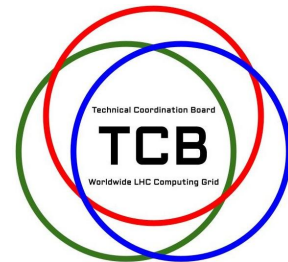




WLCG

Worldwide LHC Computing Grid



WLCG Open Technical Forum #6

Introduction

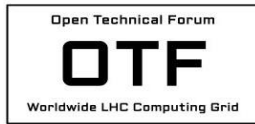
A. Di Girolamo (CERN) and J. Letts (UCSD)
WLCG OTF #6 - September 9-10, 2025

Open Technical Forum

OTF

Worldwide LHC Computing Grid

Welcome!



Welcome to the Sixth WLCG Open Technical Forum (OTF#6) meeting!

The focus of this two-day meeting is:

- Today: Environmental Sustainability
- Tomorrow: IPv6 & Data Transfer Mini-Challenges

This is a hybrid event, with attendees in person at CERN and around the world on Zoom. Please remember best practices learned during the Pandemic:

- If you are in the room, please raise your hand to speak (as on Zoom) and please also announce your name and affiliation.
- There are [live notes](#) (separate files for each day) attached to the Indico page - please help write them! We will not record the meeting.

Meeting Agenda and Focus Topics

- WLCG Sustainability Forum kickoff today, and a generator presentation.
- Tomorrow focuses on IPv6 status & tests, and results of the mini-data challenges in the U.S. (ATLAS & CMS).

TUESDAY 9 SEPTEMBER			
15:00	→ 15:20	WLCG OTF#6 Introduction Speakers: Alessandro Di Girolamo (CERN), James Letts (Univ. of California San Diego (US))	⌚ 20m
15:20	→ 15:50	WLCG Sustainability Forum - Kickoff Speakers: Caterina Doglioni (The University of Manchester (GB)), David Britton (University of Glasgow (GB)), Markus Schulz (CERN)	⌚ 30m
16:20	→ 16:50	Event Generators Improvements Speaker: Daniele Massaro (CERN)	⌚ 30m
WEDNESDAY 10 SEPTEMBER			
14:00	→ 14:20	IPv6 Task Force - Status and Plans Speakers: Dr Andrea Sciabà (CERN), David Kelsey (Science and Technology Facilities Council STFC (GB))	⌚ 20m
14:30	→ 14:45	Results of Removal of IPv4 Peering on LCHOPN in the U.S. Speakers: Edoardo Martelli (CERN), Shawn Mc Kee (University of Michigan (US))	⌚ 15m
15:00	→ 15:30	Results of Mini Data Challenges in the U.S. Speakers: Diego Davila Foyo (Univ. of California San Diego (US)), Shawn Mc Kee (University of Michigan (US))	⌚ 30m

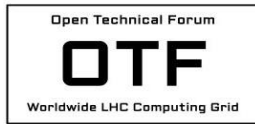
Since showing the WLCG LHCC Referees a draft outline of chapter topics for the WLCG Technical Roadmap in June, we have been completing the team of “chapter facilitators” or editors.

A sixth TCB meeting was held on August 28th [[Indico](#)] to checkpoint progress and outline the next steps in writing the individual chapters.

Most of the team is in place, though we still have to negotiate with some external development or working groups (e.g., FTS) for input.

The next TCB meeting will take place around the end of the month, to be determined.

Future Meetings



Open Technical Forum:

- OTF#7 Co-located with FTS & XRootD Workshop at PIC, October 13-17 [[Indico](#)]
 - 2½ hour session on Tuesday, October 14th [[Indico](#)] at 15:00 (CET)
- OTF#8 TBD, was tentatively late November or early December; however, there will be the WLCG Workshop on Heterogeneous Architectures, December 3-5 [[Indico](#)]. Likely we'll push OTF#8 into 2026.

A preparation meeting on GPU benchmarking may be scheduled before the December workshop on Heterogeneous Architectures in WLCG.

- We met with the HEPScore benchmark developers last week. It seems there is some uncertainty on the next steps, full-machine vs. stand-alone GPU benchmarks. We need help in defining the problem.
- Some of the cross-cutting question of metrics for GPU usage were, between others:
 - resource provisioning and provisioning models
 - CPU-GPU balance (how much CPU per GPU, etc.)
 - offload factor and utilization efficiency
 - memory and I/O requirements
 - scalability and portability across platforms
- Community input is needed: trying to start with something concrete, a stand-alone GPU benchmark might be achievable in the near term, since maximally utilizing simultaneously both CPU + GPU in the same machine is a scheduling nightmare. $HS23(\text{machine}) = HS23(\text{CPU}) + HS23(\text{GPU})$ might be good enough? Food for thoughts to be discussed during future meetings.

Comments or Questions?

Backup Slides (for information)

There are 3 relevant CERN [e-groups](#):

- **wlwg-technical-coordinators** (to contact Ale & James)
- **wlwg-technical-coordination-board** (currently with ex-officio members included only, to be populated with the membership of the TCB)
- **wlwg-open-technical-forum** (**open to self-subscription, please join!**)

and two new Indico categories:

- WLCG Technical Coordination Board: <https://indico.cern.ch/category/18888/>
- WLCG Open Technical Forum: <https://indico.cern.ch/category/18889/>

The GDB e-groups will eventually be archived but for now we are also using [project-lcg-gdb](#) to publicize OTF meetings.