## Elog status

Stefano Lacaprara

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

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### Status of ELOG at DESY



#### Since > 1 year a ${ m ELog}$ server is available at ${ m DESY}$ , as part of B2 collaborative services

- N > 10 ELog's actually active
  - Comp/Soft, DAQ, Detectors (PXD, VXD, SVD)
  - $ightharpoonup \mathcal{O}(1000)$  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)

Welcome to Belle II Elog server				
Logbook general	Entries	Last submission		
demo A demo eLog	7	2017/05/25 Thu 08:09 UTC by Seokhee Park		
test  For configuration testing	21	2017/10/23 Mon 09:44 UTC by Stefano Lacaprara		
eLog (i) Activities on eLog server	17	2017/09/ 4 Mon 07:48 UTC by Stefano Locaprara		
Software/Computing				
Software Quality Software quality shift	110	2018/02/ 1 Thu 13:00 UTC by Bozek		
MC production  Monte Carlo production	95	2017/07/30 Sun 21:12 UTC by Yuji Kato		
DAQ				
DAQ appraison log	289	2018/01/ 9 Tue 08:05 UTC by Satoru YAMADA		
Cosmic ray test a Global cosmic ray test log	450	2017/12/ 4 Mon 23:05 UTC by Amen Sengel		
PXD				
PXD-Mass-Testing	6734	2010 PALE NAME OF STATE OF STA		

2017/06/21 Wed 11:59 UTC by Bruno Deschamp

2017/12/10 Sun 11:57 UTC by Botho Paschen

2017/12/ 4 Mon 22:02 UTC by Carlos Marinas 2018/01/26 Fri 17:20 UTC by Reimer Stayer

2017/09/18 Mon 11:30 UTC by Reimer Stever 2017/10/27 Fri 07:27 UTC by Reimer Stever

2018/02/5 Mon 03:32 UTC by Toru Tsuboyama 2018/01/31 Wed 03:19 LITC by Katsuro Nakamura

https://elog.belle2.org

#### Documentation on confluence

VD Ladder Mount (2)



# Belle2 specific customization



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#### authorization/authentication

- ▶ uses LDAP DESY server:
  - \* access is allowed only to belle2 member with a DESY account
  - $\star$  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"

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Submit   Save   Pro	view Delete			
Fields marked with * a	re required			
Entry time:	2818/02/5 Mon 13:11 UTC			
Author*:	Stefano Lacaprara			
Day*:	February * 5 * Year 2018 mg 13 * ( 11 * ( 55 * 6)			
Type:	- please select - T			
Descriptions				
JPA: enter JRA ticket (if				
any)				
GGUS: eeter GGUS ticket (if asy)				
expert: check if an expert has been notified				
allOk: check if all is fine				

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# What about data taking



#### • Use the ELOG at DESY

- √ already available
- $\checkmark$  system maintenance by professionals (DESY IT)
- ✓ authentication/authorization already in place, no new username/password
- √ fully accessible from anywhere
  - $\star$  including any machine at KEK, provided it can access internet
- not local at KEK.

#### Setup a new ELOG at KEK

- $\checkmark$  at KEK
- $\times$  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

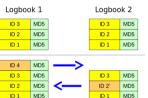


- **Synchronization** (also bi-directional) between two ELOG instances is possible. Built-in in the ELOG server software
- ullet I believe it is also possible via a rsync, as the  $\operatorname{ELog}$  is a file-based system
- $\bullet$  If running all at DESY not viable, we can investigate a sync between DESY and KEK
  - provided a suitable machine is available at KEK
  - Not clear yet how to deal with security restriction at DESY (namely Idap 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.

  S.Lacaprara (INFN Padova)



0 4	MD5	ID 4	MD5
3	MD5	ID 3	MD5
2'	MD5	ID 2'	MD5
0 1	MD5	ID 1	MD5

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- $\bullet$  A working  $\mathtt{ELog}$  is available at  $\mathtt{DESY}$  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.





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Additional or backup slides





- 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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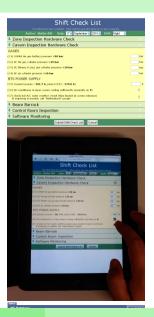
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Logbook 1			Logboo	k 2
ID 3	MD5		ID 3	MD5
ID 2	MD5		ID 2	MD5
ID 1	MD5		ID 1	MD5
ID 4	MD5	<del>&gt;</del>		
ID 3	MD5		ID 3	MD5
ID 2	MD5	<del></del>	ID 2'	MD5
ID 1	MD5		ID 1	MD5
ID 4	MD5		ID 4	MD5
ID 3	MD5		ID 3	MD5
ID 2'	MD5		ID 2'	MD5
ID 1	MD5		ID 1	MD5



# Bibliography I

