

# Data Acquisition and Management for Machine Physics and Experimental Beamlines with EPICS

*Monday, 7 April 2025 13:50 (20 minutes)*

Data acquisition architectures are full stack problems that impact instrumentation, FPGA based devices, timing distribution, drivers to integrate instrumentation, EPICS for online configuration and monitoring, fast storage of data, export and management of data. This report touches on the architecture and performance of system that have been deployed and a data management system that is under development.

**Primary author:** DALESIO, Leo (Osprey Distributed Control Systems)

**Co-authors:** ALLEN, Chris (Osprey Distributed Control Systems); MCCHESENEY, Craig (Osprey Distributed Control Systems); NORUM, Eric (Osprey Distributed Control Systems); DAVIDSAVER, Michael (Osprey Distributed Control Systems)

**Presenter:** DALESIO, Leo (Osprey Distributed Control Systems)

**Session Classification:** EPICS Plenary Session

**Track Classification:** Backend or Services