QGIS Application - Bug report #21575 QGIS doesn't work properly with WFS 2.0.0 combined with OGC HTTP URI srsName style (e.g. http://www.opengis.net/def/crs/EPSG/0/xxxx)

2019-03-13 11:43 AM - Jonas Pedersen

Status:	Open				
Priority:	Normal				
Assignee:					
Category:	Web Services clients/WFS				
Affected QGIS ve	ersion:3.6.0	Regression?:	No		
Operating System	n: Windows 10 64bit	Easy fix?:	No		
Pull Request or F	Patch supplied:	Resolution:			
Crashes QGIS or	corru pits data:	Copied to github a	Copied to github as #: 29391		
Description					
It looks as if there a	are more than one problem involved (e.g	g. QGIS doesn't recognise the C	RI srsName style I get lots and lots of errors. RS and has you choose one). Only request features overlapping the view		
/am/wfs?SERVICE UNT=1000000&BB	BOX=53,6,58,15,	SION=2.0.0&TYPENAMES=am	:ManagementRestrictionOrRegulationZone&C		
/am/wfs?SERVICE UNT=1000000&BB This BBOX value e /am/wfs?SERVICE UNT=1000000&BB	E=WFS&REQUEST=GetFeature&VERS BOX=53,6,58,15, and with a "," where it should end with th	SION=2.0.0&TYPENAMES=am the srsName to make it valid - like SION=2.0.0&TYPENAMES=am at/def/crs/EPSG/0/3044	:ManagementRestrictionOrRegulationZone&C below: :ManagementRestrictionOrRegulationZone&C		
/am/wfs?SERVICE UNT=1000000&BE This BBOX value e /am/wfs?SERVICE UNT=1000000&BE Apart from that it al	E=WFS&REQUEST=GetFeature&VERS BOX=53,6,58,15, end with a "," where it should end with th E=WFS&REQUEST=GetFeature&VERS BOX=53,6,58,15, <u>http://www.opengis.ne</u> Iso seems that the BBOX values for the ve pasted the corresponding "GetFeatu	SION=2.0.0&TYPENAMES=am the srsName to make it valid - like SION=2.0.0&TYPENAMES=am <u>et/def/crs/EPSG/0/3044</u> corners themselves are also a l	:ManagementRestrictionOrRegulationZone&C below: :ManagementRestrictionOrRegulationZone&C		
/am/wfs?SERVICE UNT=1000000&BE This BBOX value e /am/wfs?SERVICE UNT=1000000&BE Apart from that it al For reference, I hav urn:ogc:def:crs:EPS /am/wfs?SERVICE UNT=1000000&SE	E=WFS&REQUEST=GetFeature&VERS BOX=53,6,58,15, end with a "," where it should end with th E=WFS&REQUEST=GetFeature&VERS BOX=53,6,58,15, <u>http://www.opengis.ne</u> Iso seems that the BBOX values for the ve pasted the corresponding "GetFeatu SG::xxxx): E=WFS&REQUEST=GetFeature&VERS	SION=2.0.0&TYPENAMES=am be srsName to make it valid - like SION=2.0.0&TYPENAMES=am <u>et/def/crs/EPSG/0/3044</u> corners themselves are also a l re" request, when the layer is se SION=2.0.0&TYPENAMES=am &BBOX=6013288,254451,6430	ManagementRestrictionOrRegulationZone&C below: ManagementRestrictionOrRegulationZone&C ittle off (although I'm not sure of this). rved with the OGC URN srsName style (e.g. ManagementRestrictionOrRegulationZone&C 0433,1035230,urn:ogc:def:crs:EPSG::3044		
/am/wfs?SERVICE UNT=1000000&BE This BBOX value e /am/wfs?SERVICE UNT=1000000&BE Apart from that it al For reference, I hav urn:ogc:def:crs:EP /am/wfs?SERVICE UNT=1000000&SF Here the BBOX val	E=WFS&REQUEST=GetFeature&VERS BOX=53,6,58,15, end with a "," where it should end with th E=WFS&REQUEST=GetFeature&VERS BOX=53,6,58,15, <u>http://www.opengis.ne</u> Iso seems that the BBOX values for the ve pasted the corresponding "GetFeatu SG::xxxx): E=WFS&REQUEST=GetFeature&VERS RSNAME=urn:ogc:def:crs:EPSG::3044	SION=2.0.0&TYPENAMES=am the srsName to make it valid - like SION=2.0.0&TYPENAMES=am <u>et/def/crs/EPSG/0/3044</u> corners themselves are also a l re" request, when the layer is se SION=2.0.0&TYPENAMES=am &BBOX=6013288,254451,6430 istic, and this notation works per	ManagementRestrictionOrRegulationZone&C below: ManagementRestrictionOrRegulationZone&C ittle off (although I'm not sure of this). rved with the OGC URN srsName style (e.g. ManagementRestrictionOrRegulationZone&C 0433,1035230,urn:ogc:def:crs:EPSG::3044 fectly in QGIS.		
/am/wfs?SERVICE UNT=1000000&BE This BBOX value e /am/wfs?SERVICE UNT=1000000&BE Apart from that it al For reference, I hav urn:ogc:def:crs:EPS /am/wfs?SERVICE UNT=1000000&SF Here the BBOX val Unfortunately I can	E=WFS&REQUEST=GetFeature&VERS BOX=53,6,58,15, end with a "," where it should end with th E=WFS&REQUEST=GetFeature&VERS BOX=53,6,58,15, <u>http://www.opengis.ne</u> Iso seems that the BBOX values for the ve pasted the corresponding "GetFeatu SG::xxxx): E=WFS&REQUEST=GetFeature&VERS RSNAME=urn:ogc:def:crs:EPSG::30444 lues for the corners are looks more reali	SION=2.0.0&TYPENAMES=am the srsName to make it valid - like SION=2.0.0&TYPENAMES=am <u>et/def/crs/EPSG/0/3044</u> corners themselves are also a l re" request, when the layer is se SION=2.0.0&TYPENAMES=am &BBOX=6013288,254451,6430 istic, and this notation works per	ManagementRestrictionOrRegulationZone&C below: ManagementRestrictionOrRegulationZone&C ittle off (although I'm not sure of this). rved with the OGC URN srsName style (e.g. ManagementRestrictionOrRegulationZone&C 0433,1035230,urn:ogc:def:crs:EPSG::3044 fectly in QGIS.		
/am/wfs?SERVICE UNT=1000000&BE This BBOX value e /am/wfs?SERVICE UNT=1000000&BE Apart from that it al For reference, I hav urn:ogc:def:crs:EPS /am/wfs?SERVICE UNT=1000000&SF Here the BBOX val	E=WFS&REQUEST=GetFeature&VERS BOX=53,6,58,15, end with a "," where it should end with th E=WFS&REQUEST=GetFeature&VERS BOX=53,6,58,15, <u>http://www.opengis.ne</u> Iso seems that the BBOX values for the ve pasted the corresponding "GetFeatu SG::xxxx): E=WFS&REQUEST=GetFeature&VERS RSNAME=urn:ogc:def:crs:EPSG::30444 lues for the corners are looks more reali	SION=2.0.0&TYPENAMES=am the srsName to make it valid - like SION=2.0.0&TYPENAMES=am <u>et/def/crs/EPSG/0/3044</u> corners themselves are also a l re" request, when the layer is se SION=2.0.0&TYPENAMES=am &BBOX=6013288,254451,6430 istic, and this notation works per	ManagementRestrictionOrRegulationZone&C below: ManagementRestrictionOrRegulationZone&C ittle off (although I'm not sure of this). rved with the OGC URN srsName style (e.g. ManagementRestrictionOrRegulationZone&C 0433,1035230,urn:ogc:def:crs:EPSG::3044 fectly in QGIS.		

#1 - 2019-03-20 04:34 PM - Jonas Pedersen

In have tried to edit the function QgsGmlStreamingParser::readEpsgFromAttribute (line 1207) in qgsgml.cpp. I have edited the first branch, so that instead of filtering on just "http://" it filters on "http://www.opengis.net/gml/srs/" and I have also added a extra branch that handles the OGC HTTP URI style by filtering on "http://www.opengis.net/def/crs/EPSG/", e.g.

else if (epsgString.startsWith(QLatin1String("http://www.opengis.net/def/crs/EPSG/")))

{

blsUrn = true;

```
epsgNrString = epsgString.split( '/' ).last();
```

QgsDebugMsg(QStringLiteral("epsgNrString from new OGC HTTP URI branch is: %1").arg(epsgNrString));

}

This fix seems to as far as the debug output now shows:

C:\Users\b031513\git\QGIS\src\core\qgsgml.cpp(835): (QgsGmlStreamingParser::startElement) [2ms] mEpsg = 3044

indicating that the epsg code is found and returned.

But I still get the same error as before when adding the WFS, so the BBOX is still malformed and coordinates seems to be in WGS 84 (EPSG:4326) format.

Can anybody point me to where the getfeature string is created and maybe a hint as to how to set a QgsDebugMsg at that point?

PS If a pull request is better, please let me know how to do that,

Regards,

Jonas

#2 - 2019-03-20 06:45 PM - Giovanni Manghi

- Status changed from Open to Feedback

Yes, a PR is much better, see https://docs.qgis.org/2.18/en/docs/documentation_guidelines/first_contribution.html

#3 - 2019-03-21 11:11 AM - Jonas Pedersen

I have created a PR for the issue: https://github.com/qgis/QGIS/pull/9594

#4 - 2019-03-21 11:55 AM - Giovanni Manghi

- Pull Request or Patch supplied changed from No to Yes

#5 - 2019-03-22 01:21 PM - Jonas Pedersen

I have now supplied a PR that solves the problem and works with OGC HTTP URI srsName annotation. But my travis build is failing because of code style. I'm on Windows and I can't seem to get the Astyle formatting to function properly (I'm on Visual Studion 2015). Does anyone know how to make it work?

I have tried to edit the code manually so that it looks proper, but it won't validate.

Also if I would love to do this PR the right way, so any examples of implementing unit test and creating documentation is appreciated.

// Jonas

#6 - 2019-03-22 01:28 PM - Giovanni Manghi

- Status changed from Feedback to Open

Jonas Pedersen wrote:

I have now supplied a PR that solves the problem and works with OGC HTTP URI srsName annotation. But my travis build is failing because of code style. I'm on Windows and I can't seem to get the Astyle formatting to function properly (I'm on Visual Studion 2015). Does anyone know how to make it work?

I have tried to edit the code manually so that it looks proper, but it won't validate.

Also if I would love to do this PR the right way, so any examples of implementing unit test and creating documentation is appreciated.

// Jonas

you should post this question in the qgis developers mailing list.

#7 - 2019-03-29 10:26 AM - Jonas Pedersen

Hi,

I don't know the procedure, but are there any other steps I need to take to get the PR associated with this issue accepted? I would love to change whatever needed, but I need some feedback first.

// Jonas

#8 - 2019-03-29 11:32 AM - Giovanni Manghi

Jonas Pedersen wrote:

Hi,

I don't know the procedure, but are there any other steps I need to take to get the PR associated with this issue accepted? I would love to change whatever needed, but I need some feedback first.

// Jonas

ask in the PR for a review from other developers.

Files

choose-CRS-for-layer.PNG	48.9 KB	2019-03-13	Jonas Pedersen
connect.PNG	55.4 KB	2019-03-13	Jonas Pedersen