



ELI eLogBook

PaNOSC WP3 Catalogue Integration Best Practices Meeting 05/19/2021

- **Background**
- **Architecture**
- **Data model**
- **Extensions**
- **UI - screenshots**
- **REST-API**

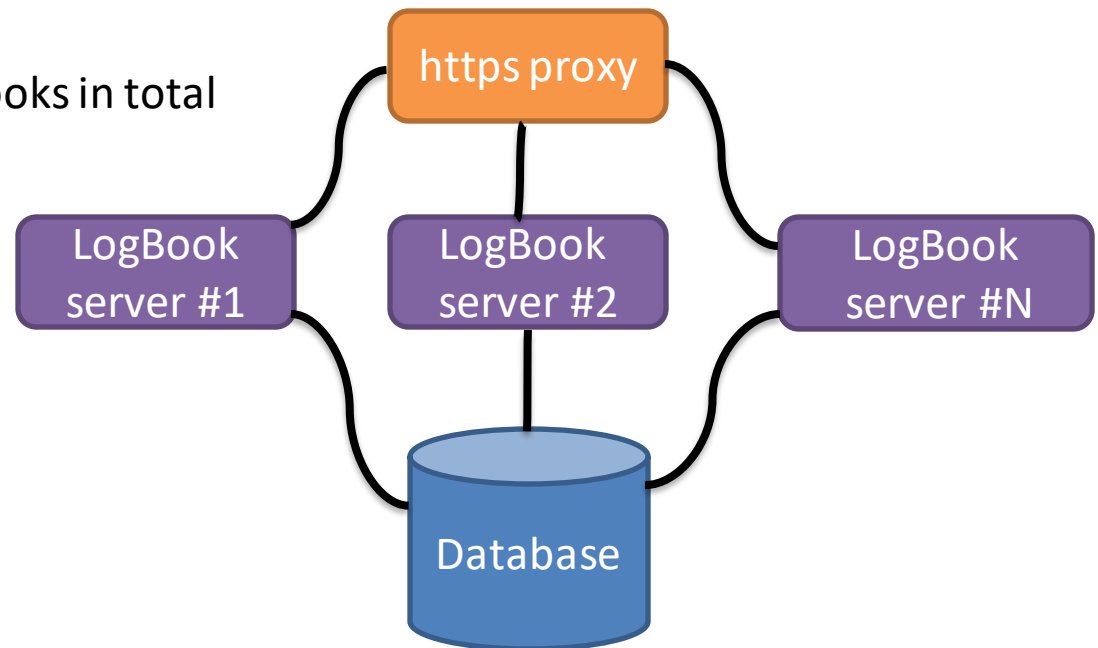
eLogBook main features:

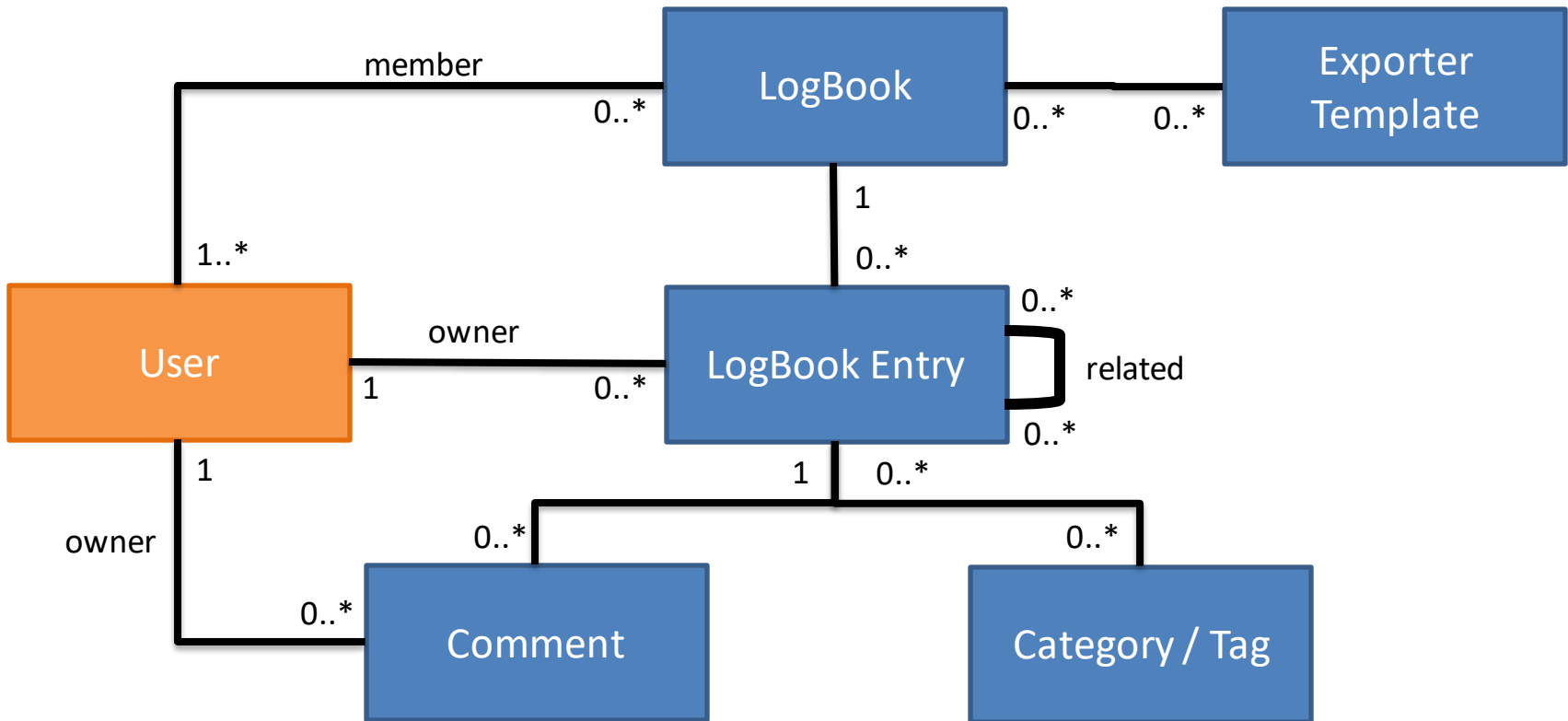
- **User management, user roles**
- **Structured data, timestamped series of entries, comments**
- **Support for text, images, tables, ...**
- **Export to document (pdf)**
- **API**
 - **→ automation from primary laser source**
 - **→ standardization towards "PaN logbook"**

Application framework:

- **Django:** web application framework written in Python 3
 - Authentication and authorization system
 - Template system
 - Database connectors with common Python based query interface
- **Mezzanine:** CMS (content management system) based on Django
 - Blog engine with forms and templates
 - WYSIWYG editing
 - Tagging system

- Docker: deployment system
- Ngnix https proxy
- Gunicorn (master/worker processes):
 - WSGI HTTP Server inside the docker container
- MySQL database
- Currently 7 servers, 44 logbooks in total





LogBook

It has a collection of users and a LogBook name and color. Admin users have special privileges.

Attributes:

- **Title:** it will be the name of LogBook.
- **Members:** list of the users who will be able to create Entries for this LogBook and view Entries which are assigned to the LogBook.
- **Admins:** list of the users who will have permission to change members list and other LogBook attributes.
- **Color:** LogBook color.

LogBook entry

Main content: text, images, tables

Attributes:

- **LogBook:** it refers to a specific *LogBook*. A LogBook entry will only be shown for LogBook members.
- **Owner:** creator and the one who can edit the entry later.
- **Categories:** this field contains the tags of LogBook entry.
- **Title:** it will be the name of LogBook entry.
- **Status:** this field gives the preparation state of LogBook entry. With Draft chosen, the post will only be shown for admin users.
- **Content:** this field contains the base information of LogBook entry.
- **Allow comments:** enabled flag of the comment block.
- **Related Entries:** list of the related Entries.

Exporters

Exporter component works based on templates. An export template describes how to insert elements (title, content, owner ...) from the chosen Entries into an exported version (pdf format) of these.

LDAP integration

It provides group based user management and can collect information (name, e-mail address, ...) from LDAP database.

User manager

This component provides opportunity to set LogBook membership and allow users to view or edit entities inside the system.

- **Admin:** can add or modify LogBooks and can configure LDAP dictionaries and user attributes.
- **LogBook Admin:** can manage user list of LogBook and modify attributes of Logbook.
- **User:** can create LogBook entries or comments if he or she is one of users of LogBook.

Log in

Username

required

Password

required

Log in

Base elements in LogBook were renamed in the new version:

- project - logbook
- blog post - logbook entry

For additional information, please read the help page: https://elog.eli-alps.hu/blog_help.html

LogBooks

All ▼

Entries

- 2021
 - May (17)
 - 17 (1)
 - 14 (1)
 - 13 (2)
 - 12 (1)
 - 11 (1)
 - 10 (2)
 - 07 (2)
 - 06 (2)
 - 05 (2)
 - 04 (1)
 - 03 (2)
 - April (12)
 - 30 (1)
 - 29 (1)
 - 26 (1)
 - 23 (1)
 - 16 (1)
 - 15 (2)
 - 12 (1)
 - 09 (1)
 - 08 (1)
 - 07 (1)
 - 06 (1)

Restart after maintenance day (05.17.)

Posted by: [REDACTED] at 2021-05-17 09:22:20 LogBook: ReMi-ES

[read more / 3 comments](#)

The procedures inside the ReMi ES and its associated systems are finished on this weekend.

2021.05.14. - 2nd test of the electron detector

Posted by: [REDACTED] at 2021-05-14 14:35:48 LogBook: ReMi-ES

[read more / 8 comments](#)

Pressures within the ReMi @ 12:30 (after almost 4 days of pump down):

First ramp up of the MCPs (05.13.)

Posted by: [REDACTED] at 2021-05-13 14:33:27 LogBook: ReMi-ES

[read more / 0 comments](#)

We have loaded the MCPs in the new configuration.

(1) MCPs have been tested in the HV and are working. The test has been done with the HV at 20 kV and the current is 100 nA.

We saw a nice linear curve between the input voltage and the measured current with the exception of 40-500 nA (at 2500 V). We have seen dark counts with the amplitude of 6-20 nA (using 2 MLAs with the amplification of 100 nA) and the amplification of 100 nA (dark count rate of 1000 cps) (observed with the SRS).

Results obtained:

The current is 40 nA at 2000 V with a nice quasi-linear voltage-current characteristic in the 10-2000 V range.

(2) Normal working conditions according to the secondary's detection on schematics:

Conditions:

Final voltage: 7-14 kV (1000 V) and 1000 V of the HV for all the MCPs with 100 nA current.

2021 05 13



UI - LogBook entries

+ Add LogBook entry

LogBooks

VMI-ES ▾

Entries

- 2021
 - May (7)
 - 13 (1)
 - 10 (1)
 - 07 (1)
 - 06 (1)
 - 05 (1)
 - 04 (1)
 - 03 (1)
 - April (6)
 - 30 (1)
 - 29 (1)
 - 26 (1)
 - 23 (1)
 - 16 (1)
 - 15 (1)
 - January (1)
 - 04 (1)
- 2020
 - December (2)
 - 10 (1)

Viewing posts for the LogBook VMI-ES

2021.05.13.

Posted by: [redacted] at 2021-05-13 08:18:34 LogBook: VMI-ES

[read more / 0 comments](#)

Pressures at 8:00:

Disassembling again (2021.05.10.)

Posted by: [redacted] at 2021-05-10 15:24:15 LogBook: VMI-ES

[read more / 0 comments](#)

Fully vented VMI and disassembled: remove mu metal shield and electrode connectors.

2021.05.07.

Posted by: [redacted] at 2021-05-07 12:50:00 LogBook: VMI-ES

[read more / 0 comments](#)

After yesterday's full venting of VMI-ES to atmosphere, the charge is still there (although at bit higher voltages).

2021.05.06.

Posted by: [redacted] at 2021-05-06 08:10:28 LogBook: VMI-ES

[read more / 3 comments](#)

Yesterday between 16:00 and 16:45 the VMI-ES was vented (10 - 100 mbar).

Jet system assembly #2 & Helmholtz-coil assembly - 03.30.

+ Add LogBook entry

LogBooks

All ▾

Entries

- 2021
 - May (17)
 - April (12)
 - March (5)
 - 31 (1)
 - 30 (1)
 - Jet system as
 - 29 (1)
 - 25 (2)
 - January (1)
- 2020

Draft entry

Feeds

RSS / Atom

LogBook: ReMi-ES

Posted by: at 2021-03-30 10:25:00

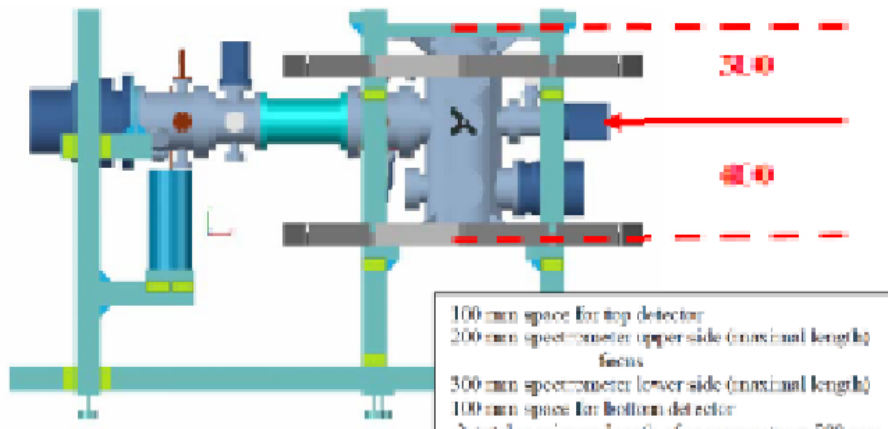
(2 comments)

10:00 Fixing the frames of the thin jet system and the main chamber together.

The wheels of the main chamber frame has to be removed by approx 3 centimetres to make the movement of the ReMi possible, when the bridge frame is fixed underneath.

The Helmholtz coils needs to be position by ~10 cm off from the beam height towards the bottom part of the chamber (see the image below).

With the standard setup configuration the interaction zone splits the chamber into two sides: 300 mm (typical for ion detection) and 400 mm (typical for electron detection). The center of the Helmholtz configuration should sit ~10 cm towards the electron side of the COLTRIMS-spectrometer (and not at the focal point).



Installation of vacuum gauges and turbos - 03.31.

LogBooks

All ▾

Entries

- 2021
 - May (10)
 - 17 (1)
 - 14 (1)
 - 13 (1)
 - 12 (1)
 - 11 (1)
 - 10 (1)
 - 07 (1)
 - 06 (1)
 - 05 (1)
 - 03 (1)
 - April (6)
 - 15 (1)
 - 12 (1)
 - 09 (1)
 - 08 (1)
 - 07 (1)
 - 06 (1)
 - March (5)
 - 31 (1)

LogBook: ReMi-ES

Posted by: at 2021-03-31 09:34:08

(1 comment)

File

Images specific to install the vacuum gauges, the turbo pumps, the BOA and the NEG pump. The connecting ports should be placed on the main vacuum chamber to a vacuum unit holder to be contacted.

Images

- Before installing the large pump at the end of the jet source, we should align the nozzle to the center of the first skimmer using the micrometers
- The NEG pump heater should be installed without the cover plate.
- The upward bottom flanges should be covered with the flange throughs.
- We have to start the calibration and installation of the BOA (after we finish the installation of the jet pump).

Two times (HFAcc 30) and 4 gauges were installed. The nozzle has been aligned with respect to the skimmer and the nozzle-skimmer distance along the jet propagation has been checked.

Due to a blackout in building W we had to finish the work by 14:00. Tomorrow we will continue with the assembly of the remaining (big) turbos.

New Comment

Name

required

Email

[Link](#) | [Reply](#)

2021-03-31 16:27:25



Available items for the authenticated users:

- **Logbook:** user can create LogBook or get a list of created instances.
- **Entries:** user can create an entry inside a user related LogBook or get a list of all entries from LogBooks where the current user has a membership.
- **Users:** user can list of public information about registered users.
- **Categories:** user can create a category or get a list of all categories.
- **Comments:** user can create a comment or get list of all comments from available entries, it depends on the LogBook membership.

Swagger based definition

<https://elog.eli-alps.hu/dev/api-swagger/>



Standard PaNOSC logbook API

- Core logbook functionality seems to be the same everywhere
- Logbook is an important source of metadata
- A well-defined API could provide
 - Adjust existing logbooks to conforming implementations
 - (Community-)shared development cost on conforming implementations
 - Cheap integration with (m)any cataloguing solutions
 - Expected outcome: standard logbook implementation



Thank you