



ESCAPE

European Science Cluster of Astronomy &
Particle physics ESFRI research Infrastructures

WP2 – Task 2.2 update

Paul Millar
Regular WP2 meeting



Activity in T2.2

Tasks are split into three "streams". The streams are more-or-less independent of each other, but the tasks within the streams are completed in order.

Stream A: prototyping and demonstration.

Stream B: engagement with experiments.

Stream C: software development



Stream-A: prototyping & demo

- A.1** Collect information about what QoS options are currently available in the ESCAPE testbed. This is by a simple survey.
- A.2** Build prototype QoS in ESCAPE testbed by adding QoS-specific RSEs and QoS-specific labels.
- A.3** Provide simple proof-of-concept demonstration to show Rucio rules may be used to drive QoS transitions.
- A.4** Deploy updated versions of Rucio, FTS and storage software as they become available.



Stream-A update

Task A.1 is mostly complete, Aleem is compiling the information into a wiki page, and chasing up the remaining couple of sites that haven't responded yet (Aarnet, SurfSARA)

Task A.2 is next, building prototype testbed. Involves sites deploying multiple QoS (where appropriate) and updating Rucio configuration to include QoS-specific labels.



Stream-B: engagement with experiments

- B.1** Build initial contact with experiments data-management expert through ESCAPE sites.
- B.2** Conduct one-on-one interviews with experiments to work through their intended work-flows, to identify desired QoS and places where QoS transitions may be beneficial.
- B.3** Map abstract experiment-specific QoS concepts into what Rucio and storage software can provide. This may trigger software development if a limitation is discovered.
- B.4** Update testbed to match desired pattern. This steps may be delayed, waiting for new hardware, reconfigure their storage, or install updates. It may also block on Rucio development, if new features are required.



Stream-B update

Work started in task B.1, building up a mapping between ESCAPE experiments and the primary contact site that represent them. This information will be published on the ESCAPE wiki page.



Stream-C: software development

C.1 Put together an architecture/design paper.

Note, this distinct from the white-paper since the target audience is different (white paper: VOs, arch./design paper: software developers) and the two are different levels of abstraction.

C.2 Identify limitations of current approach, compared to the architecture.

C.3 Implement missing functionality. During this process, we anticipate fairly frequent deployment/updates to the ESCAPE testbed to allow for integration testing and to support B.4 and B.5.



Stream-C update

To progress with task C.1, we are planning a QoS workshop at CERN for the end of February.

This will be a small group of technical experts who are already familiar with QoS, where design details are thrashed out.

The exact time to be decided by a Doodle poll, but will be either Monday, or Friday. This is intended to allow people to attend both the ESCAPE Progress meeting and the ESCAPE QoS workshop.

One of the goals of the QoS workshop is a first draft of the design paper.



Additionally...



AAI webinar

DESY (Aleem) organised a webinar on how to configure dCache to support OpenID-Connect.

This took place on 2020-01-13, and featured presentations by Paul Millar (theory), Christian Voss (practice) and Aleem Sarwar (demo).

Details are available on the DIOS wiki page, under “Webinar”.

Four sites took part: LAPP, IN2P3, PIC and SurfSARA.

We’ve received positive feedback from sites.

IN2P3 have already enabled OpenID-Connect support in their testbed, and PIC are also attempting to deploy OIDC support in their instance.



Storage events mini-workshop

IN2P3 are organising a mini-workshop, to take place on 2020-01-27 focusing on the storage events feature of dCache.

IN2P3 are investigating work-flows that may benefit from storage events. This mirrors similar activity here at DESY, where storage events are being investigate for driving automated processing in HEP and photon science.

Mini-workshop provides the opportunity to “compare notes” and look for synergies between the two labs, under the auspices of ESCAPE.



Thanks for listening

