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CMS Dashboard Task Monitoring: A user-centric monitoring view.

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Dashboard is a monitoring system developed for the LHC experiments in order to provide the view of the Grid infrastructure from the perspective of the Virtual Organisation. The CMS Dashboard provides a reliable monitoring system that enables the transparent view of the experiment activities across different middleware implementations and combines the Grid monitoring data with information that is specific to the experiment. The scientists must be able to monitor the execution status, application and grid-level messages of their tasks that may run at any site within the Virtual Organisation. The existing monitoring systems provide this type of information but they are not focused on the user's perspective. Information towards individual users is not easily available at present or even non-existent. The CMS Dashboard Task Monitoring project addresses this gap by collecting and exposing a user-centric set of information to the user regarding submitted tasks. It provides a clear and precise view of the status of the task including job distribution by sites and over time, reason of failure and advanced graphical plots giving a more usable and attractive interface to the analysis and production user. The development was user driven with physicists invited to test the prototype in order to assemble further requirements and identify weaknesses with the application. The solutions implemented and insight into future development plans are presented here.

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