

Status and Plans for the Research Networking Technical WG

Wednesday, 29 March 2023 12:10 (25 minutes)

The high-energy physics community, along with the WLCG sites and Research and Education (R&E) networks have been collaborating on network technology development, prototyping and implementation via the Research Networking Technical working group (RNTWG) since early 2020.

As the scale and complexity of the current HEP network grows rapidly, new technologies and platforms are being introduced that greatly extend the capabilities of today's networks. With many of these technologies becoming available, it's important to understand how we can design, test and develop systems that could enter existing production workflows while at the same time changing something as fundamental as the network that all sites and experiments rely upon.

In this talk we'll give an update on the Research Networking Technical working group activities, challenges and recent updates. In particular we'll focus on the flow labeling and packet marking technologies (scitags), the new effort on packet pacing and related tools and approaches that have been identified as important first steps for the work of the group.

Primary authors: BABIK, Marian (CERN); MC KEE, Shawn (University of Michigan (US))

Presenter: MC KEE, Shawn (University of Michigan (US))

Session Classification: Networking & Security

Track Classification: Networking & Security