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dCache project status & update

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The dCache project provides open-source software deployed internationally to satisfy ever-more demanding storage requirements. Its multifaceted approach provides an integrated way of supporting different use-cases with the same storage, from high throughput data ingest, data sharing over wide area networks, efficient access from HPC clusters, and long term data persistence on tertiary storage. Although dCache was originally developed for HEP experiments, today it is used by various scientific communities, including astrophysics, biomed, and life science, each with its specific requirements. To match the requirements of these new communities and keep up with the scaling demands of existing experiments, dCache evolution is a permanent ongoing process. With this contribution, we would like to highlight the recent developments in dCache regarding integration with CERN Tape Archive (CTA), advanced metadata handling, token-based authorization support, bulk API for QoS transitions, RESTAPI to control interaction with the tape system, and future development directions.

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