

Tools and procedures for high quality technical infrastructure monitoring reference data at CERN



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The monitoring of the technical infrastructure at CERN relies on the quality of the definition of numerous and heterogeneous data sources. In 2006, we introduced the MoDESTI procedure for the Technical Infrastructure Monitoring (TIM) system to promote data quality. The first step in the data integration process is the standardisation of the declaration of the various data points, whether these are alarms, equipment statuses or analogue measurement values. Users declare their data points and can follow their requests, monitoring personnel ensure the infrastructure is adapted to the new data, and control room operators check that the data points are defined in a consistent and intelligible way. Furthermore, rigorous validations are carried

out on input data to ensure correctness as well as optimal integration with other computer systems at CERN (maintenance management, geographical viewing tools etc.). We are now redesigning the MoDESTI procedure in order to provide an intuitive and streamlined Web based tool for managing data definition, as well as reducing the time between data point integration requests and implementation. Additionally, we are introducing a Class-Device-Property data definition model, a standard in the CERN accelerator sector, for a more flexible use of the TIM data points.

