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## Migration of CADI to Fence

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CMS Analysis Database Interface (CADI) is a management tool for physics publications in the CMS experiment. It acts as a central database for the CMS collaboration, keeping track of the various analysis projects being conducted by researchers. Each analysis paper written by the authors goes through an extensive journey from early analysis to publication. There are various stakeholders involved in that process who can provide their comments/feedback and may be involved in the approval/disapproval process of the analysis. Front End Engine for Glance (FENCE) is a technology developed by the UFRJ team that emerged to unify and facilitate the development of UFRJ-CERN collaboration systems. It allows system interfaces to be created by simply editing a configuration file in JSON, without the need for deep programming knowledge of users and changing the system's internal source code. Thus, the current system of ATLAS experiment, which uses the Glance technology in its foundation and FENCE as an abstraction layer above, is developed, allowing users to access the heterogeneous data sources related to the experiments in a simple and efficient way. Originally developed by ATLAS, it was recently redesigned by LHCb following a more modular architecture –splitting the code base in a PHP based RestAPI backend and a VueJS based frontend service –and this version was also adopted for use in the LHCb and Alice experiments. CMS decided to migrate CADI to the new version of the FENCE system. For CMS, two subsystems of the FENCE system are initially considered: the “membership” and “analysis life cycle management”(ALCM). The membership subsystem is a prerequisite of ALCM. It contains information on members, institutes, authorships, and various reports. In contrast, the ALCM subsystem is primarily used for the management of publication workflows like CADI. In this talk, we'll describe the procedure that we followed to migrate CADI to FENCE. We encountered various issues during this process and will report the lessons learned while doing this migration so that other experiments in future will not have to undergo these issues if they migrate their system to FENCE.

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