

QGIS Application - Bug report #15053

WMS with EPSG:31255 is shifted (datum=hermannskogel)

2016-06-17 12:04 AM - Christoph Candido

Status:	Closed	
Priority:	High	
Assignee:	Even Rouault	
Category:	Web Services clients/WMS	
Affected QGIS version:	master	Regression?: No
Operating System:	Windows	Easy fix?: No
Pull Request or Patch supplied:	No	Resolution:
Crashes QGIS or corrupts data:	No	Copied to github as #: 22996
Description		
QGIS commit:1563526 (2.15.0-86, OSGeo4W-x86, GDAL 2.1.0-1)		
When we import a WMS layer with EPSG:31255 it is shifted more than 100m.		
Looks like the problem is within gdal CRS definition file (c:\\osgeo4w\\share\\proj\\epsg).		
There was a change from		
<pre><31255> +proj=tmerc +lat_0=0 +lon_0=13.333333333333333 +k=1 +x_0=0 +y_0=-5000000 *+towgs84=577.326,90.129,463.919,5.137,1.474,5.297,2.4232* +units=m +no_defs <></pre>		
to		
<pre><31255> +proj=tmerc +lat_0=0 +lon_0=13.333333333333333 +k=1 +x_0=0 +y_0=-5000000 *+datum=hermannskogel* +units=m +no_defs <></pre>		
Unfortunately, datum "hermannskogel" seems to be hardcoded with three-parameters "towgs84=653.0,-212.0,449.0" instead of the official 7 paramters "towgs84=577.326,90.129,463.919,5.137,1.474,5.297,2.4232" (http://www.bev.gv.at/pls/portal/url/ITEM/38A4FD4FE4CD57DBBE040010A83215AF0)		
The QGIS definition of EPSG:31255 in c:\\osgeo4w\\apps\\qgis-dev\\resources\\srs.db uses the official 7 parameters, producing the datum shift.		
Is it possible to correct the definition of datum "hermannskogel" in gdal?		

History

#1 - 2016-06-18 07:28 AM - Even Rouault

Which version of proj.4 are you using ? hermannskogel definition was updated from the 3 parameters to the 7 parameters in proj 4.9.1 :

<https://github.com/OSGeo/proj.4/commit/e4ef280b985d40390fad3cf4e88135774c7d9218>

#2 - 2016-06-22 11:38 PM - Christoph Candido

- Status changed from Open to Closed

Even,

QGIS 2.15.0-86 uses PROJ.4 version 4.9.2.

And YES, the parameters for datum "hermannskogel" are correct (7 Parameters).

I guess the problem with our install was, that QGIS referenced an old proj.dll (maybe from Sextante).

I removed all pre 4.9.1 proj.dll files and everything is fine now.

Thank's a lot for your info!