

DOMA ACCESS evolution

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Re-scoping the DOMA ACCESS Working Group

- The WG was created to address the data access for the analysis use case
- We based our data access studies on a datalake-like model as the source of the data
 - [strawman model](#) was written as a reference
- It is time to discuss and address the datalake model in detail

Re-scoping the DOMA ACCESS Working Group

- New focus of the working group is needed to tackle the **WLCG-datalake**
- It is time to discuss and address the datalake model in detail
- We propose to setup a new Working Group (*WLCG DOMA LAKE*) to address the **full picture**
 - Data storage, data distribution and data access
 - Impact of workloads and their requirements on the infrastructure

WLCG DOMA Lake *Data Challenge*: towards a prototype

- **Data repositories.** Volunteer sites to deploy an storage endpoint. The goal is to orchestrate these storages with Rucio and explore the model:
 - Data placement, data orchestration, QoS, data policies and file workflows (QoS transitions), datalake experiment's boundaries (resources+Rucio)
- **Data access.** Identify data processing workflows to run in the prototype and explore the environment:
 - Topologies: stateless storage sites, storage-less sites, mixed sites (local storage + wlcg), etc..
 - Integration of heterogeneous resources: remotely managed sites, opportunistic resources, clouds and HPCs
 - Future of Analysis: future facilities (AF, Event Services, type of access (e.g. interactive), compact datasets
- **Data transfer challenge and data access** challenges to address the increasing complexity of resources, e.g. HPC centers ingress/egress+processing
- **Goals.** Define a set of metrics to achieve, reasonable from the experiments and sites perspective, to gauge and assess the feasibility of the model
- **Stakeholders:** need strong involvement from experiments' representatives, facilities managers, storage software developers, data management software developers, user community (analyzers), experiment ops teams,...