

Power Converter Interlock

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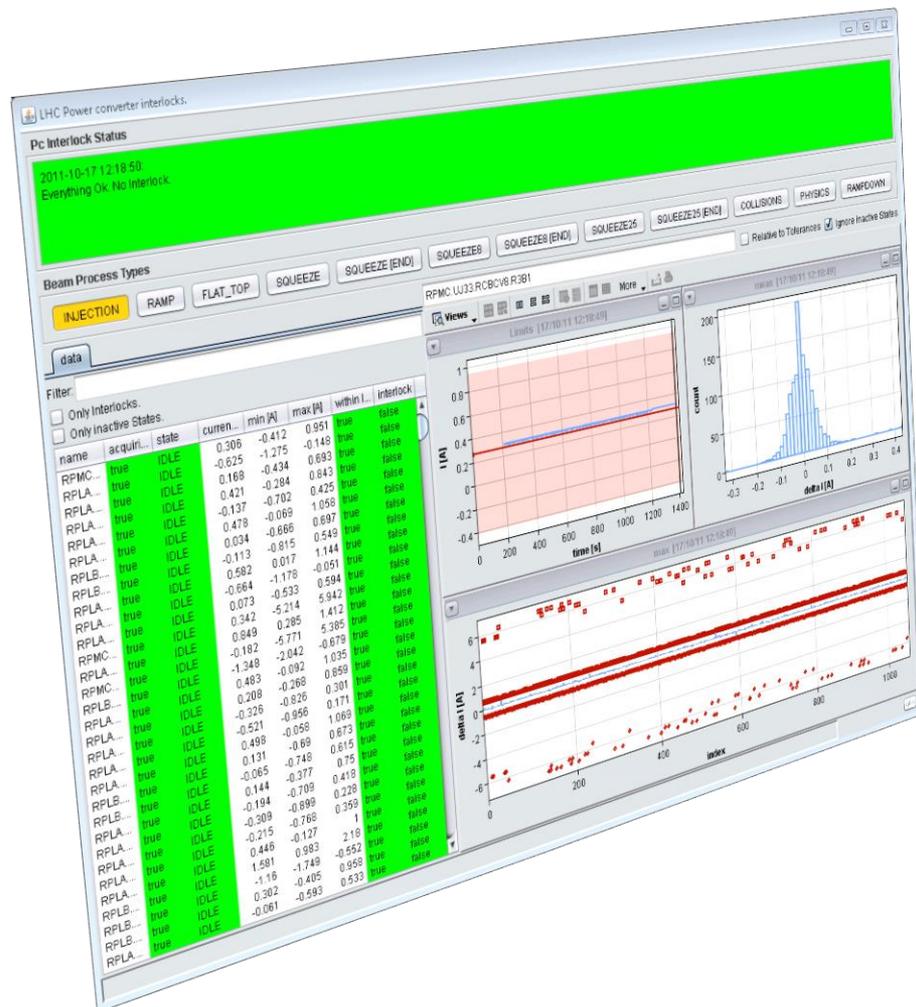
Purpose: Software interlock system to monitor power converter currents and dump the beam if they exceed certain limits to protect against operation- and feedback- failures.

Status:

- Server and GUI application in place.
- Tracking of LHC status (beam process, time within beamprocess) works.
- Acquisition & Decision-taking works.
- Configuration-management (storing tolerances in LSA + reusing GUI from YASP): in preparation.
- Currently Commissioning and Testing.

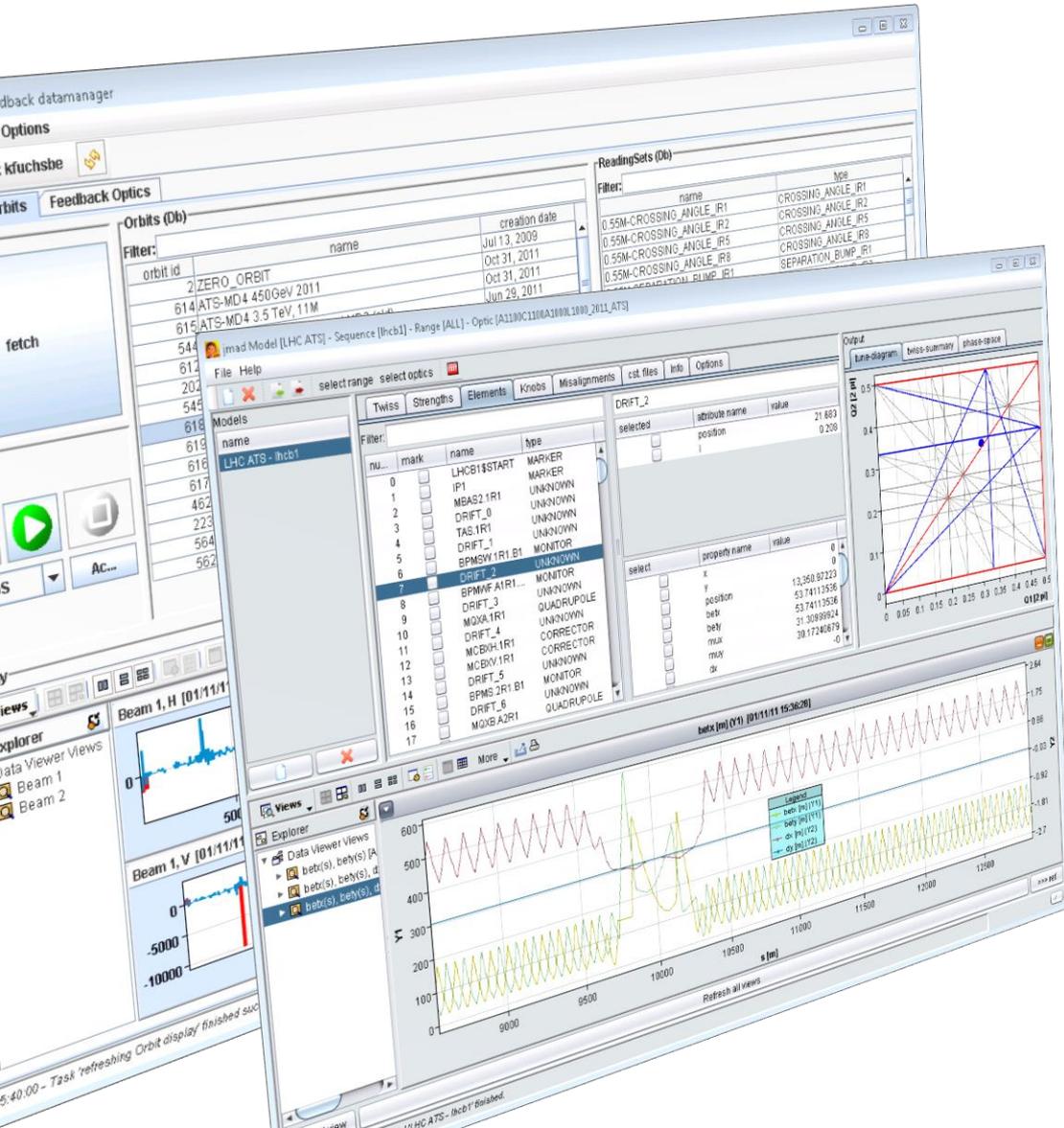
Next steps:

- More logging to establish reasonable tolerances.
- Fix some threading- and memory issues in Server.



Collaboration with BE-OP

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- Maintenance of Reference Orbit Management System for the LHC Orbit Feedback (GUI + Sequencer Tasks).
- Improving the automated Test Suite for the LHC Orbit Feedback System.
- Consulting and Coordinating Developments in the LHC online modeling chain related to JMad (Java API for MadX).