

Development and operational experience of the web based application to collect, manage, and release the alignment and calibration configurations for data processing at CMS

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Alignment and calibration workflows in CMS require a significant operational effort, due to the complexity of the systems involved. To serve the variety of condition data management needs of the experiment, the alignment and calibration team has developed and deployed a set of web-based applications. The Condition DB Browser is the main portal to search, navigate and prepare a consistent set of calibrations to be consumed in reconstruction of data for physics. It also hosts various data management tools for the conditions including a customized display for certain calibration sets, an automatic user-defined notification agent for updates, a logging service for the user and the automatic online-to-offline uploads. In this presentation we report on the operational experience of this web application from 2017 data taking, with focus on new features and tools incorporated during this period.

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