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dCache and cloud services

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Historically, the dCache Technology was designed to provide a highly scalable Multi-Petabyte Storage System for GRID Infrastructures, providing the necessary access and authentication protocols as well as automatic data replication and media selection, guaranteeing high data throughput even under heavy load and a typical scientific chaotic access profile.

Due to the rapid evolution of the "Big Data" awareness and the new Sync'n Share Cloud semantics, dCache extended it's access layers to provide the necessary features and to fully support the typical scientific data life cycle use-cases.

During the presentation we intend to demonstrate a typical data workflow, including ingestion, processing of the input data, wide area transfers with commonly available tools and services, as well as sync'ing results with mobile devices and sharing them with colleagues using standard Web 2.0 technologies. We'll prove that dCache offers the most optimized standard access and authentication protocols for the various steps.

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