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## Quality of Service (QoS) for cost-effective storage and improved performance

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The anticipated increase in storage requirements for the forthcoming HL-LHC data rates is not matched by a corresponding increase in budget. This results in a short-fall in available resources if the computing models remain unchanged. Therefore, effort is being invested in looking for new and innovative ways to optimise the current infrastructure, so minimising the impact of this shortfall.

In this paper, we describe an R&D effort targeting “Quality of Service” (QoS), as a working group within the WLCG/DOMA activity. The QoS approach aims to reduce the impact of the shortfalls, and involves developing a mechanism that both allows sites to reduce the cost of their storage hardware, with a corresponding increase in storage capacity, while also supporting innovative deployments with radically reduced cost or improved performance.

We describe the strategy this group is developing to support these innovations, along with the current status and plans for the future.

### Consider for promotion

No

**Primary authors:** MILLAR, Paul; BARISITS, Martin (CERN); LASSNIG, Mario (CERN); ESPINAL, Xavier (CERN); KEEBLE, Oliver (CERN); Dr KARAVAKIS, Edward (CERN); FUHRMANN, Patrick; SCHULZ, Markus (CERN)

**Presenter:** LASSNIG, Mario (CERN)

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