Contribution ID: **51**   Type: **10 Minutes**

High-capacity, high-throughput EOS storage for ALICE data taking

Monday 7 March 2022 09:55 (20 minutes)

The ALICE detector and data acquisition system was substantially upgraded for Run3 and beyond. One of the main elements of the upgrade was the O2 processing cluster, which compresses the detector data in real time. The output of the compression is then written to EOS buffer for subsequent asynchronous data processing and archival. The requirements for the EOS storage are substantial: 120GB/sec write speed, 40GB/sec read speed and 100PB of total capacity. In addition, EOS must offer a sufficient data protection through erasure coding for the data until it is copied to archival storage. This presentation shows the ALICE experience with the EOS buffer deployment, testing and in production.

Primary author: BETEV, Latchezar (CERN)

Presenter: BETEV, Latchezar (CERN)

Session Classification: EOS 1

Track Classification: Erasure Encoding