Connecticut Education Network - Update

- Staffing
    - CEN currently has 10 full-time staff members, 8 part-time student workers, 1 special payroll, and 1 volunteer (1 day /week)
    - Network Technician 2 search canceled. Position re-posted as Network Technician 1/2
- Budget
    - State 2020-21 biennium budget released. 'Debt diet' resulting in:
        - $0 CEPF; requested $914,000 (FY19), $820,000 (FY20). Fund availability via OPM, TBD
        - $0 Bond Authorization; requested $4.84M (FY19), $4.84M (FY20)
    - Equipment coming to end of life/end of support this year
        - Last major refresh was in 2009-2013 (BTOP)
        - 4 layers of network topology: Optical Line System, Core, Aggregation, Edge
        - Aggregation layer is at the end of life/end of support
    - 2018-2019 biennium: $3M bond authorized, 1.5 allocated; March Bond Commission meeting for remaining $1.5M
- 2019-2024 Strategic Plan
    - Draft in circulation for review and feedback
    - Sent to CET, Advisory Councils, and workshop attendees
    - The final plan will be complete by the Annual Conference, May 10th
- Policy Review
    - No change: Plan is to revise / update as needed, provide for comment, and post as part of the new Website launch
- Value-Added Services / Revenue Generation
    - Managed Firewall Service: Incremental growth, 7 members committed, more coming
    - Other potential services in concept mode and awaiting feedback from members of the CEN councils; possible CEN member survey to assist with prioritization
    - Joint NSF Grant Submission: MidScale RI-1 - 12 Universities and 6 regional networks involved; CEN and Yale participating from CT; preliminary proposal submitted Feb 19 (value added, not revenue generating)
- CEN Engagement
    - CEN Education and Development Advisory Council
        - Hosted 'Broadband Toolkit Workshop' on Feb 22; 50 in attendance
        - Next event in late May/June, TBD on content, higher-ed focus
    - New Web site launch expected in March at https://ctedunet.net (currently password protected)
    - CEN Annual Conference May 10: https://bit.ly/2BBJakU
        - 46 session proposals for 27 slots, final decisions made, program posted in March
        - 232 members registered, 22 sponsor supporters registered

- Threat Management / DDoS Mitigation

Connecticut Education Network | 860.622.4560 | info@cteducation.net | www.cen.ct.gov

Stay connected with CEN!

Connecticut Education Network Update (continued)

- ○ 220 attacks since last Commission meeting (December 3, 2018)
- ○ Akamai Prolexic services initiated for a select overrun condition. It mitigated a prolonged attack on a K-12 district over a three-day period. The highest volume within that window was 19 Gbps.
- ○ Working on more in-depth reporting using Tableau
- • NYC Buildout
  - ○ NEREN Collaboration (MA, ME, NH, NY, RI, VT)
  - ○ Connectivity into one of the busiest telco areas in the world, increasing CEN's capability and reach
  - ○ Will result in more diverse options and lower commodity (backbone) Internet rates, commercial peering to reduce costs, backhaul opportunities to Ashburn (VA) and Chicago, and peering partnerships with other Regional Optical Networks (RONs) within the research and education network space
  - ○ Updated target completion date of July 2019
- • CT Library Fiber Consortium
  - ○ Leverages federal E-rate funds and matching State Library bond funds
  - ○ 54 of 54 libraries currently connected for Phases 1 - 3
  - ○ CEN awarded the bid for Phase 4 from Connecticut Libraries Fiber Consortium. Currently, three libraries have committed.
  - ○ CEN responded to State Library bid due Nov 30, 2018. Solicitation includes 49 eligible branch and main libraries. The next step is for the libraries who want to move forward to submit their E-rate applications by the end of March 2019.
  - ○ 19 libraries wish to move forward in Phase 5.
  - ○ The current project across all current and past phases will bring total fiber-connected libraries to 163 (including 47 branches) of 239 libraries statewide. This includes Ph. 5.
- • New Members/Customers since last Commission meeting (December 3, 2018)
  - ○ Municipalities
    - • Town of Orange
  - ○ Private K-12
    - • Chase Collegiate School