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Beam-synchronous DAQ at SwissFEL test injector

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Summary

This talk gives an overview of the beam-synchronous data acquisition at SwissFEL injector test facility which is required for on-demand data collection to do correlation studies. I will show how we have achieved synchronous collection of the acquired data (EPICS channels) across separated IOCs with assistance of the event timing system and by using “only” the standard EPICS records (no custom record/device support). The mechanism has been built into a generic IOC software application package which can be installed on any IOC equipped with an event receiver and allows runtime configuration of most of parameters including channels to be collected etc.

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