

Sardana/IcePAP based control system for elliptically polarized undulator at Max IV

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Describes a redesign of the Tango/GalilBox based control system for the elliptically polarized undulator to the standardized MAX IV Sardana/Icepap motion control platform.

Overview of the redesigned control system, the motion control and software solutions will be presented.

The operation of the machine will be explained, with emphasis on movement synchronization, machine calibration and position correction mechanisms.

Furthermore, some design and implementation challenges, as well as technical issues will be discussed.