

## QGIS Application - Bug report #15487

### "Create single-part geometries instead of multi-part" option broken

2016-08-24 11:48 PM - R. R.

<b>Status:</b>	Closed	
<b>Priority:</b>	Normal	
<b>Assignee:</b>	Sandro Santilli	
<b>Category:</b>	DB Manager	
<b>Affected QGIS version:</b>	2.16.1	<b>Regression?:</b> No
<b>Operating System:</b>		<b>Easy fix?:</b> No
<b>Pull Request or Patch supplied:</b>	No	<b>Resolution:</b> invalid
<b>Crashes QGIS or corrupts data:</b>	No	<b>Copied to github as #:</b> 23411
<b>Description</b>		
When importing multi-part geometries the "Create single-part geometries instead of multi-part" option throws an error:		
Error 7		
Feature write errors:		
Creation error for features from #0 to #0. Provider errors was:		
PostGIS error while adding features: FEHLER: Geometry type (MultiPolygon) does not match column type (Polygon)		

#### History

##### #1 - 2016-08-27 07:27 AM - Tudor Băráscu

I also just encountered this issue.

Steps to reproduce:

- Download natural earth countries data (

[http://www.naturalearthdata.com/http://www.naturalearthdata.com/download/10m/cultural/ne\\_10m\\_admin\\_0\\_countries.zip](http://www.naturalearthdata.com/http://www.naturalearthdata.com/download/10m/cultural/ne_10m_admin_0_countries.zip)

and try to import as simple features (as multipart it works)

If you try the sqlite file [http://naciscdn.org/naturalearth/packages/natural\\_earth\\_vector.sqlite.zip](http://naciscdn.org/naturalearth/packages/natural_earth_vector.sqlite.zip) it won't work for either options (create as simple or as multipart features)

- The error is the same

##### #2 - 2016-10-12 08:30 AM - Sandro Santilli

- Status changed from Open to Feedback

- Assignee set to Sandro Santilli

The shapefile contains record with multi-geometries, what would you expect from the "Create single-part geometries instead of multi-part" option ?

The option is passed to QgsVectorLayerImport which does not document the semantic of that option ("forceSinglePartGeometryType").

Also, why is this marked as Severe/Regression ?

##### #3 - 2016-10-12 09:26 AM - R. R.

As far as I remember former QGIS versions have converted the multipart geometries into singlepart geometries instead of throwing an error. I'll test this later.

#4 - 2016-10-12 11:46 AM - Sandro Santilli

Reinhard let me know what you find, and what does it mean to "convert a multipart into singlepart" (augmenting the number of records ? picking just the first component ?)

#5 - 2016-10-14 12:11 AM - R. R.

I must have been wrong, since QGIS 2.8.1 throws the same error. To me, 'Create single-part geometries instead of multi-part' in the DB-Manager should work in the same way as 'Multipart to singleparts' in the processing toolbox.

#6 - 2016-10-14 06:24 AM - Sandro Santilli

- Priority changed from Severe/Regression to Normal

How does "Multipart to singleparts" work, within processing ? (downgrading from Severe/Regression to Normal)

#7 - 2016-10-14 09:06 AM - R. R.

'Multipart to singleparts' converts a multipart feature with 'n' geometries to 'n' singlepart features.

#8 - 2016-10-15 12:52 AM - Sandro Santilli

I don't think "Create single-part geometries instead of multi-part" was ever meant to apply any conversion.  
The "Import vector to PostGIS" processing tool might be closer, having a "Promote to multipart" switch.  
Can you please try how that processing tools behave if you uncheck the "Promote to multipart" setting ?

#9 - 2017-01-02 07:20 AM - Giovanni Manghi

- Resolution set to invalid  
- Status changed from Feedback to Closed

Sandro Santilli wrote:

| I don't think "Create single-part geometries instead of multi-part" was ever meant to apply any conversion.

That is correct. The wording is somehow misleading, but the option work as expected:

- by default any vector is imported into a MULTI\* table even if the input layer has no multipart geometries
- if the input layer has no multipart geometries then this option allows to import it into a POINT/LINESTRING/POLYGON table (not MULTI\*)
- if the input layer has multipart geometries than the option cannot be used and will return the described error

Files

error_7.png	19.3 KB	2016-08-24	R. R.
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