

## QGIS Application - Bug report #16076

### Opening a Vector Geopackage in QGIS alters its file even when no changes are done by user

2017-01-13 09:04 AM - Johannes Kroeger

<b>Status:</b> Open	
<b>Priority:</b> Normal	
<b>Assignee:</b>	
<b>Category:</b> Unknown	
<b>Affected QGIS version:</b> 3.6.0	<b>Regression?:</b> No
<b>Operating System:</b>	<b>Easy fix?:</b> No
<b>Pull Request or Patch supplied:</b>	<b>Resolution:</b>
<b>Crashes QGIS or corrupts data:</b>	<b>Copied to github as #:</b> 23991
<b>Description</b>	
<p>Opening a Vector Geopackage in QGIS alters its file. Simply loading the file is enough, you do not even need to load any actual data (visibly to the user).</p> <pre>\$ wget http://www.geopackage.org/data/geonames_belgium.gpkg 2017-01-13 17:58:54 (1.28 MB/s) - 'geonames_belgium.gpkg' saved [11594752/11594752]  \$ cp geonames_belgium.gpkg geonames_belgium.gpkg_original  \$ md5sum geonames_belgium.gpkg*  4dacf68ae3a5f2c2fb55a35d062dc580 geonames_belgium.gpkg 4dacf68ae3a5f2c2fb55a35d062dc580 geonames_belgium.gpkg_original  \$ ogrinfo -so geonames_belgium.gpkg INFO: Open of `geonames_belgium.gpkg'       using driver `GPKG' successful. 1: administrative (3D Measured Point) 2: hydrography (3D Measured Point) 3: leisure (3D Measured Point) 4: places (3D Measured Point) 5: roads (3D Measured Point) 6: spots (3D Measured Point) 7: terrain (3D Measured Point) 8: undersea (3D Measured Point) 9: vegetation (3D Measured Point)  \$ md5sum geonames_belgium.gpkg* 4dacf68ae3a5f2c2fb55a35d062dc580 geonames_belgium.gpkg 4dacf68ae3a5f2c2fb55a35d062dc580 geonames_belgium.gpkg_original  hannes@hilmar:/mnt/earx/geodata\$ qgis geonames_belgium.gpkg Warning: loading of qgis translation failed [/usr/share/qgis/i18n//qgis_en_US] Warning: loading of qt translation failed [/usr/share/qt/translations/qt_en_US] Warning: QCss::Parser - Failed to load file "/style.qss"</pre> <p>Here the layer chooser dialog appeared on which I clicked Cancel and quit QGIS.</p> <pre>\$ md5sum geonames_belgium.gpkg*</pre>	

```
99fad69efe058b1d308088b96d60e915 geonames_belgium.gpkg
4dacf68ae3a5f2c2fb55a35d062dc580 geonames_belgium.gpkg_original
```

QGIS changes only some stuff in the header:

```
$ hexdump -C geonames_belgium.gpkg > geonames_belgium.gpkg.hex
$ hexdump -C geonames_belgium.gpkg_original > geonames_belgium.gpkg_original.hex
$ diff geonames_belgium.gpkg*.hex
2c2
< 00000010 04 00 01 01 00 40 20 20 00 00 00 56 00 00 2c 3b |.....@ ...V...;|
---
> 00000010 04 00 01 01 00 40 20 20 00 00 00 54 00 00 2c 3b |.....@ ...T...;|
6,7c6,7
< 00000050 00 00 00 00 00 00 00 00 00 00 00 00 00 00 56 |.....V|
< 00000060 00 2e 05 42 05 00 00 00 26 03 42 00 00 00 2c 3b |...B....&.B...;|
---
> 00000050 00 00 00 00 00 00 00 00 00 00 00 00 00 00 54 |.....T|
> 00000060 00 2d e6 06 05 00 00 00 26 03 42 00 00 00 2c 3b |.-.....&.B...;|
```

I could not reproduce this bug with the Raster GPKG <https://portal.opengeospatial.org/files/63156> but with any other Vector GPKG I tried.

Please ensure that merely opening a file does never alter it.

## History

### #1 - 2017-01-14 05:50 AM - Even Rouault

What you observe is by design to avoid dead lock issues in concurrent reading/writing scenarios. See <https://lists.osgeo.org/pipermail/qgis-user/2017-January/038830.html>

### #2 - 2017-05-01 01:01 AM - Giovanni Manghi

- *Easy fix? set to No*
- *Regression? set to No*

### #3 - 2017-09-22 09:54 AM - Jürgen Fischer

- *Category set to Unknown*

### #4 - 2019-03-09 04:28 PM - Giovanni Manghi

- *Status changed from Open to Feedback*

Please check if this issue is still valid on QGIS 3.4.5 or 3.6.

### #5 - 2019-03-16 10:21 PM - Johannes Kroeger

- *Description updated*
- *Status changed from Feedback to Open*

Still happening in 3.6.0-Noosa. And still a reason for me to "chmod -w" my geopackages before touching them with QGIS :(

**#6 - 2019-03-16 10:22 PM - Giovanni Manghi**

*- Affected QGIS version changed from master to 3.6.0*