NAOPpag Monthly Meeting Notes

11/18/2020

2PM – 3PM ET

Box Folder:  <https://internet2.box.com/s/bapopc8osyoa6fm1m36cw9h023ebhy7k>

<https://internet2.zoom.us/j/393114449?pwd=dkY2YlV1NmNSZ3BMYUphZUdqb1hadz09>

Attendees: James Deaton, Shawn McKee, Derek Masseth, Jim Stewart, Tracy Smith, Dan Schmiedt, Frank Seesink, Scott Valcourt, Sarah Christen, Jonah Keough, Bernie Gulachek, Dee Childs, Rod Wilson, Mike Corn

Staff: Rob Vietzke, Kathleen Kay, Linda Roos, Paul Howell, Mike Simpson, George Loftus

James Deaton welcomed the members of NAOPpag to the meeting and announced that the CC\* solicitation was released today.

Continuing the security discussion that began in October, the group discussed which areas of focus they would like Internet2 to pursue in the near or long-term. Paul Howell addressed the opportunity we have to steer sensitive campus traffic through our R&E collaborators and asked how we can do a better job supporting a higher level of assurance as workloads enter and exit the cloud; what compliance issues may be involved?

Dee Childs said she has no visibility into what goes on in the WAN, no knowledge of what goes on between the edge of her campus and Internet2 with the multitude of pathways that exist. Paul Howell suggested creation a map or diagram of “what goes where,” and thinks it would be interesting to know what kinds of security metrics from the network perspective would be interesting to folks. Tracy Smith believes that having visibility into what’s going on in the WAN helps support what people on her campus are trying to accomplish and asked if there is a way to tightly couple the security conversation and network conversation around the science DMZs. She sees an opportunity for Internet2 to broker the conversation between security and the network. Rob said there have been discussions on having a program for the science DMZs, but it’s complicated and the effort lends to less resiliency. Dan Schmiedt commented that one of the curses of running a network is that you want it to run seamlessly and therefore it’s not noticed, making it hard to market. James Deaton suggested that Internet2 create a project to help the regionals augment information about threat trends being seen as sources and destinations of traffic are being analyzed.

**Discussion Topic**: 2021 NAOPpag Potential Topics

Rob asked the new PAG membership to suggest topics that they might like to work on next year and the next step would be to prioritize the list.

The following (in bold letters) are some brainstorms of potential topics for discussion by the NAOPpag during 2021.

**Network support for science projects/support for research**

The question was asked about this falling into the LHCONE committee, is it appropriate for edge-to-edge discussion? The feeling was that the topic may be too broad, as written.

**Edge-to-edge**

This topic came up during requirements gathering in NGI, looking for more wholistic approach, and as a community we need to make progress here.

James Deaton sees this as spinning into a subcommittee to discuss and help flesh out what edge-to-edge means. Jonah Keough thinks this dovetails into a conversation about different services available to give people a uniform experience across the network- for both members and non-members.

Campus administrative and research leaders have asked providers in the ecosystem to simplify support for edge-to-edge community traffic flows from one campus to another (or to the cloud); discussion of how best to pursue multi-provider coordination and service providing across Internet2 and the regional networks.

**Integration of cloud**

Internet2 provides Cloud Connect to the “direct connect” products of Amazon, Google and Microsoft in four locations (Ashburn, Chicago, Dallas, San Jose). Internet2 also provides Rapid Private Interconnect to cloud providers in the same four locations with plans to add New York, Seattle, Los Angeles as demand grows. Is the current service meeting needs? Where should we prioritize future effort and enhancements?

Rob noted that this is a large growth area for Internet2 and the regionals; the question is if we going fast enough and doing the right things?

**Security**

An overview of the current network security strategies was provided in October. There was interest in continuing the conversation, especially with respect to what the community is doing in the security space and how Internet2 can support those efforts.

**International Strategy**

Rob remarked that there exists a complicated ecosystem strategy. The U.S. is the only country that does not fund networking. Should Internet2 play a role in advocating a different approach to national funding? Funding should probably be added to this list of topics.

**National and International Policy discussions**

A new administration may impact national policy on broadband, science and education and international policy around internet development. There is the recognition that with a new administration and FCC new activities will arise. In the past, PAGs have been involved with some of these efforts.

To be added to the list of potential 2021 topics:

**5G and wireless**. Is this a network service or cloud based? YES

**Funding**

At the next meeting the group should decide on to do with this list- prioritize a few items, or roll them all up?

• **Update items**

1. Internet2 Board Meeting-

Pradeep Khosla, Chancellor of the University of California, San Diego, is the new Chair of the Board of Trustees, the new Vice Chair is Romayne Botti, Vice Chancellor for Finance Rutgers University. Updates were given on the progress of NGI and NET+, InCommon and membership activities. Discussions took place on the financial health of the academic community and the NGI plan versus the reality of the pandemic.

1. Optical and Packet Implementation
   1. Rob displayed graphs of progress & projections

• **Other Topics**

• **Next meeting**: December 9, 2020