WLCG DOMA kick-off Executive Summary

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Introduction

- WLCG/HSF workshop Data Management sessions:
 - https://indico.cern.ch/event/658060/
- April GDB:
 - https://indico.cern.ch/event/651352/
- WLCG DOMA kick off meeting:
 - https://indico.cern.ch/event/729930/
- June GDB (last week):
 - https://indico.cern.ch/event/651354/
- This is the executive summary of the kick-off meeting and the following discussions at the GDB
- DOMA egroup (self subscribe): wlcg-doma@cern.ch



DOMA activities

Storage Services

- ➤ Define and implement storage Quality of Service
- > Standardize the storage management tools
- > Share experience with distributed storage services

Protocols

- ➤ Commission alternative protocol to gridFTP for 3rd party transfers
- ➤ Move toward SRM-free data management

Caching and Latency-Hiding

- Client-Level caching (TTreeCache and WN asynch prefetch)
- Site-Level Caching (ARC, xCache, HTTP caches)



Workflows and DOMA

Integrate the concepts of QoS and Caching into the workflows to optimize cost

- Integrate workflows with QoS
 - ➤ E.g. Tape Carousels. The archival Storage WG ("best practices for tape system usage and identify and report metrics") could be broadened to follow this
- Caching strategies
 - Understand access patterns. Which formats and which information is accessed?
 - > Evaluate different caching options depending on the data and the workflow
- High I/O facilities
 - ➤ We might need to restrict high I/O workflows in dedicated facilities
 - Understand how this fits in the current WLCG facilities

Work tightly integrated with the WLCG performance and cost model WG

We need to leverage on the ongoing studies and organize future discussions on end-to-end performance.



Next discussions

AAI and DOMA

- Discuss the evolution of AAI in the DOMA context
- Federated identities, Auth Tokens and the HTTP transfer ecosystem prototype

Networks

- Now that we have a clearer idea of how facilities and DOMA will look like we should undertand the implication from/to networks
- Other communities outside HEP
 - > Understand their plans and how they fit into WLCG DOMA
- Planning for regular monthly meetings, possibly in conjunction with pre-GDB slots

