

# UK mini DC

---

A. Forti, K. Ellis

GridPP Technical meeting

15 November 2024



# Rates

Units are all GB/s

Site	Ingress CMS	Egress CMS	Ingress ATLAS	Egress ATLAS	Ingress LHCb	Egress LHCb	Ingress total	Egress total
T1 disk	1.64	3.55	7	9.5	3.96	2.4	12.6	15.45
T1 tape	2.51	2.51	7.45	2.7	3.96	2.4	13.92	7.61
RALPP	0.76	0.22	0.55	0.51			1.31	0.73
Manchester			3.85	3.53			3.85	3.53
Lancaster			3.5	3.23			3.5	3.23
QMUL			3.38	3.03			3.38	3.03
Glasgow			1.69	1.53			1.69	1.53
IC	3.04	0.9					3.04	0.9
Brunel	0.48	0.09					0.48	0.09
Bristol	0.41	0.06					0.41	0.06

Note ATLAS tape in/egr: T0 export+data consolidation/carousel

- Replicate the DC24 rates from ATLAS, CMS and LHCb
  - to start with
- Then put pressure on sites *as requested by the sites*
  - Let's discuss your requirements



# Dates & proposed tests

- Need to be careful not lose the “mini” along the way doing too many things in one test
  - Agreed to split T2 and T1
- **T2 tests:** Week starting the 9th December 2024
  - Stress-testing T2s
    - Replicate DC24 rates → using only UK sites → for at least 6h
    - Increase rates to max bandwidth at 100Gb/s sites
    - Under discussion enabling jumbo frames
      - Unlikely at this round
- **T1 tests:** February 2025
  - Writes to Echo
    - Cutting LHCOPN to RAL; what rate can be achieved through LHCONE?
    - Test a SDN solution (under discussion)
  - Writes to Antares
    - Direct from CERN (ATLAS, CMS)
    - Multihop via Echo (LHCb)
  - Stress test 100Gb boxes at RAL
    - One writing to Ceph
    - One writing to CephFS



# T2 schedule

- Being built in the [miniDC spreadsheet](#)
  - ATLAS will do T2 ↔ T2 and T2 ↔ T1
    -



# Contacts

- ATLAS: Alessandra Forti
- CMS: Katy Ellis
- LHCb: Alexander Rogovskiy
- T1:
  - Antares: [SCDTSAdmins@stfc.ac.uk](mailto:SCDTSAdmins@stfc.ac.uk)
  - Echo: [SCDDataServicesEchoTeam@stfc.ac.uk](mailto:SCDDataServicesEchoTeam@stfc.ac.uk)
- T2s:
  - Manchester: [man-tier2-ops@cern.ch](mailto:man-tier2-ops@cern.ch)
  - Lancaster: [lcg-admin@lancs.ac.uk](mailto:lcg-admin@lancs.ac.uk) (all of us)
  - Glasgow: [uki-scotgrid-glasgow@glasgow.ac.uk](mailto:uki-scotgrid-glasgow@glasgow.ac.uk)
  - Imperial: [lcg-site-admin@imperial.ac.uk](mailto:lcg-site-admin@imperial.ac.uk) (all of us)
  - Brunel: [lcg-admin@brunel.ac.uk](mailto:lcg-admin@brunel.ac.uk)

