EPICS Archiver Appliance at NSLS-II

Status, maintenance, improvement

BROOKHAVEN
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a passion for discovery

U.S. DEPARTMENT OF ENERGY | Office of Science

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Status

- Archiver Appliance is used as the only archiving solution

- Still keeping data from Channel Archiver

- Using hour/day/year STS/MTS/LTS

- One main accelerator Appliance + 23 beamlines

- 9 ½ months uptime as for now

- Puppet delivery mechanism based on a solution from FRIB (Leon Flaks)

Maintenance

- Default interface and business logic are open – everyone can add/modify/delete PVs and data

- Fine-tuning access:
  - Basic authentication tied to LDAP (Mizuki Karasawa)
  - Appliance management user group
  - Using urlrewritefilter to bind access to a "gateway" host

- Read-only calls, retrieval, and simplified web UI are accessible for all within Controls network

Improvement

- Central status monitoring and issue detection
  - Misconfiguration is the source for most trouble
  - No global picture of Appliance status
- Uniform configuration mechanism
  - No automation in adding PVs for archiving
  - Suggested usage of dbl or Channel Finder
- Upgrade mechanism
  - Site customizations are a concern
  - Java versions upgrade/downgrade can be tricky
  - Rollback support

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