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Making Reva talk to EOS: ultimate scalability and performance for CERNBox

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The Reva component, at the heart of the CERNBox project at CERN
will soon get new plugins that build on the experience
accumulated with the current production deployment,
where its data is stored centrally in a system called EOS. EOS
represents since 10 years the ultimate development effort
into providing an extremely scalable data storage system that
supports the demanding requirements of the massive physics analysis,
together with the more regular requirements of a wider community (scientists, engineers, administration):
synchronisation and sharing, online and universal access and real time collaborative workflows.

Making Reva natively interfaced to EOS through high performance gRPC
and standard HTTPS interfaces will open a new scenario in terms
of scalability and manageability of the CERNBox service,
whose requirements in terms of data will continue to grow in the
next decade. In this contribution we will technically introduce
this near-future scenario.

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