

QGIS Application - Bug report #16870

copy/paste/save fails ("geometry type is not compatible with the current layer") for a specific point dataset in qgis master (on Windows)

2017-07-14 04:33 PM - Giovanni Manghi

| | |
|---|-------------------------------------|
| Status: Closed | |
| Priority: High | |
| Assignee: Luigi Pirelli | |
| Category: Digitising | |
| Affected QGIS version: master | Regression?: Yes |
| Operating System: Windows | Easy fix?: Yes |
| Pull Request or Patch Supplied: Yes | Resolution: |
| Crashes QGIS or corrupts data: No | Copied to github as #: 24769 |
| Description | |
| Was all ok until 2.18.10 included. | |
| To test just make a copy of the attached shapefile. | |

Associated revisions

Revision 2712f669 - 2017-08-07 09:18 AM - Alessandro Pasotti

Merge pull request #4980 from boundlessgeo/Win_CutAndPaste_issue16870

From Clipboard Cut&Paste fix when attached special field values. Fixes #16870

Revision f464aebf - 2017-08-17 04:39 PM - Alessandro Pasotti

Merge pull request #5030 from boundlessgeo/Win_CutAndPaste_2-18_issue16870

Clipboard Cut&Paste fix when attached special field values. Fixes #16870

History

#1 - 2017-07-14 07:05 PM - Richard Duivenvoorde

I cannot reproduce this?

In current master I:

- open your attached zip (without unzipping)
- select a bunch of points
- Paste as New Vector layer (in Edit menu)
- then I can save it both as shape file or geopackage without problem...

#2 - 2017-07-14 07:09 PM - Giovanni Manghi

Richard Duivenvoorde wrote:

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In current master I:

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- *select a bunch of points*
- *Paste as New Vector layer (in Edit menu)*
- *then I can save it both as shape file or geopackage without problem...*

no, that is not the right workflow.

Open the shapefile > save as (shapefile) to make a clone of it > copy features from original shape > paste into copy > try save edits in copy

#3 - 2017-07-14 08:46 PM - Jürgen Fischer

Not reproducible in master (insert above point layer, copy features from layer, save as other file, start editing saved layer, paste features to layer, commit changes, voila)

#4 - 2017-07-14 08:48 PM - Giovanni Manghi

Jürgen Fischer wrote:

Not reproducible in master (insert above point layer, copy features from layer, save as other file, start editing saved layer, paste features to layer, commit changes, voila)

will post screencasts from both 2.18.10 nightly and master from clean testing environments.

#5 - 2017-07-14 09:33 PM - Jürgen Fischer

Jürgen Fischer wrote:

Not reproducible in master (insert above point layer, copy features from layer, save as other file, start editing saved layer, paste features to layer, commit changes, voila)

and not with 2.18.10 (same procedure; both on Linux)

#6 - 2017-07-14 10:13 PM - Jürgen Fischer

Jürgen Fischer wrote:

and not with 2.18.10 (same procedure; both on Linux)

but with master on windows (with GDAL 2.2 vs. GDAL 2.1.2 on Linux)

#7 - 2017-07-14 10:15 PM - Giovanni Manghi

Jürgen Fischer wrote:

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and not with 2.18.10 (same procedure; both on Linux)

but with master on windows (with GDAL 2.2 vs. GDAL 2.1.2 on Linux)

test in clean env (Linux and Win) + screencast is coming (if confirmed)... just a few more minutes.

#8 - 2017-07-14 11:18 PM - Giovanni Manghi

- Operating System set to Windows

- File Recording #2.mp4 added

- Subject changed from copy/paste/save fails ("geometry type is not compatible with the current layer") for a specific point dataset in qgis 2.18.10-nightly and master to copy/paste/save fails ("geometry type is not compatible with the current layer") for a specific point dataset in qgis master (on Windows)

- Affected QGIS version changed from 2.18.10 to master

I tried again on clean testing environments both linux and windows, with 2.18.10-nightly and master. And despite not confirming again on 2.18.10-nightly and master on linux, I still see it on master Windows. That is on a clean Win7 VM, with qgis master just installed from osgeo4w. Screencast attached.

#9 - 2017-07-19 12:53 PM - Luigi Pirelli

confirmed on master(d70f53c)/win10

#10 - 2017-07-19 03:28 PM - Jürgen Fischer

- Assignee set to Luigi Pirelli

#11 - 2017-07-19 04:05 PM - Luigi Pirelli

- File BOUNDLESS-WIN-1.LOG added

related log

#12 - 2017-07-19 05:33 PM - Luigi Pirelli

independent by provider type (tested on spatialite)

the check is done because it is wkbPoint or wkbPoint25D as in:

<https://github.com/qgis/QGIS/blob/master/src/providers/ogr/qgsogrprovider.cpp#L3445>

#13 - 2017-07-20 10:54 AM - Luigi Pirelli

btw on Linux (compild master) the line:

<https://github.com/qgis/QGIS/blob/master/src/core/qgsvectorlayereditbuffer.cpp#L329>

that generate the error is never reached because the pasted geometry has the same type of destination layer.

Something different happend in Windows... could be a erroneous geometry due to cut&paste, or some missing gemetry type. More investigation. The hard is to have a debug setup on win.

#14 - 2017-07-31 12:40 PM - jd lom

Seems to be fixed with 2.18.11. Can anyone confirm this ?

#15 - 2017-07-31 01:30 PM - Luigi Pirelli

I hadn't test yet... did you try with test data attached to this issue?

#16 - 2017-07-31 01:42 PM - Gerhard Spieles

I test it with 2.18.11 under win10 and win7.
Copy and paste between shape/shape and shape/spatialite is ok.
I haven't test it with dxf/geopackage.

#17 - 2017-07-31 01:43 PM - Giovanni Manghi

Gerhard Spieles wrote:

```
| I test it with 2.18.11 under win10 and win7.  
| Copy and paste between shape/shape and shape/spatialite is ok.  
| I haven't test it with dxf/geopackage.
```

the question is if you tested the point layer attached to this ticket. In general it works, but there are datasets where it does not.

#18 - 2017-07-31 09:45 PM - Gerhard Spieles

Sorry Giovanni,
I was in the wrong ticket. Right ticket is #16770.
I'll report it there.

#19 - 2017-08-04 11:29 AM - Luigi Pirelli

one of the pasted feature in mFeatureAdded has wrong values... investigating the cut&paste mechanism

```
.  
.  
2017-08-04T05:25:39 WARNING ID -574  
2017-08-04T05:25:39 WARNING ID -573  
2017-08-04T05:25:39 WARNING is c[?] has geom %2 of type %3
```

#20 - 2017-08-05 10:14 AM - Luigi Pirelli

new debug message... for some reason one geometry pasted has been converted to PointZM (3001) instead of Point (1)

```
2017-08-05T04:13:22 WARNING ID -2906 has geom 1 of type 1  
2017-08-05T04:13:22 WARNING ID -2905 has geom 1 of type 1  
2017-08-05T04:13:22 WARNING ID -2904 has geom 1 of type 3001
```

#21 - 2017-08-05 10:26 AM - Luigi Pirelli

the PointZM geometry is already present during paste (not only at commit) => investigating if:

- 1) data are wrong mixing Point and PointZM
- 2) if copy or paste has modified a geometry type

#22 - 2017-08-05 12:07 PM - Luigi Pirelli

the error is derived from the fact that in: <https://github.com/qgis/QGIS/blob/master/src/app/qgsclipboard.cpp#L194> to the generator is passed a record with WKT + all attached params.

If a param has a value with "(...)" the QgsGeometry::fromWkt(string) returns a wrong geometry

#23 - 2017-08-05 12:08 PM - Luigi Pirelli

it's still not clear why this happens only on win

#24 - 2017-08-05 04:54 PM - Luigi Pirelli

in windows for a not clear to me combination setting value of mUseSystemClipboard enter in:

<https://github.com/qgis/QGIS/blob/master/src/app/qgsclipboard.cpp#L194>

where the geometry is built getting the WKT string + fields values.

If a field value has (something) e.g. "POINT value1 value2 aaa(something) value3"

then the geometry is PointZM generated by QgsGeometry::fromWkt.

the error is that row has to be cleaned from fields values... that is the object of the patch I'm preparing.

#25 - 2017-08-05 04:54 PM - Luigi Pirelli

- Easy fix? changed from No to Yes

#26 - 2017-08-06 02:41 PM - Luigi Pirelli

- Pull Request or Patch supplied changed from No to Yes

proposed PR with tests: <https://github.com/qgis/QGIS/pull/4980>

#27 - 2017-08-07 09:18 AM - Anonymous

- Status changed from Open to Closed

- % Done changed from 0 to 100

Applied in changeset commit:qgis|2712f66938546f7423bc46a9376fe4c7a02c0505.

#28 - 2017-08-10 12:33 PM - A E

- File punkte.shp added

Still an issue under Win7 running 2.18.11: multi-point features are not pasted into other layers. Error warning informs simply that not all features could be pasted.

#29 - 2017-08-10 01:03 PM - Giovanni Manghi

A E wrote:

Still an issue under Win7 running 2.18.11: multi-point features are not pasted into other layers. Error warning informs simply that not all features could be pasted.

can you add the other layers of the shapefile?: shx, dbf and prj, thanks.

#30 - 2017-08-14 10:20 AM - Luigi Pirelli

reading the code probably the issue would affect also 2.18 in case of cut&paste from outside qgis, e.g. passing from a dump of the layer in textual from clipboard (in case of inter layer cut&paste, qgis use directly the features without text conversion). The fix is identical of the master code. I will backport to 2.18 as soon as possible. BTW, please attache the complete layer to reproduce the issue.

In the description pelase also give the followiong informations:

- 1) configuration value of Option->settings-Zdata source->Copy feature as
- 2) detailed and reproducible sequence of steps to replicate the issue on 2.18.11

thanks

#31 - 2017-08-16 12:57 PM - Luigi Pirelli

backported to 2.18 with PR:

<https://github.com/qgis/QGIS/pull/5030>

#32 - 2017-08-16 01:01 PM - Luigi Pirelli

Anonymous wrote:

Applied in changeset commit:qgis|2712f66938546f7423bc46a9376fe4c7a02c0505.

dbf file is especially important because the error was due to parse QgsGeometry::fromWkt from a WKT with attached all attributes and where an attribute has "(some value) inside.

btw <https://github.com/qgis/QGIS/pull/5030> should have fixed it

#33 - 2017-08-17 05:02 PM - Luigi Pirelli

merged to 2.18 with PR:

<https://github.com/qgis/QGIS/pull/5030>

Files

| | | | |
|---------------------|---------|------------|-----------------|
| points.zip | 28.8 KB | 2017-07-14 | Giovanni Manghi |
| Recording #2.mp4 | 2.97 MB | 2017-07-14 | Giovanni Manghi |
| BOUNDLESS-WIN-1.LOG | 258 KB | 2017-07-19 | Luigi Pirelli |
| punkte.shp | 1.85 KB | 2017-08-10 | A E |