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Tiered Storage For LHC

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For more than a year, the ATLAS Western Tier 2 (WT2) at SLAC National Accelerator has been successfully operating a two tiered storage system based on Xrootd's flexible cross-cluster data placement framework, the File Residency Manager. The architecture allows WT2 to provide both, high performance storage at the higher tier to ATLAS analysis jobs, as well as large, low cost disk capacity at the lower tier. Data automatically moves between the two storage tiers based on the needs of analysis jobs and is completely transparent to the jobs.

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