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EOS latest developments and operational experience

EOS is an open-source storage system developed at CERN that is used as the main platform to store LHC data. The architecture of the EOS system has evolved over the years to accommodate ever more diverse use-cases and performance requirements coming both from the LHC experiments as well as from the user community running their analysis workflows on top of EOS. In this presentation, we discuss the performance of the EOS service during the 2025 Run and also outline the latest developments targeting diverse areas like file system consistency checks improvements, deployment of a high-availability setup for the metadata service, namespace locking and performance optimizations as well as other topics. Apart from new developments, we also discuss changes in the deployment model, especially moving to a native HTTP approach and the commissioning of the GRPC interface used by the CernBox service. To conclude the presentation, we outline some of the key achievements from 2025 that make us confident our system is fully prepared for the challenges that wait ahead as we approach the end of Run 3 and the preparation for High Luminosity LHC.

Desired slot length

20

Speaker release

Yes

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