



# SRR for dCache

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# What is SRR, short reminder

- SRR stands for Storage Resource Reporting proposal developed as a follow up of the WLCG accounting review at the (pre-)GDB in April 2016. [More info](#)
- JSON file accessible through HTTP protocol containing storage topology and accounting information

# Two important dimensions of SRR (1)

- Storage topology description (SRR for topology)
  - Storage implementation and implementation version
  - Protocols
  - Storage shares equivalent/similar to SRM space quotas (path with quota defined, dedicated for a particular usage, accounted separately, not overlapping in terms of space), which VOs are using these shares
- Non-SRM Storage Space Accounting enabled (SRR for accounting)
  - Actual size of used and total storage shares

# Who are using SRR

- **WLCG central operations to**
  - keep track in CRIC for storage implementation and implementation version. Very useful for upgrade campaigns
  - WLCG Storage Space Accounting (WSSA). Used for monthly accounting reports. SRR usage gradually replaces SRM queries
- **Experiment operations**
  - ATLAS uses SRR to monitor free space on the sites and take data management decisions

# Where SRR is enabled and how it is monitored

- Storage providers DPM, StoRM, EOS and dCache provide functionality to generate SRR
- Currently enabled at 75 WLCG sites
- CRIC checker has been setup to check accessibility and validity of the SRR files every half an hour and update CRIC with SRR status

# SRR for dCache

- SRR implementation for dCache versions older than 6.2.29 had issues.
- New SRR implementation coming with dCache version  $\geq 6.2.29$  is recommended to be enabled by all WLCG dCache sites
- Main issues with empty storage shares has been resolved. New implementation suggests publication of the SRR file on the dCache frontend
- WLCG Ops Coordination started a campaign of enabling SRR on the dCache sites in this new mode. Sites running dCache version  $\geq 6.2.29$  do not need to upgrade dCache, just need to follow new instructions for enabling SRR. Sites running older dCache versions would need to upgrade to the latest he latest 7.2 series.
- Progress is followed up there:
  - <https://twiki.cern.ch/twiki/bin/view/LCG/SRRdCache>

# QUESTIONS?