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Libera instruments integration with control systems

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Libera instruments have been used with various control systems for several years. In line with the latest security and functionality upgrades, Libera control system interfaces have also been upgraded. EPICS interface in Libera instruments has been upgraded to support the latest EPICS BASE version 7.0.9, which enables users to use the PVA protocol and retrieve more signal data in a single call. Group PVs, allowing atomic access to all signal components, were also added. Furthermore, similar parameters, such as sensors, can be grouped on the Libera side already and provided to PVA clients in a single PV. The TANGO interface has been upgraded to version 9.5. It supports flexible configuration where DeviceClasses can be configured for each board type individually. The interface has also been extended with TANGO alarm and logging functionalities. Both interfaces, EPICS and TANGO, can run on the Libera instrument or they can now be compiled and run from an external server station. This network architecture enables easier maintenance and upgrades. This paper details all recent updates and improvements to the Libera control system interfaces and presents possible use cases.

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Footnotes

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