

# Minutes of Storage Information Providers Meeting, 15th April 2014

**Local Presence at CERN:** Maria Alandes (Information System), Julia Andreeva (Grid Monitoring), Xavier Espinall Curull (Castor/EOS), Oliver Keeble (DPM), Luca Mascetti (Castor/EOS), Giuseppe Lo Presti (Castor/EOS).

**Remote Presence:** Stephen Burke (Information System), Paul Millar (dCache), Andrea Ceccanti (StoRM), Joel Closier (LHCb).

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**Agenda available in Indico:** <https://indico.cern.ch/event/311528/>

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## 1. Introduction

Maria explains the motivation for this meeting. See slides attached in the agenda. She explains the work done during the last year on GLUE 2 validation and the issues detected during that process. Open issues reflected a need for a place to discuss storage related issues impacting the Information System.

## 2. Goals and Priorities

Maria describes a preliminary list of open issues that could be address in future meetings. See slides attached in the agenda.

- GLUE 2.0 harmonisation: It is agreed that Maria will sent a list of remaining open issues to DPM, StoRM and dCache. In the case of Castor/EOS, a summer student will write the GLUE 2.0 information provider during the summer months. Further discussions on the future of SRM, top level directories and namespace mapping are already happening in the WLCG Storage Interfaces Working Group lead by Wahid Bhimji. It is agreed to carry on this type of discussions on the working group. For the storage capacity attributes that seem to be interpreted in the different ways by the different storage providers, it is agreed to have a more detailed discussion in a future meeting. As for storage capacity validation, it is also agreed that Maria should review the existing initiatives of monitoring storage capacities and validating them against existing tools that are more trusted by the experiments:
  - ATLAS: Maria to understand whether the data displayed in [http://bourricot.cern.ch/dq2/accounting/bdii\\_vs\\_srm/](http://bourricot.cern.ch/dq2/accounting/bdii_vs_srm/) could be used making sure SRM and BDII queries happen with the same frequency. Otherwise understand how ATLAS is planning to get storage capacity numbers so that the same source could be used to compare with BDII.

- CMS: Maria already started some discussions with Nicolo Magini to compare with the site pledges published in siteDB. Maria started to write a script to do this comparison in the dashboard but did not finish this work due to other priorities.
- LHCb: Maria is already comparing BDII vs SRM information in the dashboard. Only for T1s, to be added T2s. <https://wlcg-mon.cern.ch/dashboard/request.py/siteview#currentView=BDII+vs+SRM+LHCb+Storage>
- GLUE WG: It is agreed that Paul and Stephen could bring to the OGF GLUE Working Group meetings any decisions that require agreements among storage providers. Input for ongoing discussions affecting enumerated types will be discussed in more detail in a future meeting.
- Webdav/xrootd endpoints: It is agreed that Maria will check whether all storage providers are publishing webdav/xrootd endpoints in case these protocols are available in a specific installation of the different storage systems. Paul asks what it means exactly to publish an endpoint. Is it supported as long as the storage service is supported? It is decided to continue this discussion by mail.
- HTTP federation: it is decided to ask Fabrizio Furano what it is exactly what he needs from the Information System and discuss this in a future meeting.
- Data Transfer monitoring: Julia would like to know how http transfers could be monitored. She will provide requirements on what it is needed in terms of format and information and storage providers will study how they could provide this. It is decided to continue this discussion outside this meeting since it does not affect the information system.

### 3. Format and frequency

Oliver proposes to use these meetings to include also other aspects that affect all storage providers and that could be discussed as an AOB or as a second part of each meeting. It is decided to send a Doodle for the next meeting. Maria will prepare the agenda for the information system part and Oliver will provide the agenda for the data management part. A new mailing list will be created to include all the relevant people who will attend such future meetings. It is expected to have also representatives from the experiments who in most cases couldn't attend the meeting today due to clashes with other meetings like the WLCG Management Board. Other open issues will be discussed in the mailing list to be included in future meetings.

### 4. Action items for next meeting

- *20140415.1*: Review GLUE 2.0 status for DPM, dCache and StoRM and send an updated list of open issues if necessary (Maria)
- *20140415.2*: Discuss storage capacity attributes (to be done in the next meeting)
- *20140415.3*: Validate BDII storage capacity numbers for ATLAS (Maria)
- *20140415.4*: Validate BDII storage capacity numbers for CMS (Maria)
- *20140415.5*: Validate T2s BDII storage capacity numbers for LHCb (Maria)

- *20140415.6*: Agree on relevant values for enumerated types in GLUE 2.0 and give input to GLUE WG (to be done in the next meeting)
- *20140415.7*: Summarise status of webdav/xrootd endpoint publishing by the different storage providers in the BDII (Maria)
- *20140415.8*: Present HTTP federation requirements for the BDII (Fabrizio Furano in a next meeting)
- *20140415.9*: Create mailing list and doodle for next meeting (Maria)

## **5. Next meeting**

To be decided