NTAC Peering & Routing Working Group
Notes from 7/19/2022 call

1. Agenda Bash
   a. None.
2. Update on Peering & I2PX
   a. Jeff Bartig: Completed migration work in Ashburn. Now out of old cage in Ashburn and all remaining Juniper network backbone gear is now removed. Few remaining Ashburn peers migrated to new cage. Some 10G peers were consolidated into fewer 100G interfaces.
   b. Also working with number of peers on similar upgrades. Seems many other networks are also seeing 10G links as insufficient and are moving to 100G peering links only. Likely driven by wanting to eliminate 10G aggregation.
   c. Just turned up 100G to Apple in Dallas.
   d. Bill Owens: Is Amazon in both R&E and I2PX? Bartig: Yes. Problematic with some participants to change that.
   e. Rick Hicks: Any news on Oracle peering? Bartig: Yes, now have link up in several locations. Working on two in Dallas and Los Angeles. Could have BGP turned up with Oracle in a few days.
   f. Have been working with Oracle to get 100G CloudConnect in Ashburn and Dallas, then will be able to provision such connectivity via OESS.
3. Network Weather Update – Trends and coming events
   a. Summertime – calm. By the time we meet next, expect traffic to be ramping up for the fall.
4. Internet2 Network update
   a. Working on new NOC contract with GlobalNOC. New contract in place. Will be working with them to turn up NOC services as if it was a new service. Consolidation of services, including optical NOC services, which was previously handled by Lumen.
   b. Have been working with Cisco to troubleshoot some corruption in FIB vs RIB in backbone routers. This is causing blackholing of some traffic – unresolved next-hops. Bug identified and replicated in Cisco lab. Appears to be related to updated code that merges updates to FIB into single operation. Patch expected by Mid-august at earliest. Does not appear to affect most participant traffic. No workaround apparently available. Can only be cleared by reboot of router. Recommended code is 7.3.3, which resolved other bugs previously identified (CEF corruption bug). Jeff's current theory is that this occurs when multiple routes exist with multiple priorities. There are significant concerns even in deploying fixed code, as this will likely put unpatched routers in a state where they would blackhole many routes.
5. Any other business
   a. None.
6. Adjourn at 4:29 EDT