QGIS Application - Bug report #14621
linestring being created as linestringZ (MSSQL)

2016-04-06 12:53 PM - Andre Jesus

Status:	Closed		
Priority:	Severe/Regression		
Assignee:			
Category:	Data Provider/MSSQL		
Affected QGIS version:	2.18.4	**Regression?:**	No
Operating System:		**Easy fix?:**	No
Pull Request or Patch supplied:		**Resolution:**	not reproducable
Crashes QGIS or corrupts data:		**Copied to github as #:**	22587

Description

I don't know why but QGIS is setting my linestring and point MSSQL layers as linestringZ and pointZ setting 0 as Z value, blocking me of saving any edit I make as MSSQL 2008 does not support linestringZ or pointZ geometry types.

I check my database and I get only linestring, but If I create a new field and set It to show me the WKT, half of my data is linestringZ.

History

#1 - 2016-04-09 07:56 AM - Giovanni Manghi

- Category set to Data Provider/MSSQL

- Target version deleted (Version 2.14)

#2 - 2016-05-05 06:31 AM - Andre Jesus

- File Imagem_855.png added

Here's a screenshot.

For some reason the problem when trying to save a edit is gone.

#3 - 2016-05-06 04:08 AM - Andre Jesus

- Target version set to Version 2.14

Ok, so the problem is not solved at all.

It's now affecting several users. They can not edit the geometry anymore because QGIS add Z values to the coordinates and MSSQL does not accept it.

Here is the error:

> Layer <table_name>: [Microsoft][ODBC SQL Server Driver][SQL Server]A .NET Framework error occurred during execution of user-defined routine
> or aggregate "geometry": System.FormatException: 24114: The label PointZ (601929.60017 in the input well-known text (WKT) is not valid. Valid
> labels are POINT, LINESTRING, POLYGON, MULTIPOINT, MULTILINESTRING, MULTIPOLYGON, or GEOMETRYCOLLECTION.
> System.FormatException: at Microsoft.SqlServer.Types.OpenGisWktReader.ParseTaggedText(OpenGisType type) at
> Microsoft.SqlServer.Types.OpenGisWktReader.Read(OpenGisType type, Int32 srid) at
> Microsoft.SqlServer.Types.SqlGeometry.GeometryFromText(OpenGisType type, SqlChars text, Int32 srid) . [Microsoft][ODBC SQL Server
> Driver][SQL Server]The statement has been terminated. QODBC3: Unable to execute statement

WKT from file in Shapefile or MSSQL:

> *wkt_geom   objectid*
>
> *Point (601929.60017591051291674 8280563.19315726682543755)   22*

WKT from QGIS after a move:

> *wkt_geom   OBJECTID*
>
> **PointZ** *(601929.60017591051291674 8280563.19315726682543755 **0**)   22*

This problem is happening in 2.14.0, 2.14.1 and 2.14.2. It affect all geometry types, not only linestring.

#4 - 2016-05-23 06:15 AM - Andre Jesus

Sorry to keep bothering but I still can't use Master to edit geometries with MSSQL.
I noticed some differences between the way 2.8.x and 2.14.x reads the geometry: https://goo.gl/r9sLq3

I'm not sure this is any help, but there you go

#5 - 2016-05-23 11:32 AM - Giovanni Manghi
- Priority changed from High to Severe/Regression

tagging as regression.

#6 - 2016-06-30 07:24 AM - Jürgen Fischer
- Status changed from Open to Feedback

Andre Jesus wrote:

> *Sorry to keep bothering but I still can't use Master to edit geometries with MSSQL.*
> *I noticed some differences between the way 2.8.x and 2.14.x reads the geometry: https://goo.gl/r9sLq3*
>
> *I'm not sure this is any help, but there you go*

What are you doing exactly and on what data? I loaded airports and railroads from the demo dataset to mssql (via 2.8.9's browser, but to MSS 2012) and can update both points and line layers using the nodetool in master and 2.14.3 without problems.

#7 - 2016-06-30 08:09 AM - Andre Jesus

I'm just trying to edit a geometry, simple editions like to move. Sometimes create a geometry algo adds Z values.

It's happening in my SQLSERVER 2016 test server too.

https://s31.postimg.org/zcxmcfop7/Image_001.png

https://s32.postimg.org/hspxd26g5/Image_002.png

https://s31.postimg.org/wue6cuiiz/Image_003.png

Here is the data:
INSERT [dbo].[TUB_DISTRIBUICAO] ([OBJECTID], [GEOMETRY]) VALUES (5,
0x0000000001158465C8A99E6122410DB59A90E7925F4131E2FE1DAC612241CFD91234E8925F4100000000000000000000000000000000)
INSERT [dbo].[TUB_DISTRIBUICAO] ([OBJECTID], [GEOMETRY]) VALUES (18913,
0x00000000011531E2FE1DAC612241CFD91234E8925F41D7C05B14E06122414EA0C180EA925F4100000000000000000000000000000000)

EPSG:29191
Using

#8 - 2016-06-30 01:47 PM - Jürgen Fischer

Andre Jesus wrote:

> *I'm just trying to edit a geometry, simple editions like to move. Sometimes create a geometry algo adds Z values.*

Unfortunately I can't reproduce. Moving and editing with the node tool doesn't produce Z geometries here.

#9 - 2016-06-30 02:03 PM - Andre Jesus

This is not a isolated situation, all users in my network have the same problem. That's the reason we are stuck with 2.8.9.

If you wish I can set up a Teamviewer for you, so you can see what is going on, enable a debug, check the database... your call.

E-mail me.

#10 - 2016-07-02 09:13 AM - Giovanni Manghi
- Target version changed from Version 2.14 to Version 2.16

#11 - 2016-07-02 09:13 AM - Giovanni Manghi
- Status changed from Feedback to Open

#12 - 2016-07-02 01:14 PM - Jürgen Fischer
- Status changed from Open to Feedback

#13 - 2016-07-02 01:21 PM - Giovanni Manghi

The reporter has already left feedback and offered a way to have the issue checked, why tagging as feedback again?

#14 - 2016-07-02 01:22 PM - Jürgen Fischer

Giovanni Manghi wrote:

> *The reporter has already left feedback and offered a way to have the issue checked, why tagging as feedback again?*

We still need information to reproduce the problem.

#15 - 2016-07-13 07:34 AM - Andre Jesus

Confirmed the same problem in 2.14.4 and 2.16.0

Installed 2.14.4, tested (error). uninstalled , cleared folders and windows registry.

Installed 2.16.0 , tested (error). uninstalled , cleared folders and windows registry.

Installed 2.14.4 x86, tested (error). uninstalled , cleared folders and windows registry.

Installed 2.8.9, tested (okey).

So, ever since the connection dialog changed for MSSQL, the problem with the geometry type started.

#16 - 2016-07-13 07:37 AM - Giovanni Manghi

- Status changed from Feedback to Open

- Affected QGIS version changed from 2.14.0 to 2.16.0

#17 - 2016-08-03 07:19 AM - Andre Jesus

Problem persists: 2.16.1

This is how I manage to work around this problem:

I had to recreate all problematic geometries from WKT using the script below:

```
declare @txt varchar(max), @g geometry, @a int, @b int
set @a = (select min(oid) from TABLE)
 set @b = (select max(oid) from TABLE)
While (@a <= @b)
 begin
 set @txt = (select geometry.STAsText() from TABLE where oid = @a)
 set @g =  geometry::STGeomFromText(@txt, 0);
 update TABLE set geometry = @g where oid = @a
 set @a = (select min(oid) from TABLE where oid > @a)
 end
```

I'm working for a couple of hours and It all seems ok.

Does anyone knows why does It solved the problem?

#18 - 2017-02-28 10:35 AM - Giovanni Manghi

- Target version changed from Version 2.16 to Version 2.18

- Status changed from Open to Feedback

- Affected QGIS version changed from 2.16.0 to 2.18.4

Andre Jesus wrote:

> *Problem persists: 2.16.1*

I believe the problem persist also in 2.18.4, correct?

#19 - 2017-03-01 03:11 AM - Giovanni Manghi

I have a report from a MS SQL Server 2014 user that this issue in not confirmed, can anyone else give it a try?

#20 - 2017-03-01 03:32 AM - Andre Jesus

Giovanni Manghi wrote:

> *I have a report from a MS SQL Server 2014 user that this issue in not confirmed, can anyone else give it a try?*

Ever since I recreated all geometries in the database the problem never happened afterwards.

My theory is the geometries stored in the database had no SRID added to them, they all were SRID: 0.
When I recreated them I also validated invalid geometries and set the right SRID.

No problems so far.

#21 - 2017-03-01 05:10 AM - Giovanni Manghi
- Status changed from Feedback to Closed
- Resolution set to not reproducable

Andre Jesus wrote:

> *Giovanni Manghi wrote:*
>
> > *I have a report from a MS SQL Server 2014 user that this issue in not confirmed, can anyone else give it a try?*
>
> *Ever since I recreated all geometries in the database the problem never happened afterwards.*
>
> *My theory is the geometries stored in the database had no SRID added to them, they all were SRID: 0.*
> *When I recreated them I also validated invalid geometries and set the right SRID.*
>
> *No problems so far.*

Good! I'm closing this issue then.

Files

Imagem_855.png	270 KB	2016-05-05	Andre Jesus