



## NAOPpag Monthly Meeting Notes- Global Summit

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03/06/2019

### **Closed Meeting** **8:30 AM – 9:20 PM ET**

Box Folder: <https://internet2.box.com/s/xi78gopmtmyi16aoppmpik19x1br8ono>

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

Not able to attend: Brad Fleming, Wendy Huntoon

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

#### Notes

1. Welcome (James Deaton)

2. Next Generation Infrastructure: *Service Model Subcommittee Service (Dee Childs)*

*Dee will provide a brief report from the Service Model Subcommittee and Principals' meetings.*

Dee reminded everyone of the guiding principles that the Connector/Network Member Principals created in 2016 including maintaining quality of service, upping the game to offer more services, ensuring that Internet2 has the revenue necessary to operate services. We discussed business models during the January 2019 Tempe meeting and have worked to refine them since then.

Detailed 3 initial business models

1. Grow capacity, spend a similar amount
2. Platform fee
3. Buffet model- #3 proved too confusing, had lack of clarity and has been dropped as a proposal

In the Global Summit Principals meeting, 5 principles were agreed to:

1. Support data centric researcher
2. Support software driven infrastructure
3. Support cloud migration for research & administration
4. Support campus/regional network ecosystem
5. Reset Internet2's operating and scale economics.

During the Principals meeting, a community driven committee/task was proposed to provide agreement on baseline expectations and what being a full participant in community activity means- can't just be a consumer.

Harvey Newman asked how research support plays into this. Rob stated that Internet2 is looking for definitions of what support means from each group. Dee added that no one organization can totally provide all the support that is needed. There is great pressure from campuses to cut costs/expenses. History has shown that NSF makes investment in bits &



pieces in infrastructure to support research. On the national level, there's no real support for end-to-end, so having the community come together around this is important.

The Service Model Group suggested that a platform fee be implemented. This will guarantee stability for Internet2 sustainability. It also allows the 33 connectors, all with different models, to have some time to think about new services & evaluate benefits. There is a role for this advisory group to watch risk and help the community understand value. Michele Norin mentioned that it might be interesting bringing the NET+ and Network Services conversations together in cloud conversations. Marc Wallman mentioned that in the first PPC group call, finding the intersection between the groups came up during call. James Deaton mentioned that there needs to be some time during transition for the regionals to adapt to the new platform.

### 3. Ecosystem Expectations (Rob Vietzke)

Some background: After several years of productive community conversations, we have settled on a number of value propositions for the R&E infrastructure ecosystem to deliver to our campus members over the next several years. These include 1.) Support for the Data Intensive Researcher, 2.) Support for Research and Administrative use of Cloud, 3.) Enabling Software Driven Infrastructure, 4.) Developing Ecosystem wide architectures and 5.) Resetting the scale economies of our infrastructures for growth. Internet2 and many regionals are making progress on building blocks to enable this value proposition, and the time is now ideal to convene a community task force to document expectations for research teams, campus support, regional and national networks to implement these support systems on an ecosystem wide basis.

Discussion ensued about the members of the task force including system designers, research support, networking, cloud, etc. Jim Stewart, Harvey Newman, Scott Valcourt and Dee Childs volunteered to work with Internet2 staff to start the task force and suggest the type of people needed as members. A call will be organized to discuss.

### 4. Other topics

Marc provided information on the 1<sup>st</sup> PPC call that included a representative from each policy advisory group.

## **Open Meeting 9:20-10:00 (Over 100 participants)**

### 1. Welcome (James Deaton or Marc Wallman)

Everyone went around the table introducing themselves.

### 2. Review 2018 PAG accomplishments

Linda presented a list of 2018 NAOPpga accomplishments

### 3. NGI project overview- from a governance perspective

3 NAOP subcommittees formed as advisory groups for NGI

1. Service Models, chaired by Dee Childs
2. Infrastructure, chaired by Jim Stewart
3. Software & Automation, chaired by James Deaton



The looming question- How do we reset the economic model?

We are now starting the Packet RFI process. What are the challenges here? What keeps you up at night?

- Support for intelligent science workflows
- Optical networking is advancing fast & many CIOs are concerned with cutting costs
- The breadth of the challenge is huge, but impact might be higher
- Evolution of what we should be doing with networks
  - Fundamentally reevaluating the value of infrastructure
- Will infrastructure scale to what we want to do? How do we integrate tools into our networks?
- We have homogenized our network with the cloud, getting us to the least common denominator. We should be looking at what is the next thing, next generation. Scientists are blowing past what we can do.
- What are the expectations of researchers & campuses?
  - Peer pressure works -- campuses want to know why they have to do this. We need to apply peer pressure, must do certain things if you want to enable your campus to participate in many activities
  - Figure out what we need for 2022.
  - Example: University of Minnesota did a \$70m campus upgrade, (same as USC), (help them keep the lights on,) DNS, wi-fi (face of the network to faculty, students, researchers.) The campus needs to reinvest savings into leading edge technologies and Internet2 can help.

TR-CPS- what is the long-term strategy?

- Cyberinfrastructure is becoming more important.
- Connect to high-value peers.
- Caching and delivering.
- Regionals are picking up more local peering. how do you enable one regional to connect to another region for peering.

How do you manage federations at the local level? This is tough but needed.

#### 4. Other GS Sessions to learn about NGI and Cloud Connect

- 1:15-2:15 today - Rob giving catch all broad update talk.
- NTAC Performance Working Group today at noon-1pm Judiciary
- NTAC Security Working Group (same time Marquis br 10)
- Cloud Connect Portal Demo (Mint) 2:15-2:45
- Connector/Network member BoF 4:30-6 today
- NTAC 7-8:30 tomorrow (Thursday)