    <elf-lod1gn:NamedPlace gml:id="FI_NR_PAIKKA_10000654" xmlns:elf-lod1gn="http://www.locationframework.eu/schemas/GeographicalNames/MasterLoD1/1.0">
      <gn:beginLifespanVersion xmlns:gn="urn:x-inspire:specification:gmlas:GeographicalNames:3.0">2014-02-27T00:00:00</gn:beginLifespanVersion>
      <gn:geometry xmlns:gn="urn:x-inspire:specification:gmlas:GeographicalNames:3.0">
        <!--Inlined geometry 'FI_NR_PAIKKA_10000654_GN_GEOMETRY'-->
        <gml:Point gml:id="FI_NR_PAIKKA_10000654_GN_GEOMETRY" srsName="EPSG:3035">
          <gml:pos>4947450.201 4305758.142</gml:pos>
        </gml:Point>
      </gn:geometry>
      <gn:inspireId xmlns:gn="urn:x-inspire:specification:gmlas:GeographicalNames:3.0">
        <base:Identifier xmlns:base="http://inspire.ec.europa.eu/schemas/base/3.3rc3/">
          <base:localId>10000654</base:localId>
          <base:namespace>http://paikkatiedot.fi/so/1000783/</base:namespace>
          <base:versionId nilReason="unpopulated" xsi:nil="true"/>
        </base:Identifier>
      </gn:inspireId>
      <gn:leastDetailedViewingResolution xmlns:gn="urn:x-inspire:specification:gmlas:GeographicalNames:3.0">
        <gmd:MD_Resolution xmlns:gmd="http://www.isotc211.org/2005/gmd">
          <gmd:equivalentScale>
            <gmd:MD_RepresentativeFraction>
              <gmd:denominator>
                <gco:Integer xmlns:gco="http://www.isotc211.org/2005/gco">25000</gco:Integer>
              </gmd:denominator>
            </gmd:MD_RepresentativeFraction>
          </gmd:equivalentScale>
          <gmd:distance gco:nilReason="unpopulated" xmlns:gco="http://www.isotc211.org/2005/gco"/>
        </gmd:MD_Resolution>
      </gn:leastDetailedViewingResolution>
      <gn:localType xmlns:gn="urn:x-inspire:specification:gmlas:GeographicalNames:3.0">Field or meadow</gn:localType>
      <gn:name xmlns:gn="urn:x-inspire:specification:gmlas:GeographicalNames:3.0">
        <elf-lod1gn:GeographicalName>
          <gn:language>fin</gn:language>
          <gn:nativeness xlink:href="http://inspire.ec.europa.eu/codelist/NativenessValue/endonym/endonym.en.xml" xmlns:xlink="http://www.w3.org/1999/xlink"/>
          <gn:nameStatus xlink:href="http://inspire.ec.europa.eu/codelist/NameStatusValue/standardised/standardised.en.xml" xmlns:xlink="http://www.w3.org/1999/xlink"/>
          <gn:sourceOfName>National Land Survey of Finland - Place Name Register</gn:sourceOfName>
          <gn:pronunciation nilReason="unpopulated" xsi:nil="true"/>
          <gn:spelling>
            <elf-lod1gn:SpellingOfName>
              <gn:text>Isosuo</gn:text>
              <gn:script>Latn</gn:script>
            </elf-lod1gn:SpellingOfName>
          </gn:spelling>
          <elf-lod1gn:referenceName>false</elf-lod1gn:referenceName>
        </elf-lod1gn:GeographicalName>
      </gn:name>
      <gn:type xmlns:gn="urn:x-inspire:specification:gmlas:GeographicalNames:3.0" xlink:href="http://inspire.ec.europa.eu/codelist/NamedPlaceTypeValue/landcover/" xmlns:xlink="http://www.w3.org/1999/xlink"/>
    </elf-lod1gn:NamedPlace>
  </wfs:member>
</wfs:FeatureCollection>
```

http://host:8080/elf-wfs/services/elf-lod1gn?service=WFS&version=2.0.0&request=GetFeature&TYPENAMES=elf-lod1gn:NamedPlace&count=1

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