

## QGIS Application - Bug report #16948

"Paste features as..." always creates vector layer/scratch layer that can only handle just singlepart features, so pasting multipart features always returns an error

2017-08-01 06:40 PM - Giovanni Manghi

<b>Status:</b> Closed	
<b>Priority:</b> High	
<b>Assignee:</b> Luigi Pirelli	
<b>Category:</b> Vectors	
<b>Affected QGIS version:</b> 2.18.13	<b>Regression?:</b> Yes
<b>Operating System:</b>	<b>Easy fix?:</b> No
<b>Pull Request or Patch supplied:</b>	<b>Resolution:</b> fixed/implemented
<b>Crashes QGIS or corrupts data:</b>	<b>Copied to github as #:</b> 24847
<b>Description</b>	
<p>Unlike the</p> <p>Layer &gt; create layer &gt; new temporary scratch layer</p> <p>dialog that allow the user choose if the supported geometries are multi or not, the</p> <p>Paste features as...</p> <p>dialog do not allow choose that, it turns that is the copied features are multi then an error in thrown... but not in the message bar as eventually expected, just in the log:</p> <pre>2017-08-01T14:01:14 1 Commit errors:   ERROR: 99 feature(s) not added - geometry type is not compatible with the current layer.   SUCCESS: 6 attribute(s) added. 2017-08-01T17:39:22 1 Commit errors:   ERROR: 62 feature(s) not added - geometry type is not compatible with the current layer.   SUCCESS: 6 attribute(s) added.</pre> <p>and the scratch layer does not even show in the layer list.</p>	
<b>Related issues:</b>	
Related to QGIS Application - Bug report # 16770: copy/paste/save features f...	<b>Closed</b> <b>2017-06-30</b>

### History

#### #1 - 2017-08-01 09:20 PM - Gerhard Spieles

- File 2.18.11\_paste\_feature\_as\_in\_temporary\_layer\_ok.pdf added

Here no problem in 2.18.11 under win10

pdf is attached

#### #2 - 2017-08-02 10:12 AM - Nyal Dawson

- Status changed from Open to Feedback

Giovanni - do you think we should just force the scratch layer to always be multitype here?

**#3 - 2017-08-02 11:38 AM - Jürgen Fischer**

- Related to Bug report #16770: copy/paste/save features from one layer to another of the same time broke in 2.18 added

**#4 - 2017-08-03 12:05 AM - Giovanni Manghi**

- Regression? changed from No to Yes
- File cn36201\_caop\_utm\_wg84.dxf added
- Status changed from Feedback to Open
- Priority changed from Normal to High

Nyall Dawson wrote:

| Giovanni - do you think we should just force the scratch layer to always be multitype here?

yes, possibly. Please note that this was working as expected in 2.14. The test can be done with the attached dxf, from where to copy the features.

**#5 - 2017-08-04 05:44 PM - Luigi Pirelli**

something managed (convert to multi) in some provider or wkb cases:

<https://github.com/qgis/QGIS/blob/master/src/app/qgisapp.cpp#L8021>

**#6 - 2017-08-31 07:31 AM - Gregor Sanders**

I'm trying to paste 98 polygons (some will be multipart) into a temporary scratch layer and they paste successfully, but I cannot save (QGIS v 2.18.12):

Errors: ERROR: 98 feature(s) not added - geometry type is not compatible with the current layer.

Giovanni wrote:

| Nyall Dawson wrote:

| Giovanni - do you think we should just force the scratch layer to always be multitype here?

| yes, possibly. Please note that this was working as expected in 2.14. The test can be done with the attached dxf, from where to copy the features.

Note: In my case, the scratch layer was created as a multipolygon type layer, so maybe the problem is due to mixing single part and multipart polygons when pasting?

**#7 - 2017-09-05 03:32 PM - Luigi Pirelli**

**#8 - 2017-09-05 03:37 PM - Luigi Pirelli**

Hi Gregor,

what is the target format on which you want to save the scratch layer?

Gregor Sanders wrote:

*I'm trying to paste 98 polygons (some will be multipart) into a temporary scratch layer and they paste successfully, but I cannot save (QGIS v 2.18.12):*

*Errors: ERROR: 98 feature(s) not added - geometry type is not compatible with the current layer.*

*Giovanni wrote:*

*Nyall Dawson wrote:*

*Giovanni - do you think we should just force the scratch layer to always be multitype here?*

*yes, possibly. Please note that this was working as expected in 2.14. The test can be done with the attached dxf, from where to copy the features.*

*Note: In my case, the scratch layer was created as a multipolygon type layer, so maybe the problem is due to mixing single part and multipart polygons when pasting?*

#### **#9 - 2017-09-07 06:46 PM - Luigi Pirelli**

- Assignee set to Luigi Pirelli

probably just adding a GUI to ask destination type (e.g. force to multy)

<https://github.com/qgis/QGIS/blob/master/src/app/qgisapp.cpp#L8068>

the actual code that create scratch layer force to Multi in there is at least a feature multi inside the features to paste. I would leave the decision to convert to multy to the user

#### **#10 - 2017-09-07 06:48 PM - Luigi Pirelli**

We should divide the problem in two aspects:

- 1) create a scratch layer asking the user to force
- 2) notify as soon as possible the user that paste is not compatible trying to avoid to wait to commitChanges to raise the exception.

#### **#11 - 2017-09-20 12:07 PM - Luigi Pirelli**

I can't (almost) replicate the issue with 2.18 36e6bd1

"almost" because, copying from a MultiLineString layer with real multi lines and choosing "automatic" in the "PasteAs" interface give the following results:

- 1) Memory layer => generate MultiLineString
- 2) Shapefile => generate LineString (but the multi line is accepted and present in the layer :/ )
- 3) Spatialite => generate MultiLineString

Probably Shapefile works (ogr) because it doesn't do any strict geometry check

so, IMHO this issue can be closed, or I don't understand where is the issue.

@giovanni any opinion?

**#12 - 2017-09-21 11:13 AM - Giovanni Manghi**

- Affected QGIS version changed from 2.18.11 to 2.18.13

Luigi Pirelli wrote:

*I can't (almost) replicate the issue with 2.18 36e6bd1*

*"almost" because, coping from a MultiLineString layer with real multi lines and choosing "automatic" in the "PasteAs" interface give the following results:*

- 1) Memory layer => generate MultiLineString*
- 2) Shapefile => generate LineString (but the multi line is accepted and present in the layer :/)*
- 3) Spatialite => generate MultiLineString*

*Probably Shapefile works (ogr) because it doesn't do any strict geometry check*

*so, IMHO this issue can be closed, or I don't understand where is the issue.*

*@giovanni any opinion?*

On 2.18.13 the behavior is still the same (wrong/error, works in 2.14):

2017-09-21T10:12:27 1 Commit errors:

ERROR: 418 feature(s) not added - geometry type is not compatible with the current layer.

SUCCESS: 6 attribute(s) added.

To replicate do exactly what in the description and with attached data.

**#13 - 2017-09-21 01:40 PM - Luigi Pirelli**

confirmed following these steps

- 1) load attached dx: LineString layer
- 2) select all features
- 3) paste as new scratch layer => error in General log message. No message to the user via GUI

**#14 - 2017-09-21 01:41 PM - Luigi Pirelli**

The PR: <https://github.com/qgis/QGIS/pull/5223>

seems solving the issue, please confirm

**#15 - 2017-09-21 02:03 PM - Luigi Pirelli**

IMHO the patch does not solve the origin of the problem.... the LineString dxf layer is a LineStringZ

Any Z or M layer is Flat during paste:

[https://github.com/qgis/QGIS/blob/release-2\\_18/src/app/qgisapp.cpp#L7625](https://github.com/qgis/QGIS/blob/release-2_18/src/app/qgisapp.cpp#L7625)

I suppose because when new geometry engine was introduced it was necessary to avoid regressions.

**#16 - 2017-09-21 02:04 PM - Luigi Pirelli**

IMHO any changes to accept Z or M layers have to be applied only in 3.x version

**#17 - 2017-09-21 06:54 PM - Giovanni Manghi**

Luigi Pirelli wrote:

The PR: <https://github.com/qgis/QGIS/pull/5223>  
seems solving the issue, please confirm

seems so, thanks!

**#18 - 2017-09-27 05:14 PM - Luigi Pirelli**

- Pull Request or Patch supplied changed from No to Yes
- Status changed from Open to Closed
- Resolution set to fixed/implemented

Applied in changeset qgis|d3d8f4dd437f132cd6f73831d845f6b7286e2d30.

**Files**

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2.18.11_paste_feature_as_in_temporary_layer_ok.pdf	223 KB	2017-08-01	Gerhard Spieles
cn36201_caop_utm_wg84.dxf	1.66 MB	2017-08-02	Giovanni Manghi