

NTAC Peering and Routing Working Group

10/15/2019 Call Notes

1. Agenda Bash
 - a. Dan Schmiedt asked if we could discuss the cause of today's network outages that were apparently the result of iBGP drops on the I2 network.
2. Update on peering, I2PX and I2
 - a. During recent Apple software updates, Jeff Bartig noted several busy links. There were traffic patterns that haven't been seen in the past. Traffic was running across I2 instead of direct peerings. Jeff is in the process of moving apple peerings to for 40Gs to 100Gs.
 - b. Michael Lambert: anything from Fortnight? Dale Finkelson: Fortnight was offline for some days and is now back on. There was a surge of traffic when it came back with a new version.
 - c. Google 100G peerings are now complete.
 - d. Have a number of peerings with Amazon that are stalled. Amazon has been unresponsive and is apparently short on 100G ports at multiple locations.
 - e. Microsoft also is out of 100G ports in Chicago and Ashburn, so are going with 10G augments for the short term.
3. Network Weather Update - Trends and Coming Events
 - a. See above- Apple and Fortnight.
 - b. Jeff Bartig: Many networks going into change freezes as we approach Black Friday and holidays.
4. I2 Network update
 - a. Jeff Bartig: In regards to today's outage, there was a change applied globally through an automated system. A configuration change (adding an iBGP neighbor with a cluster ID) was made that caused iBGP neighbors to flap.
 - b. Chris Wilkinson: We see this as a process issue. This change should not have been applied when it was applied. Internet2 will be reviewing internally, as the change process in currently in place [apparently] failed.
 - c. Michael Lambert: was this a configuration change that triggered a bug? Jeff: no, this was expected, documented behavior. See process comment above.
 - d. NGL optical deployments have started. Chris W: optical hardware is being delivered in field. Hoping to have something up before SC19.
 - e. Packet RFP is well under way. Hope to have it ready to go out to targeted set of vendors this week or soon.
5. I2PX Community Stripping/AS-Path Maximum
 - a. Juniper has released 17.3 code that addresses this bug. Have not completed regression testing yet. Unsure of deployment schedule at this point.
6. AOB
 - a. Dale Finkelson: There have been about 20 responses to the peering survey. Please respond if you have not already.
7. Call ended (in record time) at 4:22pm EDT.