

QGIS Application - Bug report #7638

MSSQL data provider rounds geometry on save

2013-04-17 10:27 PM - Matthew Schubert

Status: Closed	
Priority: High	
Assignee: Tamas Szekeres	
Category: Data Provider/MSSQL	
Affected QGIS version: master	Regression?: No
Operating System:	Easy fix?: No
Pull Request or Patch supplied:	Resolution:
Crashes QGIS or corrupts data:	Copied to github as #: 16559
Description	
<p>I've been using a data source coming from an MS SQL server table. I noticed on copying across points to the layer and saving it, the points end up in a slightly different position to the source.</p> <p>More investigation points to the MS SQL data provider using WKT to insert/update geometry. Because it uses <code>QgsGeometry::exportToWkt()</code>, the WKT is rounded to 6 decimal places. For my source data, this resulted in inaccuracies of approximately 50mm or so.</p> <p>There is a <code>mUseWkb</code> flag used in <code>QgsMssqlProvider</code> to determine whether WKT or WKB is used, but I have no idea how to set that option from within QGIS. Shouldn't the provider avoid rounding on updating, anyway?</p>	

Associated revisions

Revision b1efd479 - 2013-07-17 10:51 PM - Jürgen Fischer

- introduce `qgsDoubleToString` for format double with maximum precision
- usage in mssql provider fixes #7638
- read precision in mssql provider (fixes #5966)
- commit errors are only shown once

History

#1 - 2013-04-17 11:59 PM - Matthew Schubert

Further investigation indicates that `QgsGeometry::exportToWkt()` now rounds to 8 decimal places instead of 6, as of commit:63e8188bb9d62c9a810ee41f63f36c76db3cc3a1. Still, I think the code should be change to introduce NO rounding errors on save.

#2 - 2013-04-18 03:59 PM - Nathan Woodrow

- Priority changed from Normal to High
- Assignee set to Tamas Szekeres

Tamas would be able to take a look at this?

#3 - 2013-07-12 10:43 AM - Paolo Cavallini

- Category set to Data Provider/MSSQL

#4 - 2013-07-17 01:52 PM - Jürgen Fischer

- Status changed from Open to Closed

Fixed in changeset commit:"b1efd47961260f58e3536f1916dab196f3ed8d15".