

NTAC Peering and Routing Working Group

02/18/2020 Call Notes

1. Agenda Bash
 - a. Tony Brock: CII discussion
 - b. Jeff Bartig: Hurricane Electric and IRR
2. Update on peering and I2PX
 - a. Bartig: adding I2PX peers. Mainly e-sports related peers: Twitch, Valve, Sony Playstation, Lizard, I3d.net. All over public exchanges so far, may be looking to move some to private, perhaps Valve and Twitch.
 - b. Seattle upgraded to 100G to public exchange.
 - c. Bill Owens: Do you peer with route servers? Bartig: Not currently.
 - d. NGI Packet activities: Scott Taylor. Packet RFP moving along. 5 proposals from 4 vendors. Have read through responses. Meeting in person in March to sit through vendor presentations. Shortly thereafter will move into best and final offer round. Will likely downsize vendor list at that point. Expect recommendation to leadership mid-June timeframe.
 - i. Any coalescing to any vendors? Still all fairly close. No clear winner at this point.
 - e. Any good visuals on I2PX pipes? Not yet. Please give Jeff feedback/suggestions on what you might be interested in seeing. James Deaton: would be nice to highlight esports activity.
 - f. Microsoft routes: when will they be leaving the R&E table? Not yet. Box will be leaving end of month. Have been waiting on Microsoft to complete a capacity upgrade in Chicago. Want to make sure there is enough private interconnect capacity there.
 - g. Tony Brock: thinking of this this as a “canary” for the rest of the Net+ routes, how does this affect out thinking. Bartig: Those former Net+ providers without a current contractual arrangement with Net+ will be removed. Those that do have contractual arrangements are more challenging in that we have to make sure no one loses anything by the move.
 - i. Challenge is that a lot of campuses localpref R&E routes.
 - h. Steve Wallace: is it possible to leverage relationship with connectors? Can we lean on connectors to help determine that we’re ready to move routes? Bill: have no way to know what campuses are using out of Net+. Steve: RONs could communicate with their members. Leverage them more as a communications mechanism/conduit. Bill Owens: most campus network engineers do not know what services are being used.
 - i. Tony Brock: could this be a project plan? Dale will investigate.
 - j. Tony Brock: might be a good time to revisit best practices: i.e., most campus should consider prepending ASes towards commodity providers to ensure that return cloud traffic is coming back the right ways.
 - i. Discussion: There are always special cases and it’s a complicated decision. We should consider offer training to help folks make the correct decision.

- k. Does I2PX not count as research a research for some institutions? Bartig: have not heard of any specific instances.
- 3. Network weather update – trends and coming events
 - a. See above
- 4. I2 network update
 - a. See above
- 5. CII conversation
 - a. Dave Farmer sent out an email a few weeks ago. Is there any feedback on the conversation or suggestions?
 - b. Tony Brock: does it matter if CII exists only in R&E, I2PX, or commodity?
 - c. Michale Lambert: this is significantly a policy issue and should go to NAOPpag.
 - d. James Deation is on the NAOPpag. He is happy to be an advocate but would be best if it came up through Frank. Dale will work with Michael Lambert to frame the conversation correctly.
 - e. Further conversation tabled until Dave Farmer can be on the call.
- 6. Hurricane Electric and IRR
 - a. Jeff Bartig: Currently I2PX does not have an as-set because gathering downstream peers is complicated.
 - b. Hurricane last spring applied filters to all peers. This resulted in 11164 (I2 internal) routes only being accepted. I2PX customer prefixes are currently being blocked at HE. Problems arise between hosts who have cogent IPv6 peerings and I2PX peerings because of a long-standing peering dispute between HE and Cogent. Jeff feels the need to publish an as-set although it will be incomplete as there are currently connectivity issues. Any issues?
 - c. Lambert: seems like a very reasonable thing to do.
 - d. Bartig: will not publish as-set in peeringdb.
 - e. No significant issues raised with Jeff's plan to publish an as-set.
 - f. Jeff will proceed.
- 7. Any other business?
 - a. Tony Brock thanked the group for feedback on the thread on esports peering.
 - b. Linda Roos: At Global Summit will use the normal network connector BOF time to talking about Esports; Tuesday March 31st 4:30-6.
 - c. Call ended at 4:51 EST