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## The ALICE Glance Shift Accounting Management System

ALICE (A Large Ion Collider Experiment) is an experiment at the CERN LHC (Large Hadron Collider) studying the physics of strongly interacting matter and the quark-gluon plasma.

The experiment operation requires a 24 hours per day and 7 days a week “shift” crew at the experimental site, composed by the ALICE collaboration members. Shift duties are calculated for each institute according to their correlated members. In order to ensure the full coverage of the experiment operation as well as its good quality, the ALICE Shift Accounting Management System (SAMS) is used to manage the shift bookings as well as the needed training.

ALICE SAMS is the result of a joint effort between the Federal University of Rio de Janeiro (UFRJ) and the ALICE Collaboration. The Glance technology, developed by the UFRJ and the ATLAS experiment, sits at the basis of the system as an intermediate layer isolating the particularities of the databases.

In this paper, we describe the ALICE SAMS development process and functionalities. The database has been modelled according to the collaboration needs and is fully integrated with the ALICE Collaboration repository in order to access members information and respectively roles and activities. Run, period and training coordinators can manage their subsystem operation and ensure an efficient personnel management. Members of the ALICE collaboration can book shifts and on call according to pre-defined rights.

ALICE SAMS features a user’s profile containing all the statistics and user contact information as well as the Institutes profile. Both the user and institute profiles are public (within the scope of the collaboration) and show the done over due credit balance in real time. A shift calendar allows the run Coordinator to plan data taking periods in terms of which subsystems shifts are enabled or disabled and on call responsables and slots. An overview display presents the shift crew attending the control room and allows the run coordination team to confirm the presence of both regular and trainees shift personnel, necessary for credit accounting.

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