

## EPICS Collaboration Meeting September 2022



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# Python based EPICS interface with CIP enabled devices

*Wednesday 21 September 2022 14:00 (5 minutes)*

Many industrial process control devices are in-use at ISIS Neutron and Muon Source like PLC (Programmable logic controller) and HMI (Human-machine interface) which are integrated with our current control VISTA using FINS (Factory Interface Network Service) protocol. Recently a project for the replacement of old PLCs was started to coincide with the VISTA to EPICS migration. Therefore a decision was made to integrate new PLCs with EPICS. After investigation, CIP protocol (Common Industrial Protocol) was chosen over FINS. This talk will describe work done on the implementation of a PVAccess-based EPICS interface written in python that periodically reads an array of CIP structures containing all related PV properties and populates them into PVAccess records.

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