Science and Technology Facilities Council

Scientific Computing

FTS

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IRIS collaboration meeting

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A brief history of FTS

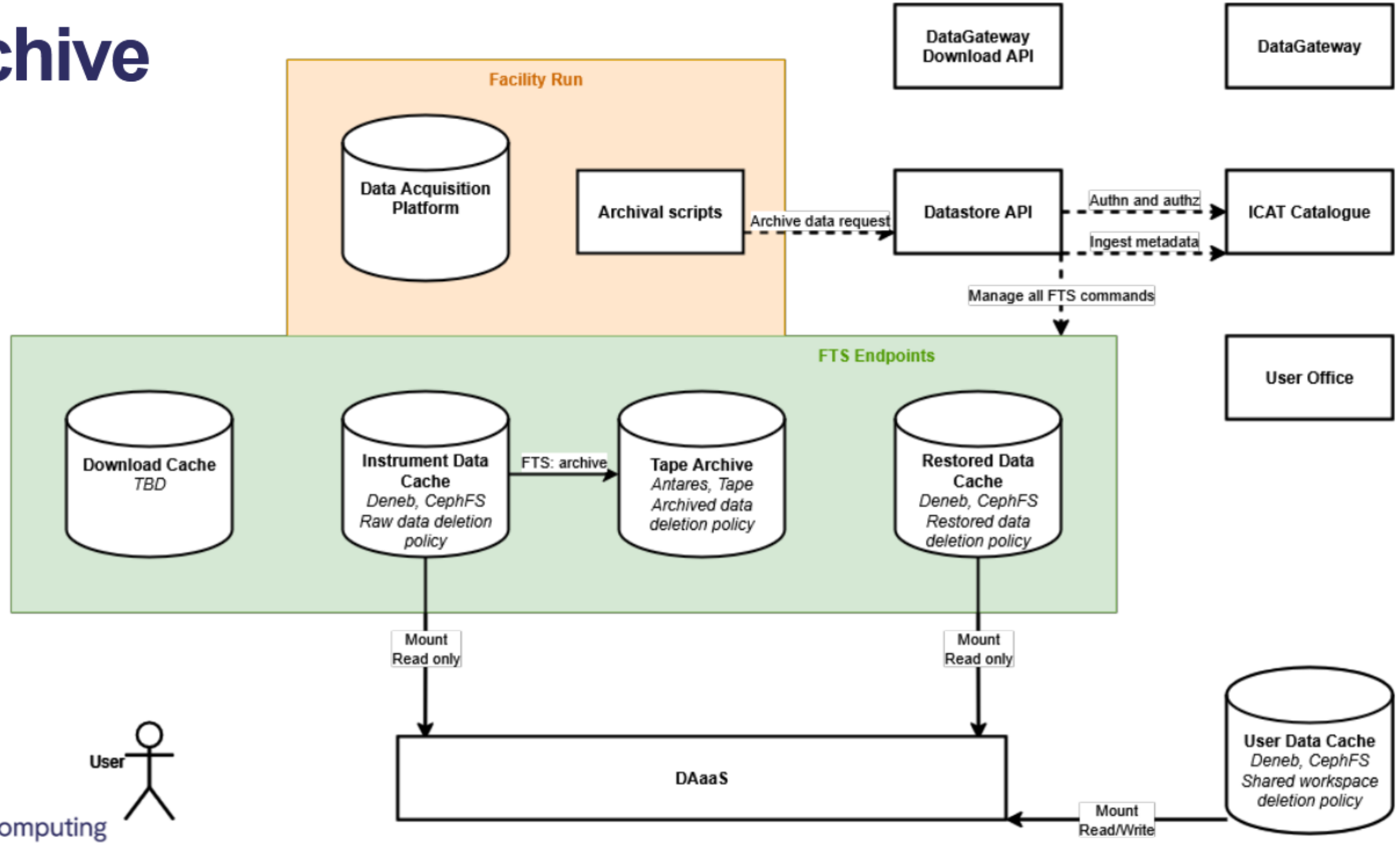
- Developed at CERN as a bulk data mover for LHC data
  - In DC24 CERN FTS instances completed 33 million file-transfers and 249 PB over a two week period
  - Sustained over 20k transfers for 17 hours (new record for FTS!)
- Heavily used within particle physics domain, plus usage in other physics domains e.g. astronomy
- Data movement software running alongside Rucio

FTS highlights at RAL

- Extending use of FTS outside of particle physics community:
  - Selected alongside Rucio as SRCNet data movement tool
  - ukSRC – supporting UK astronomy as well as SKA
  - LSST - Used RAL FTS during early data movement testing
  - Facilities data pipeline for EPAC
    - Proposed as the tool to mediate data movement between disk caches and tape archive for next gen photonics facility at RAL

- Improved token support:
  - Integrated SKA-FTS hosts with SKA-IAM and added added token authentication with SKA-IAM to web monitoring & logs
  - Reduces difficulty to integrate with other IAMs, e.g. IRIS-IAM!

Archive



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Future outlook for FTS

- Migration to Proxmox:
  - Move FTS to LHCOPN/LHCONE network
  - Restores access to CTA storage
  - Enable CERN experiments to use the RAL FTS instances, can revisit GridPP usage
- ukSRC
  - Transition from development to operational phase
- FTS4 later this year!