

LFEV – Y5 – 2017
Maintainability Plan Presentation
3/1/2017

Initial slide

- Package for both VSCADA/Cell app installation scripts

Errors/exceptions/logs

- Complete list of errors? What are all of the different ones? How are you planning on acting on them?
 - Known as of now: default configuration
- What happens when things break? What are the consequences?
- Tripping safety loop -> last resort [try cut throttle -> cruise control]
- 3 states: stable, unstable, advisory must be able to be disabled (to suppress warnings)

Backup / restoring

- Backup: disc gets scratched? re-config?
- Saving of configuration file: transferring file? thumb drive?
- Save data for analysis: open up on comp/cell and select information desired.
- How to get data that's been saved very often for a long period of time? Will db/log handle that?
- "Baud rate for logging"? Should all sensors be collecting data at the same rate?
- Can't sample all sensors/cells at 1 per second.
- "Notification by exception" - deltas/ heartbeat response

Deployment on New Hardware

- Unexpected power failure - file system check?

Log file trimming

- Autotrim?

System API

- adding a sensor that's new? never before seen -> look @ config file

System configuration maintainability-

- new sensor that requires changing code ??? how to do this??
- sensor API? structure for adding new sensor? device driver?
- best way to store pics ??????
- **multiple calibrations over time**
- calibration factors to be parameterized
- How to correct if you decide calibration is wrong
- Malfunction in one of cells-> which pack? which cell?

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