

# EPICS Cybersecurity Update

*Wednesday, 9 April 2025 11:40 (20 minutes)*

**Secure PVAccess (SPVA)** enhances the existing PVAccess protocol by integrating Transport Layer Security (TLS) with comprehensive Certificate Management, enabling encrypted communication channels and authenticated connections between EPICS clients and servers (*EPICS agents*).

This Project, funded by the the **Department of Energy** and Awarded to **Stanford National Accelerator Laboratory**, has been running for over a year and we are in the process of testing it in a number of Laboratories (*SLAC, ISIS, FNAL, ORNL*), integrating with their authentication systems including **Kerberos** and **LDAP**, to provide a robust integration with **EPICS Security (ACF)** for PV access control.

Here's an update of the state of the project, software availability, and a call for adopters especially LDAP and OAuth. Come to the workshops for a deeper dive:

- Thurs. 11:15 - 12:45: CyberSecurity Developers workshop
- Fri. 09:30 -12:45: CyberSecurity Administrators

**Primary author:** MCINTYRE, George (Level N Ltd)

**Co-authors:** Mr KASEMIR, Kay (ORNL); DAVIDSAVER, Michael (Osprey Distributed Control Systems)

**Presenter:** MCINTYRE, George (Level N Ltd)

**Session Classification:** EPICS Plenary Session

**Track Classification:** EPICS Core