

On the use of XRootD in StorageD at the Rutherford Appleton Laboratory, UK

Friday 13 September 2024 12:00 (30 minutes)

StorageD is the data aggregator component within archiving systems that supports the work of the Diamond Light Source (DLS) and the Centre for Environmental Data Analysis (CEDA) at the Rutherford Appleton Laboratory (RAL). StorageD provides file ingest and recall services to scientists and engineers internationally through DLS and CEDA. StorageD currently support ingest of over 100TB daily. StorageD uses the CERN Tape Archive (CTA) backend in writing data to tape. Current holding on tape is approximately 100PB. Over the past 2 years, StorageD has migrated from using the RFIO access protocol to using XRootD for file transfer to the backend. This talk will cover the description of the development work on the transition of StorageD away from RFIO at the backend, towards XRootD. Furthermore, optimisation work that has become necessary because of this transition will be discussed. Service management of StorageD includes monitoring, reporting and management with maintenance scripts. These efforts will be discussed in this talk.

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Session Classification: XRootD Presentations