

DSG-R&D Phoebus Alarm System Meeting Minutes

Date: March 03, 2023

Time: 02:00PM – 02:45PM

Attendees: Mary Ann Antonioli, Peter Bonneau, Aaron Brown, Pablo Campero, and Brian Eng

1. Automatic start and sequencing of alarm core programs

Peter Bonneau

1. Discussed development, implementation, and testing of automatic start and sequencing of alarm core programs (Kafka Zookeeper, Kafka Server, and Phoebus alarm server) upon Linux system boot
 - Refer to [DSG Note 2022-16](#)
2. Alarm test system softIOC will be added to automatic start and sequencing
 - New sequence: Kafka Zookeeper, Kafka Server, test system softIOC, and Phoebus alarm server
3. If softIOC is restarted, a restart of Phoebus alarm server is required
 - Alarm server does not automatically connect to PVs
 - A reset requires operator intervention

2. Alarm system softIOC development

Peter Bonneau and Aaron Brown

1. A Linux system has been chosen for EPICS softIOC development, *dsg-c-linux1*
 - This machine is on the same development subnet as the readout instrumentation and NI cRIO
2. Discussed design of the softIOC
 - Possible sources of simulated detector data are host development system (softIOC), Python, or LabVIEW
3. Discussed archival of array PVs using MYA
 - Will investigate if it is possible to index an array PV based on the PV’s metadata

3. Phoebus screen development for alarm system

Mary Ann Antonioli, Peter Bonneau, and Aaron Brown

1. Mary Ann has made five Phoebus screens for the alarm system tests—four crystal zone screens and one for crystal zone cooling

