

## QGIS Application - Bug report #20961

### QGIS Server 3.4 can't reset numeric field using WFS Update

2019-01-10 09:20 AM - Uroš Preložnik

<b>Status:</b> Closed	
<b>Priority:</b> High	
<b>Assignee:</b> Alessandro Pasotti	
<b>Category:</b> QGIS Server	
<b>Affected QGIS version:</b> 3.5(master)	<b>Regression?:</b> Yes
<b>Operating System:</b>	<b>Easy fix?:</b> No
<b>Pull Request or Patch applied:</b> Yes	<b>Resolution:</b>
<b>Crashes QGIS or corrupts data:</b> No	<b>Copied to github as #:</b> 28780

#### Description

When doing WFS update transaction on any numeric field QGIS Server rejects null value. That would make sense only if the field cannot have null value, but this happens always for numeric fields. In this example is PostGIS table and field is integer and can contain null values.

To reproduce this is really simple just try to reset any numeric field to NULL value using WFS Update transaction and it will be rejected.

It's a regression because it's working normally on 2.18.

It's the same using WFS 1.1.0 and 1.0.0

Transaction is correctly formed and QGIS Server result is below:

```
<WFS_TransactionResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" version="1.0.0"
xmlns="http://www.opengis.net/wfs" xsi:schemaLocation="http://www.opengis.net/wfs
http://schemas.opengis.net/wfs/1.0.0/wfs.xsd" xmlns:ogc="http://www.opengis.net/ogc">
<TransactionResult>
<Status>
<ERROR/>
</Status>
<Locator>Insert:polygons</Locator>
<Message>Property conversion error on layer insert 'polygons'</Message>
</TransactionResult>
</WFS_TransactionResponse>
```

#### Associated revisions

**Revision 71e01168 - 2019-01-23 10:45 PM - Alessandro Pasotti**

Server WFS NULL values support

- expose nullable in describefeaturetype
- serve xsi:nil="true" in getfeature
- check for NULL in transactions and report an error

Fixes #20961 - plus some other unreported

#### History

**#1 - 2019-01-10 09:49 AM - Alessandro Pasotti**

- Status changed from Open to Feedback

Please attach a minimal test project and data, it will speed-up debugging.

**#2 - 2019-01-10 11:21 AM - Uroš Preložnik**

- File *wfs test.qgs* added
- Status changed from Feedback to Open
- File *points.sql* added

Adding

- 1) QGIS project with WFS layers from test.level2.si server
- 2) points.sql data from PG (to see table structure, we are looking field name "type" with type integer, yes field name "type", not very original)

Steps to reproduce issue:

1. Open project
2. Edit point layer and reset value in field "type" to NULL for any feature.
3. Save changes and you will get Property Conversion error.

Another thing to note is that in database there are records with NULL value in "type" field, but QGIS shows them all as 0

**#3 - 2019-01-21 10:58 AM - Alessandro Pasotti**

- Assignee set to *Alessandro Pasotti*

**#4 - 2019-01-24 10:22 AM - Alessandro Pasotti**

- Status changed from Open to In Progress
- Pull Request or Patch supplied changed from No to Yes
- Affected QGIS version changed from 3.4.3 to 3.5(master)

This wasn't easy and I've fixed another bunch of issues along the way:

PR <https://github.com/qgis/QGIS/pull/8958>

**#5 - 2019-01-24 11:22 AM - Uroš Preložnik**

Thank you for this. I'll test it once it is merged and in nightly build.

**#6 - 2019-01-24 05:42 PM - Alessandro Pasotti**

- % Done changed from 0 to 100
- Status changed from In Progress to Closed

Applied in changeset commit:qgis|71e01168fe43a95002674baf07b3b9b4828b5a08.

## Files

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points.sql	8.96 KB	2019-01-10	Uroš Preložnik
wfs test.qgs	44.9 KB	2019-01-10	Uroš Preložnik