

A graphical approach to CMMS : Latest developments in the CERN Cooling and Ventilation group

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The EN/CV group is responsible for ventilation and cooling water systems for the accelerator and experimental facilities at CERN. EN/CV currently utilizes the INFOR EAM CMMS to track all its maintenance activities. In order to improve interaction with the CMMS, EN/CV has looked for ways to provide a more graphical interface to this data. Typically, within the process industry, Process and Instrumentation Diagrams (P&IDs) aid engineers to visualise the interconnection of equipment and to fully understand the installation process. It was therefore decided that the P&ID would be an ideal basis for delivering maintenance-related additional information. To this end, EN/CV is currently developing a software component that adds maintenance tools to a commercial drawing software application. Any updates and changes to the documentation for an installation can be performed directly within the P&ID document, validated and synchronised with the CMMS. The graphical environment of the P&ID allows the engineer to visualise the system together with its underlying data; this approach provides several benefits such as quick location of equipment, reduction in user input errors and more importantly, it gives easy access to critical management information and aids in decision making processes. The presentation will show the status of the project and discuss about future developments.

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