Elog status

Stefano Lacaprara

INFN Padova, stefano.lacaprara@pd.infn.it

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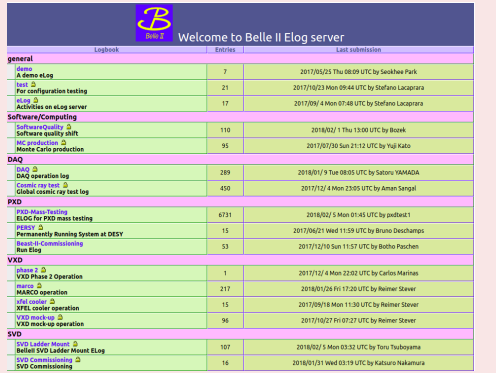
Status of eLog at DESY

Since $>$ 1 year a eLog server is available at DESY, as part of B2 collaborative services

- $N > 10$ eLog's actually active
  - Comp/Soft, DAQ, Detectors (PXD, VXD, SVD)
  - $\mathcal{O}(1000)$ entries as of today
- System provided by DESY
  - operated in XEN virt env (as all other B2CS)
  - hypervisor operated by DESY IT, including monitoring and alarm, dead-time free migration, etc
  - service is secured by https and a service certificate
  - run in DMZ
  - plenty of disk space, full backup
  - now support in working hours, will negotiate 24/7 for critical services (hypervisor, eLog?)
- eLog installation, configuration and maintenance our responsibility (easy task)
  - DESY IT don't have expertise on it
  - they are asking for instructions for shift crew for intervention in case of problem (to be done)

https://elog.belle2.org



Documentation on confluence

Belle2 specific customization

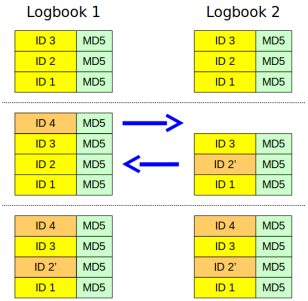
- **authorization/authentication**
  - uses LDAP DESY server:
    - access is allowed only to belle2 member with a DESY account
    - same username and password as for all other B2CS
    - access via `https`: if you have internet connection, you can access it.
  - the login account **can** be used automatically as "author" in entries
- **Customization of eLog**
  - usual customization of fields, mandatory or not, templates, radio buttons, drop down options menu, etc, different in each eLog, following user requests
  - mail notification available: each user can subscribe to any elog;
  - (multiple) attachment with automatically generated thumbnails;
  - entries uploading via script developed and run daily
  - system timezone is UTC. Other TZ (CET, JST) possible.
- **Installation of eLog as per user request, usually quite fast**
  - got generic request "need an elog for this, thanks", as well very specific one "need an elog with this cfg file, thx"

What about data taking

1. **Use the eLog at DESY**
   - ✓ already available
   - ✓ system maintenance by professionals (DESY IT)
   - ✓ authentication/authorization already in place, no new username/password
   - ✓ fully accessible from anywhere
     - ⋆ including any machine at KEK, provided it can access internet
   - ✗ not local at KEK.
2. **Setup a new eLog at KEK**
   - ✓ at KEK
   - ✗ we moved all B2CS at DESY because at KEK was hard/impossible to have fully maintained server (not under Hara-san desk)
   - ✗ visibility/accessibility?
     - ⋆ Only from within KEK or via VPN. Do we like this?
     - ⋆ also from outside: what about access?
     - ⋆ use same DESY account (via LDAP): possible but LDAP server is remote, same problem as before
     - ⋆ use local account: an other username/password? (no, please!)

eLog at DESY and KEK with synchronization

- **Synchronization** (also bi-directional) between two eLog instances is possible. Built-in in the eLog server software
- I believe it is also possible via a rsync, as the eLog is a file-based system
- If running all at DESY not viable, we can investigate a sync between DESY and KEK
  - provided a suitable machine is available at KEK
  - Not clear yet how to deal with security restriction at DESY (namely ldap based authentication)
  - Also if second eLog is at KEK, need to understand how to access it from outside for sync (might be not trivial)
  - Need some test
- **work plan:**
  - a second WM has been required at DESY, to setup a second eLog and try synchronization within same network;
  - then try a sync from DESY to outside (eg, my home institute or elsewhere)
  - possibly try DESY-KEK sync provided a KEK machine is available
  - More than happy to collaborate with anyone at KEK to this goal.



Summary

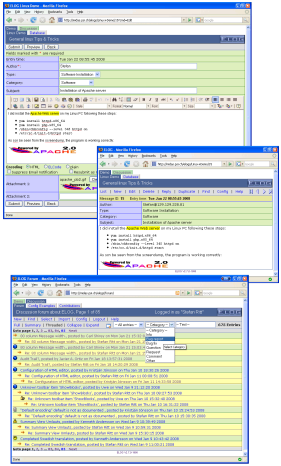
- **A working eLog is available at DESY and widely used**
  - No major issue so far
- **available also for data-taking**
- **if we want to have a local eLog at KEK some problem need to be solved**
  - proper server availability
  - accessibility
  - authorization/authentication
  - (same issues addressed and solved at DESY)
- **plan to investigate more deeply the possibility of a synchronization between local (KEK) and remote (DESY) eLog.**

Additional stuff

Additional or backup slides

Current most popular option: eLog

- http://midas.psi.ch/elog/ author: Stefan Ritt
- First release 2001: latest release (3.2.1) 5/9/2016 (GNU public license)
- initial choice of LHC experiments (with [heavy] customization)
  - C, javascript, css
  - web interface
  - own web server (can work with apache)
  - very configurable
  - flat file "database"
  - form (shift check-list), categories, sub-cat
  - mail notification, with filter, attach, etc
  - access control: native, kerberos, LDAP, guest
  - two way synchronization (keep two or more logbooks in sync)



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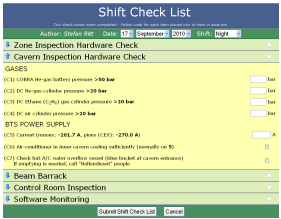

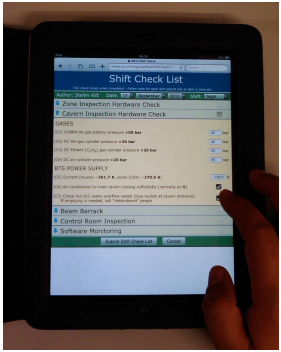

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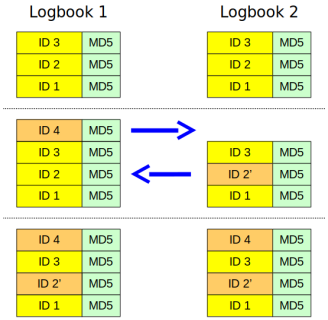

Bibliography I