

# OrbitDisplay To-Do

Orbit Display Release was 7/16/2008

## Accomplishments:

- \* All contributing java projects are released individually at the phase 0 + level
- \* Orbit Display Application, comprised of multiple packages is ~2/3 of what SCP currently does
- \* Release procedures in place and documented \$PHYSICS\_TOP/README
- \* Since projects are released separately, the new releases are picked up at loadtime. We should consider tagging the set of projects which contribute to a working application at least on a weekly basis (if any are modified) so that we can always roll back to a previous working set of releases.

## To Do (SCORE - Monday, July 21 - Debbie)

- \* Debbie get re-packaged slac SCORE into control room
- Add "Gun to TD11" and "TD11 to BSY" regions to replace Injector and 21-BSY regions, respectively, in order to reconfigure the magnets to physicists liking.
- \* Remove Injector and 21-BSY regions from being included in Save the World, as they are "archival"
- \* Add BSA-All region to support Orbit Display. Spreadsheet blessed by Emma
- \* Test extensively

## GUI To Do (Sergei mostly)

- \* Code Review of slac packages used in Orbit Display
- \* ~~Resize app when it launches to about the size of lslhome~~
- \* ~~Be able to drag vertical bar to eliminate any side view~~
- \* ~~Show a bit of the "hidden" global control panel on right~~
- \* ~~Sync x, y, tmit plots when zooming out~~
- \* ~~Z uses madName (only choice now is meters) across bottom axis~~
- \* Show area :Use Oracle area definitions (not score areas); show unit number labels sideways; have vertical bars along axis delimiting areas with area labels. ( have BSADevelopments return area and unit #) Z axis options - madname / area # 1!!!!!! - Sergei (Debbie to provide unit# and area - markers, etc)
- \* TMIT needs nC (get the constant with which to multiply Nel/1E09); keep in N3/1E09 for score/matlab. - Sergei
- \* Show Dispersion above a certain threshold - place a red box at top of vertical reading when above threshold. - Sergei

- \* Get etaX and Y from model - Debbie
- \* Show magnets - show indicator of magnet health status via color identical w EDM - get PV. Tool tip - what magnet and what the STATMSG is. When saving to score, need the magnet status too. - Sergei
- \* ~~tool tip - widen by 1 pixel~~
- \* Show Obstructions (Ask Stephen/Stephen for list - query MPS RDB; see Collaborations) -Debbie for now
- \* If axis is frozen and a device reading is off the range of the frozen display, show its value above its reading's vertical line. (if eta x threshold exceeded, place red box around value?)
- \* ~~Right click menu to include ability to type in Y axis range (such as -1.5, 1.5 mm) to manually enter range.~~
- \* ~~Need configurable background colors, axes color~~

## Other To Do

- \* Figure out message window. Use filtered cmlog view, create different package..., how to write to this window.... - Sergei
- \* Fix timestamp calcs using pulse id . Currently 1 sec is subtracted from timestamp retrieved from first getValues() for the 2800 deep buffer. For pulseid, check on using msec since 1990 - what is RTEMS v Red Hat time stored in? - Mike
- \* Buffered Acq / Histogram - See Jim Turner for requirements. (buckets/fit to Gaussian..) -Mike
- \* Diane Implement Orbit Fitting
- \* Debbie Implement BSA as monitors in background. Change getValues, getLatestValue to return from the monitored values in ram.
- \* Debbie Implement client edefs
- \* Debbie integrate logbook saves into physics-elog instead of TESTelog

## Collaborations

- \* Ask about use cases for client edefs in context of Orbit Display - Debbie
- \* Ask Stephen/Stephen for list of obstructions. - Debbie
- \* Figure out message display windows for all apps. - Sergei

## Releasing

- \* Add feature, then release often to keep physicists happy so that they use it. (good PR)
- \* Always tag at the java project level - not the file level
- \* Email release notes to controls-sw-release
- \* Put release into physics-elog too for physicists, with screen shots if GUI changes
- \* Follow \$PHYSICS\_TOP/README
- \* Tag weekly or upon app milestone for roll-back purposes