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ALICE O2 storage with EOS

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ALICE is upgrading the detector and the data processing to allow the collection, the processing and the analysis of 50kHz of PbPb collisions starting 2021. ALICE will run with no trigger selection and the data from the electronics front-ends will be collected in a continuous way and organised in 20-ms Time Frames. All Time Frames will be processed online to achieve a compression factor of the order of 35, reducing the raw data from a 3.5 TB/s to about 100 GB/s. The compressed Time Frames will be stored on EOS before tape archival, further processing and data distribution.

In this presentation we review the design parameters, the current status of the prototyping and the plans for the final system and its operation during the next years.

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