

ICALEPCS 2025 - The 20th International Conference on Accelerator and Large Experimental Physics Control Systems



Contribution ID: 520 Contribution code: TUPD047

Type: **Poster Presentation**

Update on migration to EPICS at the ISIS accelerators

Tuesday 23 September 2025 16:00 (1h 30m)

The ISIS Neutron and Muon Facility accelerators are migrating to an EPICS control system. The tools developed to run two control systems in parallel and to automate the migration of hardware and user interfaces to EPICS have been previously presented. We now detail our emerging EPICS setup. Hardware interfaces are implemented as a mixture of conventional EPICS IOCs, in-house developed equivalents in Python, and bridged through our old control system. Our user interfaces are primarily the Phoebus stack but web interfaces in Python are being explored, particularly to support machine learning purposes such as automated optimisation and anomaly detection. We present issues which may arise at any site in transition, such as handling continuity of data archiving

Footnotes

Funding Agency

Author: Dr FINCH, Ivan (Science and Technology Facilities Council)

Co-authors: KURUP, Ajit (Imperial College London); ALSHAFEI, Aqeel (ISIS Neutron and Muon Source); Dr HOWELLS, Gareth (Science and Technology Facilities Council); Dr FERNANDEZ HERNANDO, Juan (Science and Technology Facilities Council); Ms BAKER, Kathryn (Science and Technology Facilities Council); LEPUTA, Mateusz (ISIS Neutron and Muon Source); Mr ROMANOVSKI, Mihnea (Science and Technology Facilities Council); Mr RAY, Paul (Science and Technology Facilities Council)

Presenter: Dr FINCH, Ivan (Science and Technology Facilities Council)

Session Classification: TUPD Posters

Track Classification: MC02: Control System Upgrades in Existing Facilities