Automatic error diagnosis and recovery

Primary author: **Takuto Kunigo**

Contribution ID: #145





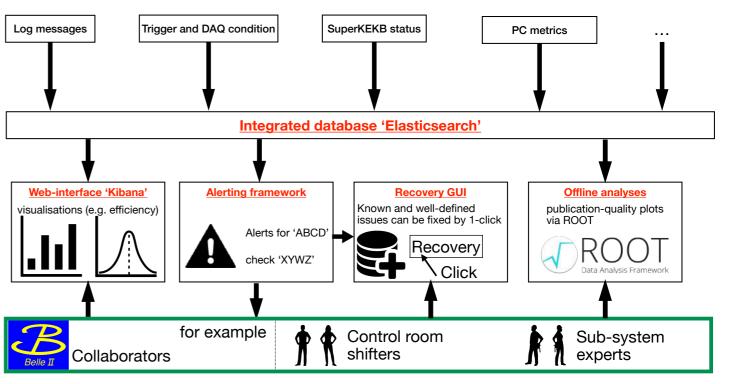
Belle II

- Search for new physics beyond SM using the data provided by SuperKEKB
- We should NOT lose any collision data
 - **Error diagnosis and Recovery** is a key

Error diagnosis and recovery

- Analyses on web-interface
- 1-click (manual) recovery on GUI
- Auto-pilot process
 - Automatic run-control
 - Automatic recovery
 - → Improved our data-taking efficiency minimising time without data-taking

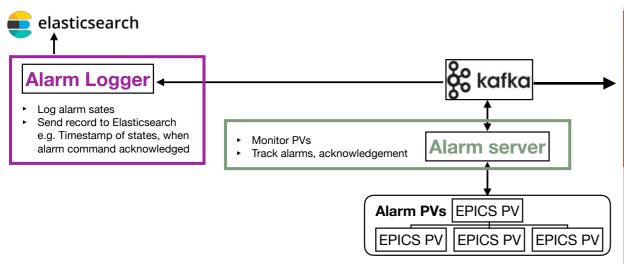
Almost all operational data

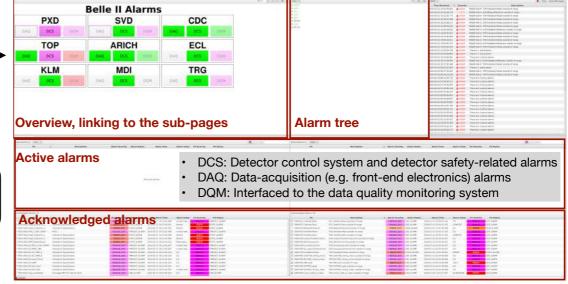


Presented in RT2022, <u>10.1109/TNS.2023.3240398</u>

Alarm system

- Not to miss any important events, especially on detector safety
- To help our operators to take correct actions





- Approximately 14k EPICS PVs
- Various types of PVs

