**NAOPpag Monthly Meeting Notes**

**5/13/20, 2:00 ET**

Zoom: <https://internet2.zoom.us/j/393114449>

Box Folder: [https://internet2.box.com/s/xi78gopmtmyi16aoppmpik19x1br8ono](https://internet2.box.com/s/levxf8ud13liomm8ph1pmz31b9637q9a)

**Attendees:**

James Deaton, Rod Wilson, Michele Norin, Jim Stewart, Marc Wallman, Scott Valcourt, Celeste Anderson, Frank Seesink, Dee Childs, Harvey Newman

**Staff:** Rob Vietzke, Kathleen Kay, Linda Roos, Paul Howell, George Loftus, Chris Wilkinson

**Agenda**

James Deaton welcomed members to the NAOPpag meeting and Rob Vietzke announced that the Internet2 Technology Exchange planned for October, 2020 in Denver has been cancelled, but that Internet2 is exploring opportunities to provide workshops and webinars in the fall.

Rob then introduced Mike Simpson, Internet2 Director, Infrastructure Systems & Software.

Rob explained that Mike was hired to lead software integration, automation and orchestration, performance monitoring and telemetry aspects of NGI.

* 1. Mike gave his bio information and is supervising Karl Newell and Mark Feit.

Steve Wallace and Paul Howell provided updates on two security related initiatives.

Resource Public Key Infrastructure (RPKI)

Internet2 is adding the capability to access the validity of routes using RPKI. RPKI provides a cryptographic method to verify the ownership and origination of IP networks.  Initially this information is being used to better understand the deployment of RPKI within the community.  Steve said Internet2 is trying to increase awareness in the community about best practices via webinars, tutorials, office hours, online materials and targeted outreach.

Paul called this topic a longer-term goal. The only entity that can create Route Origin Authorization (ROA) is the IP address owners themselves; 50% of Internet2’s university members lack such an agreement (they were previously grandfathered in.) ARIN is the holder of ROAs.

James Deaton suggested that regional connectors reach out to their member institutions to get the word out about RPKI. Sharing some of Internet2’s generated reports with the RON’s would help them make the case.

At this time, AT&T, NTT and others are dropping routes that have not been verified. Internet2 is not as of yet.

Rob asked the CIOs if they are hearing anything about this? Michele Norin and Dee Childs have not. Consideration needs to be given to intensifying outreach efforts.

Jim Stewart asked that the Internet2 report be sent to him in order to find out where his organization stands. The group asked that this topic remain on the agenda for future discussion and reports of community progress.

Keep this on agenda for follow up item

Internet Routing Registry (IRR)

*We’re also working with regional network operators to ensure the community is able to meet the upcoming requirements of peer networks such as Google, Hurricane Electric, and others. Starting this summer these networks will require that all network routes they receive have consistent IRR records.*

*Both RPKI and IRR are elements of the Mutually Agreed Norms for Routing Security initiative (aka* [*MANRS.org*](http://MANRS.org)*)*

Internet2 has to publish our routing policy in order to peer with Google, if routes aren’t published by July, Regional networks will lose access to Google. Facebook, Amazon and others are close to having the same requirement. Internet2 announced this last summer and has hosted multiple tutorials to assist members in gaining compliance. We have a high degree of confidence this will work out.

The Internet2 executive team met with a representative from each Program Advisory Group (PAG); Marc Wallman, the NAOPpag representative, reported the group discussed mapping out where FCC data is being used for broadband coverage and where the students are at home in an effort to better understand broadband needs for when students are not on campus.

Individual members shared information about what is going on in the various PAGs.

Discussion moved to COVID-19 matters in the community. Rob noted that, in order to facilitate the move from campus learning to home learning, Internet2 augmented I2PX connectivity for home internet with Comcast, Time Warner, Zoom. Marc Wallman mentioned that he is currently working on connectivity efforts with the Northern Tier.

Rob introduced the topic of stimulus funding position papers by Internet2 & The Quilt, addressing the issues of wireless and the middle mile.

[*EDA CARES Act Recovery Assistance page*](https://gcc01.safelinks.protection.outlook.com/?url=https%3A%2F%2Flnks.gd%2Fl%2FeyJhbGciOiJIUzI1NiJ9.eyJidWxsZXRpbl9saW5rX2lkIjoxMDQsInVyaSI6ImJwMjpjbGljayIsImJ1bGxldGluX2lkIjoiMjAyMDA1MDcuMjExNzkxODEiLCJ1cmwiOiJodHRwOi8vd3d3LmVkYS5nb3YvY29yb25hdmlydXMvP3V0bV9jb250ZW50PSZ1dG1fbWVkaXVtPWVtYWlsJnV0bV9uYW1lPSZ1dG1fc291cmNlPWdvdmRlbGl2ZXJ5JnV0bV90ZXJtPSJ9.L6LpxNBZ1IposHEPc84R94Qz4V0TCeogTKkS7zCX4TE%2Fbr%2F78360163171-l&data=02%7C01%7Cantonio.ceballos%40trade.gov%7Cd66fb42713f746e0ea5f08d7f2963b05%7Ca1d183f26c7b4d9ab9945f2f31b3f780%7C1%7C0%7C637244599369969783&sdata=t4bzdb%2F3OoAURipWZSYCGP6ypZIZ3%2B6T5wdeuyyyC%2FE%3D&reserved=0)

There is an effort to try to calibrate needs in order to build consensus on what is actually needed in the community. NSF requested Internet2 assistance in putting together stories about how campuses are trying to get research restarted. Dee Childs mentioned that she asks her institution to utilize any influence they have in Washington, DC to push awareness about the internet divide.

George Loftus asked what this group believes is the focus of campuses is for fall.

Marc said it’s all hands on deck to get people back to campus, though the model may become a kind of hybrid, with online courses still a part of the package. Harvey Newman said it’s been decided that kids in LA county will not go back to campus in the fall.

Michele said Rutgers is planning around all scenarios, thinking it may become a hybrid model. Rod Wilson indicated that most, if not all, Canadian universities say courses will be offered online. Some students need access to laboratories- so there may be a hybrid solution included.

Rob noted that after rapidly adapting from students on campus to students at home, when on-campus learning resumes, there will be a new traffic pattern as we put everything in reverse or have students both at home and on campus. Dee feels this provides an opportunity to move modern authentication to cloud. Both Marc and Michele agree working out the details of a hybrid model, with some students in class and some students remote, is the largest challenge

Next meeting - June 10