

## QGIS Application - Bug report #20276

### Off-Line editing: attributes are shifted when using GPKG as off-line format

2018-10-30 04:56 PM - Randal Hale

<b>Status:</b> Closed	
<b>Priority:</b> High	
<b>Assignee:</b> David Signer	
<b>Category:</b> C++ plugins/Offline editing	
<b>Affected QGIS version:</b> 3.4.0	<b>Regression?:</b> No
<b>Operating System:</b>	<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> 28097
<b>Description</b>	
<b>New description:</b> On the checkout - If I use Geopackage I get a "shift" of attributes. I have included a screenshot named Pre-Checkout.png . When I check out the data the attributes move one column to the right. I included a screenshot for postcheckout.png. If you look at the two screenshots - all the attributes have moved columns.  #20276-2	
<b>Old description:</b>  I have a postgres database and the client is wanting to use the offline editing functionality. When I checkout a layer into a geopackage in 3.4 I noticed that there is a fid column added - but in adding the column it's shoving all the attribution over one column so the attribute no longer matches the column (for instance seg_side should contain either 'L' or 'R' and doesn't now).  If I take a layer offline into spatialite I'm having to manually fill out the primary key BUT the layer columns stay intact. Which manually filling out that is going to screw up the database on check-in.  I didn't try this in 3.2. I may try shortly if I get some time. So I have no idea if this is a regression or not.  I have attached a link to the original database in case something can be wrong there. It's a pd_dump and is 24mb so I've placed it in Dropbox: <a href="https://www.dropbox.com/s/67z5dn196497bev/hc911.backup?dl=0">https://www.dropbox.com/s/67z5dn196497bev/hc911.backup?dl=0</a> . It can be restored using <code>psql -d &lt;database&gt; -f hc911.backup</code>	
<b>Related issues:</b>	
Related to QGIS Application - Bug report # 20301: Off-Line editing should NOT...	<b>Open</b> <b>2018-10-31</b>

#### Associated revisions

##### Revision d173b70b - 2018-11-22 12:52 PM - David Signer

leave last attribute empty instead of first

because though fid appears to be the first field it's added in the end and has the last index.

fixes #20276

##### Revision 0f653179 - 2018-12-03 03:26 PM - David Signer

handle fid attribute in attrLookup on synchronization

and use column++ again on iteration through attributes on copyVectorLayer

fixes #20276 especially the not reported issue with synchronization

#### **Revision bec04c1e - 2018-12-11 08:55 AM - Matthias Kuhn**

Merge pull request #8600 from signedav/fix\_gpkg\_order

Offline editing to GPKG attribute order. Fixes #20276

#### **Revision 20ea3d6d - 2018-12-11 09:08 AM - David Signer**

leave last attribute empty instead of first

because though fid appears to be the first field it's added in the end and has the last index.

fixes #20276

(cherry-picked from d173b70b5335b93dbf049a3f40579fcb032dc8d6)

#### **Revision e1c4419b - 2018-12-11 09:08 AM - David Signer**

handle fid attribute in attrLookup on synchronization

and use column++ again on iteration through attributes on copyVectorLayer

fixes #20276 especially the not reported issue with synchronization

(cherry-picked from 0f653179ffcb73b5e9b4990592f759e4ea2d023f)

## **History**

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### **#1 - 2018-10-31 11:36 AM - Giovanni Manghi**

- *Regression? changed from No to Yes*
- *Subject changed from Check out with QGIS against a postgis database. to Off-Line editing should NOT ask to fill manually the PK field*
- *Status changed from Open to Feedback*
- *Priority changed from Normal to High*
- *Operating System deleted (Windows 10, Ubuntu 18.04)*
- *Crashes QGIS or corrupts data changed from Yes to No*

QGIS 2.18:

add a postgis layer

put it in off-line mode

edit it (add feature) > is NOT asked to fill (not mandatory) the field that represent the PK in postgres

synchronize it back > all OK (the new feature is given a proper value for the PK field)

QGIS 3.4:

add a postgis layer

put it in off-line mode (spatialite or geopackage)

edit it (add feature) > the field that represent the PK is marked as mandatory and the user must fill it manually to be able to synchronize back. This of course can cause errors.

To the original issuer: I don't understand your description when using GPKG as format (I didn't tested your data because is not just a table, but it wants to restore a number of other things, like pgrouting). Here in my test it does indeed add a new field "fid", but in off line mode this is set as "autogenerate" and it does disappear when synchronizing back (and all the other columns are just ok).

## #2 - 2018-10-31 12:43 PM - Randal Hale

- File PostCheckout.png added

- File pre-checkout.png added

I should have described that better and not put two issues in one ticket. I'm sorry about that.

On the checkout - If I use Geopackage I get a "shift" of attributes. I have included a screenshot named Pre-Checkout.png . When I check out the data the attributes move one column to the right. I included a screenshot for postcheckout.png. If you look at the two screenshots - all the attributes have moved columns.

I didn't know pgrouting was included - I will attempt to see if this happens without anything included except the extension postgis.

## #3 - 2018-10-31 06:04 PM - Giovanni Manghi

- Crashes QGIS or corrupts data changed from No to Yes

- Regression? changed from Yes to No

- Status changed from Feedback to Open

- Description updated

- Subject changed from Off-Line editing should NOT ask to fill manually the PK field to Off-Line editing: attributes are shifted when using GPKG as off-line format

Randal Hale wrote:

*I should have described that better and not put two issues in one ticket. I'm sorry about that.*

*On the checkout - If I use Geopackage I get a "shift" of attributes. I have included a screenshot named Pre-Checkout.png . When I check out the data the attributes move one column to the right. I included a screenshot for postcheckout.png. If you look at the two screenshots - all the attributes have moved columns.*

ouch, that does not look good at all. I overlooked this problem. We should definitely split the ticket.

## #4 - 2018-10-31 06:06 PM - Giovanni Manghi

*ouch, that does not look good at all. I overlooked this problem. We should definitely split the ticket.*

see also #20301

**#5 - 2018-11-01 08:38 AM - Jürgen Fischer**

- Related to Bug report #20301: Off-Line editing should NOT ask to fill manually the PK field added

**#6 - 2018-11-01 08:39 AM - Jürgen Fischer**

- Description updated

**#7 - 2018-11-01 01:56 PM - Randal Hale**

Also from Twitter this morning - #20040

**#8 - 2018-11-07 04:10 PM - Chad Howard**

Has there been any movement on this topic. I'm working with Randy Hale on this and my 911 project is in standstill until we resolve this issue. Real excited that we have built this server and putting ArcGIS to bed but if I can't work this problem of checking the database out I have to revert back to Arc?

**#9 - 2018-11-07 09:25 PM - Giovanni Manghi**

Chad Howard wrote:

*Has there been any movement on this topic. I'm working with Randy Hale on this and my 911 project is in standstill until we resolve this issue. Real excited that we have built this server and putting ArcGIS to bed but if I can't work this problem of checking the database out I have to revert back to Arc?*

this functionality seems to break at the worst possible moment also for me, said that if for you is a blocker then consider supporting the work necessary for the fix rather than waiting for the fix (as is not guaranteed it will be fixed soon).

**#10 - 2018-11-14 10:28 PM - David Signer**

- Assignee set to David Signer

**#11 - 2018-11-15 04:34 AM - Chad Howard**

Giovanni, I am an end user, not a programmer so I have no idea where to begin. Like I said I am new to GIS (last 3 years) and have only used ArcGIS and really love QGis and now that I've spent several thousand dollars to make a server i really don't want to go back to ArcGIS. I'm afraid I'm not going to be much help in this capacity. I may try this same thing tomorrow with the new Mac version of 3.4.1 and see if we get the same issue. Thanks for all you guys help Giovanni and David.

**#12 - 2018-12-11 08:55 AM - David Signer**

- Status changed from Open to Closed

- % Done changed from 0 to 100

Applied in changeset commit:qgis|d173b70b5335b93dbf049a3f40579fcb032dc8d6.

**Files**

PostCheckout.png	92.9 KB	2018-10-31	Randal Hale
pre-checkout.png	95.3 KB	2018-10-31	Randal Hale