

QGIS Application - Bug report #18881

QGIS cannot recognise CRS from ESRI wkt on ArcGIS Feature Server

2018-04-29 09:00 PM - Bruce Steedman

Status: Closed	
Priority: Normal	
Assignee:	
Category: Projection Support	
Affected QGIS version: 3.0.2	Regression?: No
Operating System: Ubuntu 18.04 LTS	Easy fix?: No
Pull Request or Patch Applied: Yes	Resolution:
Crashes QGIS or corrupts data: No	Copied to github as #: 26713

Description

I am using ArcGisFeatureServer to read Feature Layers from an ArcGIS server url:

https://roadworks.gov.je/arcgis/rest/services/JSW_With_Beach_Access/MapServer

All of the layers on this server use a CRS defined by ESRI wkt:

```
PROJCS["NewJTM",GEOGCS["GCS_ETRF_1989",DATUM["D_ETRF_1989",SPHEROID["WGS_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Transverse_Mercator"],PARAMETER["False_Easting",40000.0],PARAMETER["False_Northing",70000.0],PARAMETER["Central_Meridian",-2.135],PARAMETER["Scale_Factor",0.9999999],PARAMETER["Latitude_Of_Origin",49.225],UNIT["Meter",1.0]]
```

This is the wkt for EPSG:3109, ETRS89 / Jersey Transverse Mercator see: <http://prj2epsg.org/epsg/3109>

However, after adding the server, if I choose a layer - e.g. layer 'Ambulance' - the crs in the properties has been read in as EPSG:4326. Please refer to attached screenshot.

When adding such a layer to my project (whose crs is also EPSG:3109) I get the following Warning in the CRS tab of the Log Messages panel: "WARNING Transform error caught: Could not transform bounding box to target CRS". The layer is not added to my project.

Steps to reproduce as above. No known workaround, but interestingly if I choose a layer whose Geometry Type is esriGeometryPoint (e.g. layer 8) I get the same warning, but the layer is added.

Many thanks.

Associated revisions

Revision ea38c732 - 2018-05-07 09:38 PM - Nyal Dawson

[afs] Fix handling of custom projections

Don't treat all unknown projections as WGS84

Fixes #18881

Revision 4d020416 - 2018-05-11 04:30 AM - Nyal Dawson

[afs] Fix handling of custom projections

Don't treat all unknown projections as WGS84

Fixes #18881

(cherry-picked from ea38c732)

History

#1 - 2018-04-30 01:29 PM - Bruce Steedman

Update: I found a workaround; if I add the layer, edit the properties/Source and change the Coordinate reference system to the correct one (EPSG:3109) and apply, the layer is visible. Of course if I remove the layer and re-add it, the wrong crs is used again.

Also, I found an upstream GDAL bug which may be related: <https://trac.osgeo.org/gdal/ticket/4345>. It has a milestone of GDAL v2.3.0, so may be included in GDAL 2.3.0beta1 which is on GitHub since 20th April 2018: <https://github.com/OSGeo/gdal/releases/tag/v2.3.0beta1>. I am not able to test this until I figure out how to build it from source & build QGIS with this version of GDAL. In the meantime I will try and fork GDAL and add the wkt for EPSG:3109 into a unit test to see if it passes.

#2 - 2018-04-30 10:11 PM - Nyal Dawson

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

PR at

<https://github.com/qgis/QGIS/pull/6888>

#3 - 2018-05-07 09:38 PM - Nyal Dawson

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

Applied in changeset commit:qgis|ea38c7322bedbd9b37342de8f48c6700931df50e.

Files

screen.png	157 KB	2018-04-29	Bruce Steedman
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