

Control-system cyber-security operational practices at SOLEIL

Sunday 8 October 2017 10:10 (25 minutes)

SOLEIL is a synchrotron facility near Paris, France, opened since 2006.

SOLEIL covers fundamental research needs in physics, chemistry, material sciences, life sciences, earth sciences, and atmospheric sciences.

29 beamlines are currently open to users, with approximately 6300 hours of beamtime and 2500 users per year.

Accelerators and beamlines equipment are controlled using the Tango distributed Object Oriented framework

The talk will present SOLEIL IT teams operational practices to manage cyber security on its Control Systems.

In particular the following items will be addressed during the talk:

- Security policies and organisational rules
- Control Systems Overview
- TCP/IP networks topologies and firewalling rules
- Expert connections to the control systems for daily operation
- End users access and authentication rules and practices
- Connection of PCs and network controlled objects to control systems
- Software development cycle and system configuration management

Being conscious that Cybersecurity is (and will be) a major concern in the future, we will also present our short term actions to enhance the present situation , trying to keep a good balance between security and operational needs.

Summary

Presenter: BUTEAU, Alain (Soleil)