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Beckhoff PLC motor record integration at ISIS

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This talk will cover the use of Beckhoff PLCs, utilising the TwinCAT V3 framework, at the ISIS Neutron and Muon source as our next-generation motion controller. We have been able to integrate TwinCAT devices into the EPICS motor record by using a custom level-3 motor record implementation along with ADSDriver and in turn AutoParamHandler. The Beckhoffs require some standard PLC template code to be implemented in order to map TwinCAT functions and variables to the EPICS motor record.

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