

## SRM 2.2 Service Deployment Schedule & Issues

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# Outline of session

1. SRM 2.2 overview
2. Server/client implementation status
3. CASTOR
4. dCache
5. DPM
6. StoRM
7. Discussion

## Deployed SRMs in WLCG (yesterday)

DPM	dCache	CASTOR	Total
74	41	7	122

- Obtained by querying BDII for instances of `/dpm`, `/pnfs` and `/castor` in the `GlueSARoot` field.
- Some sites may not expose this or may be using an alternative SRM (StoRM, DRM...).
- SRM provides uniform interface to multiple storage systems.
  - v2.2 essential for WLCG.

# What comes with SRM 2.2?

- Directory functions (`srmLs...`)
- Space management (`srmReserveSpace...`)
- **Access latency** and **retention policy** support
- Better error reporting
- Permission management

Thanks to Timur Perelmutov for the slides.

- From SRM v2.2 WLCG MOU the agreed terminology is:
  - TAccessLatency { **ONLINE**, **NEARLINE** }
  - TRetentionPolicy { **REPLICA**, **CUSTODIAL** }
- The mapping to labels TapeX DiskY is given by:
  - **Tape1Disk0**: **NEARLINE** + **CUSTODIAL**
  - **Tape1Disk1**: **ONLINE** + **CUSTODIAL**
  - **Tape0Disk1**: **ONLINE** + **REPLICA**
- T1D0 ↔ T1D1 is allowed.

- How do sites **configure** the storage classes?
- Trivially, Tier-2s will use T0D1.
  - Will they have to do anything different than they are now?
  - Could YAIM setup the storage classes?
- What is the procedure for space reservation?
  - How are the **Space Tokens** discovered by users? GLUE 1.3.
- Client/server interoperability **testing** required.
- Discuss...

- See Timur's talk from dCache workshop.

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