

DOMA Phase 2 - Status and plans

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<https://indico.cern.ch/event/1093044/>

DOMA Phase 2 transition

Up to now we have had three DOMA working groups: Access, TPC, and QoS

DOMA Access wrapped up main activities with a proposal for next steps

Many diverse topics have been folded into the TPC working group

QoS has been working on the white paper and several demonstrators

TPC and QoS meetings bi-weekly interleaved, with DOMA General once monthly

A few extra thoughts and feedbacks we got

We see DOMA-related activities in the experiments and facilities

which are not present in DOMA meetings

where we could benefit from bringing them under the same umbrella

We do not want to change things just for the sake of changing

We observe that the TPC WG works well with a big list of diverse topics

Combining and optimising our use of facilities will be key

DOMA Phase 2 transition

General proposition for DOMA Phase 2

Identify the topics people *should / can / want to* work on for production deployment and commissioning

This is the real challenge to gain critical mass and serious engagement

Set up a structured approach towards both Run-3 and Run-4

Break working group boundaries, be more flexible and dynamic

Bring relevant people together

Define and follow measurable objectives, their key results, and their milestones

1. **Wide area networking, transfers and throughput**

Move data and utilize networks at the scale required for HL-LHC

2. **Commissioning of a data delivery infrastructure**

Challenges with production setups

3. **Integration with heterogeneous data resources**

Align existing experiment-specific data solutions towards a common strategy

DOMA TPC WG

Full discussion

https://indico.cern.ch/event/1089054/contributions/4585646/attachments/2335404/3980554/TPC%20DOMA%20General%202021_10_27.pdf

Finished activities

- Protocol transition SRM to gsiftp
- HTTP-TPC commissioning is almost done
- XrootD 5.2+ satisfies all sites requirements
- Network data challenges now in post-mortem phase

Future activities

- Finalise deployment of SRM+HTTP tape access before EOY
- Future uniform tape access using HTTP REST API is ongoing long term activity
- Move token authorization testbed into production for experiments
- Conduct data challenges up to HL-LHC
- Proposed: Liaison to NET-WG (and commissioning the SDNs for the experiments)

Call for new TPC chair(s?) to follow in Alessandra's footsteps

DOMA QoS WG

Full discussion

<https://indico.cern.ch/event/1089054/contributions/4578238/attachments/2336045/3981669/DOMA-QoS.pdf>

Finished activities

QoS Survey and the resulting white paper

Diverse demonstrators (temporary storage, out-of-warranty storage, high-performance SSD, automatic migration)

Discussion

Nevertheless, participation and engagement was rather low

There is currently no way for a site to receive acknowledgment for providing useful storage with novel QoS

This invariably leads to the question of storage pledging

Future activities

Agree a WLCG-approved set of QoS classes across experiments and facilities

Identify how they would be exploited by the frameworks and stacks

DOMA is a technical forum: we may identify (what we see as) policy issues but have no mandate to discuss them

DOMA General

Activity survey ongoing

Awaiting report from LHCC Review by mid-December

DOMA is a coordinating entity

We are relying on community processes to engage the experiments, projects and institutes
Careful considerations between "this is interesting" & "this is where we have effort available"
Decisions taken by consensus