

NTAC Peering and Routing Working Group

04/21/2020 Call Notes

1. Agenda Bash
 - a. None
2. Update on peering and I2PX
 - a. Jeff Bartig: Augments have been underway with home broadband providers: Time Warner, Comcast. Comcast: all augments in 7 major markets from 10G to 100G, complete except for LA. Time Warner has been slower.
 - b. Have also worked with Zoom to augment. New 100G peerings to new Zoom datacenters. However, Zoom subsequently moved much of their load to AWS and Oracle Cloud, so that is where we now see most of the traffic. At some point they plan to shift back to their own infrastructure.
 - c. Group: Reports of multiple issues with Cisco Webex audio.
 - d. Jeff Bartig: Cisco Webex traffic at peering points seems to be shifting to Ashburn and Dallas, where they have 100G ports to local exchanges.
 - e. Internet2 has had no responses from Cisco to queries asking to add capacity to I2. However, there may be progress occurring via recent contact through a sales channel.
 - f. Farmer to group: mystery from this morning: saw a 9G peak this morning, up 1/3 over other days – some kind of software distribution? Probably “Patch Tuesday” MS software updates.
3. Network weather update – trends and coming events
 - a. Tony Brock: any trends?
 - i. Jeff Bartig: for the most part, current network load looks like summer traffic.
 - b. Bill Owens: Palo Alto Prisma Access service: will I2 be arranging peering with them? Matt Z/Steve Wallace: they are scattered in Google and Azure. Is a split tunnel where they provide IDS to your part of the tunnel and (?) on Internet-bound portion of the traffic. Do they do v6? Not sure? Farmer has asked Cisco what their competitive response is.
4. IRR Activities:
 - a. Jeff Bartig: Question has been when is google going to implement their IRR requirement. July seems to be the current deadline. Jeff expects to have a published AS Set ready to go by early June.
 - b. Steve Wallace: will be checking with BGP participants on aut-num records.
5. I2 network update
 - a. No other updates.
6. Any Other Business?
 - a. None.
 - b. Tony Brock: I2 made a concerted effort to be sure resources were available for COVID. Has anyone had any requests for resources?

- i. Jeff Bartig: Heard of one regional asking about making I2PX routes available to regional ISPs. Have not heard anything more about outcomes.
- ii. Farmer: CENIC had announced similar. Bartig: So had WiscNet. Farmer will poke a bit to see what uptake may have been.
- iii. Dale Finkelson: this question should be posed to general NTAC list.
- iv. Farmer: Long-term, how can I2PX become better peered with regional home broadband providers?
- v. Farmer: problem where Chinese students that have to go back home: how to continue their studies remotely there in restrictive network environments.
 - 1. Dale Finkelson: if others are pondering this, let Dale know and he can get you in touch with others working on the issue.

7. Call ended at 4:41pm