

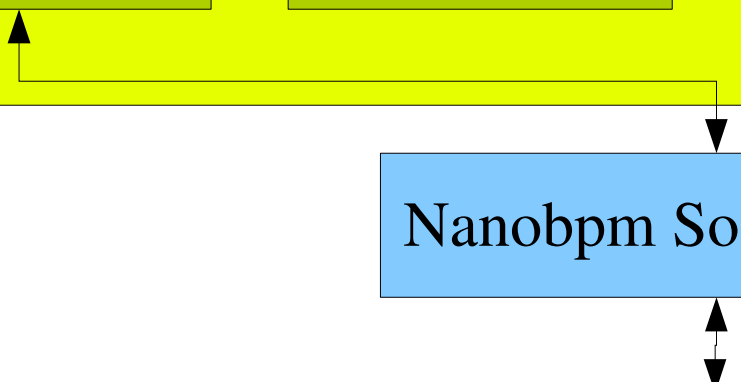
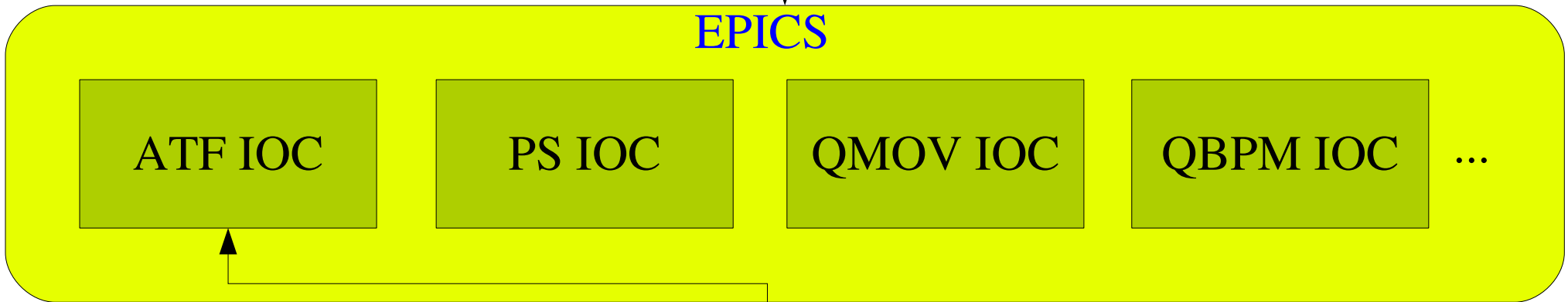
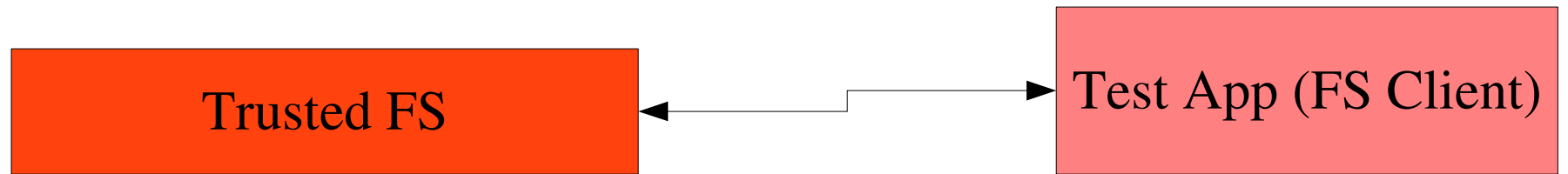
ATF (VSYSTEM) <-> EPICS Link

Glen White
ATF2 Software Review
Workshop, LAL, June
2008

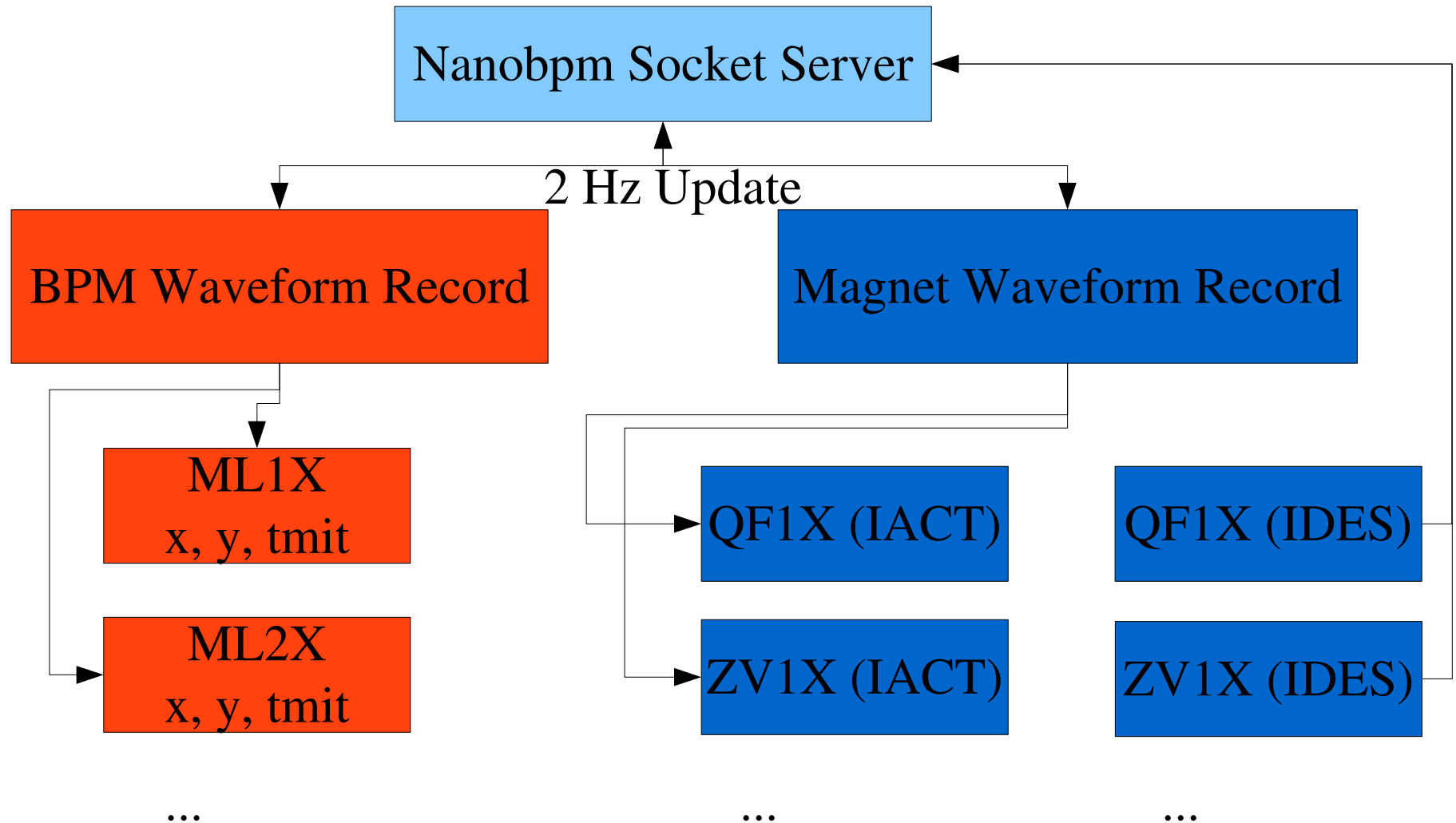
Overview

- A socket-server running on ATF control system (nanobpm server) used during ATF for BPM and magnet readout / control.
- EPICS IOC written that mirrors entries in this database.
 - Driver using ASYN interface and adaptation of existing c ATF socket code.
- Communication through periodic calls to ATF_BPMS and ATF_MAGNETS commands.
- 2 EPICS waveform records store all data and farm out to individual magnet / BPM records with identifiable names

Controls Data Flow



ATF IOC



ATF2 Devices in IOC

- Existing hardware to be put into ATF2
 - Stripline BPMs
 - EXT magnets
 - Ring BPMs and Magnets the same

ATF2 Development Work

- Use this method to communicate to all KEK developed software not in EPICS for ATF2?
- Or, use VACCESS code in ATF IOC better?
- Server development work to change format of data for ATF2 devices (BPMs and Magnets).
- IOC development work to change interface to reflect above changes.
- This interface for other devices- OTR, wire scanners, IP BSM... ?