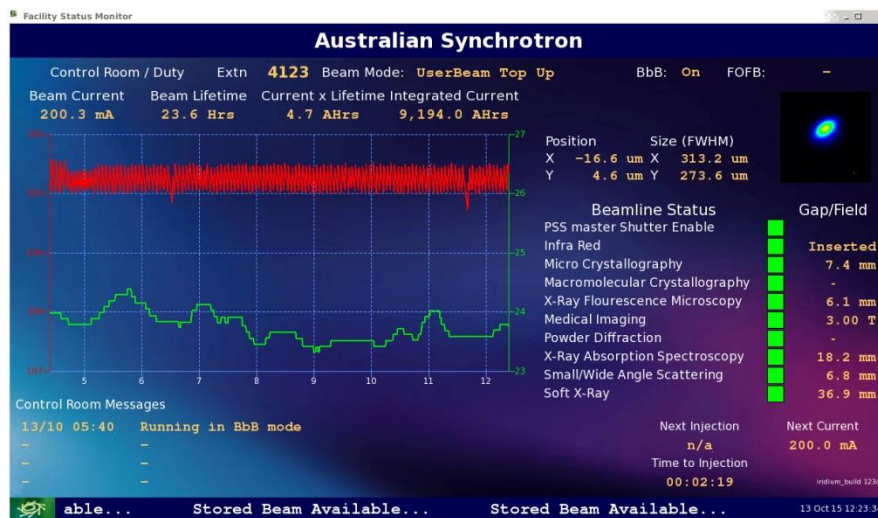# User focused applications with epicsQt

Andrew Rhyder

Andrew Starritt

PRESENTATION SUMMARY

- Qt and epicsQt overview
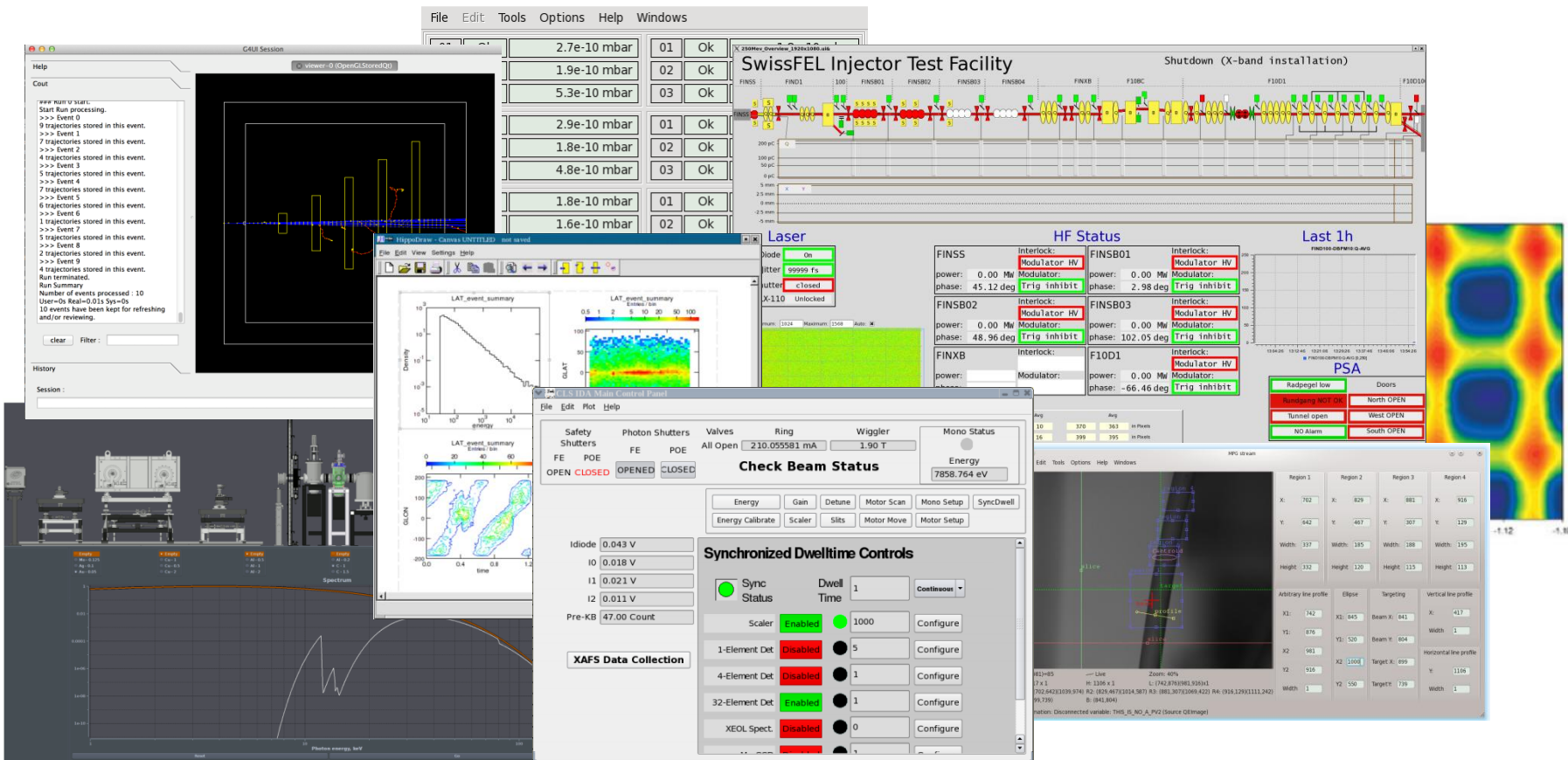
- User focused GUI applications

- Wish list

Qt OVERVIEW

- Qt is a cross-platform application and UI framework for developers using C++.

- It can be used under an open source licence.

- Qt has had a 20 year track record of ongoing development and expanding use.
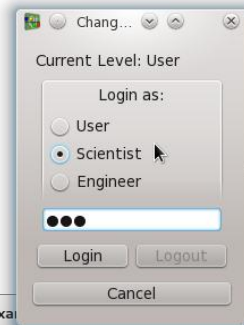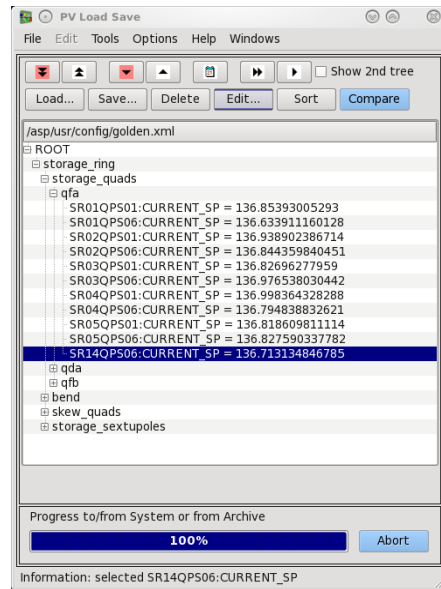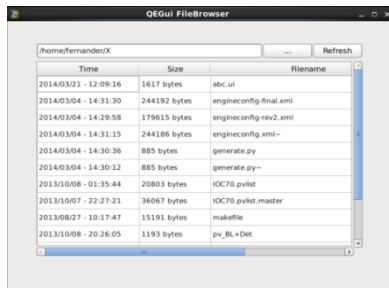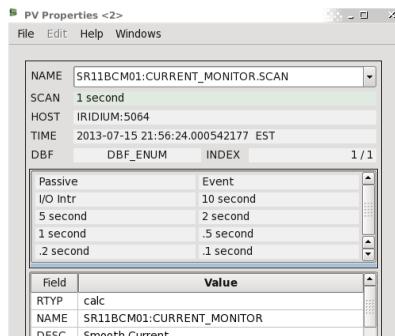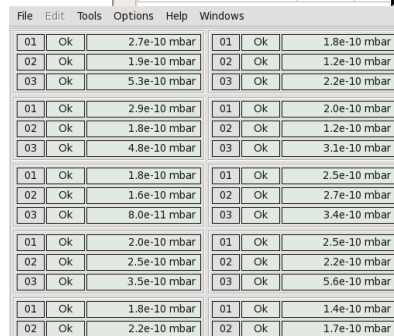
Qt OVERVIEW

epicsQt OVERVIEW

Widgets – 51 of them

- 7 simple monitors

- 13 Controls

- 6 Graphical

- **18 Application support widgets**

epicsQt OVERVIEW
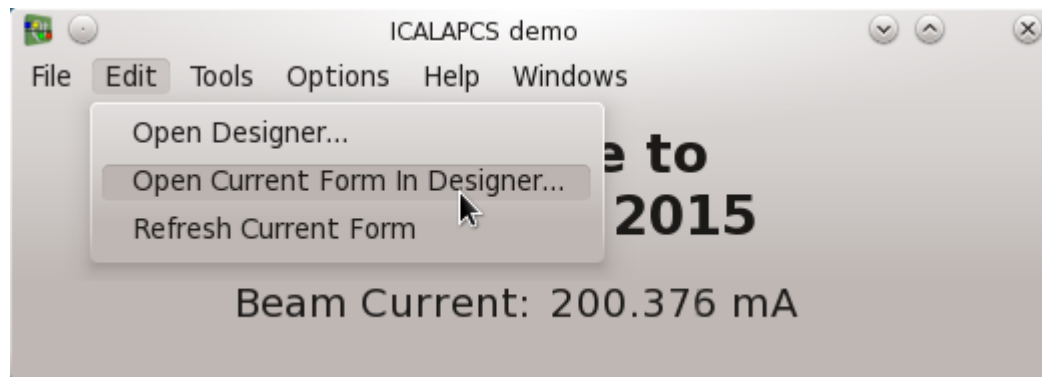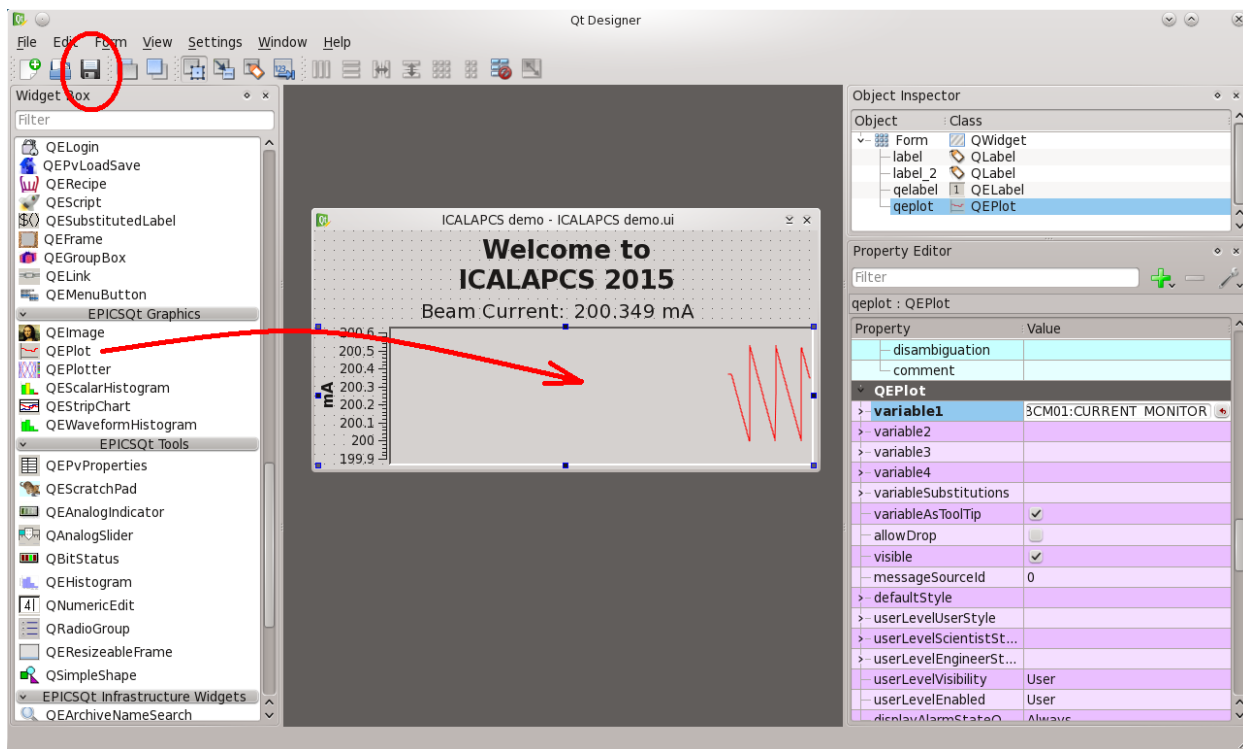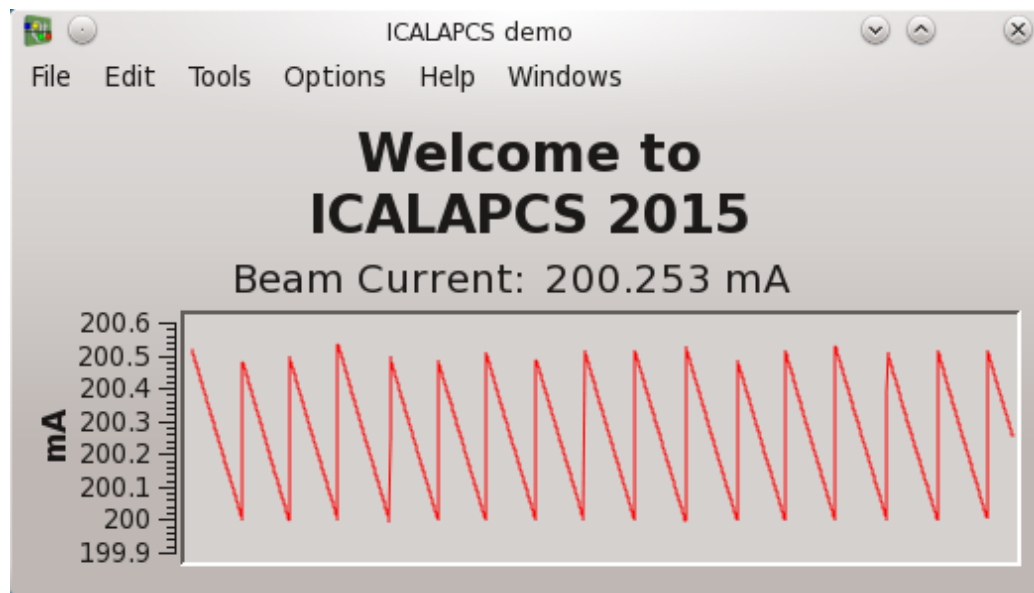
Modes of use - Codeless
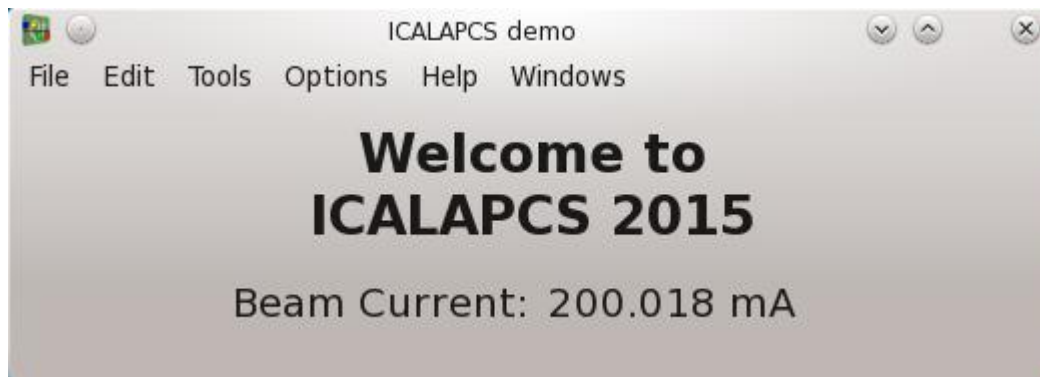
Modes of use - Codeless
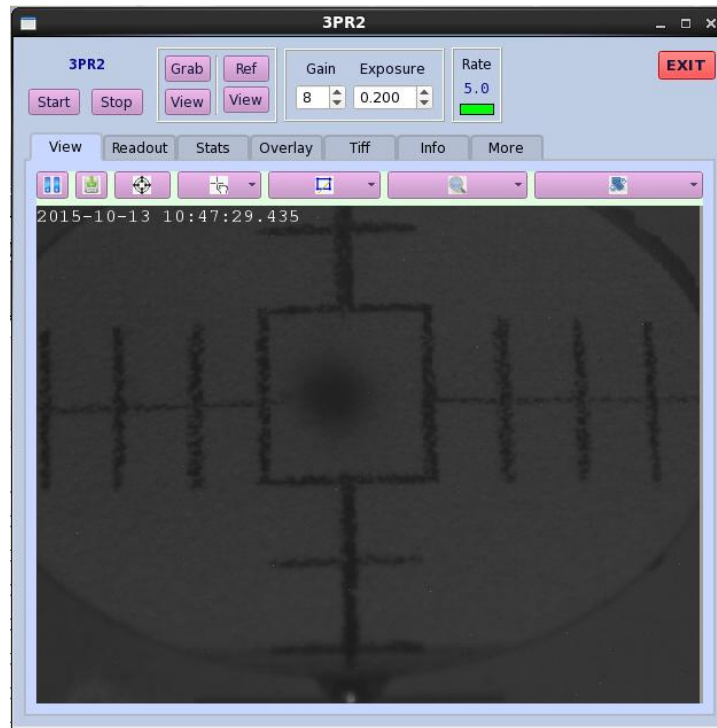
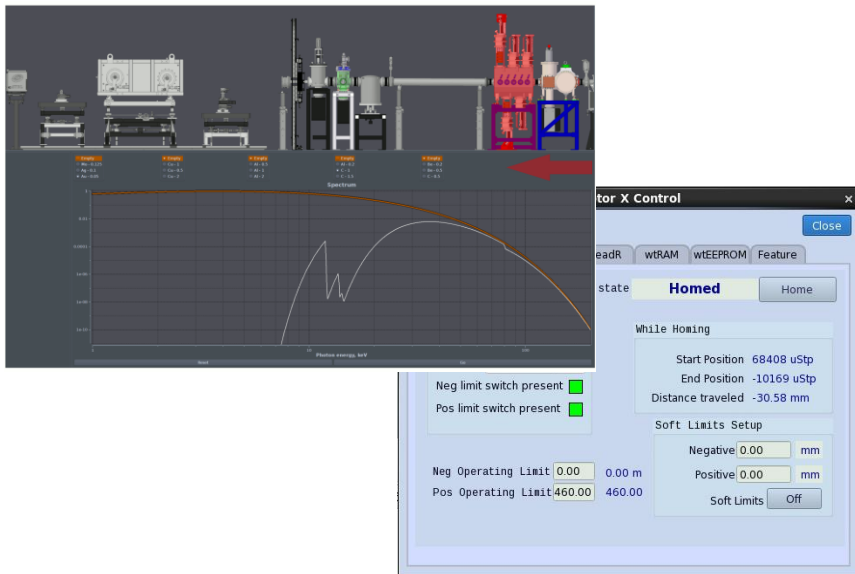# epicsQt OVERVIEW
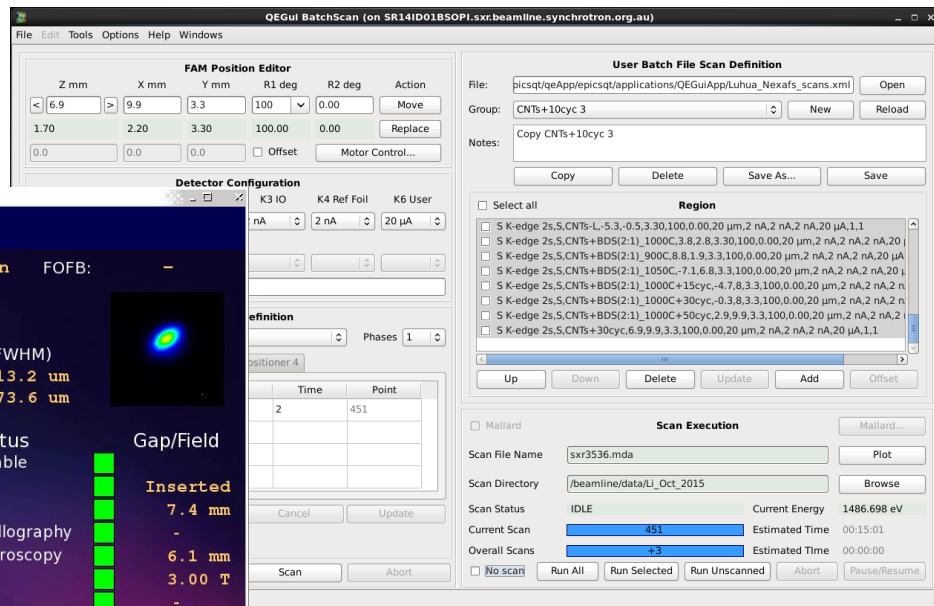
Modes of use - Codeless

Modes of use - Codeless

epicsQt OVERVIEW

Modes of use - Produce your own application

Modes of use –
Produce your own widgets
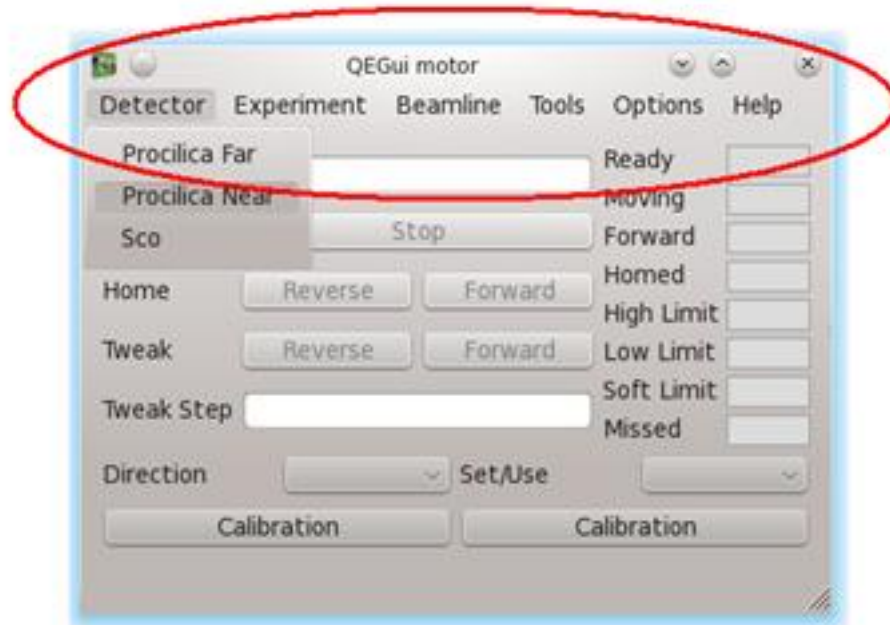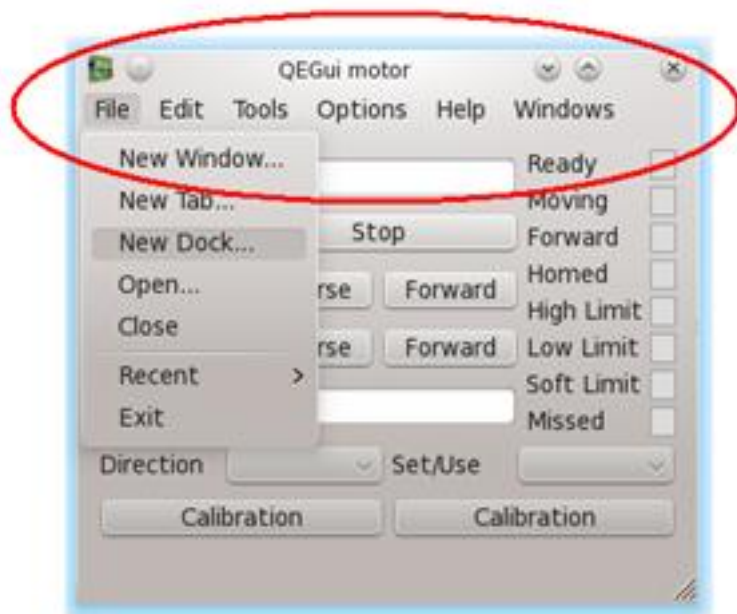
OVERVIEW - epicsQt
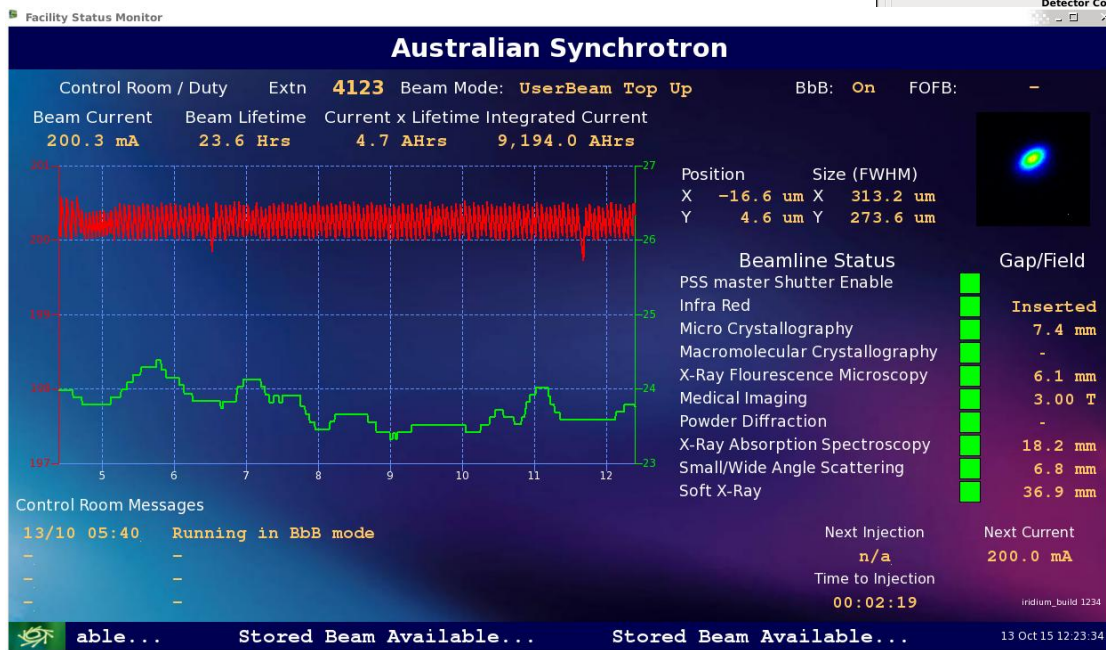
Application support

- Menu customisation

- Save/restore

- Tool tips

- Copy/Paste

- Context menus

- Launching windows and docks

- Data sources

- Integrated logging

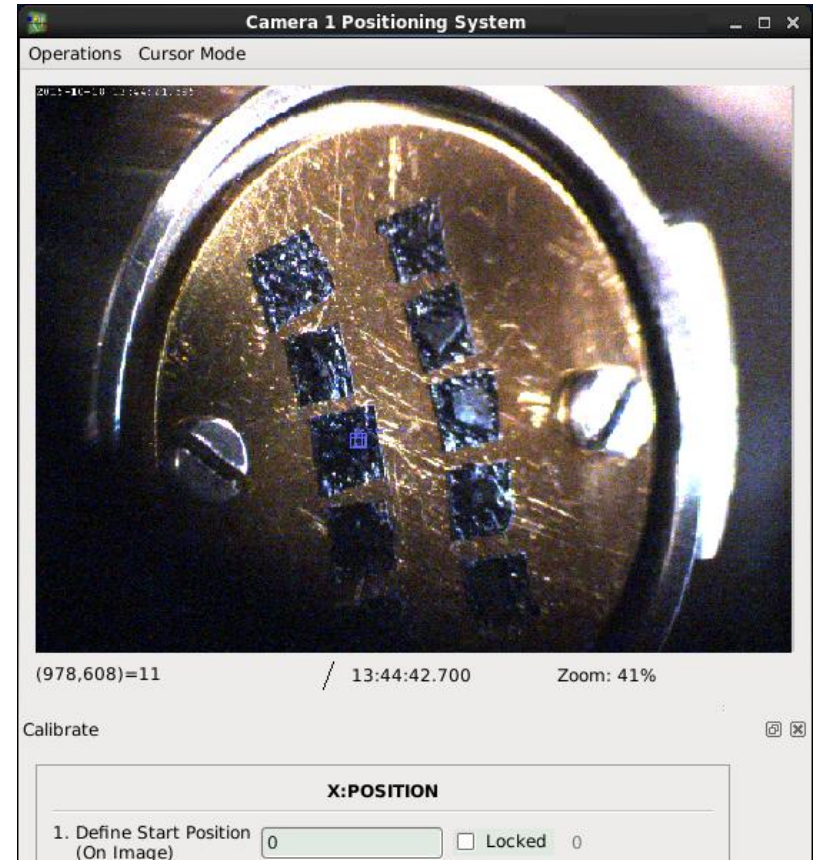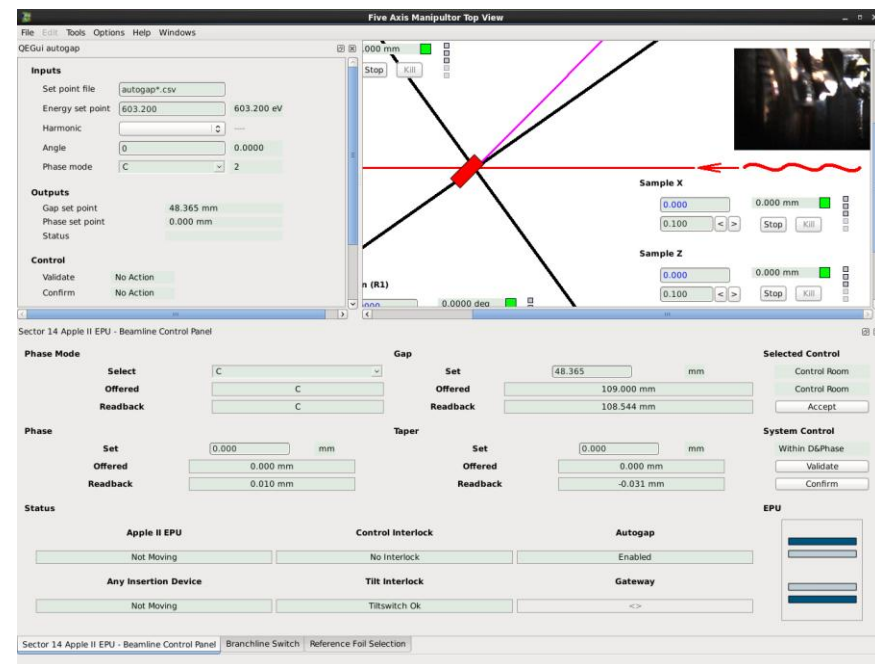- Application support widgets

Custom menu bars

Custom menu bars

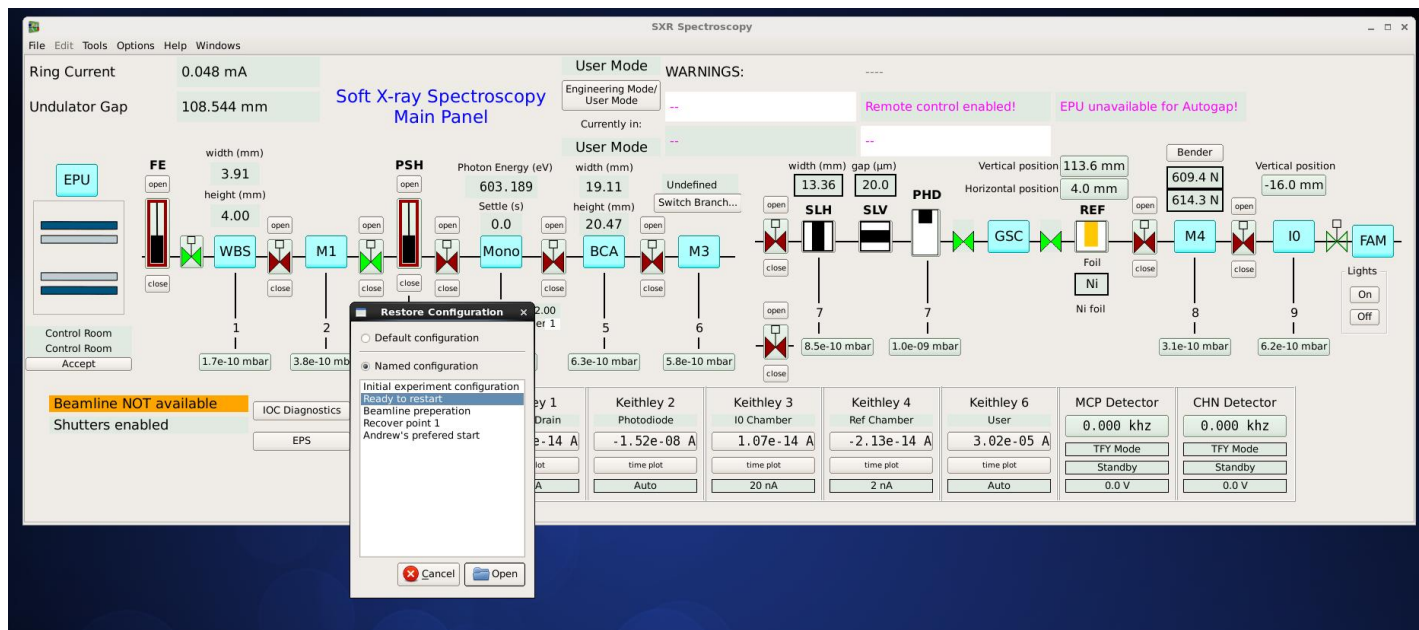**Windowing system integration**
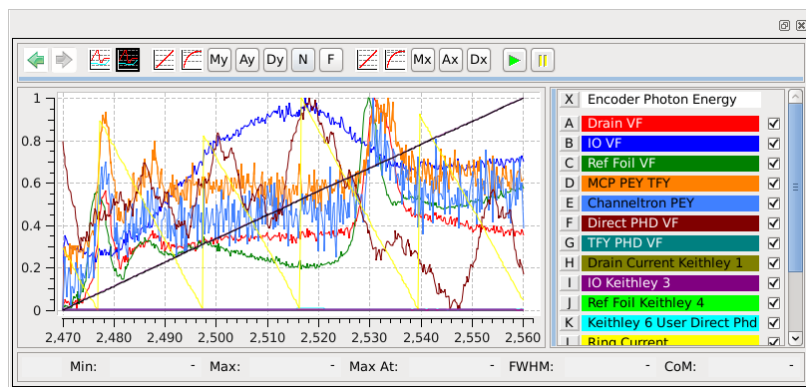
Configuration manager

- Save / restore

USER FOCUS

User levels

- Simplification – the right information in front of the right person
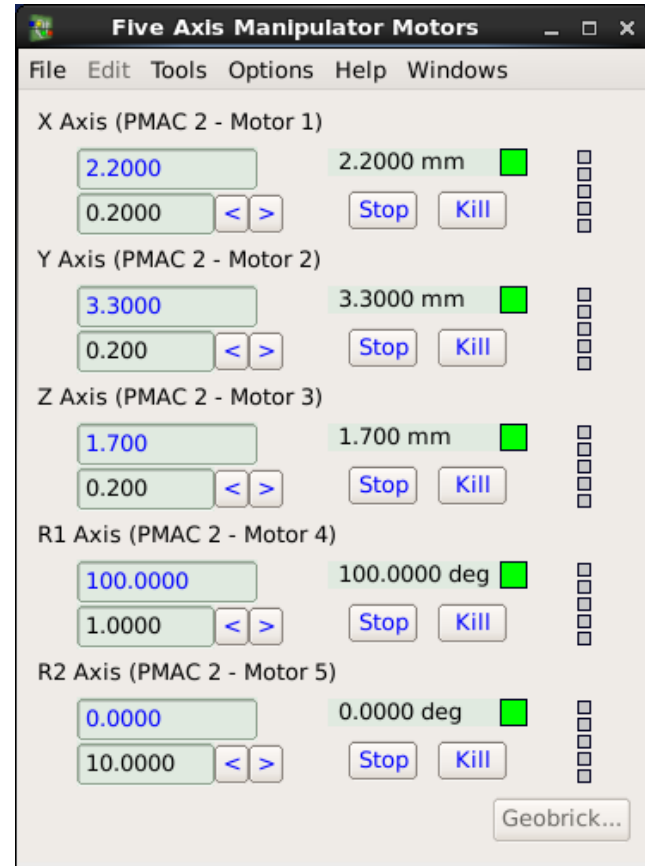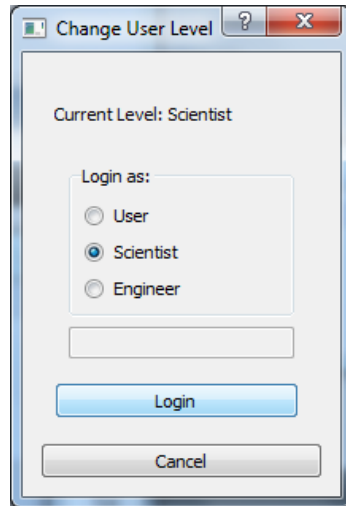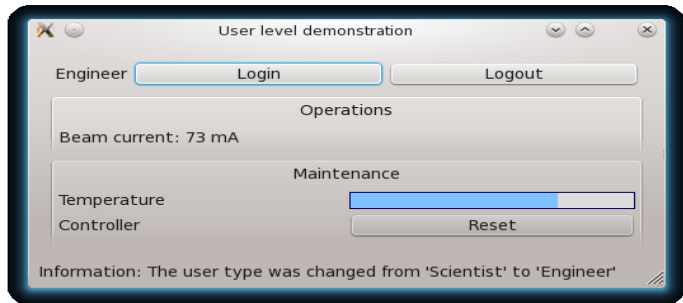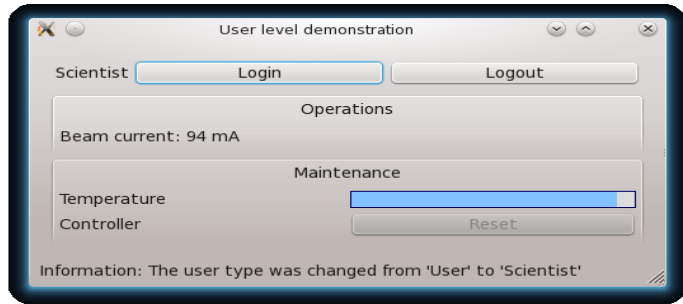
USER FOCUS

User levels

- Simplification – the right information in front of the right person
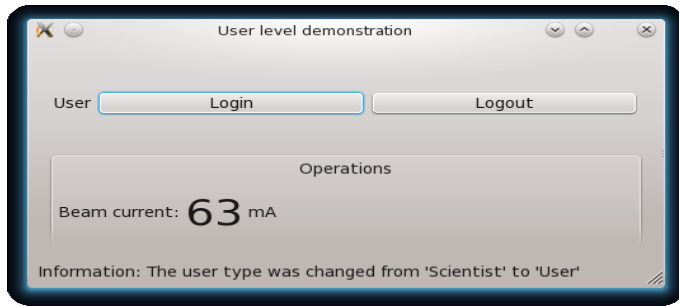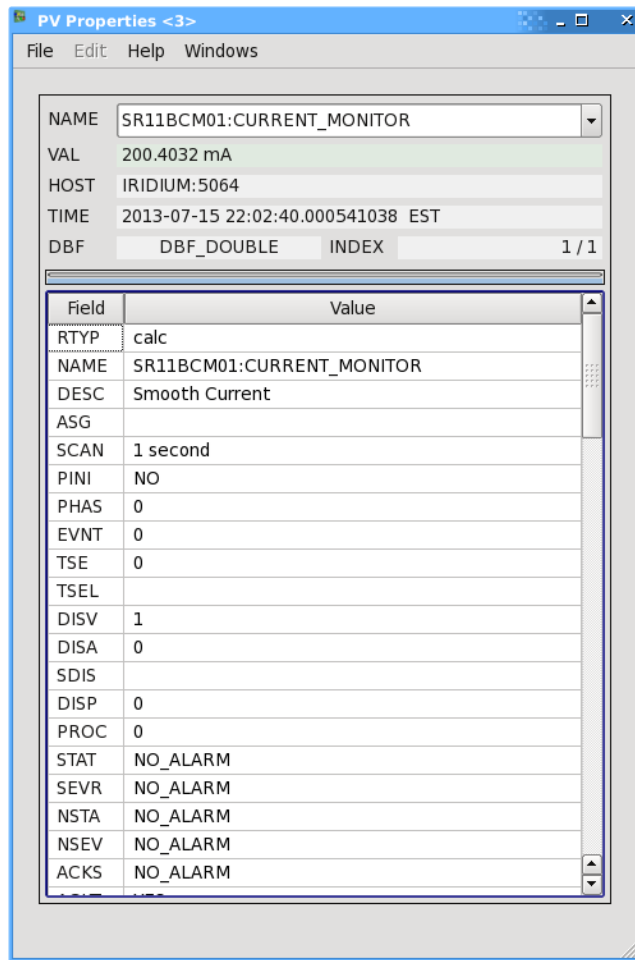
User Tools

- Built in, but also available as widgets for developers to use.

- Simplifies producing a comprehensive system for the user.

  - PV properties
  - Scratch pad
  - Strip chart and plotter
  - Message log
  - PV load save
  - Archiver status - Currently only talks to 'standard' CA archiver (Andy for version details)
  - Archiver name search

USER FOCUS

User Tools - PV Properties

User Tools - Stripchart and Plotter

Tools - Scratch pad

User Tools - Message log

USER FOCUS
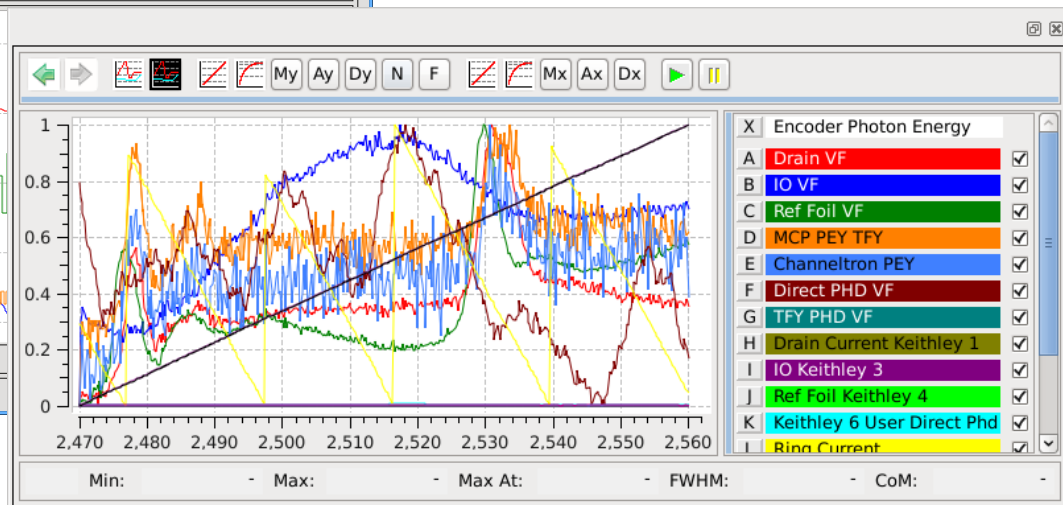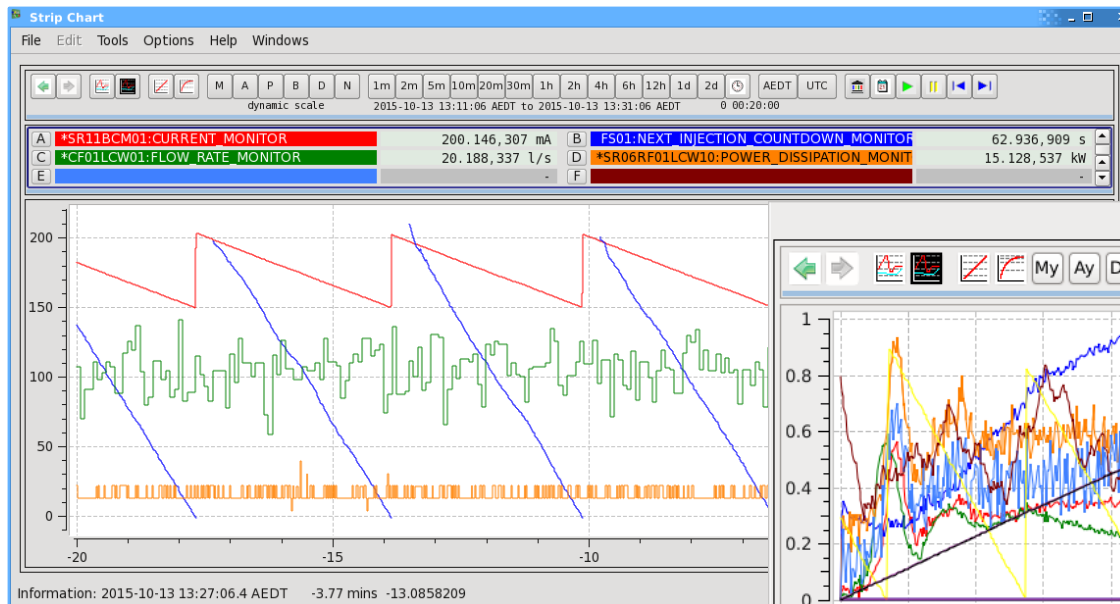
User Tools - PV load / save

USER FOCUS

User Tools - Archiver status and name search

Archiver Name Search
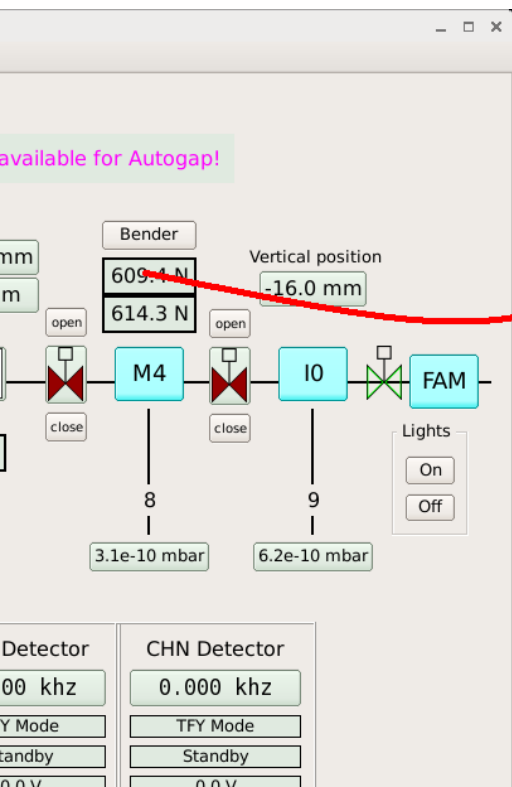
File   Edit   Tools   Options   Help   Windows

field raid

BS_RF_LLRF:FIELD_FLAT_MONITOR
CR01ARC01:RAID_01_STATUS
CR01FS01:RAID_01_STATUS
CR0?D01:BL_FIELD_REF_REQUEST_ALIAS
001:BL_FIELD_REF_REQUEST_VALIDATION
001:CR_FIELD_REF_REQUEST
001:CR_FIELD_REF_REQUEST_ALIAS
001:CR_FIELD_REF_REQUEST_VALIDATION
001:SELECTED_FIELD_REF
CW01:FIELD_ARG_CALC
SR08SCW01:FIELD_MONITOR
SR08SCW01:FIELD_RAMPING_STATUS
SR08SCW01:FIELD_RATE_MONITOR
SR08SCW01:FIELD_REF_SP
SR08SCW01:FIELD_REQUEST_CMD
SR08SCW01:FIELD_SET_MONITOR
SR08SCW01:FIELD_SP
SR08SCW01:SNC_FIELD_DEBUG

Information: There are 18 matching names

Archive Status Summary

Host:Port	End Point	Status	Available	Read	Num PVs
cr01arc01:80	/cgi-bin/ArchiveDataServer.cgi	Unknown	0	0	0
cr01arc02:80	/cgi-bin/ArchiveDataServer.cgi	Unknown	0	0	0
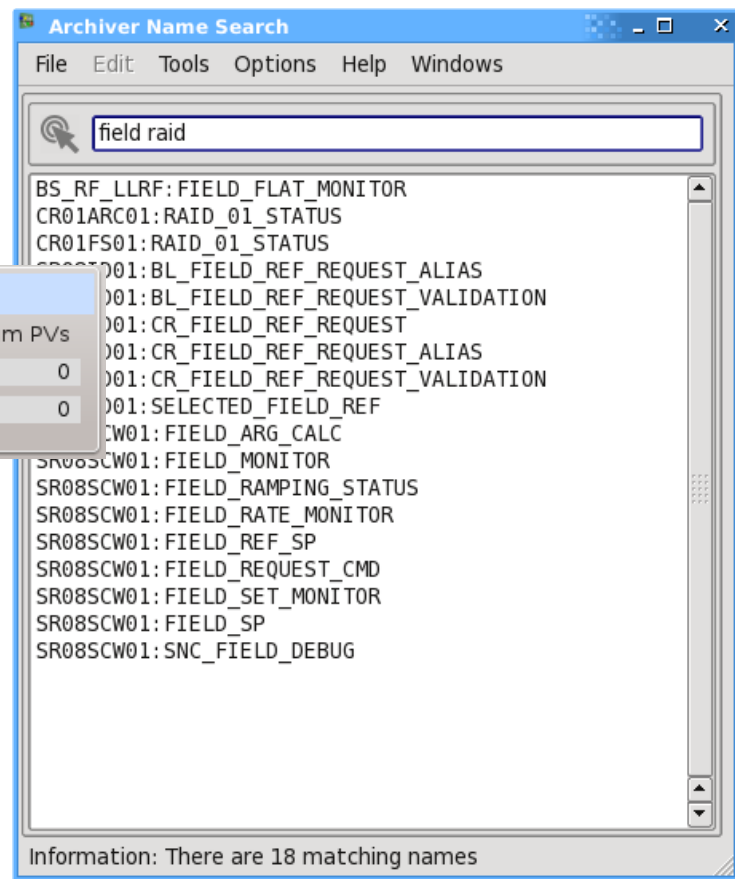
WISH LIST

- Python wrappers

- Stronger integration with caQtDM

- Collaboration

http://sourceforge.net/projects/epicsqt/

Questions?