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Control System Cyber Security Measures at the Advanced Photon Source

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Large accelerator facilities such as the Advanced Photon Source (APS) typically are operated by a diverse set of integrated control systems such as IOCs, PLCs, and FPGAs. At APS, the supervisory controls software that connects and unifies these programmable units is Experimental Physics and Industrial Control System (EPICS). Layered on top of EPICS is the relational database Web-viewable software tool Integrated Relational Model of Installed Systems (IRMIS) that was designed and implemented at APS to provide intuitive and easily navigated views of the APS control system software and hardware components. This layered control system structure at APS comes with inherent cyber security risks. The software security measures that have been investigated and are available for the APS control system are presented in this paper.

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