

QGIS Application - Bug report #14447

Unknown exception when tracing is enabled

2016-03-09 04:37 AM - R. R.

Status:	Closed	
Priority:	Normal	
Assignee:	Martin Dobias	
Category:	Digitising	
Affected QGIS version:	master	Regression?: No
Operating System:	Ubuntu 14.04 LTS	Easy fix?: No
Pull Request or Patch supplied:		Resolution:
Crashes QGIS or corrupts data:		Copied to github as #: 22425
Description		
<p>When digitising complex features using the new tracing tool an expception window ('unknown exception') opens. The issue occurs when moving the mouse inside the canvas.</p>		

Associated revisions

Revision 11e7140d - 2016-04-27 10:50 AM - Martin Dobias

Gracefully handle topology errors when tracing (fixes #14447)

Revision 80102b1a - 2016-04-29 04:43 AM - Martin Dobias

Gracefully handle topology errors when tracing (fixes #14447)

(cherry picked from commit 11e7140d37b88264490928114665967df4f6cfa5)

History

#1 - 2016-03-23 02:55 PM - Maximilian Krambach

Further settings are "snapping on all layers, to vertex and segment, 10 pixel tolerance").

The exception raises whenever a tiny, but valid polygon (between bigger polygons, area < 0.1m², maximum width ~8mm) is on the canvas' extent. It raises an exception whenever a first point is set, or, if a first point was already set outside this area, whenever some snapping is calculated (whenever the mouse moves).

The layer's CRS is Gauss-Krueger based. The error does not depend on scale in this CRS.

Setting the OTF-reprojection to a UTM based CRS makes the error appear only in scale 1:5000 and smaller.

Setting it to EPSG:3857 (google Pseudomercator) makes the error disappear, which may serve as temporary workaround. Another workaround is removing the small areas (toolbox-> v.clean -> option rmarea) before further digitizing.

I think it is a rounding issue somewhere in qgsadvanceddigitizingwidget.cpp. Calculating 8mm in GK based systems and UTM based systems may make a difference, and there is some rounding going on in the file ([example](#)) .

#2 - 2016-03-24 12:41 AM - R. R.

- Assignee set to Saber Razmjooei

Thanks for debugging and the detailed explanation. After deleting all tiny polygons the tracing tool is working properly. I've assigned the ticket to Saber Razmjooei (see <http://www.lutraconsulting.co.uk/blog/2016/02/16/qgis-trace-digitising/>).

#3 - 2016-03-24 11:20 AM - R. R.

- *File tracing.zip added*

I've uploaded sample .shp files and a screenshot for reproducing the issue.

#4 - 2016-04-22 12:57 AM - Saber Razmjooei

- *Assignee changed from Saber Razmjooei to Martin Dobias*
- *Affected QGIS version changed from 2.14.0 to master*

As mentioned, there seems to be a problem with the file.

However, the trace digitizing tool should show a more meaningful message.

Tested in the master with same result.

#5 - 2016-04-27 01:51 AM - Martin Dobias

- *Status changed from Open to Closed*

Fixed in changeset commit:"11e7140d37b88264490928114665967df4f6cfa5".

#6 - 2016-05-04 12:42 PM - R. R.

Thanks for the bug fix. I've tested the attached file (QGIS 2.14.2) and it works just fine.

Files

tracing_unknown_exception.jpg	343 KB	2016-03-09	R. R.
tracing.zip	165 KB	2016-03-24	R. R.