

## 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

<b>Status:</b>	Closed	
<b>Priority:</b>	High	
<b>Assignee:</b>	Luigi Pirelli	
<b>Category:</b>	Digitising	
<b>Affected QGIS version:</b>	master	<b>Regression?:</b> Yes
<b>Operating System:</b>	Windows	<b>Easy fix?:</b> Yes
<b>Pull Request or Patch supplied:</b>	Yes	<b>Resolution:</b>
<b>Crashes QGIS or corrupts data:</b>	No	<b>Copied to github as #:</b> 24769
<b>Description</b>		
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:

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...*

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:

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)

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 erro ris 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) return a wrong geometry

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

it's still not clear why this happened 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 build 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 have 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 attach the complete layer to reproduce the issue.

In the description please also give the following 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