



Fritz-Haber-Institut der Max-Planck-Gesellschaft



Photos: DGI Bauwerk

ELN at the Fritz-Haber-Institute

Heinz Junkes

MPDL, ELN Workshop, Berlin, March 2016, 14th

The derivation of ELOG



ELOG: Developed by Stefan Ritt, PSI, Switzerland.
Most of the fundamental work was done by him.
Only some few extensions have been implemented by us.

Most of the pictures used here are out of the talk
"The electronic logbook ELOG and its utilisation for accelerator operations"
held at KIT Seminar, Jan. 30th 2015 by Stefan Ritt.



History of E-logbooks at the FHI

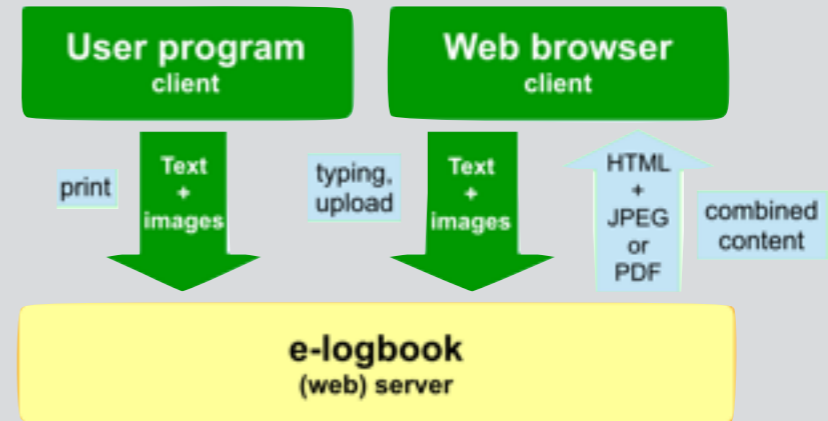


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e-logbook from DESY by Raimund Kammering, running on Sun/Solaris. Very little use at the FHI (not used?).

classic client server architecture



2005

2010



SUN was taken over by Oracle. We had to switch the operating system (Solaris->Linux). Due to migration problems we switched to another logbook -> ELOG



Commissioning of the new FEL. Need for electronic labbook increases. Heavy use by the FEL staff.

2012



Basic principles of ELOG



- Web access
 - Reachable from any computer with Web Browser
 - Monolithic C(++) program
 - Faster than interpreted languages
 - Needs less memory, runs nicely on RaspberryPi
 - Does not depend on Web servers
 - No dependency of external libraries (except SSL)
 - Simple to compile and install
 - Recent extensions in JavaScript

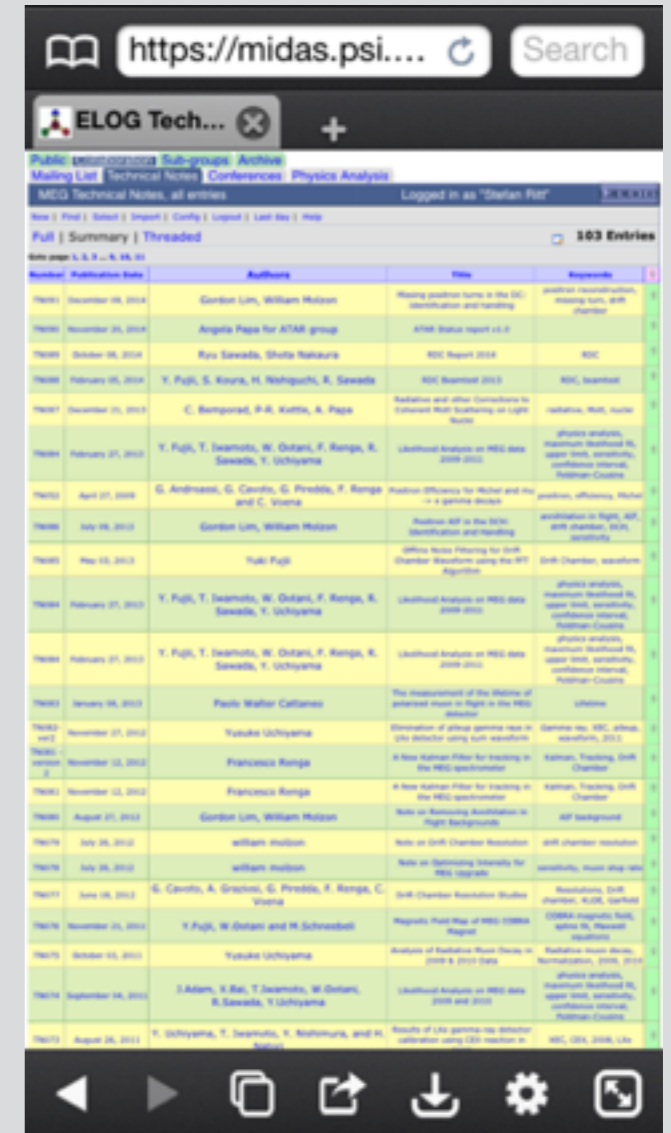




Basic principles of ELOG



- "Designed by user"
- Only contains features that are needed
- (Most) needed features are contained
- Configurable
 - Can be electronic logbook, discussion forum, bug tracker, ...
 - Huge number of configuration options
 - FHI add on : printer extension (CUPS printer)
 - FHI add on : private logbook export
 - FHI add on : special thumbnail/image storage





- Simple text database
 - Database can not get corrupt
 - Database can be edited with ASCII editor (by "experts")
 - Scripting tools can be used to analyse or modify ELOG databases
 - Attachments as files
- Data storage with one file per day:

YYMMDDa.log

- Can make easy backups:
\$ 14????a.log /backup
- Recent change with one subdirectory per year: **2013/13* a.log**

```
$@MID@$: 1
Date: Wed, 13 Feb 2013 11:34:24 +0100
Author: Heinz
Type: Other
Category: USERLOG
Subject: Gesundes Neues Jahr!
Severity: NONE
Keywords: Computer-Control
Record date: 1357214635
Attachment:
Encoding: ELCode
```

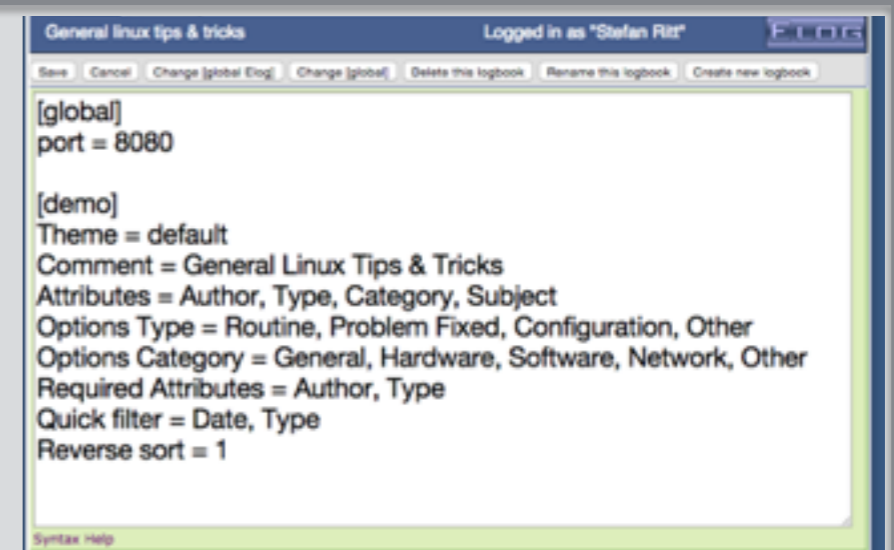


Configuration Concept



- Configuration via single text file, editable through web browser

```
[global]
port = 4813
URL = https://elogbook.fhi-berlin.mpg.de/elog/cp/
SMTP host = mail.fhi-berlin.mpg.de
Usr = elog
Grp = elog
Theme = fhi
Welcome Title = <p><font size=5 color=white>FHI - ELOG - CP
Logbook Selection</font><BR /><span><font size=2> ELOG Service at the FHI configured and operated by
PP&B<BR>developed by S.Ritt, Paul-Scherrer-Institut</font></span>
Page title = FHI - ELOG - CP Logbook Selection
Admin user = junkes
Allow delete = junkes
Restrict edit time = 12
Restrict edit = 1
Thumbnail size = 400
```





- Many log-books can be run in parallel with different configurations

```
root@threeofnine:~ >> ps -ef | grep elogd
elog  1159  1 0 2013  00:45:26 /usr/local/sbin/GvH_elogd -f /usr/local/FHI_ELOG/MP/elogd-threeofnine.pid
                                     -c /usr/local/FHI_ELOG/MP/elogd.cfg -D
elog  1163  1 0 2013  00:44:30 /usr/local/sbin/elogd -f /usr/local/FHI_ELOG/TH/elogd-threeofnine.pid
                                     -c /usr/local/FHI_ELOG/TH/elogd.cfg -D
elog  1737  1 0 2013  01:00:16 /usr/local/sbin/elogd -f /usr/local/FHI_ELOG/FEL/elogd-threeofnine.pid
                                     -c /usr/local/FHI_ELOG/FEL/elogd.cfg -D
elog  2492  1 0 2015  00:12:28 /usr/local/sbin/elogd -f /usr/local/FHI_ELOG/CP/elogd-threeofnine.pid
                                     -c /usr/local/FHI_ELOG/CP/elogd.cfg -D
elog 10153  1 0 Jan27 00:01:59 /usr/local/sbin/elogd -f /usr/local/FHI_ELOG/PC/elogd-threeofnine.pid
                                     -c /usr/local/FHI_ELOG/PC/elogd.cfg -D
elog 24935  1 0 2014  00:46:56 /usr/local/sbin/elogd -f /usr/local/elog/elogd-threeofnine.pid
                                     -c /usr/local/elog/elogd.cfg -D
```

- Total of 149 settings and 41 flags, documented on one huge page:
<http://midas.psi.ch/elog/config.html>



Attributes



- Attributes are values common to all entries in a logbook, like "columns" in a relational database
- Defined via **Attributes = Author, Type, Category**
- Stored in header of text files
- Attribute sets are extendable

SMART microscopes at BESSY, Page 1 of 1				Logged in
New Find Select Import Config Logout Last day Help				
Full Summary Threaded				
Record date ▼	Author	Severity	Subject	Text
Tue Feb 19 15:52:03 2013	Heinz Junkes	INFO	Changed ids user mart	Id of smart user set to 500/100 to get synchronized with the new QNAP system.
Thu Jan 3 13:03:55 2013	Heinz	NONE	Gesundes Neues Jahr!	NO_TEXT
Thu Dec 6 15:33:05 2012	Heinz	NONE	Install CSS on uff6 for user smart	Installed CSS Version 3.1.2 "Basic EPICS" from SNS for Red Hat x86_64
Thu Dec 6 14:54:20 2012	Heinz	NONE	EPICS at uff6	add user epics Install baseR3.14.12.2 to /home/epics/base makeBaseApp -i -t example das in /home/epics/das make, cp das.db and
Thu Dec 6 12:33:17 2012	Heinz	INFO	Heinz bei Bessy ;-)	Installed updates on uff6, during reboot a file-system check was forced due to the fact that since 183 no file system check was performed
Fri Sep 14 08:42:45 2012	HWK	NONE	Morning Readout	Pressure p(MCH) p(IGP) p(COL) p(PREP) p(GASIN) [mbar]
Thu Sep 13 09:13:36 2012	HWK	NONE	Morning Readout	Pressure p(MCH) p(IGP) p(COL) p(PREP) p(GASIN) [mbar]
Wed Sep 12 12:04:45 2012	HWK	NONE	Standard layout for Ru(0001) cleaning entry	Attached is the standard layout for the elogbook entry of the cleaning procedure of Ru(0001).

```

$@MID@$: 1
Date: Wed, 13 Feb 2013 11:34:24 +0100
Author: Heinz
Type: Other
Category: USERLOG
Subject: Gesundes Neues Jahr!
Severity: NONE
Keywords: Computer-Control
Record date: 1357214635
Attachment:
Encoding: ELCode

```



Conditional attributes

- Settings can depend on the value of an attribute

Attributes = PC Name, Operating System, Version

Options Operating System = Linux{1}, Windows{2}

{1} Options Version = 2.2, 2.4, 2.6

{2} Options Version = NT, XP, W7, W8

The screenshot shows the 'demo' PC Database form. The 'Operating System' dropdown is set to 'Linux'. The 'Version' dropdown is open, displaying a list of options: '- please select -', '2.2', '2.4', and '2.6'. The form includes fields for 'Entry time', 'PC Name', and 'Version', along with a rich text editor and navigation buttons like 'Submit', 'Preview', and 'Back'.

The screenshot shows the 'demo' PC Database form. The 'Operating System' dropdown is set to 'Windows'. The 'Version' dropdown is open, displaying a list of options: '- please select -', 'NT', 'XP', 'W7', and 'W8'. The form includes fields for 'Entry time', 'PC Name', and 'Version', along with a rich text editor and navigation buttons like 'Submit', 'Preview', and 'Back'.

- Hide certain attributes on conditions, different tooltips, *logical or* of conditions, ...
- "Merge" different logbooks into one



- Enable/Disable almost all features
- Default presets for most dialog boxes
- Select language (17 languages available)

Flags

- **Show text = 0|1**
This flag controls if logbook entries contain a body text. If an installation only requires attributes, this flag can be set to **0**. Default is **1**.
- **Enable attachments = 0|1**
This flag controls the attachment submission at the bottom of a message entry page. If this flag is **0**, the attachment section is not displayed. This might be useful for logbooks where attachments are not used. Default is **1**.
- **Show attachments = 0|1**
This flag controls the display of attachments such as images on normal logbook pages. For logbooks with large images, this flag can be turned off, so that attachments are only displayed when they are clicked on. Default is **1**.
- **Preview attachments = 0|1**
This flag controls the display of attachments in the edit form. If one uploads an attachment, but has not yet submitted the entry, the uploaded attachments are shown at the bottom if this flag is **1**. Only ASCII files and images are shown of course. Default is **1**.
- **Summary lines = x**
This specifies the number of text lines displayed in a summary page. Zero displays no text at all. The default is 3.
- **Summary line length = x**
This specifies the number of characters of the summary lines. After this number of characters, a line break is inserted in long lines to keep the column width not too wide. The default is 40.
- **Attachment lines = x**
This specifies the number of text lines displayed for ASCII attachments. For long ASCII attachments, it can be useful to only display the first few lines not to make the HTML page too long. The default is **300**.
- **Reverse sort = 0|1**
If this flag is **1**, all listing pages (the default page view, the result of a search query and the result of the "Last day" query) is sorted in reverse order (newest entry down to oldest). The checkbox *Sort in reverse order* on the search form gets checked by default, too. Sorting in reverse order can make sense if there are many pages of entries, but the ones entered last should be displayed on the first page. Default is **0**.
- **Search all logbooks = 0|1|2**
If this flag is **1** or **2**, the search form displays the button "Search all logbooks". If the flag is **2**, the button is checked by default. Setting this flag to **0** hides this button. It might be necessary to do this for public logbooks if there are also protected logbooks. Otherwise the

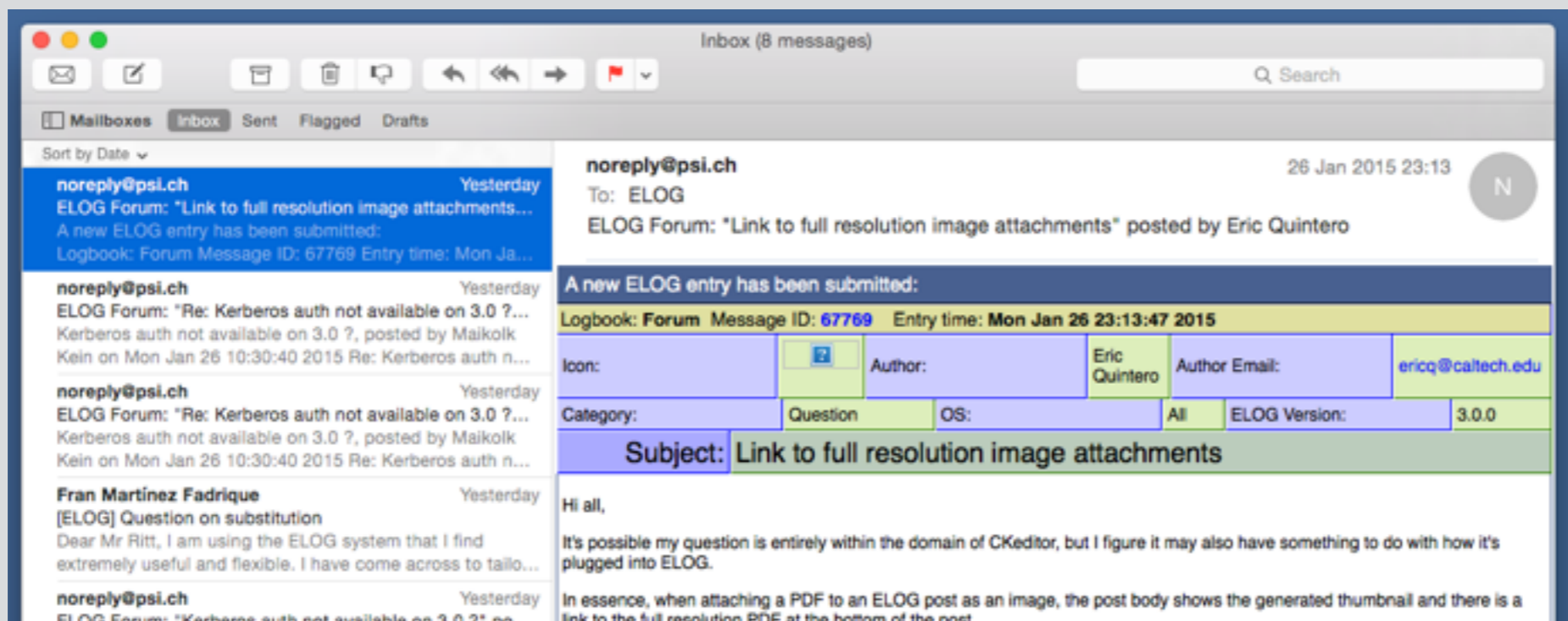
<http://midas.psi.ch/elog/config.html#flags>



Email notification



- Email notification for certain processes
 - New entry, modified entry
 - Email to registered user(s) or external email addresses
 - Attributes have certain values
(like **new entry** with **system=DAQ & category=Error**)
- Email can contain summary, full entry, with/without attachments





Access control



- User accounts with central password database (XML) and optional guest access
- Auto-logout, self register [with admin approval]
- Kerberos & LDAP support

Please login

Username:

Password:

Keep me logged in on this computer for the next 41 days or until I log out

[Forgot password?](#) [Register as new user](#)

ELOG V2.9.2-2455

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!-- created by MXML on Thu Mar 10 18:40:44 2016 -->
<list>
  <user>
    <name>junkes</name>
    <password encoding="SHA256">NH5/.NVvKt3yVtApnoqCPff97PhxrcXUp8yNp.CbdwA</password>
    <full_name>Heinz Junkes</full_name>
    <last_logout>Wed Mar 9 18:15:07 2016</last_logout>
    <last_activity>Thu Mar 10 08:53:45 2016</last_activity>
    <email>junkes@fhi-berlin.mpg.de</email>
    <inactive>0</inactive>
    <email_notify/>
```



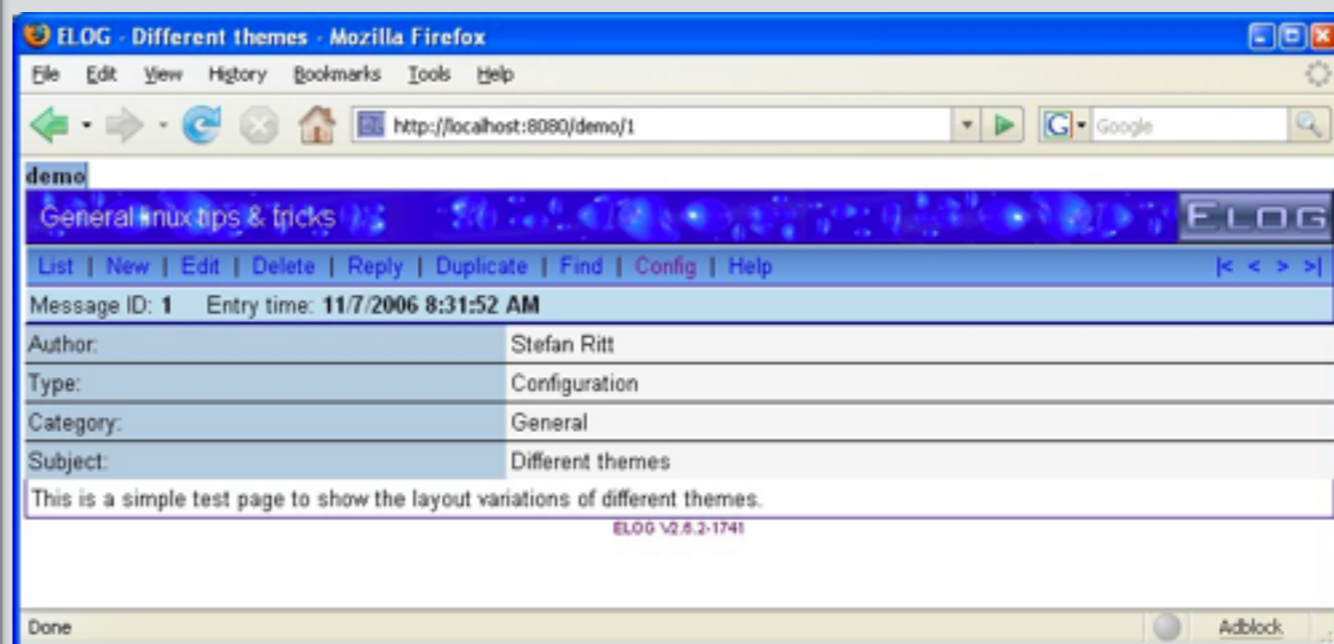
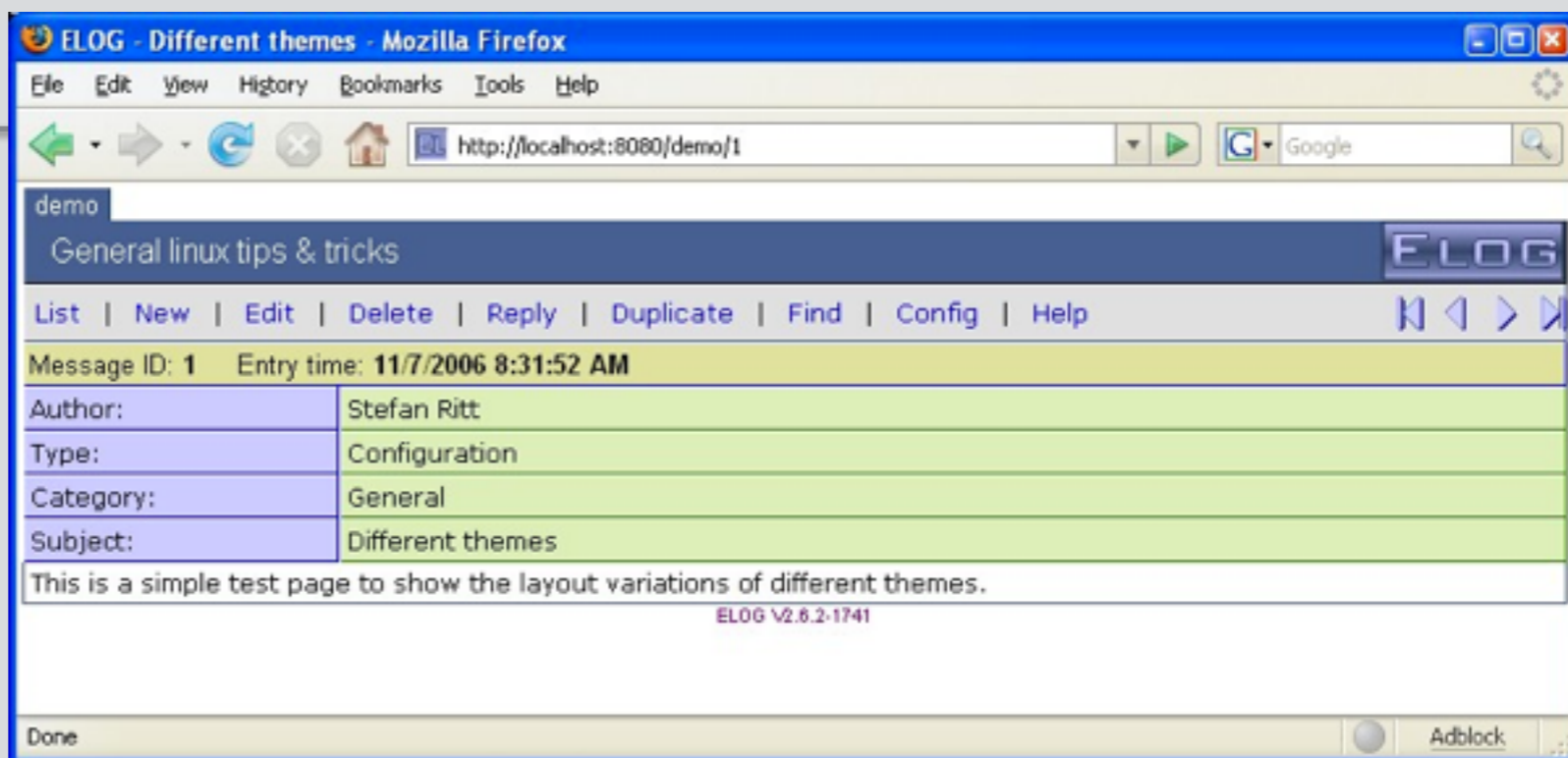
Themes



CSS = <file.css>

```
/* default formatting */  
body {  
  margin:3px;  
  color:black;  
  background-color:white;  
  font-family:verdana,tahoma,sans-serif;  
  /* background-image:url(eelog.gif); */  
}
```

```
/* standard link colors and decorations */  
a:link { color:#0000FF; text-decoration:none }  
a:visited { color:#800080; text-decoration:none }  
a:hover { color:#0000FF; text-decoration:underline }  
a:active { color:#0000FF; text-decoration:underline }  
a:focus { color:#0000FF; text-decoration:underline }
```





Mirroring

- Keep two or more logbooks in sync
- Synchronisation works both ways
- Implementation using MD5 hash values

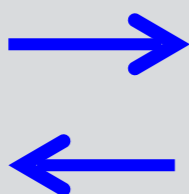
Logbook 1

ID 3	MD5
ID 2	MD5
ID 1	MD5

Logbook 2

ID 3	MD5
ID 2	MD5
ID 1	MD5

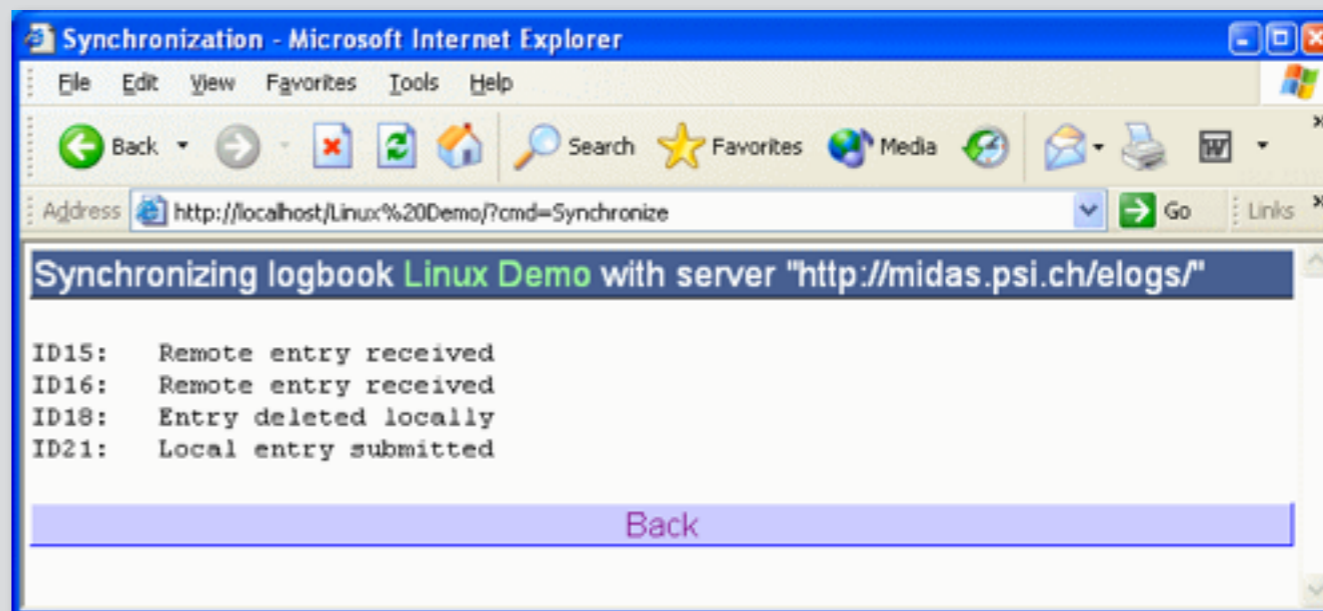
ID 4	MD5
ID 3	MD5
ID 2	MD5
ID 1	MD5



ID 3	MD5
ID 2'	MD5
ID 1	MD5

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

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



```
Mirror server = <URL-list>
Mirror config = 0 | 1
Mirror cron = 0 3 * * * // every night at 3:00
```



"elog" utility



- Command line utility to commit ELOG entries
- Scriptable "**cat text | elog -h ... -l ...**"
- Automatic entries e.g. accelerator status

```
elog -h
elog 2.9.1 built Feb 5 2013, 10:49:02 revision 436
```

usage: elog

```
elog -h <hostname> [-p port] [-d subdir]
```

```
-l logbook/experiment
```

```
-s
```

```
[-v]
```

```
[-u username password]
```

```
[-f <attachment>]
```

```
-a <attribute>=<value>
```

```
[-r <id>]
```

```
[-q]
```

```
[-e <id>]
```

```
[-x]
```

```
[-n 0|1|2]
```

```
-m <textfile>] | <text>
```

Location where elogd is running

Name of logbook or experiment

Use SSL for communication

For verbose output

User name and password

(up to 50 attachments)

(up to 50 attributes)

Reply to existing message

Quote original text on reply

Edit existing message

Suppress email notification

Encoding: 0:ELcode, 1:plain, 2:HTML

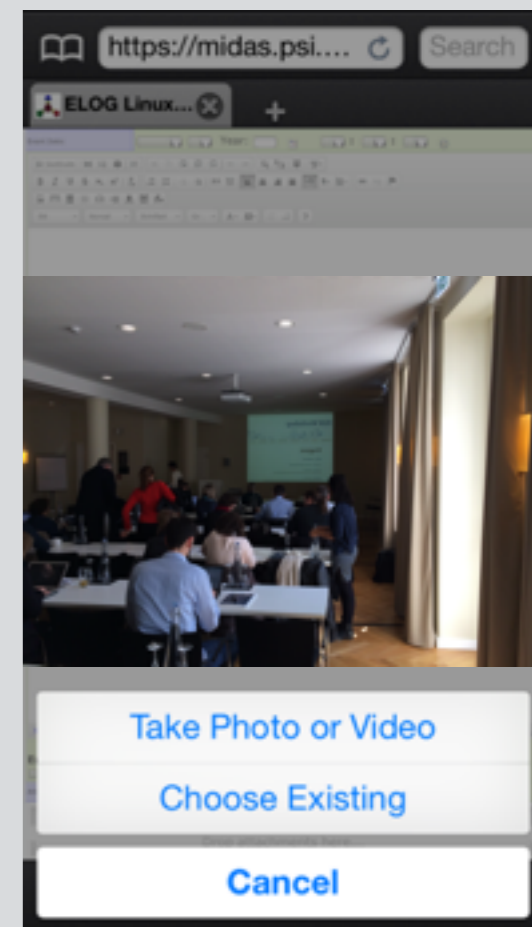


CKeditor



- Recent extension (Dario Milicic) allows Rich Editing, Drag & Drop of images and smartphone photo upload

The image shows the CKEditor interface with various editing tools. Below the editor, there's a section for "Rich Text" with options for "with Table" and "with formulas". A table with 2 columns and 3 rows is shown. Below that, there's an "and images" section with an "ELOG" logo. At the bottom, there are encoding options (HTML, ELCode, plain) and attachment fields. The browser window shows an ELOG entry for "Eln Workshop" with a photo attachment.





"FHI" - extension



Fritz-Haber-Institut

- To each logbook a printer is connected to (via CUPS)
- From any application a print to logbook is supported

The image is a composite of three overlapping windows. On the left is a web browser window showing an ELOG logbook entry for 'entry.pdf' with details like author 'junkes', type 'prntDaemon', and category 'PRINTER'. In the center is a PDF viewer displaying a technical diagram titled 'The Control System of the FHI FEL' which shows a central 'FEL-LAN' cloud connected to various components like 'receive', 'iPad-App', 'Laser Beam Profiling', 'AES RF', 'Timing System', and 'Libera Sync 3'. On the right is a print dialog box for 'PPB_ELOG' with settings for pages, layout, and printer options.



"FHI" - modification



- Printable output (as booklet)

The screenshot shows the ELOG web interface at elogbook.fhi-berlin.mpg.de. The user is logged in as "Heinz Junkes". The interface includes a navigation bar with "Services", "PPB", "Haustechnik", and "Präzisionslabor". Below this is a search bar with "Search", "Reset Form", and "Back" buttons. The "Mode" section has radio buttons for "Display full entries" (selected), "Summary only", and "Display threads". The "Export to" section has radio buttons for "CSV ("," separated)", "CSV (";" separated)", "XML", and "Raw". The "Options" section includes checkboxes for "Show attachments", "Printable output", "Sort in reverse order", and "Search all logbooks". The "Display" section shows "20 entries per page". The "Filters" section includes fields for "Entry date", "Author", "Type", "Category", "Subject", "Severity", "Keywords", "Record date", and "Text". The "Entry date" and "Record date" fields have "Start" and "End" sub-fields with year, month, and day dropdowns. The "Text" field has a checkbox for "Search text also in attributes" and a "Case sensitive" checkbox. The version number "ELOG V2.9.2-2455" is visible at the bottom of the interface.

- Completely custom HTML hand crafted forms as input forms for logbooks
- Perfect for shift checks with tablet computers

Shift Check List
Tick check boxes when completed - Follow code for each item placed close to item in zone etc.

Author: *Stefan Ritt* Date: 17 September 2010 Shift: Night

↓ Zone Inspection Hardware Check

↑ Cavern Inspection Hardware Check

GASES

(C1) COBRA He-gas battery pressure >50 bar bar

(C2) DC He-gas cylinder pressure >20 bar bar

(C3) DC Ethane (C₂H₆) gas cylinder pressure >20 bar bar

(C4) DC air cylinder pressure >20 bar bar

BTS POWER SUPPLY

(C5) Current (muons: -201.7 A, pions (CEX): -270.0 A) A

(C6) Air-conditioner in inner cavern cooling sufficiently (normally on 5)

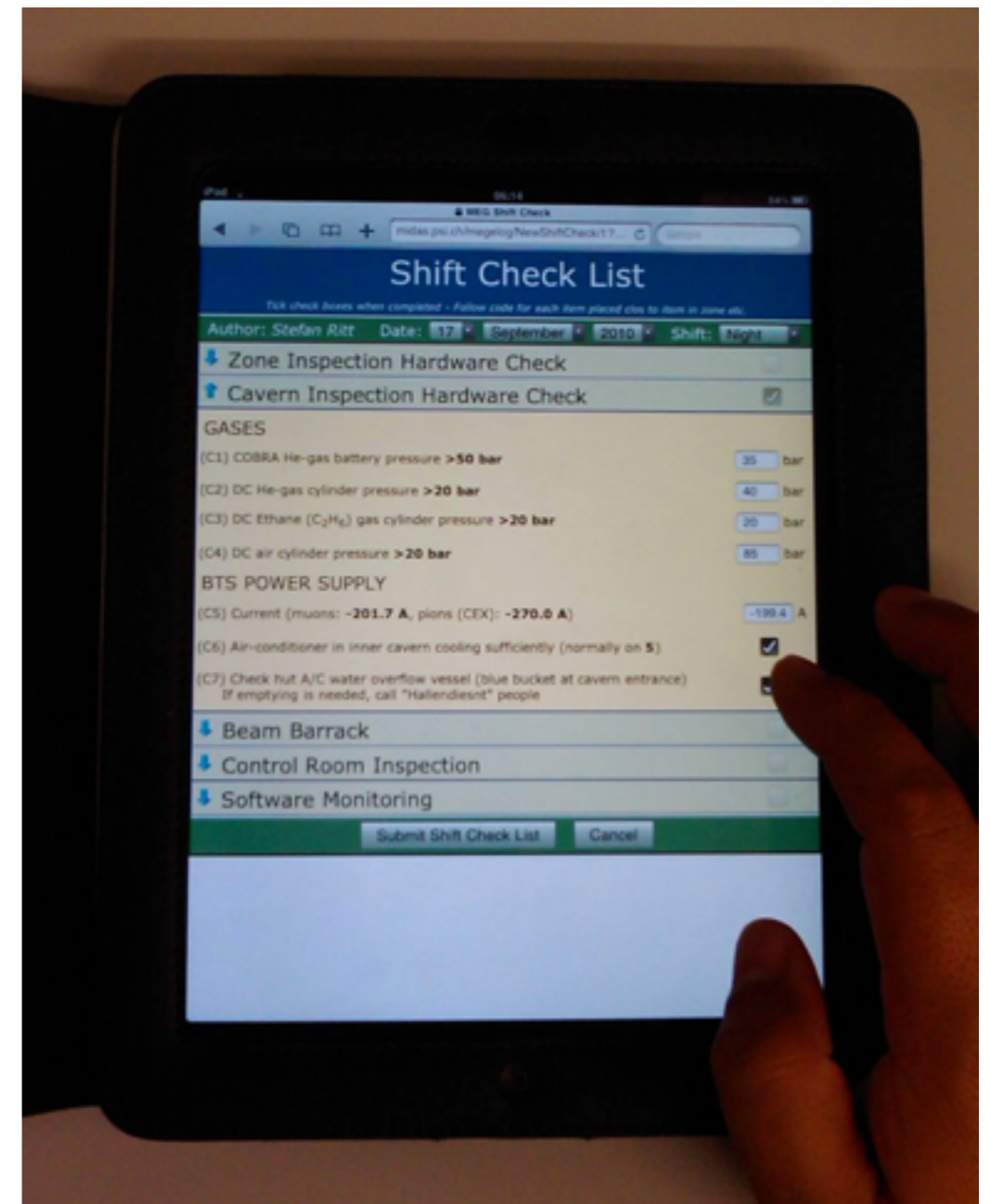
(C7) Check hut A/C water overflow vessel (blue bucket at cavern entrance)
If emptying is needed, call "Hallendienst" people

↓ Beam Barrack

↓ Control Room Inspection

↓ Software Monitoring

Submit Shift Check List Cancel



<https://midas.psi.ch/e logs/Forum/66909>

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Shift Check List, Page 2 of 70

[Find](#) | [Login](#) | [Logout](#) | [Help](#)

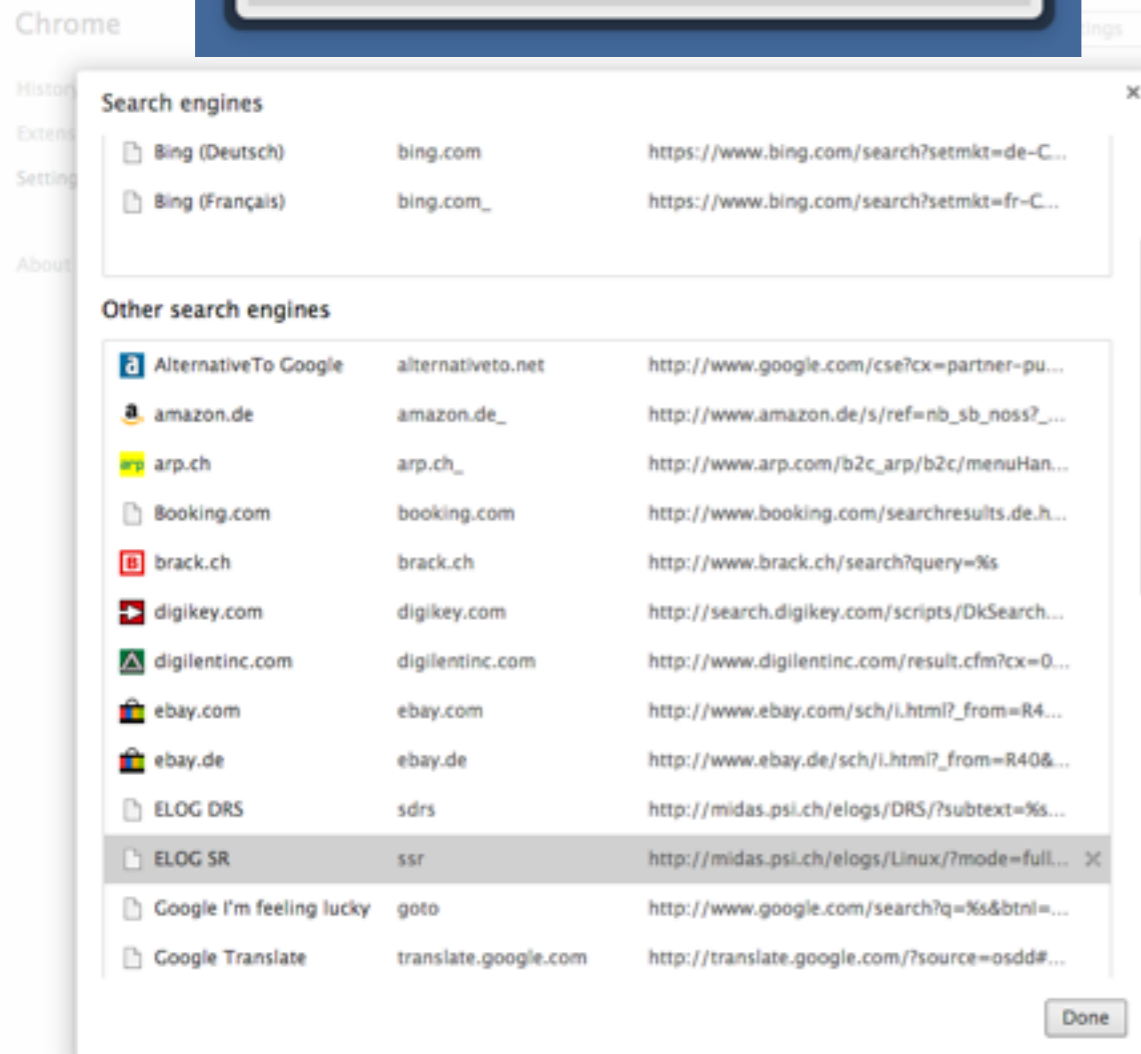
[Summary](#) | [Threaded](#) | [Hide attachments](#)

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ID	Date	Author	D	M	Y	Shift	a1	a2	a3	a4	a5	h1	h2	h3	h4	h5	c1	c2	c3	c4	c5	c6	c7	bb1	cr1	cr2	cr3	cr4	cr5	cr6	cr7	cr9	cr10	cr11	cr13	cr14				
1367	Sun Aug 25 14:27:29 2013	Elisabetta Baracchini	25	8	2013	Morning											85	95	38	45	199.4	on	on	intermediate	-195	on	on		on	on	on	on	on	on	on	on	on			
1366	Sun Aug 25 06:23:39 2013	Zachary Hodge	24	8	2013	Night											85	95	35	45	199.2	on	on	intermediate	195	on	on		on	on	on	on	on	on	on	on	on	on	on	
1365	Sat Aug 24 22:25:12 2013	Andrey Korenchenko	24	8	2013	Evening											91	98	38	46	199.2	on	on	intermediate	195	on	on		on	on	on	on	on	on	on	on	on	on	on	
1364	Sat Aug 24 14:41:36 2013	Michele Cascella	24	8	2013	Morning					close						90	100	33	45	-199.4	on	on	intermediate	-195	on	on		on	on	on	on	on	on	on	on	on	on	on	
1363	Sat Aug 24 05:52:38 2013	Zachary Hodge	23	8	2013	Night											90	100	35	45	199.2	on	on	intermediate	195	on	on		on	on	on	on	on	on	on	on	on	on	on	on
1362	Fri Aug 23 22:18:01 2013	Andrey Korenchenko	23	8	2013	Evening											99	100	38	45	199.2	on	on	intermediate	195	on	on		on	on	on	on	on	on	on	on	on	on	on	on
1361	Fri Aug 23 14:02:41 2013	Elisabetta Baracchini	23	8	2013	Morning											100	100	40	50	199.4	on	on	intermediate	-195	on	on		on	on	on	on	on	on	on	on	on	on	on	on
1360	Fri Aug 23 06:19:54 2013	Fedor Ignatov	22	8	2013	Night											100	100	35	45	199.2	on	on	intermediate	195	on	on		on	on	on	on	on	on	on	on	on	on	on	on
1359	Thu Aug 22 22:40:59 2013	Michele Cascella	21	8	2013	Morning					close						100	100	33	45	-199.4	on	on	intermediate	195	on	on		on	on	on	on	on	on	on	on	on	on	on	on
1358	Thu Aug 22 11:46:43 2013	Elisabetta Baracchini	22	8	2013	Morning	on	on	on		surveillance	on	2.362	on	on	on	110	100	40	20	199.4	on	on	intermediate	-170	on	on		on	on	on	on	on	on	on	on	on	on	on	
1357	Thu Aug 22 06:09:54 2013	Andrey Korenchenko	21	8	2013	Night											110	104	38	45	199.2	on	on	intermediate	195	on	on		on	on	on	on	on	on	on	on	on	on	on	on
1356	Wed Aug 21 22:08:51 2013	Zachary Hodge	21	8	2013	Evening											110	105	35	45	199.2	on	on	intermediate	195	on	on		on	on	on	on	on	on	on	on	on	on	on	on
1355	Wed Aug 21 15:02:15 2013	Michele Cascella	21	8	2013	Morning					close						110	105	35	45	-199.4	on	on	intermediate	195	on	on		on	on	on	on	on	on	on	on	on	on	on	on
1354	Wed Aug 21 04:58:28 2013	Gianluigi Boca	20	8	2013	Night											120	110	38	45	199.4	on	on	intermediate	195	on	on		on	on	on	on	on	on	on	on	on	on	on	
1353	Tue Aug 20 22:38:13 2013	Alexandr Popov	20	8	2013	Evening	on	on	on		open	on	2.362	on	on	on	120	110	38	49	0	on	on	intermediate	170	on		on	on		on	on	on	on	on	on	on	on		
1352	Tue Aug 20 13:45:05 2013	Gordon Lim	20	8	2013	Morning											120	108	38	46	199.2	on	on	intermediate	195	on	on		on	on	on	on	on	on	on	on	on	on	on	on
1351	Tue Aug 20 06:24:56 2013	william molzon	19	8	2013	Night																			195	on	on		on	on	on	on	on	on	on	on	on	on	on	
1350	Mon Aug 19 22:05:34 2013	Alexandr Popov	19	8	2013	Evening											125	110	39	48	199.2	on	on	intermediate	195	on	on		on	on	on	on	on	on	on	on	on	on	on	on
1349	Mon Aug 19 12:09:28 2013	Gordon Lim	19	8	2013	Morning	on	on	on		open	on	2.362	on	on	on	128	110	38	46	-199.4	on	on	intermediate	170	on	on		on	on	on	on	on	on	on	on	on	on	on	
1348	Mon Aug 19 06:22:09 2013	Fedor Ignatov	18	8	2013	Night											130	110	38	45	199.2	on	on	intermediate	195	on	on		on	on	on	on	on	on	on	on	on	on	on	on

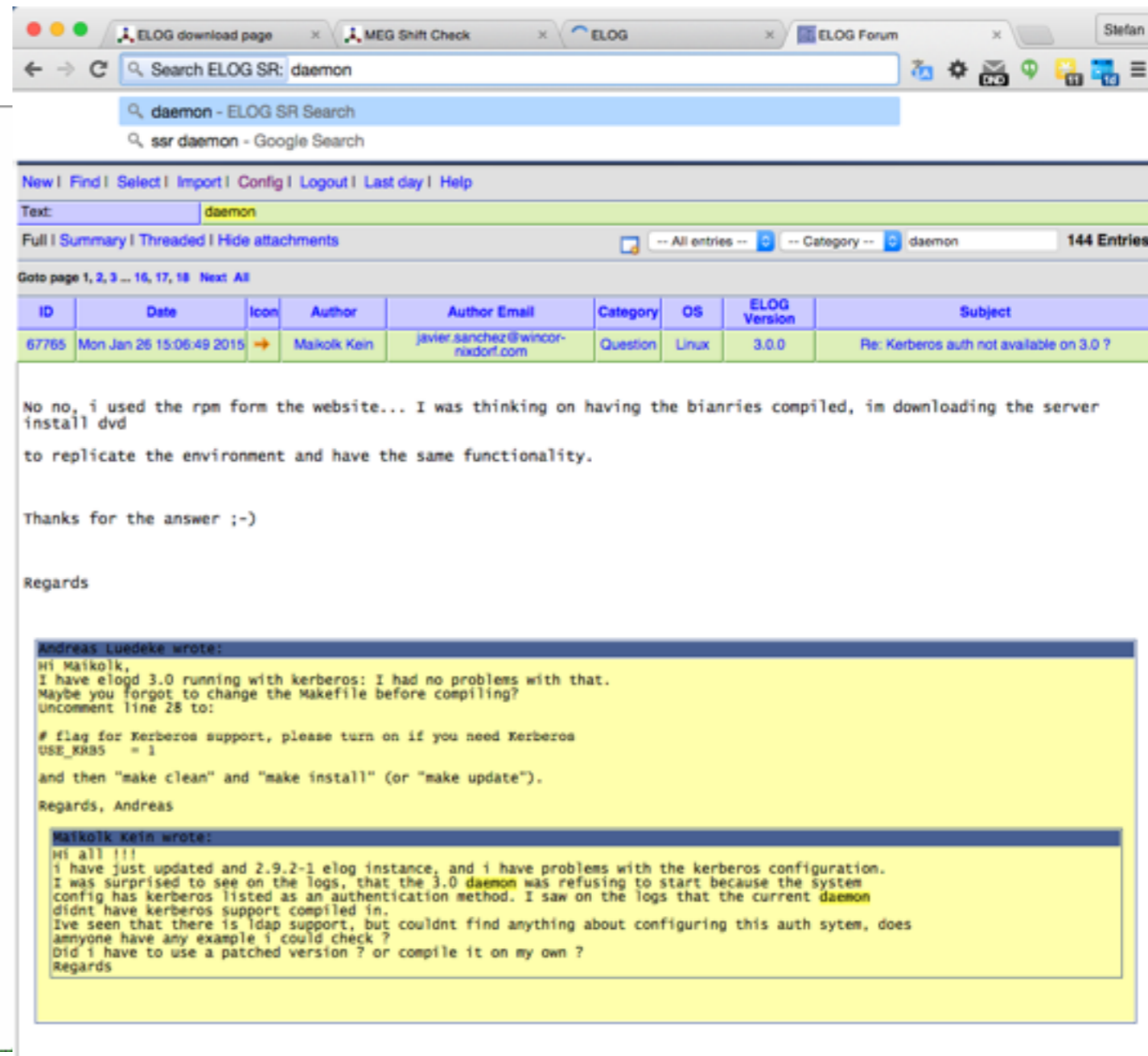
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- Most browsers allow definition of custom search engines
- Define ELOG as a search engine with custom search string **http://midas.psi.ch/elogs/Forum/?subtext=%s**



Default browser

The default browser is currently Google Chrome



- <http://midas.psi.ch/elog/download.html>
- Public GIT repository
 - “make”
 - “sudo make install”
 - “sudo /etc/init.d/elogd start”
 - “launchctl” under OSX
- Source code TAR ball
- Windows Binaries
- Linux Binaries (RPMs)
- Debian Package

ELOG download page

Site map : [\[Home\]](#) [\[User's Guide\]](#) [\[Administrator's Guide\]](#) [\[FAQ\]](#) [\[Forum\]](#) [\[Wishlist\]](#)
[\[Contributions\]](#) [\[DEMO\]](#) [\[Download\]](#)

ELOG is distributed both as source code and as precompiled binaries for various platforms. In addition to major versions, minor releases are made containing bug fixes or some new and not yet completely debugged code. This is usually the case if some user asks for some new features, which are then implemented and sent to the user for testing. The minor releases are named **x.y.z-r** where **r** is the release number. A [web access](#) to the source code contains the complete development history of ELOG, plus the newest fixes and features which might yet be in a release. To check out the GIT repository, use:

```
git clone https://bitbucket.org/ritt/elog
```

Building elogd and installing it from the GIT repository works in the same way as building it from the tarball. Issue in the elog directory a "make", followed by a "make install".

News for each version can be seen in the [changelog](#)

ELOG source code

The source code is available as a good old [TAR](#) file. Select [elog-latest.tar.gz](#) unless you want to download a previous version. Untar the file with

```
tar -zxvf elog-latest.tar.gz
```

and compile it with "**make**". Then follow the instructions on how to install the server on a Linux system.

Windows Binaries

The windows binaries are distributed with an automatic [installer](#). Execute the installer to install ELOG and to register the elogd server as a windows service. Previous windows versions can be found [here](#).

Linux Binaries

Linux binaries are distributed as a [RPM](#). For previous versions check [here](#). There are also [SRPMS](#). Thanks to Roger Kalt there is also a [Debian package](#).

- Use since 2001 for three large experiments with ~30 logbooks
- Reliable, easy to use
- “monit” tool to restart crashed server (couple of times per year on public server)
- In spite of vast usage (~10 labs, all LHC experiments) I get only ~few issues per month
- Logbook size fine to ~few 100'000 entries, search can get slow

Paul-Scherrer-Institut (PSI) midas.psi.ch/elogs/Foru

Demo Discussion
Forum Config Examples Contributions Vulnerabilities

Discussion forum about ELOG, Page 1 of 183 Not logged in ELOG

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- Installation: Failed Dependencies, posted by Phil Rubin on Fri Mar 11 17:29:47 2016
 - Re: Installation: Failed Dependencies, posted by Phil Rubin on Fri Mar 11 18:59:30 2016
 - Re: Installation: Failed Dependencies, posted by Phil Rubin on Fri Mar 11 19:24:11 2016
- elogd -m Error sending local entry: Error transmitting message, posted by Dave on Thu Mar 10 00:26:03 2016
- Execute new|edit doesn't seem to work, posted by Juergen Diefenbach on Fri Feb 26 17:35:54 2016
 - Re: Execute new|edit doesn't seem to work, posted by Andreas Luedeke on Sun Feb 28 18:24:58 2016
 - Re: Execute new|edit doesn't seem to work, posted by Juergen Diefenbach on Mon Mar 7 13:03:13 2016
 - Re: Execute new|edit doesn't seem to work, posted by Andreas Luedeke on Tue Mar 8 14:12:26 2016
- Attribute Field Size Limited to 255 Characters, posted by Mike Bodine on Thu Mar 3 00:12:45 2016
 - Re: Attribute Field Size Limited to 255 Characters, posted by Andreas Luedeke on Thu Mar 3 14:51:55 2016
- Links to images in notification message, posted by Devin Bougie on Fri Feb 26 17:20:52 2016
 - Re: Links to images in notification message, posted by Devin Bougie on Fri Feb 26 18:11:14 2016

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