

QGIS Application - Bug report #17872

WFS 2.0.0 DescribeFeatureType : TypeNames vs TypeName

2018-01-16 06:10 PM - dr -

Status:	Closed	
Priority:	Normal	
Assignee:	Alessandro Pasotti	
Category:	Web Services clients/WFS	
Affected QGIS version:	master	Regression?: No
Operating System:		Easy fix?: No
Pull Request or Patch applied:	Yes	Resolution: fixed/implemented
Crashes QGIS or corrupts data:	No	Copied to github as #: 25767
Description		
Only TypeNames should be supported in WFS 2.0 but QGIS WFS provider sends TypeName and WFS 2.0 layer cannot be added onto the map.		

Associated revisions

Revision ccb4c80f - 2018-01-23 06:51 PM - Alessandro Pasotti

[bugfix][wfs] Expand support for 2.0.0 TYPENAMES

Fixes #17872 - WFS 2.0.0 DescribeFeatureType : TypeNames vs TypeName

This PR introduces the plural form of TYPENAME for 2.0.0 WFS servers, with some additional logic to allow for 2.0.0 servers that only support TYPENAME for DescribeFeatureType: in this case, the singular form is also tried in case the plural one fails.

There is still some work to do for transactional support but at least the read-only client part should now be ok.

Tests have been added to check that:

- TYPENAME form still works with old 2.0.0
- TYPENAMES form works with compliant 2.0.0
- choice geometry types are handled by calling GetFeature and examining the result

Revision 2330b7fc - 2018-05-23 01:59 PM - Even Rouault

[WFS provider] Handle buggy servers that require plural form TYPENAMES for DescribeFeatureType (fixes #18882, refs #17872)

Some servers like <http://geoportal.samregion.ru/wfs12> return an error when issuing a REQUEST=DescribeFeatureType&VERSION=2.0.0&TYPENAME=... query, which is the conformant way. They expect the plural form TYPENAMES to be passed. As they return an exception when being provided with the singular form, we can automate the retry with TYPENAMES.

Merge pull request #7057 from rouault/fix_18882_altername

[WFS provider] Revert to using singular TYPENAME keyword for WFS 2.0 DescribeFeatureType (fixes #18882, refs #17872)

History

#1 - 2018-01-22 05:51 PM - Alessandro Pasotti

- Assignee set to Alessandro Pasotti

Can you please provide the URL of the failing WFS endpoint?

#2 - 2018-01-22 08:35 PM - dr -

I've faced with this issue on the following service: <http://geoportal.samregion.ru/wfs12>

#3 - 2018-01-23 08:48 AM - Alessandro Pasotti

- Status changed from Open to Feedback

- Priority changed from High to Normal

Ok, thanks for attaching the test endpoint, here are my findings:

1. WFS client 2.0.0 in QGIS client is NOT fully implemented (transactions for example are not)
2. the example server is flawed: in DescribeFeatureType 2.0.0 request the parameter TYPENAME is not plural but singular:
<http://docs.opengeospatial.org/is/09-025r2/09-025r2.html#147> but
http://geoportal.samregion.ru/wfs12?SERVICE=WFS&REQUEST=DescribeFeatureType&VERSION=2.0.0&TYPENAME=EC_1058_33
3. the example server is buggy for an additional reason: if called without TYPENAME it should return all typenames instead of an error

I think we should close this ticket, and instead open a feature request for a complete WFS 2.0.0 implementation in the client, but that would be a complete different story and it will probably need some funding.

#4 - 2018-01-23 09:08 AM - dr -

It looks like OGC WFS doc is inconsistent. If you look at the next section: <http://docs.opengeospatial.org/is/09-025r2/09-025r2.html#148>, it says: "The typeName parameter encodes the names of one or more features types that shall be described by the DescribeFeatureType operation." From GeoServer docs <http://docs.geoserver.org/stable/en/user/services/wfs/basics.html>: "WFS 2.0.0 ... also changed typeName to typeName although GeoServer will accept either." So it seems that TYPENAME should be TYPENAMES for WFS 2.0.0.

#5 - 2018-01-23 09:15 AM - Alessandro Pasotti

Yes, but the XML example also use the singular: <http://docs.opengeospatial.org/is/09-025r2/09-025r2.html#146>

Note that GeoServer (that IIRC is the reference implementation) also uses the singular form:

https://demo.geo-solutions.it/geoserver/tiger/ows?service=WFS&version=2.0.0&request=DescribeFeatureType&typeName=tiger_roads

#6 - 2018-01-23 09:28 AM - dr -

I think that GeoServer instance which you are provide is old. TypeName issue was fixed at GeoServer recently (Nov 22, 2017):

<https://github.com/geoserver/geoserver/commit/025c34b3bdd626af3ecd96392abc2a136312ccf8>

#7 - 2018-01-23 06:55 PM - Alessandro Pasotti

- *Status changed from Feedback to In Progress*
- *Pull Request or Patch supplied changed from No to Yes*

PR: <https://github.com/qgis/QGIS/pull/6145>

#8 - 2018-01-24 07:48 AM - Anonymous

- *% Done changed from 0 to 100*
- *Status changed from In Progress to Closed*

Applied in changeset commit:qgis|ccb4c80f8a6d2bb179258f1ffec0dc9a447ca465.

#9 - 2018-01-24 08:00 AM - dr -

Thanks!

#10 - 2018-01-24 11:54 AM - Alessandro Pasotti

Please give it a try, the more tests we can do the better.

#11 - 2018-01-25 08:25 AM - dr -

Thanks again, now it works flawlessly.

#12 - 2018-01-25 08:27 AM - Alessandro Pasotti

Thank **you** for reporting the bug and thanks to all the sponsors and donors for allowing another bugfixing round!
QGIS 3 will be a killer application!

#13 - 2018-02-21 09:51 PM - Giovanni Manghi

- *Resolution set to fixed/implemented*