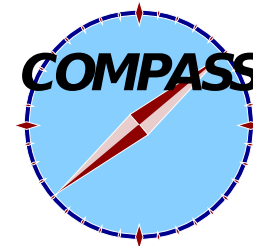


COMPASS DCS

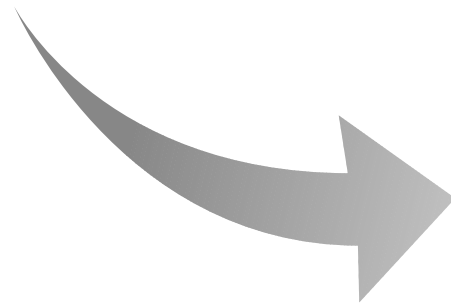
Trending



Trending: Custom Plots

From last minutes

“ a general note that the trending configuration should be easy to use for non-WinCC OA users; ie. trending should show devices (LOGICAL view, or FSM) and not only the datapoint tree”



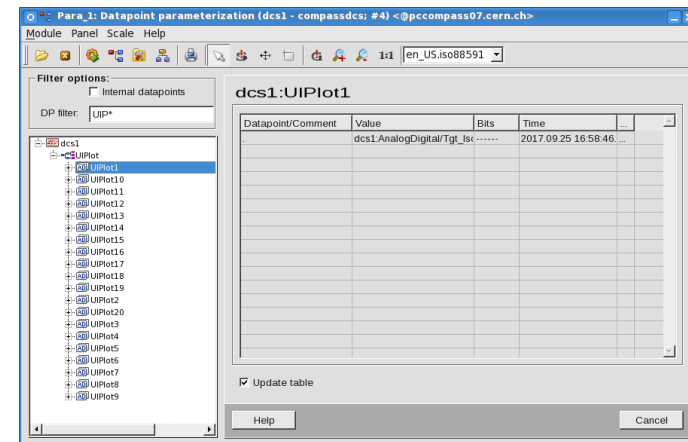
Custom Plots

Trending: Custom Plots

Demo

Trending: Custom Plots

- A datapoint to hold the currently selected devices
 - One per UI
 - Created/Cleared at start
 - One function to add/check the selected devices
- UI object
 - RightMousePressed event
 - PopupMenu()



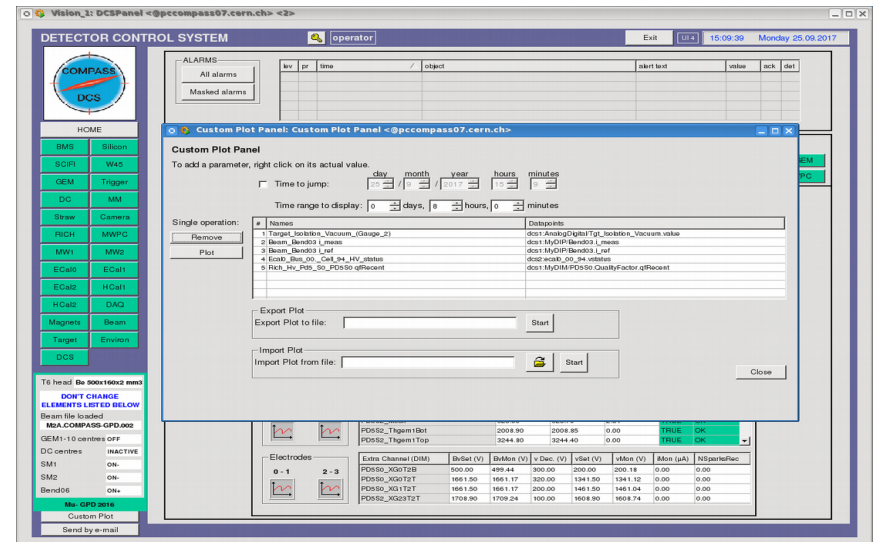
```

1 main() {
2
3   int answer, result;
4   dyn_string txt = makeDynString("PUSH_BUTTON, Add to custom Plot,2,1");
5
6   txt = makeDynString("PUSH_BUTTON, Add to custom Plot,2,1");
7
8   int result = popupMenu(txt, answer);
9
10  if(result != -1) {
11    switch(answer){
12      case 2:
13        addToDpUIPlot($sDpName);
14        break;
15      default: break;
16    }
17  }
18 }

```

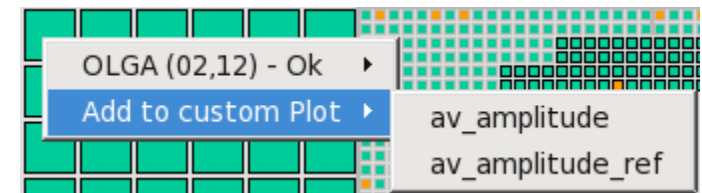
Trending: Custom Plots

- Custom Plot button
 - Popup panel
 - selected devices
 - Starting time
 - Time range
 - Export/Import to/from file
- Plot – like fwTrendingQuickPlotButton.pnl
 - dpGet UIPlot datapoint
 - fwTrending/fwTrendingZoomedWindow.pnl
 - \$sDpName dollar parameter



Trending: Custom Plots

- RightMousePressed event
 - Generic function?
 - For common DPTs
 - Event might be already used for another purpose
 - Replace by DragDrop event?
 - How to handle secondary/non visible parameters?
- Use fwTrendingPlotConfPanel.pnl instead of custom popup panel?
 - Save as FwTrendingPlot

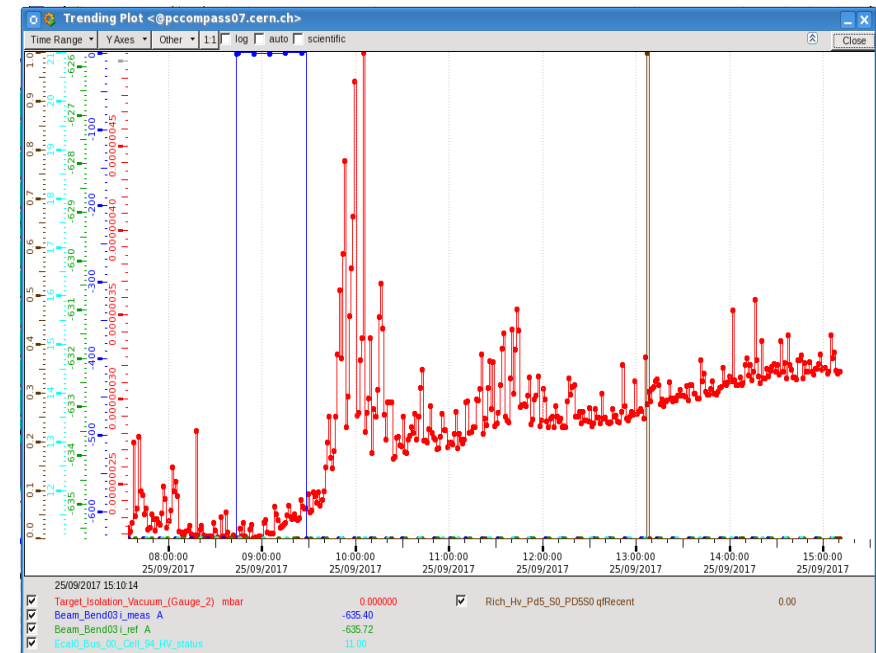


Extra

Trending: Scientific notation

Trending: Scientific notation

- Linear scale
 - Regular decimals notation
 - Hard/Impossible to read small/big values
 - Curve value
 - Legend value
 - YY axis scale
- Logarithmic scale
 - Unreadable YY axis scales when the value doesn't change much



Trending: Scientific notation

- Scientific notation
 - New checkbox, when active
 - YY axis scale updated
 - Value curve updated
 - TextChanged event
- TextChanged event
 - Called two times per new reading
 - Flickering if the parameter changes too often
 - Dirty/Not optimal

