



# Monitoring & Control Systems

- “Network timers”
  - Discovered buried in documentation by Mark & Jim
  - Equivalent of heartbeat timers but at iFIX system level
  - Documentation states send, receive, and wait times should be same on every node
    - So far, Mark & Jim have only worried about CDFS\* in cryo area
    - Need to restart iFIX when changed; probably want to do this on every node
  - Since resetting times on CDFS\*, reliability has been much improved
    - No false process system alarms
    - Solenoid picture (probably our busiest picture) no longer shows fields without data (“@”s)
    - We have seen some new (?) heartbeat problems on COT1, related?
- Server nodes (CDF-FS1 network disk & CDF-FS2 web server)
  - Still in progress
  - Turns out iClient node cannot be SCADA node
  - Problems with network reliability to Soudan mine
- MUON3 replacement—progress?



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## ● Small jobs

- Set up CAEN test station in middle clean room
  - Continuously read out CAEN chassis and cards using dumb terminal (so far hardest part)
- Reinstate PISABOX testing code
  - Managed to backup old (80 MB!) disk with code—unfortunately, in Pascal
- Try and understand slow response on VNODE2
  - Thought was due to status display panel, but no CPU load; Mark thinks this is not the case
  - Separate node just to run status display panel?