MTA Mandate

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Mandate

• To develop turnkey solutions for measurement & test systems and data analysis applications for accelerator components, based on LabVIEW and a selected set of National Instruments’ (NI) and Alliance Members’ products, mainly based on the PXI and cRIO platforms.

• To develop and maintain a framework for Rapid Application Development (RADE) based on LabVIEW, used in accelerators and experiments, which includes interfaces to accelerator middleware, access control, data bases and timing.

• To develop and maintain the integration of LabVIEW real-time systems in the accelerator infrastructure based on controls’ middleware and timing (GMT and White Rabbit).

• The section is responsible for LHC Post Mortem Analysis software and the LHC collimator and goniometer low-level control software in LabVIEW RT and FPGA.

• We provide CERN-wide support for LabVIEW desktop, real-time and FPGA and organise training in collaboration with the CERN technical training and NI.

• The section is responsible for the contracts with NI and INCAA Computers.

Links

• Technology
• RADE (Rapid Application Development Environment framework)
• Old LabVIEW Support
• PXI support
• PXI FMC Carrier (new!)
• cRIO White Rabbit (new!)
• Stand-by service

Internal Links

• MTA-Examples
• MTA-Guides
• MTA-Projects