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Controlling ESS Timing System using EPICS Normative Types

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The European Spallation Source Timing System is based on MRF hardware and mrfioc2 EPICS module and driver. In order to provide a flexible and EPICS based way to control our Timing System a software interface based on Normative Types was developed. This new interface was built using PVXS C++ library and the EPICS Normative Type used was the NTTable. The Timing IOC, CSStudio/Phoebus and associated middleware services are some of the software currently supporting the NTTables as part of this solution.

On this talk we will share all the steps, challenges and related implementations we had to perform in order to provide a complete software suite which allows controlling ESS Timing System in a very flexible way relying on NTTables.

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