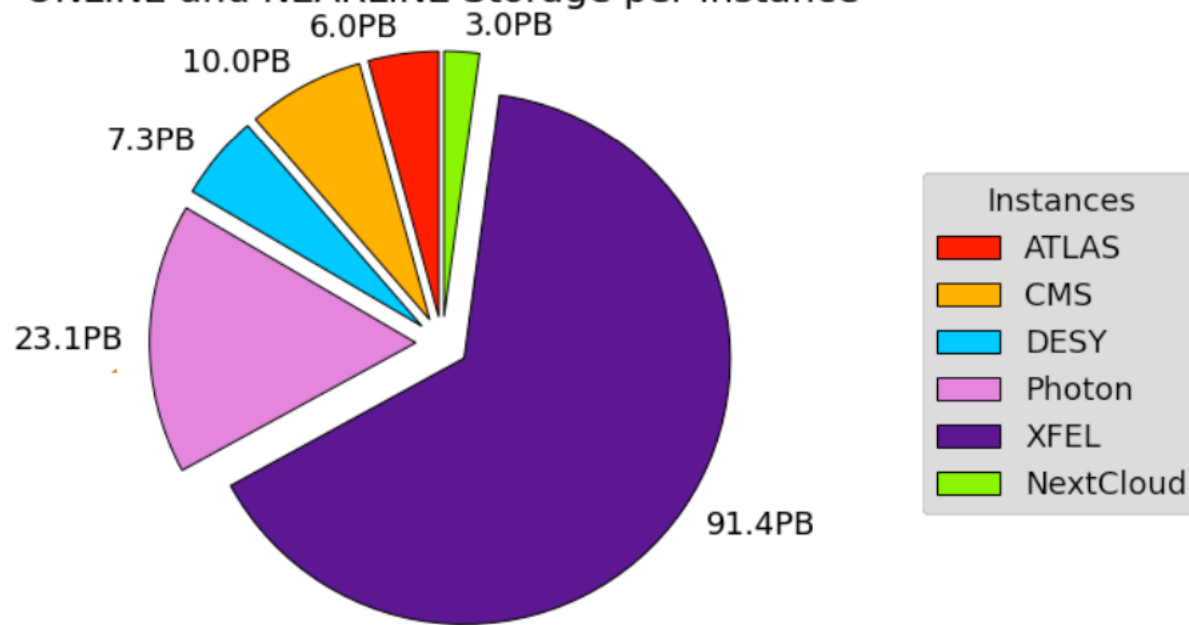


dCache Integration with CERN Tape Archive

Mwai Karimi,
DMA Workshop, 2023

DESY as Storage

ONLINE and NEARLINE Storage per Instance



What's CTA?



- Tape backend to EOS
- CERN's solution for LHC Run-3 and beyond

WLCG Tape Landscape in 2021



ERADAT

TReqS

TSS

DMF

OSM

Enstore

ENDIT

GEMSS



Tape
Guy



Tape Media: LTO or Enterprise

CERN, RAL

BNL

IN2P3

FZK

SARA

DESY

FNAL, PIC, JINR

Triumf

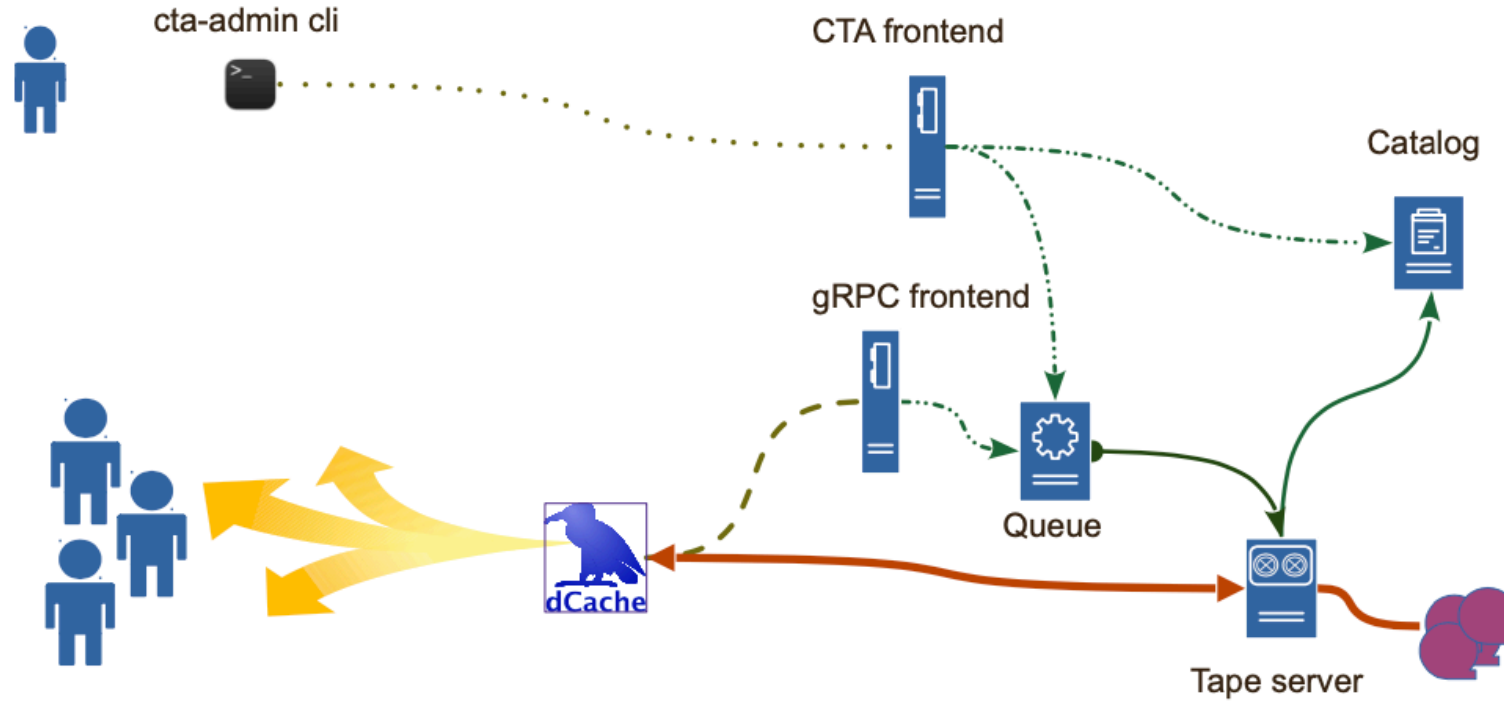
NDGF

CNAF

Why CTA?

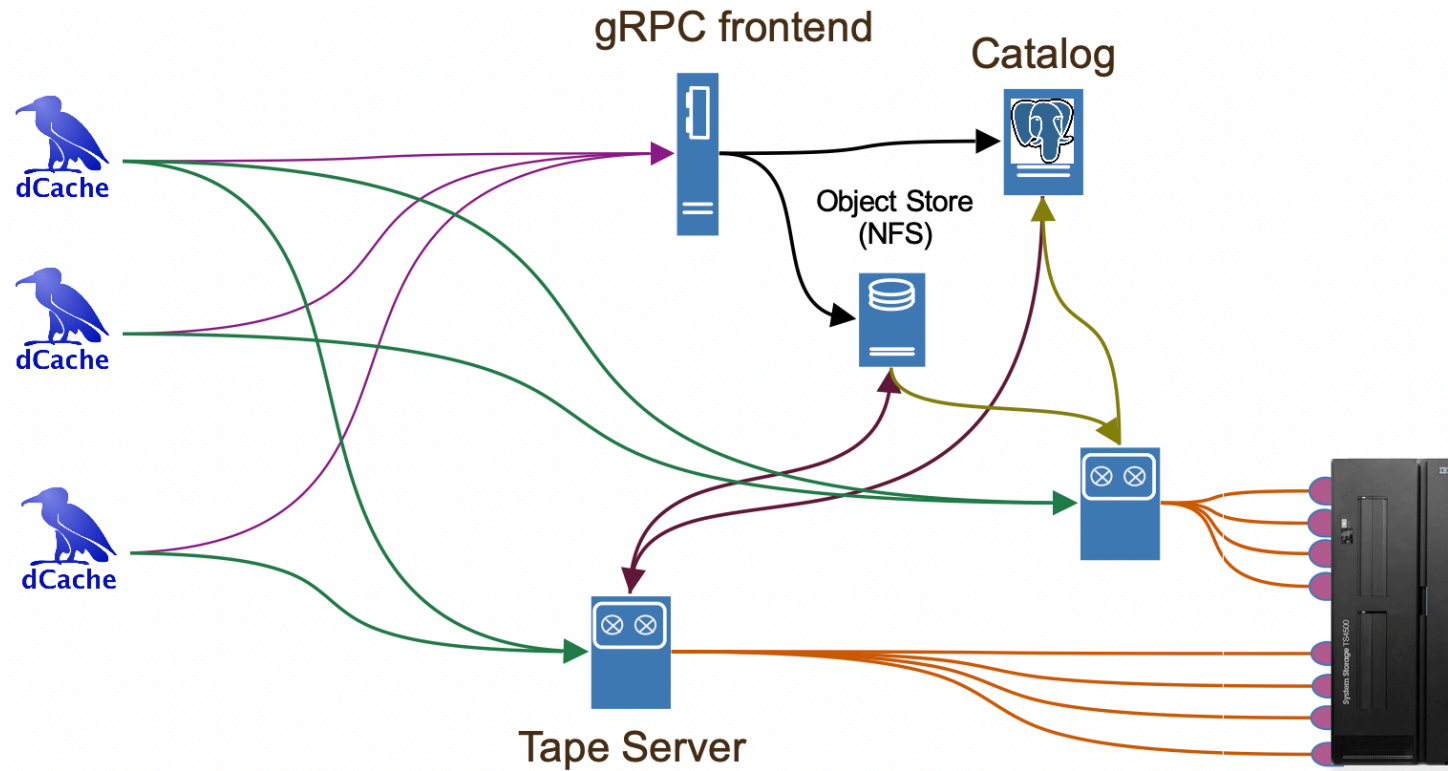
- Tape software landscape is consolidating
 - Changing licence model costs for commercial solutions
 - EOL for free software solutions
- Open source, modern software with the latest WLCG standards
- Long-term roadmap
- Active and growing community

Integration with dCache



- gRPC frontend
- dCache nearline driver

Current Deployment



1 CTA-Frontend/gRPC
1 ObjectStore (NFS)

2 x TS4500:
2 LTO/2 JAG Virtual Libs

Tape Servers:
12 LT09
4 TS1160

CTA 5.10.0
dCache 8.2.1
dCache-cta 0.10.0