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Object-based storage integration within the ATLAS DDM system

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In this paper, we'll talk about our experiences with different data storage technologies within the ATLAS Distributed Data Management
system, and in particular about object-based storage. Object-based storage differs in many points from traditional file system
storage and offers a highly scalable, simple and most common storage solution for the cloud. First, we describe the needed changes
in the Rucio software to integrate this technology, then we present for which use cases we have evaluated them. Finally, we conclude
by reporting the results, performances and the potential future by exploiting more of their specificities and features, like metadata
support.

Tertiary Keyword (Optional)

Object stores

Secondary Keyword (Optional)

Storage systems

Primary Keyword (Mandatory)

Distributed data handling

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