

# DSG-R&D Phoebus Alarm System Meeting Minutes

**Date:** April 07, 2022

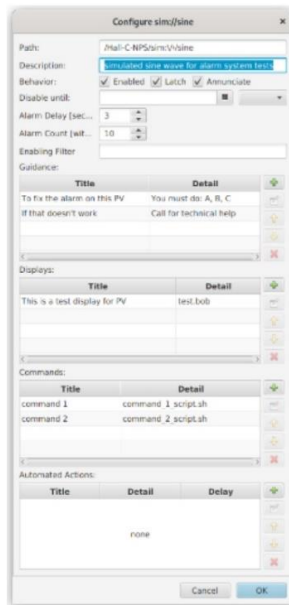
**Time:** 11:00PM – 12:00PM

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

## 1. Phoebus alarm system development

*Peter Bonneau*

1. EPICS alarm system based on CS-Studio Phoebus – debugging the Kafka message stream for alarm system process variable (PV) configuration settings
  - PVs to be monitored by the alarm system, and their alarm system settings, are entered on the Phoebus user interface
  - Settings for each PV
    - Monitoring enable
    - Alarm annunciate enable
    - Guidance on how to respond to the alarm
    - Links to user interface displays
  - Some settings are not being accepted by the alarm server
  - Wrote a Kafka message stream spy program to aid in debugging the configuration message stream; found errors in the format of the message stream
  - Successfully debugged PV configuration message stream



Phoebus alarm system user interface menu for PV configuration

2. Developing an Input/Output Controller (IOC) using EPICS base 3.14 to be used for development and testing of alarm system
  - Configured and built software tool for database development using Visual Database Configuration Tool (VisualDCT)
    - Obtained VisualDCT v2.8.2 source code. Supports all versions of EPICS including V7
    - Built, configured, and tested VisualDCT on Linux development computer