

## QGIS Application - Bug report #17258

### Custom CRS Definition dialog is unusable

2017-10-07 04:09 PM - Anita Graser

|   |              |                                     |
|---|--------------|-------------------------------------|
| <b>Status:</b>  | Closed       |                                     |
| <b>Priority:</b>  | Normal       |                                     |
| <b>Assignee:</b>  | Nyall Dawson |                                     |
| <b>Category:</b>  | GUI          |                                     |
| <b>Affected QGIS version:</b>   | master       | <b>Regression?:</b> Yes             |
| <b>Operating System:</b>  | Ubuntu       | <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> 25156 |
| <b>Description</b>  |              |                                     |
| <p>The Custom CRS Definition dialog is a mess. Most of the time, I cannot make it save the new CRS I'm trying to add. At the same time, existing entries are duplicated on opening &amp; closing the dialog.</p> <p>Tested using OSGeo4W.</p> |              |                                     |

#### Associated revisions

**Revision c8a62c5c - 2017-11-07 11:04 PM - Nyall Dawson**

Fix bad logic in custom projections dialog (fixes #17258)

#### History

**#1 - 2017-10-07 04:13 PM - Anita Graser**

We have so many places in the GUI where entries are added to a list that work much better (e.g. in rule-based renderers).

This dialog was never good but now it's completely broken.

**#2 - 2017-10-30 08:55 PM - Steven Mizuno**

Trying to better describe the problems...

After starting QGIS and loading a project this entry appears in the Custom Projections dialog \* Generated CRS ()

It has no parameters and will provoke the following error message when you click OK: "The proj4 definition of ' \* Generated CRS ()' is not valid." This prevents saving a newly created CRS or even just clicking OK to the dialog.

Another empty CRS is generated each time QGIS is started and a project is loaded, but within a QGIS session no further empty CRS is created (I believe the entry is being cached).

If this empty CRS is deleted using the [-] button you can exit the the dialog using OK. However, the existing entries are duplicated.

Also, when testing a CRS in the dialog the resulting coordinates don't make sense in some situations. I tried 45, -90 on a longlat CRS and got 0.7854, -1.5708. The result should be very near the input values. Using an ommerc projected CRS got Error result; a tmerc projection may be correct - I haven't fully tested, but the result seemed reasonable. Note that the problem testing a CRS also occurs in 2.18.14 - I just checked.

On further research I found in the code for the custom projections dialog that the input for testing must be degrees latitude/longitude and the result is in projected units shows. And if a longlat CRS is used the result is in radians. This isn't very clear as the labels are North/East left of the input boxes rather

than Lat/Long.

Further testing of trying to save a new CRS I find that this just does not work. I tried using the default name 'new CRS' and also changing this name to something else. The CRS shows in the list but is not saved.

But you can change an existing CRS (name, parameters) and it will be saved.

**#3 - 2017-11-07 10:57 PM - Nyal Dawson**

- *Assignee set to Nyal Dawson*

**#4 - 2017-11-07 11:27 PM - Nyal Dawson**

PR at <https://github.com/qgis/QGIS/pull/5559>

**#5 - 2017-11-13 08:46 AM - Nyal Dawson**

- *% Done changed from 0 to 100*

- *Status changed from Open to Closed*

Applied in changeset commit:qgis|c8a62c5c066d441f88e665f0801aab8c31322ff9.