

NTAC Peering and Routing Working Group

06/16/2020 Call Notes

1. Agenda Bash
 - a. ARIN updates – Michael Lambert
 - b. IRR work – Steve Wallace
2. Update on peering and I2PX
 - a. Fairly quiet on the network lately – summer break for most institutions. Adding peering with Comcast in Denver. Minor upgrades with Charter and TW Cable in Ashburn. Big focus has been IRR activities. Meeting with a number of I2 members to help them get it in better shape.
3. Network Weather Update – Trends and coming events
 - a. A number of queries from various institutions that are looking for fall semester and partial quarantining.
 - i. Large lecture halls shutdown – so likely will have students in res halls in large zoom meetings. This will move significant traffic onto I2.
 - ii. Dale: is anyone thinking about tools other than zoom?
 1. Bartig: Zoom and Webex have been most prevalent. Still working with Cisco on potential Webex peering. Let Jeff know if you are aware of other tools. Pre-recorded video coming typically from CDNs to which we have good connectivity.
 2. Deaton: Google Meet seems to work very well. Has very good Live closed captioning. Very high res video.
 - iii. Discussion of University plans
 1. Oregon state plans on hybrid approach – eg, 3-credit class one credit will be in person, others via remote.
 2. Kansas: will be going with an abbreviated semester, ending at Thanksgiving. Other state schools like to follow suite.
 3. Maryland is not planning to end at thanksgiving, but would like to be able to pivot to. Any class >50 will be online.
 4. UNC: hybrid models. “Dirty” dorms for normal students, Clean dorms for immune-compromised students.
 5. Maryland is planning to have quarantine dorms, de-densifying.
 6. Purdue: most staff will be remote all fall. Will use staff offices to social distance grad students.
 7. Oregon state: grad students back on campus for lab work. IT staff will be working in offices when able. Masks issues.
4. I2 Network update
 - a. NGI: Scott Wilkinson has been working on final stages of RFP eval. On engineering side have been doing lab testing and working to do an eval deployment into a larger scale test bed.
 - b. Steve: 92% of customer prefixes appear to now have consistent IRR Records. Google is applying a slightly less-strict test than the test I2 is using. Verifying that

an origin AS matches route object destination,. As long as origin in in the AS Cone. If you would like a report, just send a note to Steve Wallace.

- c. Lambert: if have not heard anything, assume that things are OK?
 - i. Wallace: Correct.
 - ii. Thanks to Steve and team for working to get this straight to keep everyone connected.
 - d. ARIN45 virtual meeting is going on this afternoon and tomorrow afternoon. Was able to attend some. Big point on IRR is if you use web interface you can't use email templates anymore. Expecting API by end of the year. Dividing IRR entries into two groups. One is legacy group, one is current group. ARIN IRR will contain valid RSAs. Full view will be by mirroring both. Trying to get as many as possible to sign RSAs. Steve Wallace: half of I2 members have legacy spaces with no agreement.
 - i. RPKI ROAs still per-institution.
 - ii. ARIN has been working from home and seems to work fairly well, though some will be returning to office.
 - iii. Tomorrow will be mostly policy discussions.
 - iv. Next ARIN meeting is scheduled for October, possibly in Seattle. Seems unlikely.
5. AOB?
- a. Lambert: Q for Jeff B: Google caches. Any formal contacts within Google for this process? Seem to be decom'ing 3ROX caches.
 - i. Jeff: had been told that Decoms has been cancelled. Can do an introduction. Will contact off-list.
 - b. KanREN: Google caches were removed, even after they showed usage pre-COVID. Discussion
 - c. If anyone else if having issues, Jeff Bartig can help get in contact with the right people at Google.
 - d. Bill Owens: Akamai stack is getting repaced with a new one. Acknowledged mistage and installed a bigger one.
 - e. Dave farmer: IRR is alive and kicking. Has been adding their REN's objects. Will be playing with routing POCs. Either do it yourself here's how, or set us as your routing POC. Likely will be a strong push to kill email templates once API is available but no specific timeline. Still waiting on community input.
 - f. Was also update on RPKI. Has been huge uptake in RPKI from a few hundred ROAs to more than 11K. Uptick in delegated RPKI as well. Not sure on specific numbers.
 - g. Pretty good participation in ARIN meeting.