

DSG-R&D Phoebus Alarm System Meeting Minutes

Date: February 03, 2023

Time: 02:00PM – 03:00PM

Attendees: Peter Bonneau, Aaron Brown, Pablo Campero, Brian Eng, George Jacobs, Tyler Lemon, and Marc McMullen

1. Review of Alarm System Status

Peter Bonneau

1. Discussed the three core programs needed for the Phoebus alarm system
 - Kafka zookeeper, Kafka server, and the alarm server all must be running for the alarm system program to work
 - The Kafka zookeeper must be running before starting the Kafka server and finally the alarm server
2. Discussed tools developed for debugging the three core programs
 - Kafka message monitoring – monitors Kafka message streams
 - Alarm server monitoring – monitors the state of the alarm server
 - Test system will consist of a softIOC, an EPICS IOC user interface, the Phoebus alarm system, and the alarm system user interface
3. Core program testing will use existing process variable (PV) names and add alarm fields for each array element
 - Reviewed example from Front Crystal Zone Temp Sensor Monitoring screen

2. Alarm System SoftIOC Development

Peter Bonneau and Aaron Brown

1. A new softIOC is needed for the next stage of alarm system development and testing
 - Simulate all PVs from NPS, using PV list developed by Mary Ann; there are over 2000 elements
 - Plan is to use a random number generator to simulate PVs
 - Next milestone (May) – development of alarm system softIOC for PV simulation

3. Phoebus Screen Development for Alarm System

Mary Ann Antonioli, Peter Bonneau, and Aaron Brown

1. Control and monitoring screens needed for alarm system
 - Next milestone (May) – development of alarm control and monitoring screens needed for control of the softIOC and the alarm system

4. Debugging Phoebus Communication with EPICS

Peter Bonneau

1. Previously working Phoebus v4.6.10 display screens did not connect to the test softIOC process variables
 - Had to debug Phoebus install, not just the alarm system
2. Currently using the Phoebus Alarm Test System to debug the issue