Internet2 Peering & Routing Working Group
Notes from 4p EDT 4/20/2021 call

1. Agenda Bash
   a. Steve wants to plug router reports.
2. Update on peering and I2PX
   a. Most focus is currently on NGI.
   b. Peering: completed Microsoft upgrade, 2x100G in Chicago.
   c. Box.com needs to leave R&E table but not until capacity augment. Turning up peering in Chicago and move all existing connectivity from r&e into i2px.
   d. Still back and forth with Oracle on connectivity to Western region. Now have connectivity at Coresite in Los Angeles. No expectation of any additional connectivity in Arizona. Will be looking at peering with them wherever possible.
   e. Some connectors noted issues with Webex audio. Investigation revealed cause to be resulting from recent (4/7) 2x 10G peering move to QFX1002 in NY 111 8th POP. Further investigation revealed issues with LACP on the 2x10G on the QFX. Appears to be incompatibility with LACP keepalive rate on I2 QFX1002 and NYEX Extreme switch. NYEX changed their side to keepalives 1x/sec and issue appears to be solved.
3. Network Weather Update – Trends and Coming Events
   a. No sig weather events predicted/known.
4. Internet2 network update
   a. NGI continues – April will be spent testing. Chris will be here next month to give update. Testing and pre-shim testing is underway. Failover testing with Lumen is currently underway.
5. Any other business?
   a. Steve Wallace: Route reports compilation available at:
      i. https://github.internet2.edu/ssw/IRR-report/tree/master/Connectors
      ii. **Note especially**: Column N – covered by RSA. If blank, it is covered; if RED, it is not. These networks will not be able to use RPKI.
          1. Will be Internet2 webinar coming up on May 6 2p EDT to articulate issues with this. Information forthcoming via usual channels.
      iii. Updated daily.
      iv. Steve willing to work with any individual institution to review how to improve/fix status.
      v. There will be an ARIN webinar May 11 2p EDT.
      vi. There are over 800 I2 connected organizations for which there are no ARIN agreements. Roughly half of table. Over 1000 prefixed.
      vii. Over 400 organizations that have at least a /16 not in the table.
          1. These organizations' CIOs will be contacted individually.
      viii. Dave Farmer: institutions should log into ARIN online account – this is authoritative.

ix. Discussion: important to alert technical contacts as well as CIOs so they are not blindsided.

b. Dave Farmer: There is an ARIN consultation on fees. Everyone should look at this; see email Dave sent to the listserv.
   i. All institutions should take a look to determine impact.
   ii. ARIN is now taking comments now.
   iii. Timeframe for final decision? Consultation open till end of April.
   iv. Contracts need to be in place for any services. Legacy services are being discontinued.
   v. Some individuals/organizations claim that ARIN has no claim over their IP address space. ARIN/others feel differently. The hope is that ARIN lawyers will be prepared to address this point of view in the webinar.
   vi. Note that one end result will be that Google traffic will not transit via peers like I2 – will depend on ISPs to carry this traffic.
   vii. See: https://www.arin.net/announcements/20210409-fee-consultation/

6. Adjourn at 4:50p EDT