January, 2026 (TBD)

We need multiple meetings focusing on each one of the challenges planned:

1) Host Tuning (Shawn will organize)
    a) Testing targeting February 2 and 3
2) LHCONE IPv4 Blackout (Garhan will organize)
3) SENSE/Rucio (Diego will organize)

Dec 19, 2025 | Host optimization and monitoring

Attendees: Garhan Attebury, Diego Davila, Asif Shah, Philippe Laurens, Shawn McKee, Eli Dart, Douglas Benjamin, Eduardo Bach, Frederick Luehring, Nick Smith, Ofer Rind, Rafael Coelho Lopes de Sa, Wenjing

Notes:

- Host tuning: Document Link
    - Goal is to come up with a best practice recommendation for host tuning in WLCG.
    - https://osg-htc.org/networking/perfsonar/tools_scripts/fasterdata-tuning/
    - Assumptions of EL9 for script, many other potential combinations of OS and kernels in use. Script could be made more os agnostic.
- Monitoring capability document
    - Joint flow monitoring implementation?
- Challenge list
    - LHCONE IPv4 Blackout (Garhan)
        - Two steps, one small window and one longer one
        - UNL/Florida + AGLT2/NET2, maybe Caltech
    - Host Tuning (Shawn)
        - UCSD/FNAL (possibly)
        - AGLT2/NET2 and BNL (possibly)
    - SENSE (Diego)

Action items

- [ ] Finalize participant list
- [ ] Determine existing site capabilities and what to implement

Nov 5, 2025 | Discuss next mini-challenge what/when/who

Attendees: Diego Davilia, Eduardo Bach, Garhan Attebury, Asif Shah, Hiro Ito, Ofer Rind, Rafael Coelho Lopes de Sa, Shawn McKee, Andrew Melo, James Letts

Notes

- Dates for next capability-mini-challenge: End of January
- Capabilities to test: LCHONE-ipv4 blackout, Scitags (USATLAS), Fasterdata ON/OFF
- IPv6-only Eventually but not in the near future. LHCONE-ipv4 blackout is a step towards this goal
- USCMS
    - Will do a re-test (load test) of few(2 or 3) sites before the end of the year
- USATLAS
    - Want to do quarterly load tests - first week of December
        - We likely to test BNL in the new dual-home setup
    - Want to redo jumbo frames testing with BNL (no clear timeframe)
    - Scitags: need dCache upgrade (no clear timeline)
- Capability Test Plans folder is at https://drive.google.com/drive/folders/1Af7hWa0Zm30EuqsV1PbekSjb--gXAsVG

Action items

- [ ] (Diego) Get the second USCMS volunteer for the LHCONE-ipv4 blackout
- [ ] (Garhan) Call a meeting with the interested parties to share tooling to monitor things that might break
- [ ] (Shawn) Find volunteers for Scitags (USATLAS)
    - [ ] Waiting for Golden(11.3) version
- [x] ~~(Eli Dart/Shawn) Find volunteers for Fasterdata (USCMS)~~
    - [ ] UCSD and AGLT2o

LHCONE-ipv4 blackout

The test is easy,

- What are we trying to show with this?
    - Show that sites can operate even without LHCONE-ipv4
    - Find broken routing. IPv4 LHCONE traffic should go through Internet2 not commodity
- How could we do it in practice?
    - Work with ESnet to do this centrally
- Any sites in mind?
    - USCMS
        - UNL (can easily turn off only IPv4 peering with ESnet)
        - TBD (Caltech?)
    - USATLAS
        - AGLT2
        - NET2
- How do we monitor this?
    - Hiro: with good monitoring (flow monitoring) we can foresee what traffic (apps) would be affected
    - We could use Scitags to identify these flows although we don't instrument all our services to use them (e.g. cvmfs)
    - Hiro: dCache logs show IPv4 or IPv6
    - Shawn: we should look at options for sites to implement flow-monitoring
- What about the services that PREFER IPv4 over IPv6
    - Would be nice to have a list of these

Scitags

USATLAS would like to test this once their sites upgrade to the dCache version (??) that supports scitags.
USCMS Sites have been configured to send Scitags for a while now (Except FNAL)

Fasterdata ON/OFF

The idea of this test is to demonstrate the impact of configuring our DTNs with Fasterdata's suggested parameters.

The test would consist on following the next steps in a couple of Sites:

1. Configures its DTNs with default parameters
2. Runs a load test
3. Configures its DTNs withFasterdata's suggested parameters
4. Runs a second load test
5. Compares 2 vs 4

USATLAS Proposed schedule for capacity tests

- AGLT2 12/2 (Tuesday morning)
- BNL 12/2 (Tuesday afternoon)
- NET2 12/3 (Wednesday morning)
- MWT2 12/3 (Wednesday afternoon)
- SWT2/UTA 12/4 (Thursday morning)
- SWT2/OU 12/4 (Thursday afternoon)