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Advancements and Operations for LHC Run-3 and beyond

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The aim of this paper is to give an overview of the progress made in the EOS project - the large scale data storage system developed at CERN - during the preparation and during LHC Run-3. Developments consist of further simplification of the service architecture, metadata performance improvements, new memory inventory and cost & value interfaces, a new scheduler implementation, a generated REST API derived from the GRPC protocol, and new or better integration of features such as SciTags and SciTokens. We will report on operational experiences and the massive migration process to ALMA9, improvements in the quality assurance process and results achieved. Looking to the future, we will describe the development and evolution of EOS for Run-4 and highlight various software R&D and technology evaluation activities (e.g. SMR support) that have the potential to help realize the Run-4 requirements for physics storage at CERN and elsewhere.

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