April 2,2013

NTAC 4-2-13

V6 update: The Working group will have a Face to Face at the Annual meeting in April. Michael will run the meeting, as Alan will not be there. They will work on an agenda.

Peering and Routing: The WG skipped last months call but there will be one in April (Tuesday 16th). The layer 3 architecture work is much closer to being ready. They will work on the metrics discussion. Jeff asked for the GRNOC or Staff to do a presentation on currently available tools. Perhaps in April.

Measurment WG. Ken reported that the paper about settings for locations with Firewalls to deal with is largely ready to go.

- The NTAC has responded
- He will work on getting it out to the public very soon
- He is looking at a number of places to post it
- Announce it at the member meeting
  -Talk to ESnet about putting it on the faster data site.

SDN: Still having calls. Using Etherpad to take notes. They find it works very well. Bill Snow and others from the ONlab have joined the calls. Working on:

- How to get started with Open Flow Cookbook written by a smaller group and directed at the campuses.
- Discussion about the management plane
- GEC 16
- Face to Face meeting at the member meeting.

Chris then reported on the AL2s installs. Jacksonville, Raleigh and Seattle are done. Ashburn, Minneapolis, Albany, Phoenix and Boston are on the list next. Ordering and timing largely depends on getting the Colo in place. These are Juniper installs, they should all happen fairly soon.

A question came up about the Juniper Testing of the Open Flow code. Ed Balas responded by saying he was not sure if the Juniper test results had been sent out. Eric suggested we send them out annotated to reflect current results. Those have been sent out at this time.

100G interface issues: Internet2 has noticed an issue

- Short microbursts of outages.
- Esnet has seen the same behavior
- This is being worked on, not sure if its a Ciena, Brocade or LR-10 issue. Seems to be LR-10.
- There is a patch but it is not a persistent fix. On track for a permanent fix.
- The NOC will roll out the patch network wide on Friday the 5th at 11:00 PM (this was done).
- Generally it appears as a 1 - 4 sec hit every 24-72 hours.
  As soon as it is known the code release and due date for the fix will be sent out.

NOC Updates:
On the router swaps there are 6 done. LA, Atlanta, DC and NY remain and will be done in the next few weeks, skipping the week of the member meeting. The handover of the Northern Tier network from Zayo was done on friday March 29. Currently working on deploying in order to start testing in the next week. The AL2S circuit between 710 North Lakeshore and Seattle should be in production by Mid- next week (11th or so).

Chris then presented the Slide deck on the Layer 3 over AL2S suggestions. There were a few questions:
Akbar asked what the architecture will look like if an AL2S connector is using TR-CPS? Chris responded that issue was not really in scope for the current work, but it is being considered and generally will look a lot like the rest of the services.
Akbar followed up by asking how the optimal places for interconnects will be chosen. This was deferred to Darrell. The answer was that for now this is Demand Set driven. Darrell agreed that TR-CPS was not included in the slides. They are working on obtaining interfaces and waiting to hear from participants.

David asked if this could be discussed at the next Peering and Routing WG meeting. It will get put on the agenda. David also requested an update or something the week before the member meeting.

Restoration and Failover: There is work on:

- Comparing restoration times of OE-SS and Layer 3
- Thought about if it would be work revisiting the IGP and looking at tuning it.
- There needs to be a conversation about how to prefer links given all of the new interconnects that are proposed.
  -Is the IGP set up to handle all of these links?
- There are some ideas around but we are asking people to at least take a look and think about it some.
- This topic should get taken to the peering group for them to work on. It will be placed on the agenda.
  Chris will get some information to the peering and routing WG. The conversations will also be scoped out in order to keep it within reasonable bounds. Chris will share material with Michael, David and Jeff. Once that is done a broader call will be made.

The communities and policy discussion will be moved to the peering WG as well.

The NTAC futures discussion will take place at the face to face meeting at the Member meeting.

SDN WG Meeting Tuesday 4/23 7:30 AM Salon B
V6 WG Meeting Tuesday 4/23 12:00 PM Rosslyn II
Performance WG Meeting Tuesday 4/23 5:30 PM Salon F/G
NTAC WG Chairs (invite only) Wed. 4/24 7:30 AM Jefferson
NTAC Face to Face Wed. $/24 12:00 PM Salon B

Eric Boyd, Michael Lambert, Azhur, Alan, Linda Roos, Andrew Lee, Hans Addleman, Scott Brim, Dan Schmeidt, Alison Ferriera, Chris Robb, Jeff Schwab, Dave Pokorney, Nick Buraglio, Cas d'Angelo, Paul Love, Ed Balas, P.J. Clayton, David Crowe, Matt Z., Chris Spears, Darrell Newcomb, David Wood, Dave Diller, Shumon Huque, Ken Miller, Edward, Deniz, Linda Winkler, Grover Browning, John Moore, Drian Cahsman, Roger Hess, Jeff Bartig.