

AMS – ALARM MANAGEMENT SYSTEM

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Abstract

Alarm management is a mandatory component of today's control systems. The widely distributed process controls for the x-ray free electron laser facility XFEL being build at DESY in Hamburg, Germany will increase the demands for a reliable and functional alarm management system. Today's alarm tools like the EPICS alarm handler may be used for alarm display but they lack management functionalities. The new alarm management system comprises all levels of alarm handling: Collection, store and forward, display as tables and trees, persistent store, archive, archive retrieval, filtering, actions behind filters and distributors. Distributors are issuing actions in the form of (JMS) messages, GSM-SMS or Email. The new alarm system is fully integrated into the CSS framework including views and configuration editors. Alarms as well as log messages are handled by a set of redundant ActiveMQ servers which implement the Java Message Service (JMS) specified by SUN. This paper will describe the whole alarm management system which is based on open source software and independent from control system specific implementations.

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