



**NCI**  
AUSTRALIA

# NCI Site Update

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## Managed data

- Feb 2016 : 12PB (6PB on 480 JD volumes in each library)
- June 2018 : 25PB (12.5PB on 720 JD and 800 JC volumes in each library)

Primary library was converted in Oct 2017 from T950 to Tfinity (but with only a single HPT).

Same number of Media Expansion Frames, but a small capacity increase due to Service Frames at each end.

Capability for more Frames to be added in the future.

Library workload needs to be monitored more closely since LTO-5 to TS1150 migration with fewer drives.

Drives have been reassigned from another partition to better handle the increased write and recall load on massdata.

Actively investigating drive utilisation between primary and secondary libraries, with the possibility of relocating drives between libraries to improve recall times.

Load balancing of recalls would ease the pain.

New lustre filesystems gdata1a and gdata1b (12PB each) deployed in 2017

- gdata1a (Fujitsu and Netapp) is architecturally very similar to gdata3
- gdata1b (HPE) is using JBODs with ZFS
- Both are using EDR Infiniband fabrics

Investigating other technologies complementary to DMF to support other and emerging storage requirements for the future, and with other sites eg. Pawsey and UQ.

