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The WaveCatcher in the DAQ of the UA9 Experiment

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The UA9 Experiment investigates the use of components based on bent crystals in particle accelerators to improve the performance of beam steering and beam collimation.
The main installation of the experiment is in the CERN Super Proton Synchrotron and is composed of a dozen of beam-intercepting devices, few tens beam loss monitors and few beam-intercepting Cherenkov and pixel detectors.
In the last years, the acquisition system of the beam loss monitors and the Cherenkov detectors has been completely redesigned using WaveCatcher boards.
Dedicated control software has been developed to operate the boards from the CERN Control Center and to integrate the data stream with the Accelerator Logging Service.
The design and the characteristics of the system are presented.
Lessons learnt, advantages of this implementation and possible improvements for a future system are discussed

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