Network Architecture, Operations, and Policy Program Advisory Group: Open Meeting with the Internet2 Community

Notes

***April 25, 2017, 7:30-8:30 AM***

***Meeting Room 8/9***

Wendy Huntoon (KINBER and co-chair of the NAOPpag) welcomed the group assembled at this Global Summit meeting open to all who are interested in the NAOPpag and the committee’s role with the Network Services division of Internet2.

Linda Roos, Sr. Dir., Service and Implementation highlighted notable activity pursued by the pag since the last Global Summit; she mentioned topics currently under discussion with the group and introduced George Loftus, AVP, Business and Relationship Management, to provide a more in depth look at one of these topics, the development of a DDoS service to be offered to the community.

George explained the evolution of the idea leading to development of and an update on the progress of implementing a cloud-based volumetric DDoS mitigation service. Following interest and input from the community, Internet2 issued an RFP. Six responses were received and ZenEdge was selected as the company which could best meet the needs of the Internet2 community. A pilot program consisting of regionals and campuses will test the concept, prior to its release to the community. One of the goals is to keep the price point reasonable and the greater the number of members who participate in the program, the lower the cost for all.

John Moore, AVP, Research Engagement and Support, provided an update on the External Working Group’s meeting held Sunday during the Global Summit. John, along with Jim Bottum, Internet2’s Presidential Fellow, are working with the community to focus attention on large data usage as well as engaging the research community regarding Internet2 operations.

John Moore next described the community effort involved in creating a set of requirements for the future network. He spoke of the call for papers to the community issued at the 2016 Technology Exchange that resulted in the submission of approximately 30 papers from campuses, regionals and vendors. In January, a workshop was held with authors of the papers to discuss the ideas presented. Two working groups were formed to further discuss ideas presented at the workshop: 1. Supporting Data Intensive Science and Network Research, and 2. Supporting the Academic Enterprise. John invited anyone interested to attend the Community Infrastructure Requirements Working Group meeting on Wednesday at 7:15am.

Wendy Huntoon next opened the meeting for discussion of topics of interest to the meeting attendees. Topics included integrating perfSONAR with XDMOD, recognition that some people are headed toward 400G links, dynamic optical networking, the movement toward automated services on campuses due to costs, the difficulties on campuses (and elsewhere) of hiring expectations, and personnel development. The group also addressed capacity, noting that funding growth in capacity is becoming unsustainable. As demand moves the need for additional capacity into the high cost range, there is a desire to contain costs. It was noted that the optical world may provide some benefit, as well as the downstream benefits that may accrue from the large players (Google & Facebook) pushing with vendors.

The meeting was adjourned by Wendy at 8:30am.

Follow-Up Items:

1. Celeste Anderson will report out to the group on network changes at USC.
2. Internet2 needs to do more workshops for engineers.