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EOS, DPM and FTS developments and plans

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The CERN IT-ST Analytics and Development section is responsible for the development of Data Management solution for Disk Storage and Data Transfer, namely EOS, DPM and FTS.

The talk will describe some recent developments in those 3 software solutions

EOS

The integration and evaluation of various technologies to do the transition from a single active in-memory namespace to a scale-out implementation distributed over many meta-data servers. The new architecture aims to separate the data from the application logic and user interface code, thus providing flexibility and scalability to the namespace component.

DPM

The implementation of a new core daemon (DOME) based on the fast-CGI and RESTful technologies. This brings the opportunity of working in a totally SRM-free mode, the implementation of quotas, free/used space on directories, and the implementation of volatile pools that can pull files from external sources, which can be used to deploy data caches.

FTS

The extension to better support data transfer workflows between Grid, Cloud and HPC systems. This includes FTS3 implementing protocol translations and performing efficient 3rd party transfers over HTTP. One of the core component (Optimizer) has been also rewritten to allow ranges of active transfers and better exploitation of the network resources.

Primary author: MANZI, Andrea (CERN)

Presenter: MANZI, Andrea (CERN)

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