QGIS Application - Bug report #13065
WFS 1.0.0 Client requests with a GML component fail against Geoserver (lack namespace)

2015-07-02 06:20 PM - Jeff G

Status:	Closed		
Priority:	Normal		
Assignee:			
Category:	Web Services clients/WFS		
Affected QGIS version:	master	**Regression?:**	No
Operating System:		**Easy fix?:**	No
Pull Request or Patch supplied:		**Resolution:**	
Crashes QGIS or corrupts data:		**Copied to github as #:**	21135

Description

WFS 1.0.0 Client requests made from QGIS 2.8.1 will fail against Geoserver (tested on 2.7.1) if the request contains a Filter that uses geometries.

From the WFS log console:

```
DescribeFeatureType failed for url
http://localhost:8080/geoserver/ows?SERVICE=WFS&VERSION=1.0.0&REQUEST=GetFeature&TYPENAME=xxxx:yyyy&SRSNAME=EPS
AME=EPSG:4326&FILTER=<ogc:Filter xmlns:ogc="http://www.opengis.net/ogc">
      <ogc:Intersects>
      <ogc:PropertyName>geometry</ogc:PropertyName>
      <gml:Point>
       <gml:coordinates cs="," ts=" ">-91.5,34.5</gml:coordinates>
      </gml:Point>
     </ogc:Intersects>
    </ogc:Filter>
```

Note that the Filter's opening XML tag includes the "ogc" namespace, but it never defines the "gml" namespace.

My naive attempt at debugging: I see that geometryFromGML is overloaded in
https://github.com/qgis/QGIS/blob/master/src/core/qgsogcutils.cpp. Only one of them contains logic to set the "gml" namespace, and I suspect that the qgswfsprovider.cpp might be invoking the wrong one.

Related issues:

Related to QGIS Application - Bug report # 6552: WFS client: Filter Element c...	**Closed**	**2012-10-21**

History

#1 - 2015-07-07 01:22 PM - Jeff G

For context, in the above case, I had used the expression string builder to issue the filter:
intersects($geometry, geomFromWKT('POINT(-91.5 34.5)'))

The geoserver-side error is:
org.geoserver.platform.ServiceException: org.xml.sax.SAXException: Attempted to construct illegal filter - I dont understand the tag: gml:Point. HINT: tags are case-sensitive!

#2 - 2015-12-22 07:27 AM - Médéric RIBREUX

- Affected QGIS version changed from 2.8.1 to master

Hello, bug triage...

this is also true for an attribute filter (tested on QGIS 2.13 master):

> DescribeFeatureType failed for url
> http://geoservices.brgm.fr/geologie?SERVICE=WFS&VERSION=1.0.0&REQUEST=GetFeature&TYPENAME=MINES_EMP&SRSNAME=EPSG:4326&FILTE
> :4326&FILTER=<ogc:Filter xmlns:ogc="http://www.opengis.net/ogc">
>   <ogc:PropertyIsEqualTo>
>   <ogc:PropertyName>substance</ogc:PropertyName>
>   <ogc:Literal>Pb</ogc:Literal>
>   </ogc:PropertyIsEqualTo>
>   </ogc:Filter>

#3 - 2016-01-06 11:49 AM - Giovanni Manghi

#4 - 2017-01-17 06:21 AM - Giovanni Manghi

This must be re-tested with qgis 2.18.*/master as the wfs client has been overhalued meanwhile.

#5 - 2017-03-06 02:22 PM - Giovanni Manghi

Can anyone advice about the necessary steps to try replicate this issue?

#6 - 2017-04-18 08:05 PM - Jeff G

Now using QGIS 2.18.4, I have tried both the "intersects" and the "attribute" test cases mentioned earlier in this issue, and they both work as expected.

This appears to be fixed. Thank you!