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PO11 - Design of the web Application for improving the management of the data at KOMAC

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A control system based on Experimental Physics and Industrial Control System (EPICS) has been implemented for the 100 MeV linear proton accelerator at the Korea Multi-purpose Accelerator Complex (KOMAC). Our control system is operated with over 20,000 Process Variables (PVs) and utilizes several services such as Phoenix alarm, Archiver Appliance and, Channel Access gateway, among others. The data, which includes the PVs value and the logs of service, need to be managed to identify the status of system. A web application has been developed using React and Elasticsearch, Logstash, Kibana, and Filebeat (ELK+Filebeat). This paper introduces the web services for archiving service logs. Especially, the data analysis web application is also introduced that we are developing using React with D3 library.

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Session Classification: Poster / Demo Sessions