



SRR for federated storage

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Use cases for SRR

- Two main use cases for storage accounting information in SRR are:
 - Accounting
 - On WLCG and experiment level
 - Monthly accounting reports presented to the funding agencies
 - Operations
 - How much free space do I have on the storage allocated to my VO?

SRR requirements for federated storage

- We need to satisfy both main use cases
 - For accounting, sites which provide storage as a part of the federated storage would like to keep the possibility to get their contribution properly tracked in the monthly accounting reports
 - For operations, since managing VO data on the federation should be transparent for the experiments independently of data physical location, experiments do care about free and occupied space on the federation as the whole

Proposal (1)

- Condition:
 - In case of dCache federated storage, all storage provided by a given site should be in the same pool group
- The name of the storage share in SRR should have a special pattern which would allow WSSA (WLCG storage space accounting) application to understand that this storage is provided by a given site. For example `*_admin_<site_name>`

Changes in WSSA

- Taking a concrete example:
 - UNIBE-LHEP and SiGNET are parts of the NDGF-T1 dCache federation
 - In the NDGF SRR there should be UNIBE-LHEP and SiGNET storage shares with the names xxx_admin_UNIBE-LHEP and yyy_admin_SiGNET correspondingly containing accounting metrics for the storage provided by UNIBE-LHEP and SiGNET
 - WSSA application should subtract these two shares from the NDGF accounting numbers and properly account them for UNIBE-LHEP and SiGNET
- Experiment operations only keep track of the whole NDGF storage area dedicated to a particular experiment. The internal storage allocations between different centres are not a concern of the experiment on the operational level.

**QUESTIONS/
COMMENTS?**