

**THE INTEGRATION OF BOOSTER AND STORAGE RING
CONTROL SYSTEMS IN SYNCHROTRON RADIATION
RESEARCH CENTER**

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The old control system of SRRC is a turnkey project from a foreign vendor in 1992. Since the difference in design philosophy, inconvenience to maintenance personnels and closure aspect inherited, we have reached the consensus to replace the original MULTibus based local system with VMEbus based Intelligent Local Controller (ILC). After this replacement, it enables us to integrate booster control system into storage ring's. That means two original heterogeneous and unrelated systems become of a homogeneous, unified and collaborating aggregate from machine researcher and operator's points of view. What benefit from this project are more versatile environments for machine research, more opened architectures for machine upgrading or modifying capacity, less efforts for facility maintenance and more advanced methodology for machine performance enhancements.