

QGIS Application - Bug report #17120

Missing namespace declaration when searching by bounding box

2017-09-11 04:16 PM - Andy Debrouwer

Status: Closed	
Priority: Normal	
Assignee: Tom Kralidis	
Category: MetaSearch Catalogue Client	
Affected QGIS version: 2.8.6	Regression?: No
Operating System: Ubuntu LTS 16.04.3	Easy fix?: Yes
Pull Request or Patch supplied: No	Resolution: wontfix
Crashes QGIS or corrupts data: No	Copied to github as #: 25019

Description

When searching by bounding box with the MetaSearch plugin, the resulting GetRecords requests is missing the namespace declaration for ows:BoundingBox property.

here is an example Getrecords request generated by the MetaSearch plugin

```
<csw:GetRecords xmlns:csw="http://www.opengis.net/cat/csw/2.0.2" xmlns:gml="http://www.opengis.net/gml"
xmlns:ogc="http://www.opengis.net/ogc" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
outputSchema="http://www.opengis.net/cat/csw/2.0.2" outputFormat="application/xml" version="2.0.2" service="CSW"
resultType="results" maxRecords="20" xsi:schemaLocation="http://www.opengis.net/cat/csw/2.0.2
http://schemas.opengis.net/csw/2.0.2/CSW-discovery.xsd">
  <csw:Query typeNames="csw:Record">
    <csw:ElementSetName>full</csw:ElementSetName>
    <csw:Constraint version="1.1.0">
      <ogc:Filter>
        <ogc:And>
          <ogc:BBOX>
            <ogc:PropertyName>ows:BoundingBox</ogc:PropertyName>
            <gml:Envelope>
              <gml:lowerCorner>0 0</gml:lowerCorner>
              <gml:upperCorner>180 90</gml:upperCorner>
            </gml:Envelope>
          </ogc:BBOX>
          <ogc:PropertyIsLike wildCard="%" singleChar="_" escapeChar="\ ">
            <ogc:PropertyName>csw:AnyText</ogc:PropertyName><ogc:Literal>%world%</ogc:Literal>
          </ogc:PropertyIsLike>
        </ogc:And>
      </ogc:Filter>
    </csw:Constraint>
  </csw:Query>
</csw:GetRecords>
```

As you can see, this GetRecords request contains a ogc:Filter constraint with a BBOX condition. The value of the PropertuName of this BBOX condition has is ows:BoundingBox. However this request contains no xmlns:ows="..." declaration.

History

#1 - 2017-09-11 05:18 PM - Giovanni Manghi

- Category changed from Python plugins to MetaSearch Catalogue Client
- Status changed from Open to Feedback

QGIS 2.8.6?

#2 - 2017-10-17 12:37 PM - Tom Kralidis

Thanks for the report. I am unable to reproduce (worksforme). I don't have a copy of QGIS 2.8.6 handy to further test. Are you able to upgrade to a stable release version and test/try again?

#3 - 2017-10-17 12:38 PM - Tom Kralidis

- Assignee set to Tom Kralidis

#4 - 2017-10-27 12:30 PM - Andrew Wils

I've been able to reproduce this using QGIS 2.8.13, simply by opening the Search tab, clicking on Map extent and then on Search.

I believe the `cleanup_namespaces` command invoked in `csw.py` removes the `ows` namespace because the namespace is only used as a property name, not in attributes or elements.

So the bug probably goes away once you include any OWS attribute or element in the `GetRecords` call.

#5 - 2017-10-27 12:59 PM - Tom Kralidis

- Status changed from Feedback to Closed

- Resolution set to wontfix

Given this is 2.8.6 I would say your best bet here is to either upgrade QGIS or update your underlying OWSLib install (which is the underlying issue [which has been fixed long ago]).

#6 - 2017-11-07 10:31 AM - Andrew Wils

Tom Kralidis wrote:

Given this is 2.8.6 I would say your best bet here is to either upgrade QGIS or update your underlying OWSLib install (which is the underlying issue [which has been fixed long ago]).

As I said earlier, I reproduced this using 2.8.13.

I also pointed to what I believe is the location of the bug, in the `csw.py` file of that upgraded QGIS release, and also in the latest version of `csw.py` found on GitHub.

It seems the file already has a partial bugfix, because after calling `cleanup_namespaces`, it re-inserts the namespace used in the `typeName`s. However, an `ows` bounding box is never included in the `typenames` attribute, so that namespace will still be lost.

I will log an issue for it in the `owslib` project then.

#7 - 2017-11-07 01:01 PM - Tom Kralidis

I'm still unable to reproduce. Can you provide a CSW which demonstrates that the request is problematic?

#8 - 2017-11-07 01:04 PM - Tom Kralidis

To clarify, I've fixed this in OWSLib, but unable to reproduce how this would be an error in MetaSearch.