

Automated ELOG System for Phase II

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Motivation

- Testbeam experience has shown that filling an elog by hand can be problematic
 - Missing or wrong information
- In the labs automated elog entries have been successfully used over the last months
 - PXD-Mass-Testing elog hosted @DESY
 - <https://elog.belle2.org/elog/PXD-Mass-Testing/>
- A similar system can be used for the PXD for phase 2
 - Automatically create elog entries at the start of each run
 - Store information about PXD CommitID, ONSSEN Firmware version, ...

Implementation

- Elog library (python) for the communication with an elog server already exists
 - Slight modifications needed to fulfill requirements for a BEAST II run elog
- Server/script needed that monitors the run status PV so that an entry is submitted when a run starts
 - Requires access to the run status PV, which network to use?
- Information that is put in the elog entry has to be available in the form of PVs and the 'server' needs access to these PVs
 - Are all PXD PVs in the same network? Onsen PVs?

Open questions

- What do we want to write in the elog messages? List of 'important' parameters need
- Where can the 'server' run to access all necessary PVs and have a connection to the elog hosted at DESY?
- How do we connect to the DESY elog?
 - In the lab we use an ssh tunnel, is this also possible at KEK?
What would be a better solution?