

## QGIS Application - Bug report #16509

### QGIS Server - WFS GetFeature with multiple layers don't seems to works

2017-05-03 02:47 PM - Benjamin Gerber

<b>Status:</b> Closed	
<b>Priority:</b> Normal	
<b>Assignee:</b>	
<b>Category:</b> QGIS Server	
<b>Affected QGIS version:</b> 2.18.0	<b>Regression?:</b> No
<b>Operating System:</b> Ubuntu 16.10 (via docker)	<b>Easy fix?:</b> No
<b>Pull Request or Patch applied:</b> Yes	<b>Resolution:</b>
<b>Crashes QGIS or corrupts data:</b> No	<b>Copied to github as #:</b> 24415

#### Description

Hi there !

(QGIS Server v2.18)

In a project with have multiple points layers (named here pfa and pfa2).  
(These layers are in a group "Punti fissi" that is in a group "MU Cadastre")

Both layers support WMS and WMF queries (Set in the layer property)  
Both layers are published in the WFS capacity of the Project property.

Now, If I do a request with pfa1 as first Query and pfa2 as second Query (but in the same request), I got twice the result for pfa1 and any informations for pfa2. If I invert pfa 1 and pfa2, the result is inverted. If I add a pfa3, I got third time the result for the first queried result. If I query only one layer, that works fine.

The payload of the request (POST request):

```
<GetFeature xmlns="http://www.opengis.net/wfs" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" service="WFS"
version="1.1.0" outputFormat="GML3" maxFeatures="20" xsi:schemaLocation="http://www.opengis.net/wfs
http://schemas.opengis.net/wfs/1.1.0/wfs.xsd">
  <Query xmlns:feature="http://www.qgis.org/gml" typeName="feature:pfa1" srsName="EPSG:2056">
    <Filter xmlns="http://www.opengis.net/ogc">
      <BBOX>
        <PropertyName>the_geom</PropertyName>
        <Envelope xmlns="http://www.opengis.net/gml" srsName="EPSG:2056">
          <lowerCorner>2715684.9999999995 1111404.4444444444</lowerCorner>
          <upperCorner>2716404.9999999995 1112474.4444444444</upperCorner>
        </Envelope>
      </BBOX>
    </Filter>
  </Query>
  <Query xmlns:feature="http://www.qgis.org/gml" typeName="feature:pfa2" srsName="EPSG:2056">
    <Filter xmlns="http://www.opengis.net/ogc">
      <BBOX>
        <PropertyName>the_geom</PropertyName>
        <Envelope xmlns="http://www.opengis.net/gml" srsName="EPSG:2056">
          <lowerCorner>2715684.9999999995 1111404.4444444444</lowerCorner>
          <upperCorner>2716404.9999999995 1112474.4444444444</upperCorner>
        </Envelope>
      </BBOX>
    </Filter>
  </Query>
</GetFeature>
```

```
</Filter>
</Query>
</GetFeature>
```

The answer:

```
<?xml version="1.0" encoding="UTF-8"?>
<wfs:FeatureCollection xmlns:wfs="http://www.opengis.net/wfs" xmlns:gml="http://www.opengis.net/gml"
xmlns:ogc="http://www.opengis.net/ogc" xmlns:ows="http://www.opengis.net/ows" xmlns:qgs="http://www.qgis.org/gml"
xmlns:xlink="http://www.w3.org/1999/xlink" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.opengis.net/wfs http://schemas.opengis.net/wfs/1.0.0/wfs.xsd http://www.qgis.org/gml
http://localhost:8580/?SERVICE=WFS&VERSION=1.0.0&REQUEST=DescribeFeatureType&TYPENAME=pfa1,pfa1&OUTPUTFORMAT=XMLSCHEMA">
  <gml:boundedBy>
    <gml:Box srsName="EPSG:2056">
      <gml:coordinates cs="," ts=" ">2700519.74999999,1076245.12499999
2724130.50000001,1158202.12500001</gml:coordinates>
    </gml:Box>
  </gml:boundedBy>
  <gml:featureMember>
    <qgs:pfa1 fid="pfa1.1">
      <gml:boundedBy>
        <gml:Box srsName="EPSG:2056">
          <gml:coordinates cs="," ts=" ">2716072.066,1111642.902 2716072.066,1111642.902</gml:coordinates>
        </gml:Box>
      </gml:boundedBy>
      <qgs:geometry>
        <Point xmlns="http://www.opengis.net/gml" srsName="EPSG:2056">
          <coordinates>2716072.066,1111642.902</coordinates>
        </Point>
      </qgs:geometry>
      <qgs:t_id>254298</qgs:t_id>
      <qgs:identan>CH02000TE</qgs:identan>
      <qgs:numero>508a</qgs:numero>
      <qgs:geomalt>528.201</qgs:geomalt>
      <qgs:attendplan>no</qgs:attendplan>
      <qgs:attendplan_txt>no</qgs:attendplan_txt>
      <qgs:precalt>0.3</qgs:precalt>
      <qgs:attendalt>si</qgs:attendalt>
      <qgs:attendalt_txt>si</qgs:attendalt_txt>
    </qgs:pfa1>
  </gml:featureMember>
  <gml:featureMember>
    <qgs:pfa1 fid="pfa1.2">
      <gml:boundedBy>
        <gml:Box srsName="EPSG:2056">
          <gml:coordinates cs="," ts=" ">2716105.326,1111650.397 2716105.326,1111650.397</gml:coordinates>
        </gml:Box>
      </gml:boundedBy>
      <qgs:geometry>
        <Point xmlns="http://www.opengis.net/gml" srsName="EPSG:2056">
          <coordinates>2716105.326,1111650.397</coordinates>
```

```

    </Point>
  </qgs:geometry>
  <qgs:t_id>254299</qgs:t_id>
  <qgs:identan>CH020000TE</qgs:identan>
  <qgs:numero>507a</qgs:numero>
  <qgs:geomalt>528.117</qgs:geomalt>
  <qgs:attendplan>no</qgs:attendplan>
  <qgs:attendplan_txt>no</qgs:attendplan_txt>
  <qgs:precalc>0.3</qgs:precalc>
  <qgs:attendalt>si</qgs:attendalt>
  <qgs:attendalt_txt>si</qgs:attendalt_txt>
</qgs:pfa1>
</gml:featureMember>
<gml:featureMember>
  <qgs:pfa1 fid="pfa1.1">
    <gml:boundedBy>
      <gml:Box srsName="EPSG:2056">
        <gml:coordinates cs="," ts=" " >2716072.066,1111642.902 2716072.066,1111642.902</gml:coordinates>
      </gml:Box>
    </gml:boundedBy>
    <qgs:geometry>
      <Point xmlns="http://www.opengis.net/gml" srsName="EPSG:2056">
        <coordinates>2716072.066,1111642.902</coordinates>
      </Point>
    </qgs:geometry>
    <qgs:t_id>254298</qgs:t_id>
    <qgs:identan>CH020000TE</qgs:identan>
    <qgs:numero>508a</qgs:numero>
    <qgs:geomalt>528.201</qgs:geomalt>
    <qgs:attendplan>no</qgs:attendplan>
    <qgs:attendplan_txt>no</qgs:attendplan_txt>
    <qgs:precalc>0.3</qgs:precalc>
    <qgs:attendalt>si</qgs:attendalt>
    <qgs:attendalt_txt>si</qgs:attendalt_txt>
  </qgs:pfa1>
</gml:featureMember>
<gml:featureMember>
  <qgs:pfa1 fid="pfa1.2">
    <gml:boundedBy>
      <gml:Box srsName="EPSG:2056">
        <gml:coordinates cs="," ts=" " >2716105.326,1111650.397 2716105.326,1111650.397</gml:coordinates>
      </gml:Box>
    </gml:boundedBy>
    <qgs:geometry>
      <Point xmlns="http://www.opengis.net/gml" srsName="EPSG:2056">
        <coordinates>2716105.326,1111650.397</coordinates>
      </Point>
    </qgs:geometry>
    <qgs:t_id>254299</qgs:t_id>
    <qgs:identan>CH020000TE</qgs:identan>
    <qgs:numero>507a</qgs:numero>
    <qgs:geomalt>528.117</qgs:geomalt>
    <qgs:attendplan>no</qgs:attendplan>

```

```
<qgs:attendplan_txt>no</qgs:attendplan_txt>
<qgs:precalc>0.3</qgs:precalc>
<qgs:attendalt>si</qgs:attendalt>
<qgs:attendalt_txt>si</qgs:attendalt_txt>
</qgs:pfa1>
</gml:featureMember>
</wfs:FeatureCollection>
```

Expected result: 2 results for pfa1, 3 for pfa2.

The result: 4 results for pfa1, 0 for pfa2

### Can you reproduce this issue ?

Thanks in advance

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### Associated revisions

**Revision a6d46835 - 2017-07-20 09:43 AM - Christophe Mangeat**

fix for <https://issues.qgis.org/issues/16509>

**Revision 5701b67e - 2017-08-07 11:34 AM - Alessandro Pasotti**

Merge pull request #4893 from cmangeat/bug\_16509

allow WFS GetFeature upon multiple layers, fixes #16509

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### History

**#1 - 2017-05-03 02:50 PM - Giovanni Manghi**

- Status changed from Open to Feedback

Can you share the project+data? when you say "query" you mean defining a filter in the WFS layer before loading it in QGIS with the WFS client?

**#2 - 2017-05-03 03:04 PM - Benjamin Gerber**

| Can you share the project+data?

Sorry, it's private :-/

I can try to reproduce the bug with another data in a "standalone" qgis server but I was hoping that you have something already set up and can give me a feedback if you can reproduce this bug easily. (If you can't, I'll (try to) reproduce the issue with data that I can give you).

| When you say "query" you mean defining a filter in the WFS layer before loading it in QGIS with the WFS client?

The "query" word is related to the xml payload. Both <Query>...</Query> are in the same payload of the same http post request. (I just do a "curl -X POST -d @payload.xml <http://localhost:8580>" with the payload that I've provided in my first comment). And the project has two layers configured for WFS.

(I hope that's clear)

**#3 - 2017-05-08 06:23 PM - Giovanni Manghi**

| (I hope that's clear)

sorry no. I don't understand when you say ""standalone" qgis server" (it means not in docker?) and still do not understand what do you mean with payload (do you mean a particular URL request?).

Can you provide a sample project with minimal data (even fake) and precise steps on how replicate?

thanks!

**#4 - 2017-05-10 02:17 PM - Benjamin Gerber**

- "standalone" qgis server -> a computer with qgis-server and that's it (and apache, and curl). So out of a project complexity.
- request payload: POST xml data of a HTTP request.

I've tried to reproduce a working use case with a simple WFS request with free OSM data but I've failed for now (problem in my qgis server configuration.) I don't have time to continue yet but i'll update this ticket later, when I'll got news.

Thanks you GM.

**#5 - 2017-05-10 02:37 PM - Yves Jacolin**

- File *getFeature2.xml* added

Steps to see the problem:

```
git clone git@github.com:camptocamp/ms_perfs.git
cd ms_perfs
./prepare.sh
ctrl+c after a while
docker-compose up
curl -X POST -d @getFeature2.xml http://localhost:8084/?
```

See *getFeature2.xml* file attached.

**#6 - 2017-05-26 05:16 PM - Giovanni Manghi**

- Status changed from *Feedback* to *Open*

**#7 - 2017-07-19 05:02 PM - Christophe Mangeat**

- File *layers.tar.gz* added
- File *payload.xml* added

Hello, seems that following patch fixes with "release-2\_18":

```
--- a/src/server/qgswfsserver.cpp
```

2025-04-27

```

+++ b/src/server/qgswfsserver.cpp
@@ -455,7 +455,7 @@ int QgsWFSServer::getFeature( QgsRequestHandler& request, const QString& format
 }
 for ( int i = 0; i < queryNodes.size(); i++ )
 {
 - queryElem = queryNodes.at( 0 ).toElement();
 + queryElem = queryNodes.at( i ).toElement();
   mTypeName = queryElem.attribute( "typeName", "" );
   if ( mTypeName.contains( ":" ) )
   {

```

Can also be reproduced with:

```
curl -H "Content-type: text/xml" -d @payload.xml ".../cgi-bin/qgis_mapserv.fcgi?map=.../layers.qgs" | grep "qgs" | grep "id".
```

Seems to be ok on master (services/qgswfsserver.cpp around line 760 ?)

#### #8 - 2017-07-20 09:50 AM - Christophe Mangeat

Hello, associated PR: <https://github.com/qgis/QGIS/pull/4893>

#### #9 - 2017-07-20 09:59 AM - Jürgen Fischer

- Description updated

#### #10 - 2017-07-20 11:10 AM - Giovanni Manghi

- Status changed from Open to In Progress

- Pull Request or Patch supplied changed from No to Yes

#### #11 - 2017-08-07 11:34 AM - Anonymous

- % Done changed from 0 to 100

- Status changed from In Progress to Closed

Applied in changeset commit:qgis|5701b67e5876582b05be502a56110a1ef5f69beb.

#### Files

getFeature2.xml	1.16 KB	2017-05-10	Yves Jacolin
layers.tar.gz	6.78 KB	2017-07-19	Christophe Mangeat
payload.xml	1.18 KB	2017-07-19	Christophe Mangeat