

Tier-2 Facilities Meeting Notes

Meeting Date: July 10, 2024

Indico:

<https://agenda.hep.wisc.edu/event/2175/contributions/31554/>

Zoom Coordinates:

<https://fnal.zoom.us/j/97947514704?pwd=g6Yxbw89EUhaSM1WRajmSibPi6wkjF.1>

Each project and site has a section below to write a report. Please complete your section before the close of business the day before the meeting (Monday). Please mark items to be discussed during the meeting in red.

Sites please tell us about:

- What has happened in operations since the last status report?
 - Please tell us the status of any [open tickets](#) or the resolution of tickets closed during the past month.
- Please explain any degradation during the past month of [metrics](#) that we track such as [Site Availability](#), [Site Readiness](#), [XrootD](#), Site Usage (MonIT, [WLCG](#)).
- Any new [hardware](#) deployments, retirements, or planned purchases?
 - Please be sure to update the [HepScore23 spreadsheet](#) , [deployment spreadsheet](#), and HepScore23 conversion factor with the OSG, if necessary.
- What is the progress at each site on milestones and upgrades since the last meeting? **Please update the table below.**
- Did something unusual happen that needs our attention or that you need help solving?

If plots or graphics are necessary, please insert them in this document.

1.

Standing Reports

Notes and Comment

(James, Dave, and Andrew) - see attached slides

Networking

(Garhan)

Security

(Jeny)

Site Reports

Caltech

(Andres, Sravya)

- What has happened in operations since the last status report?
 - [open tickets](#) :
[166658](#) - Missing CPU accounting data in the EGI portal for March.
- Please explain any degradation during the past month of [metrics](#) that we track such as
 - [Site Availability](#): **99.12%**
 - [Site Readiness](#): 100%
 - [XrootD](#)
 - Site Usage (MonIT, [WLCG](#)):
- Any new [hardware](#) deployments, retirements, or planned purchases? **Not yet**

- What is the progress at each site on milestones and upgrades since the last meeting?
- Did something unusual happen that needs our attention or that you need help solving? no

Florida

(Bockjoo, Dimitri, Yu Fu)

- What has happened in operations since the last status report?
 - open tickets: **IPv4/6 Dual Stack on CE/Workers is implemented.**
- Please explain any degradation during the past month of metrics that we track such as
 - Site Availability: **98.26%**
 - Site Readiness: **100% (no jobs running?)**
 - XrootD,
 - Site Usage (MonIT, WLCG): **300% of WLCG pledge**
- Any new hardware deployments, retirements, or planned purchases?
 - Please be sure to update the HepScore23 spreadsheet , deployment spreadsheet, and HepScore23 conversion factor with the OSG, if necessary: **Nothing to update, but we will receive new storage units this month**
- What is the progress at each site on milestones and upgrades since the last meeting? **Please update the table below: NA**
- Did something unusual happen that needs our attention or that you need help solving?

IPv6 gfal-* SSL connectivity issue with T1_UK_RAL as we don't accept /52 hosts at our end which we changed the policy. Observation by our network engineer:

 1. Route inside LHC for this host is a /52 which we typically don't accept.
 2. It appears RL blocks most/all ICMP via Internet2 path
 3. It appears RL does not support jumbo frames (which I can now detect since they allow ICMP via LHC.)

So because we support jumbos and do PMTUD, we won't get a good path mtu via I2. I made some policy changes to allow the /52 route to propagate so it should still work.

I assume that either RL broke up their v6 routes or implemented icmp filtering and thats what caused it to break. Only a guess...

MIT

(Max, Benedikt)

Nebraska

(Garhan, Carl, John)

- What has happened in operations since the last status report?
 - Multiple power outages (tornado and thunderstorm driven) caused a few hiccups
 - https://ggus.eu/index.php?mode=ticket_info&ticket_id=167391
 - https://ggus.eu/index.php?mode=ticket_info&ticket_id=167149
- Please explain any degradation during the past month of [metrics](#) that we track such as [Site Availability](#), [Site Readiness](#), [XrootD](#), Site Usage (MonIT, [WLCG](#)).
 - Multiple power outages (tornado and thunderstorm driven) caused a few hiccups as mentioned above
 - Lower compute provided expected for June/July due to some nodes being turned off after a cooling unit failure ("sudden water redirection event") - not being repaired/replaced in the short term, so depending on hot days we may have to reduce load a few more times this summer.
- Any new [hardware](#) deployments, retirements, or planned purchases?
 - New CPU nodes from 2024 funding deployed, $\frac{3}{4}$ of CPU nodes from 2023 funding deployed (waiting on final

chassis of 4x nodes). Storage for 2024 yet to be purchased.

- What is the progress at each site on milestones and upgrades since the last meeting?
 - Nothing to do?
- Did something unusual happen that needs our attention or that you need help solving?
 - Nope!

Purdue

(Erik, Stefan, Laura, Nick)

- What has happened in operations since the last status report?
 - Please tell us the status of any [open tickets](#) or the resolution of tickets closed during the past month.
 - 164493 - IPV6 on all compute backends still a work in progress
- Please explain any degradation during the past month of [metrics](#) that we track such as [Site Availability](#), [Site Readiness](#), [XrootD](#), Site Usage (MonIT, [WLCG](#)).
 - None
- Any new [hardware](#) deployments, retirements, or planned purchases?
 - 2024 HW Purchase - Procurement bidding finished. We are ready to place the order, **subject to final approval by Andrew/Dave**
- What is the progress at each site on milestones and upgrades since the last meeting? **Please update the table below.**
 - Upgrade of Hammer cluster to el8 scheduled for July 31st.
- Did something unusual happen that needs our attention or that you need help solving?
 - Nope

SPRACE

(Jadir, Marcio)

- What has happened in operations since the last status report?
 - Request to deploy IPv6 on CEs and WNs at WLCG sites (T2_BR_SPRACE) [#164488](#), opened, no change.
 - Scheduled downtime on July 1st: fiber maintenance at University Campus.
- Please explain any degradation during the past month of [metrics](#) that we track such as
 - [Site Availability](#) **95.51%**
 - [Site Readiness](#) **93.30%**
 - [WLCG](#) **109.05%** (April report)
- Any new [hardware](#) deployments, retirements, or planned purchases?
 - **Nope**

UCSD

(Terrence, Diego)

UERJ

(Renan, Caio, Eduardo)

Vanderbilt

(Andrew, Eric)

Wisconsin

(Ajit, Carl)

- What has happened in operations since the last status report?
 - [Ticket #167497](#) - storage access error at T2_US_Wisconsin - **Resolved**
 - [Ticket #167068](#) - CMS ending x86-64-v1 microarchitecture support (T2_US_Wisconsin) - **Resolved**

- Please explain any degradation during the past month of [metrics](#) that we track such as [Site Availability](#), [Site Readiness](#), [XrootD](#), Site Usage (MonIT, [WLCG](#)).
 - Xrootd related SAM test failures for 2 days (July 4/5) due to an extremely overloaded xrootd server which was recently upgraded to Alma9 + xrootd 5.6.9. The overload reason is not fully understood yet.
- Any new [hardware](#) deployments, retirements, or planned purchases?
 - Vendor is in the process of obtaining the new hardware.
- What is the progress at each site on milestones and upgrades since the last meeting?
 - Cluster migration to Alma9 is complete
 - HDFS upgraded to 3.3.6
- Did something unusual happen that needs our attention or that you need help solving?
 - No

Tier-3

(Doug, Carl, Kenyi)