



Contribution ID: 70

Type: **Regular Talk (15min)**

Plans for EPICS V4 at the European Spallation source

Wednesday, September 21, 2016 11:15 AM (15 minutes)

The European Spallation Source is presently in construction in Lund, Sweden. The ESS a green field facility, which gives us the opportunity to build a system without legacy constraints. One of the goals for the control system is to be fully EPICS 4 compliant, that is, use pvAccess as the sole protocol in the control system.

To accomplish this, a comprehensive set of tools and services has to be put together. Although they have been built and also used in other facilities, until now have all the services been used together in a single place as a coherent set.

Using EPICS 4 facilities will change the way in which control systems of scientific facilities work. Many new features will become possible, handling complex and large data becomes an integrated function of the control system. We present some ideas how to take advantage of this. However, we have only started to imagine yet the biggest impacts.

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Session Classification: V4

Track Classification: EPICS Core, EPICS V4