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## A new communication framework for the ALICE Grid

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Since the ALICE experiment began data taking in late 2009, the amount of end user jobs on the AliEn Grid has increased significantly. Presently 1/3 of the 30K CPU cores available to ALICE are occupied by jobs submitted by about 400 distinct users. The overall stability of the AliEn middleware has been excellent throughout the 2 years of running, but the massive amount of end-user analysis and its specific requirements and load has revealed few components which can be improved. One of them is the interface between users and central AliEn services (catalogue, job submission system) which we are currently re-implementing in Java. The interface provides persistent connection with enhanced data and job submission authenticity. In this paper we will describe the architecture of the new interface, the ROOT binding which enables the use of a single interface in addition to the standard UNIX-like access shell and the new security-related features.

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