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Integrating real time control applications into different control systems

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Porting complex device servers from one control system to another is often a major effort due to the strong code coupling of the business logic to control system data structures.

Together with its partners from the Helmholtz Association and from industry, DESY is developing a control system adapter as part of the MTCA4U tool kit. It allows to write applications in a control system independent way, while still being able to update the process variables and react on control system triggers. Special attention has been paid to make the implementation thread safe and real time capable, while still providing the required abstraction and avoiding performance losses.

We report on the status of the project and the plans to implement new features.

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