

INTEGRATION AND USAGE OF AN INDUSTRIAL NETWORK MANAGEMENT SYSTEM IN AN ACCELERATOR CONTROLS ENVIRONMENT

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In the last years the CERN accelerator networks infrastructure has been upgraded to the highest industrial standards. A commercially available network management tool has been selected to monitor and optimise the usage of the created infrastructure. HP Openview Network Node Manager provides concise and in-depth views of network, and devices connected with their operational status. It provides instant failure detection, can supply alarm information and gathers statistics to allow proactive maintenance thus reducing network congestion and downtime. The heterogeneous community of equipment as installed around CERN's PS, SPS and LEP accelerator complex can be monitored in a uniform manner from a single entry point. The integration of a network specialists tool into the accelerator operations environment required additional developments in information reduction and presentation to create intuitive graphical displays related to the accelerators geographical and functional situation. This report describes the integration of the most recent version of the HP Openview NNM in the CERN Accelerator's Controls System and details the accelerator controls specific developments