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Multi-purpose Regulation Loops in BLISS

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BLISS, the ESRF beamline control system, in production since the ESRF-EBS upgrade, provides a framework to ease and standardize the integration of a variety of regulation devices (like temperature or pressure controllers). Thanks to a generic API, users can define custom regulation systems by combining BLISS objects e.g. a probe and a motor can be declared as Input and Output of a software loop with its own PID control. Real-time plotting of PID loop parameters allows easy tuning and monitoring of values directly in Flint, the BLISS data online visualization tool. The framework also brings extra features to control regulation loops directly from the shell or as background tasks. Any BLISS regulation loop can be exported as a Tango device in order to share hardware over multiple clients or to bridge with other systems.

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