

CMS - Tape & Disk Resources in 2024

CERN & Tier-1 Tape

Available CERN tape capacity and foreseen activities for the rest of CY 2024 are shown in the table at the right.

- Assumes 50 remaining days of p-p running at recent data volumes, a successful heavy-ion run, and an end-of-year reprocessing of the detector data.
- **We should finish CY 2024 with a little contingency for free tape at CERN.**

Tier-1 tape is under-pledged by 7% [[WLCG CRIC](#)], even including the resources at JINR.

- We are grateful to all of our Tier-1 sites that have made increased pledged or **beyond-pledge tape** capacity available to CMS.
- Our calculations show that there is **sufficient free tape** capacity at the six Tier-1 sites to accommodate the remaining activities for the rest of the WLCG year with sufficient contingency.

CERN Tape	[PB]
Current Free Tape	91
p-p data	25
HIN data	50
EOY Free Tape	16

N.B. Optimistic but realistic data-taking scenarios (including the extra weeks not foreseen in the resource request) are considered, so the estimates are to be considered upper limits. Includes derived datasets, e.g. AOD, MiniAOD, etc.

CERN & Tier-1 Disk

- CERN disk is fully pledged and utilized.
- Tier-1 disk is **under-pledged by 6.3 PB**, even including the resources at JINR, which we fully utilize.
- However, Tier-1 **disk deployed is about 6 PB less than pledged due to procurement delays**. Data taking should not be affected, but this does place pressure on other operations.