



Phoebus Workshop Summary

Pierrick Hanlet, Susanne Regnell

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A Partnership of:

US/DOE

India/DAE

Italy/INFN

UK/UKRI-STFC

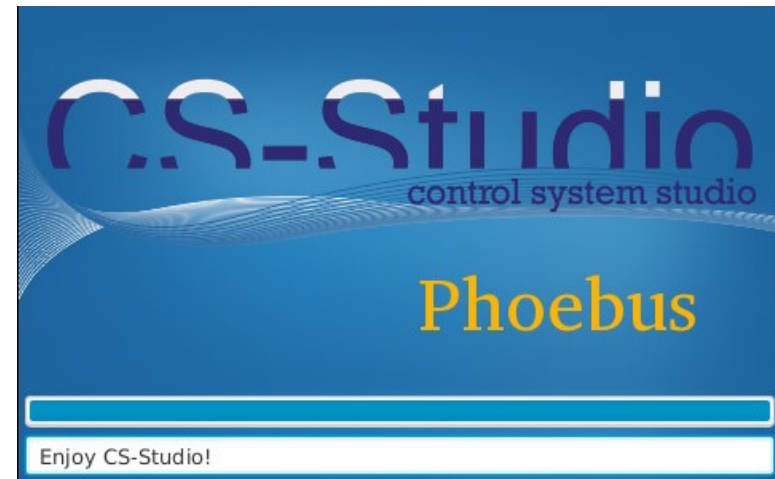
France/CEA, CNRS/IN2P3

Poland/WUST



Introduction

- PIP-II is using EPICS as its control system framework
- ACORN is evaluating EPICS, or components of EPICS, as a candidate for its work
- EPICS is a software framework with a full suite of tools for development of the most common aspects of control systems (front ends to back ends)
- EPICS is also an international community of users and developers
- Phoebus is presently used at PIP2IT as the user interface to the control system
- Phoebus user interface allows for integration of:
 - Code-less GUI/HMI development with drag-and-drop widgets – Display Builder
 - Alarms
 - Archiver
 - Strip Tool
 - Channel Finder
 - Electronic logbook (Olog)
 - Save & Restore
 - Writing/invoking embedded java and/or jython scripts or use the Rules function that will generate scripts
 - Invoking external scripts



Neither Susanne nor I had the chance to demonstrate most of these features – need full training session

Show and Tell

- It's difficult to beat a product which naturally integrates the tools you need
- A little of what is being done at Fermilab for PIP-II
- Susanne showed several features but focused on:
 - Display Builder
 - Channel Finder
 - Logbook
- ESS has excellent documentation and configurations to share
- True, also, of other labs

Discussions

- Many praises sung about the tools
 - Many discussions centered around deployment issues
 - Most bug fixes are very fast < 2 weeks
 - Many challenges mostly related to pushing displays
 - Most deployment issues are not necessary Phoebus
 - Agreed to make a list of configurations and issues and solutions to help developers
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- The discussions were lively, which is always a good sign

Fermilab Questions:

- Assuming running Phoebus local computer (laptop, desktop), alternate methods for deployment
- If running locally, how do you configure the network?
- How are displays accessed?
 - Lag when pushing displays
 - Pushing X11 – if so, what is your path forward?
 - Wayland
 - VNC
 - Xpra
 - NX webclient and Guacomole
- Weird errors such as mouse arrow too large
- Weird error causing right mouse button to not function – bad for making plots
- Better authentication