

## QGIS Application - Bug report #7638

### MSSQL data provider rounds geometry on save

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

<b>Status:</b>	Closed	
<b>Priority:</b>	High	
<b>Assignee:</b>	Tamas Szekeres	
<b>Category:</b>	Data Provider/MSSQL	
<b>Affected QGIS version:</b>	master	<b>Regression?:</b> No
<b>Operating System:</b>	Ubuntu 12.04 LTS	<b>Easy fix?:</b> No
<b>Pull Request or Patch supplied:</b>	No	<b>Resolution:</b>
<b>Crashes QGIS or corrupts data:</b>	No	<b>Copied to github as #:</b> 16559
<b>Description</b>		
<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".