



Taurus Status Report

TΔNG,  2020 November status update meeting

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What changed since we last met?

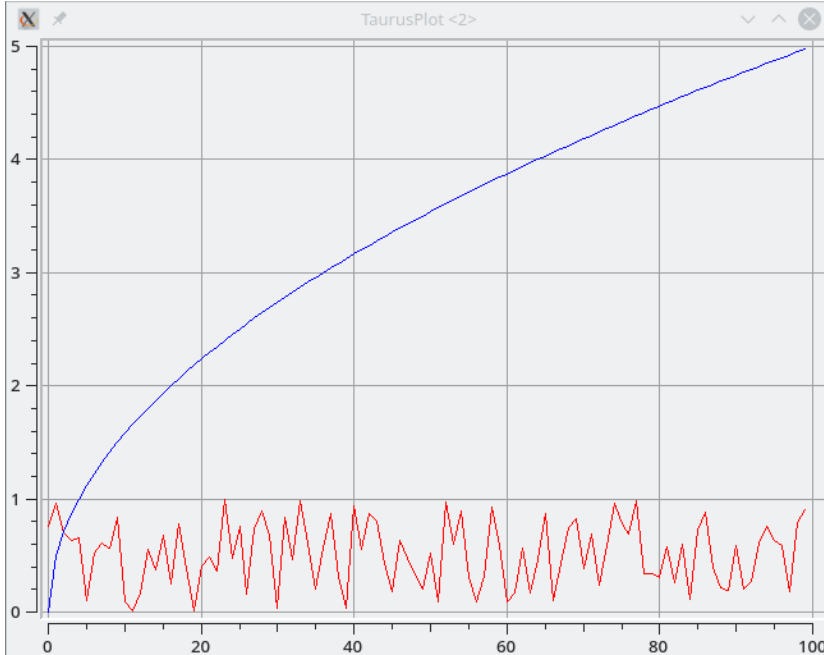
- We shook hands at coffee break → **we drink our own coffee**
- New features and bug fixing
 - Taurus v4.6 → **v4.7** (*~40 PR merged*)
 - taurus_pyqtgraph v0.2.5 → **v0.4.10** (*~20 PR merged*)
- Move forward with dependencies:
 - python2 → **python3**
 - PyQt4 → **PyQt5**
 - unittest → **pytest**

Bye-bye Python2 and PyQt4

- Taurus 4.7 uses **python3 + PyQt5** by default
 - Python2 **still supported**, but **not in the next release**
 - PyQt4 **still supported**, but **not in the next release**
- “**taurus 5**”? (a frozen 4.x support branch will be created)
- TaurusPlot & TaurusTrend now provided by **taurus_pyqtgraph**

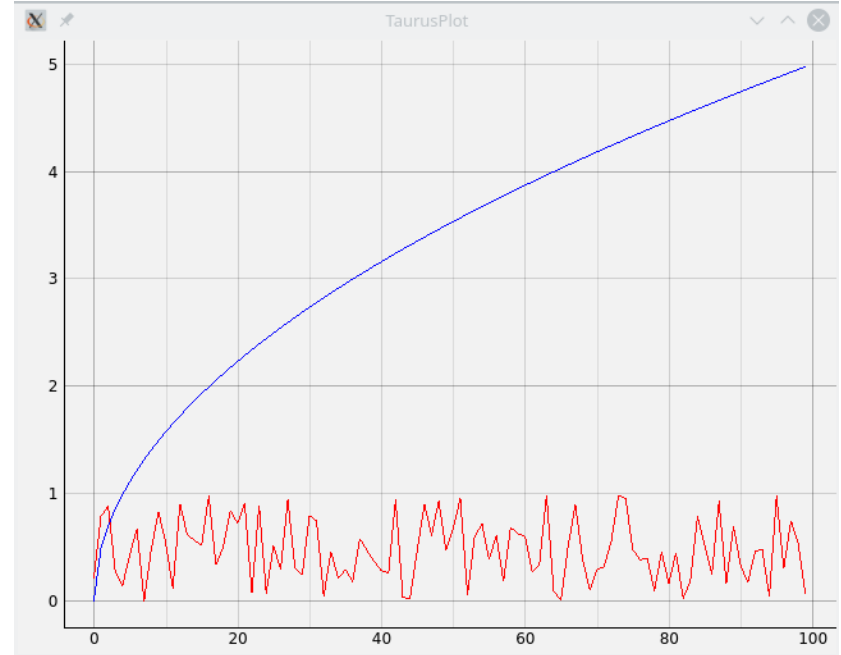
Hello taurus_pyqtgraph

```
$ taurus plot --demo --use-alt qwt5
```



OLD: based on **PyQwt5**
python2 & PyQt4 only

```
$ taurus plot --demo
```



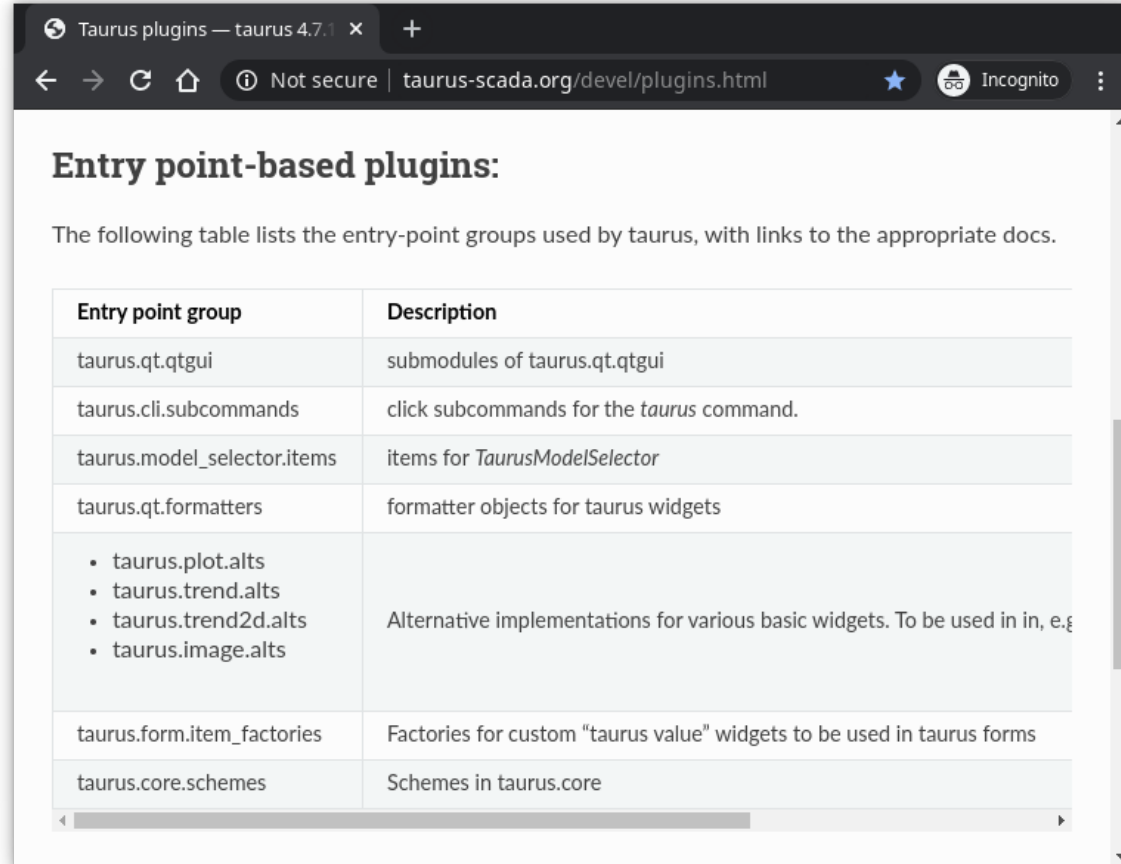
NEW: based on **pyqtgraph**
python & Qt version agnostic

~~Winter~~ Plugins are coming

TEP13: plugins support

- promised *since 2015*
- finally here
- based on setuptools EP
- more entry-points coming

<http://www.taurus-scada.org/tep?TEP13.md>



Taurus plugins — taurus 4.7.1

Not secure | taurus-scada.org/devel/plugins.html

Entry point-based plugins:

The following table lists the entry-point groups used by taurus, with links to the appropriate docs.

Entry point group	Description
taurus.qt.qtgui	submodules of taurus.qt.qtgui
taurus.cli.subcommands	click subcommands for the <i>taurus</i> command.
taurus.model_selector.items	items for <i>TaurusModelSelector</i>
taurus.qt.formatters	formatter objects for taurus widgets
<ul style="list-style-type: none">• taurus.plot.alts• taurus.trend.alts• taurus.trend2d.alts• taurus.image.alts	Alternative implementations for various basic widgets. To be used in in, e.g
taurus.form.item_factories	Factories for custom "taurus value" widgets to be used in taurus forms
taurus.core.schemes	Schemes in taurus.core

New CLI

taurusform → taurus form

taurusplot → taurus plot

taurusimage → taurus image

(etc)

Taurus plugins can register new sub-commands with:

```
setup.py x
from setuptools import setup

setup(
    entry_points={
        "taurus.cli.subcommands": ["foo = my_mod:foo"]
    }
)
```

```
↳$ taurus --help
Usage: taurus [OPTIONS] COMMAND [ARGS]...

The main taurus command

Options:
  --log-level [Critical|Error|Warning|Info|Debug|Trace]
                                          Show only logs with priority LEVEL or above
                                          [default: Info]

  --polling-period MILLISEC              Change the Default Taurus polling period
  --serialization-mode [Serial|Concurrent|TangoSerial]
                                          Set the default Taurus serialization mode
                                          for those models that do not explicitly
                                          define it)

  --default-formatter FORMATTER          Override the default formatter (use with
                                          caution!)

  --rconsole PORT                        Enable remote debugging with rfoo on the
                                          given PORT

  --version                               Show the version and exit.
  --help                                  Show this message and exit.

Commands:
  check-deps  Shows the taurus dependencies and checks if they are available
  config      Open the taurus configuration editor
  demo        A demo application for taurus
  designer    Launch a Taurus-customized Qt Designer application
  device      Show a Device Panel
  form        Shows a Taurus form populated with the given model names
  gui         Launch a TaurusGUI using the given CONF
  guiqwt     [DEPRECATED] use "taurus image" or "taurus trend2d" instead
  icons      Show the Taurus icon catalog
  image       image
  logmon      Show the console-based Taurus Remote Log Monitor
  newgui      Create a new TaurusGui
  panel       Show a TaurusPanel (a Taurus application inspired in Jive and...)
  plot        Shows a plot for the given models
  qlogmon     Show the Taurus Remote Log Monitor
  testsuite   Launch the main test suite for Taurus'
  tpg         [DEPRECATED] use "taurus plot" or "taurus trend" instead
  trend       Shows a trend for the given models
  trend2d     trend2d
```

Packaging CI

PyPI

- Auto-built with *Github Actions*
- Auto-deployed to PyPI

```
$ pip install taurus
```

Debian (official repos)

- Semi-auto-built with *Salsa-CI*
- Manually deployed to debian repos

```
$ apt install taurus
```

CONDA

- Auto-built with *Github Actions*
- Auto-deployed to anaconda cloud

```
$ conda install -c conda-forge \  
                -c taurus-org taurus
```

Debian (internal ALBA repos)

- Auto-built with internal *gitlab-ci*
- Auto-deployed to ALBA repos

```
# TODO:  
# deploy to universally-accessible repo
```

Help is needed (...really)

https://github.com/taurus-org/taurus/issues/1140

cpascual commented on Aug 7 • edited

This is a quite special bug report. It is about a community issue

IMHO, we should seriously re-think the organization of the Taurus development, and specially the core members (@taurus-org/integrators). Currently the taurus management (integration, planning, steering,...) is *de-facto* concentrated almost exclusively on a single institute (ALBA)... and mostly a single person (me). This is neither healthy for the Taurus Project nor for me.

I assume the responsibility for this situation because at some point, 2-3 years ago, I perceived that the Taurus community had gotten enough momentum to be self-sustained, and therefore I neglected some community grooming to devote more time to other pressing

