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P2.008 West Operation management Software Suite (WOSS): software assisting organization and follow-up of West operation

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In order to operate a large research facility, one needs software tools assisting the organization and the operation follow-up. In the past, separated software tools were used on Tore Supra but for West, an integrated approach was chosen. The West Operation management Software Suite (WOSS) allows a streamline management of information from the planned program up to the realized experiments and the follow-up of the West technical status. The WOSS is split up in six modules: Timeline, Roster, Logbook, Physics summary, Systems status, Incidents.

The Roster module is implemented to schedule experimental campaign with daily experiment information, including links to the experiment description and the list of people who takes part in each experiment, while the Timeline module shows a multi-month calendar of experiments.

Follow-up of daily experiment is ensured by the Logbook module. The Logbook collects data and comments from responsible officers carrying out experiments on pulse by pulse basis. The Physics summary module, extracting data from logbooks, provides an overview of the current experimental session and is displayed in the control room.

The Incident and the Systems status modules support the monitoring of West sub-systems. All the operation incidents that happened on any West systems are dully collected in the Incident module as well as current and foreseen status of subsystems are published on the System Status module. Thanks to the integrated database concept, incidents and status data are shown in real time on the Logbooks.

The WOSS deal with a large quantity of information and is of precious help for the coordination support unit. In the article will be reported, how the WOSS is facilitating the coordination by grouping all information of each sub-system needed for the operation. Moreover, the article will present a report of the last campaign with an analysis of West sub-systems availability.

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