DUNE Computing General Meeting

Mike Kirby

on behalf of the Computing Consortium

17 Oct 2022

Oct 17 - today in history

- 1907 – **Marconi** begins the first commercial transatlantic wireless service.
- 1931 – Al Capone is convicted of income tax evasion.

Agenda for today

4:30 PM — **News from Computing Consortium**
Speakers: Dr Andrew MCNAB (University of Manchester), Heidi SCHELLMAN (Oregon state), Dr Michael KIRBY (FNAL)

4:35 PM — **News from partner projects (OSG, WLCG, IRIS, HEP-CCE, HSF, Root, Rucio … etc)**

4:40 PM — **Any big updates**
Speakers: Claire DAVID (York University / FNAL), Heidi SCHELLMAN (Oregon state), Kenneth HERNER (Fermilab), Michael (FNAL), Steven TIMM (Fermilab)

Operations

4:55 PM — **protoDUNE II Horizontal Drift (np04) operational status**
Speaker: Dr Michael KIRBY (FNAL)

5:00 PM — **protoDUNE II Vertical Drift (np02) operational status**
Speakers: Elisabetta PENNACCHIO, Dr Elisabetta PENNACCHIO (IN2P3)

5:05 PM — **Operations Meeting report**
Sites, networking, and central DUNE computing services (GlideinWMS, SAM, RUCIO, CRIC, ETF, Databases).
Speaker: Dr Steven TIMM (Fermilab)

5:10 PM — **Production status report**
https://fifemon.fnal.gov/monitor/d/000000053/experiment-batch-details?orgId=1&from=now-30d&to=now-5m&var-experim
Speakers: Elisabetta PENNACCHIO (IN2P3), Dr Kenneth HERNER (Fermilab), Tejin CAI (York University)

5:15 PM — **ProtoDUNE HD/VD DRA Offline Coordination**
https://samweb.fnal.gov:8483/station_monitor/dune/stations/dune/projects
Speakers: Barnali CHOWDHURY (Argonne National Laboratory), Jake CALCUTT (Oregon State University)

5:20 PM — **PD/FD/ND Software Development** — ⏱5m
(This item should probably be split into smaller units?)
Add in Coldbox (Iceberg/np02/np04)
Speakers: Barnali CHOWDHURY (Argonne National Laboratory), Dr Elisabetta PENNACCHIO (IN2P3), Elisabetta PENNACCHIO, Mathew MUETHER (Wichita State), Dr Mathew MUETHER (Wichita State University), Dr Thomas JUNK (Fermilab)

5:25 PM — **Databases Development** — ⏱5m
Speakers: Ana Paula VIZCAYA HERNANDEZ (Colorado State University), Heidi SCHELLMAN (Oregon state), Lino GERLACH (BNL), Prof. Norm BUCHANAN (Colorado State University), Norman BUCHANAN, Paul LAYCOCK (Brookhaven National Laboratory (US))

5:30 PM — **Software Management** — ⏱5m
Speakers: David ADAMS, David ADAMS (BNL), Jake CALCUTT (Oregon State University), Dr Kurt BIERY (Fermilab), Dr Thomas JUNK (Fermilab)

5:35 PM — **Frameworks** — ⏱5m
Speakers: Dr Andrew NORMAN (Fermilab), Paul LAYCOCK (Brookhaven National Laboratory (US)), Thomas JUNK (Fermilab)

Computing Services Development

5:40 PM — **Data Management development** — ⏱5m
SAM, RUCIO etc
Speakers: Dr Andrew NORMAN (Fermilab), Doug BENJAMIN (Brookhaven National Laboratory (US)), Igor MANDRICHENKO (FNAL), Dr Steven TIMM (Fermilab), Dr Stuart FUESS (Fermilab)

5:45 PM — **Workflow Development** — ⏱5m
WFS, HEPCloud, GlideinWMS, POMS, etc. https://github.com/DUNE/dist-comp/labels/WMSdev
Speakers: Dr Andrew MCNAB (University of Manchester), Dr Andrew NORMAN (Fermilab), Kenneth HERNER (Fermilab), Dr Steven TIMM (Fermilab)

5:50 PM — **Information Systems development** — ⏱2m
CRIC
Speaker: Doug BENJAMIN (Brookhaven National Laboratory (US))

5:52 PM — **Monitoring Systems development** — ⏱2m
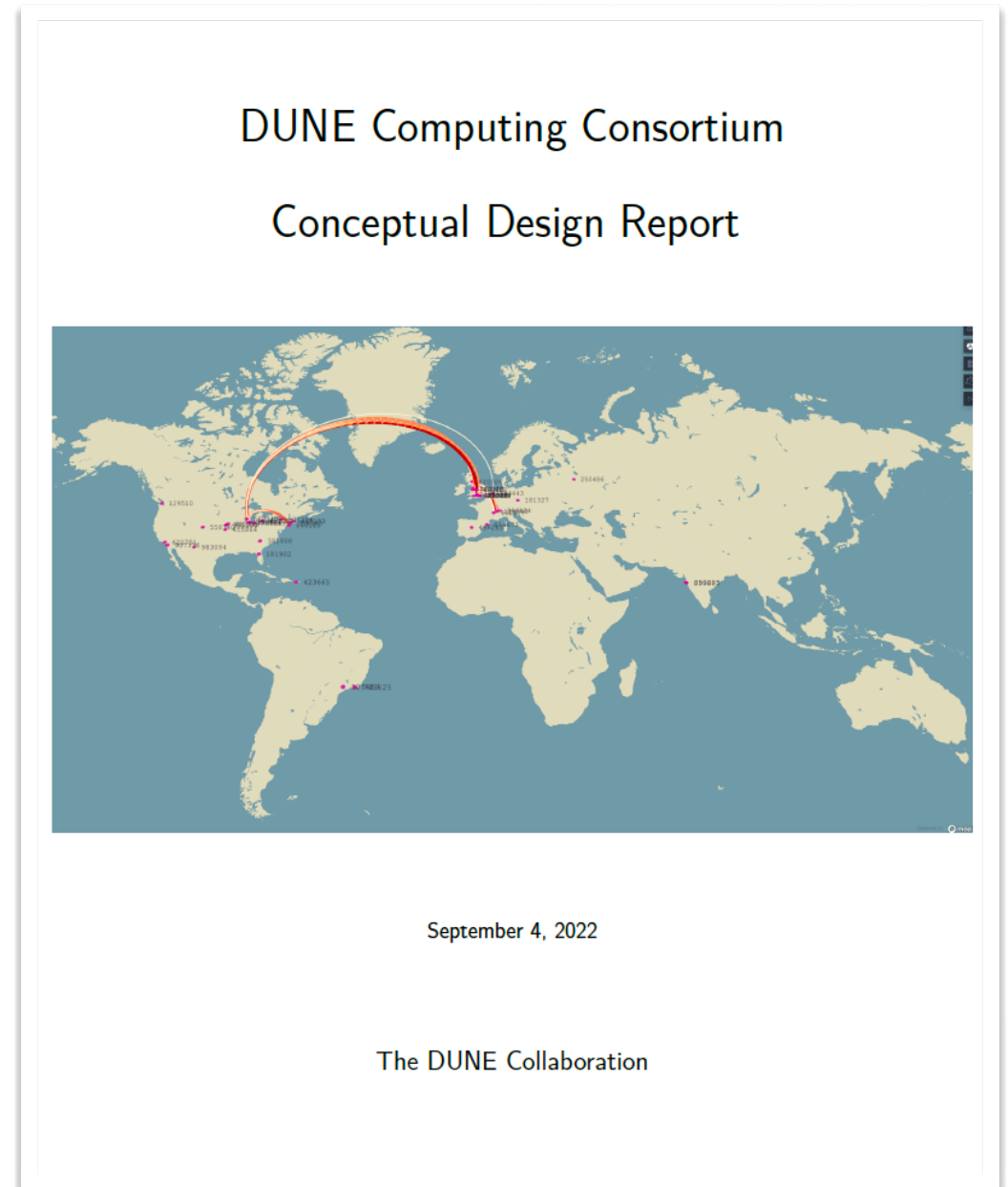ETF site monitoring, RUCIO monitoring, perfSonar network monitoring
https://etf-dune-preprod.cern.ch/etf/check_mk/index.py?start_url=%2Fetf%2Fcheck_mk%2Fview.py%3Fview_name%3Dallhosts
https://dune.monitoring.edi.scotgrid.ac.uk/app/dashboards#/view/7eb1cea0-ca5e-11ea-b9a5-15b75a959b33?_g=(filters:!(),refreshInte (pause:!t,value:0),time:(from:now-1d,to:now))

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Thank you!

- Copy Editor and Overleaf Magician - Anne Heavey
- Collaboration authors and commenters - David Adams, Douglas Benjamin, Norm Buchanan, Tejin Cai, Jake Calcutt, Peter Clarke, Claire David, David DeMuth, Kenneth Herner, Thomas Junk, Paul Laycock, Andrew McNab, Mathew Muether, Andrew Norman, Elisabetta Pennacchio, Steve Timm, Tingjun Yang, Zelimir Djurcic, Barnali Chowdhury, Peter Van Gemmeren, Michael Mooney, Ana Paula Vizcaya Hernandez, Stu Fuess, Alex Wagner
- lead editors - Heidi Schellman and Michael Kirby
- external contributions - Igor Mandrichenko, Andrey Bobyshev, Ramon Pasetes, Brandon White, Steve White
- have been approved by Lia Merminga Oct 10 and approved for external circulation Thursday
- fixing a few issues in the glossary
- will submit to the arXiv later this week

DUNE Computing Consortium

Conceptual Design Report

September 4, 2022

The DUNE Collaboration

Fermilab

News

- DUNE Collaboration Call - https://indico.fnal.gov/event/56566/
  - video of the call available on indico
  - call special attention to the discussion of the Code of Conduct
- WLCG Workshop Nov 7 - 9 — https://indico.cern.ch/event/1162261/
- Rucio Community Workshop Nov 10 - 11 — https://indico.cern.ch/event/1185600/
- CHEP 2023 — https://www.jlab.org/conference/CHEP2023
  - Norfolk, Virginia, USA May 8 - 12, 2023
  - Abstract submission closes Nov 17, 2022
- Remember that conference talks need to be organized through the Speakers Committee and a practice talk scheduled

🧲 **Fermilab**

Disk and Tape Usage

- DUNE persistent volume is > 97.5% full
  - Steve updated instructions for physic group space usage
  - https://wiki.dunescience.org/wiki/DUNE_Computing/Using_the_Physics_Groups_Persistent_Space_at_Fermilab
- Serious issues with FNAL tape reads and writes
- writes were paused over the weekend to let the queues recover

Last 30 days of /pnfs/dune/persistent

🎅 Fermilab