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Status of the Configuration Information System for the NICA Experiments

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The Configuration Database is an essential part of a complex of information systems, which have been developed for the experiments of the NICA project at the Joint Institute for Nuclear Research. The developed database stores both a set of various configuration parameters, such as those required for setting the detectors into operation modes, for instance, a working voltage, and descriptions of a sequence of software tasks to be started and run during experiment sessions. The corresponding Configuration Information System presented in the report is based on the implemented database and provides configuration information for data acquisition and other online processing systems, activating those hardware setups, that are needed in the current experiment session. In addition, the system starts described software tasks in a required sequence and allows managing them during sessions, including transmission of messages between tasks and updating some properties. The architecture of the Configuration Information System is presented as well, which has been implemented using client-server model, where the server ensures interactions with the Configuration Database, and the client has been developed as a Web application to view and edit configuration parameters by users.

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