Public Schools of North Carolina
State Board of Education | Department of Public Instruction

New Charter School Internet Connectivity and E-Rate

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Internet Access

Two options:

1. Procure it yourself (default)
2. Choose NC Research and Education Network (NCREN) Internet Services Bundle provided by the state at no cost to the Charter School (MOU/LOA/479)

Option 1: Get Connectivity Yourself

- You procure the Internet service, firewall, filtering, maintenance, etc.
- You pay for the installation and service
- You receive allocation (via PRC 036)

You won't receive what it actually costs you. A typically non-NCREN charter (not in a remote-rural location) will receive approximately $5,000 annually.

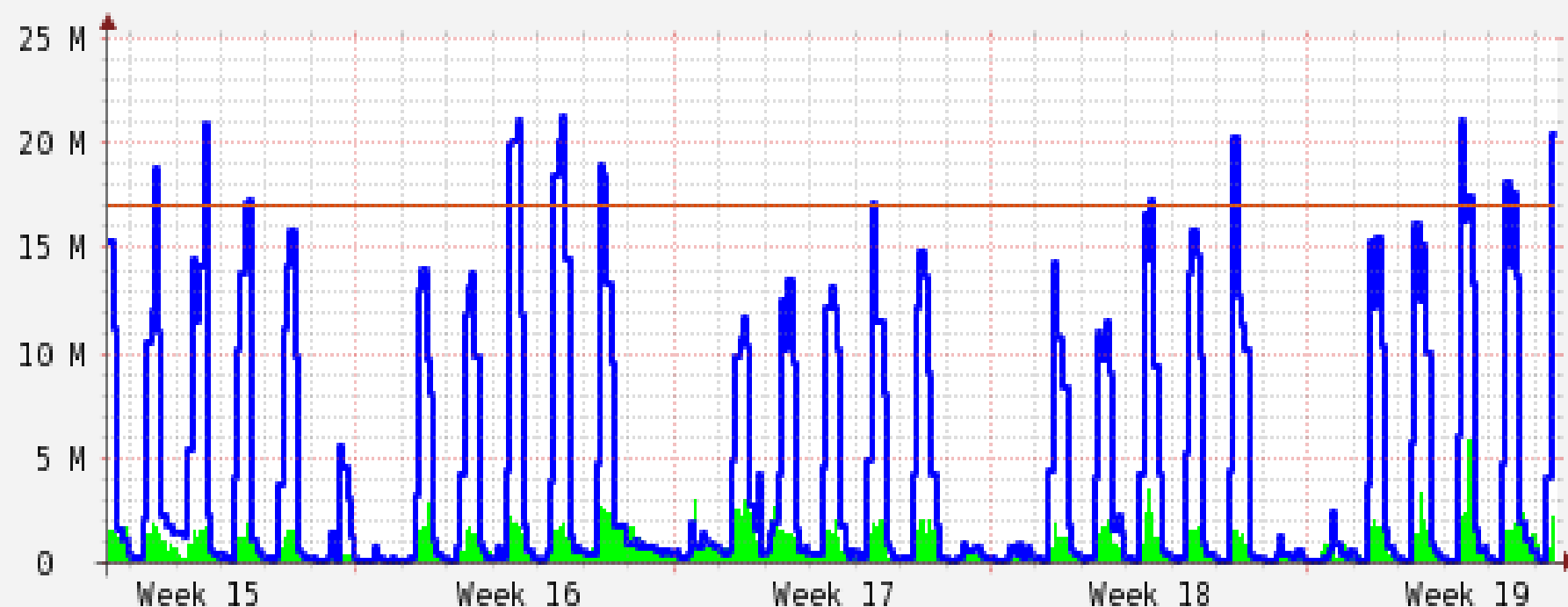# Option 2: NCREN

Uses DPI contract to provide Internet Access and optional Firewall Service and optional Content Filtering service.

Charter School only responsible for any one-time installation costs, which vary by location, but typically less than $1,000 and often $0. There are no monthly recurring costs.

Option 2: NCREN Option (cont'd)

- Initially, we start brand-new charters at fiber-based 20Mbps full-duplex (not DSL or cable modem). This typically meets up to 100 students in a 1:1 environment. Some circuits are burstable.

- We <u>upgrade</u> you when you are hitting 60% capacity on average. Sooner, if necessary. Daily automatic notifications to DPI staff.

7600-gw.ncren.net--g18/3.118 - Lake Norman Charter (20.L2XN.502622) | 2-

	Inbound Bits per Second			
	Current:	2.072 Mbps	Average: 797.399 kbps	Max: 8.977 Mbps
	Outbound Bits per Second			
	Current:	20.297 Mbps	Average: 4.071 Mbps	Max: 21.193 Mbps
	95th Percentile			
	17.074 M			

Lake Norman Charter (20.L2XN.502622) | 2-99.139
2013-04-08 10:42:00 EDT -- To -- 2013-05-10 10:42:00 EDT

Option 2: NCREN Option (cont'd)

- NCREN is NOT a state-owned network. It is owned and maintained by MCNC, a non-profit company in RTP that has been the sole provider of Internet to all the Universities, Colleges, and Community Colleges in NC for over 25 years and providing service to public schools for the last five years.

- No state agency has access to traffic or determines what traffic is permitted. It is completely open.

Regardless - benefits

- NC DPI has two professional E-Rate consultants available at no-cost.

- NC DPI has experienced Network Analysts available at no-cost.

- NC DPI has a contract with MCNC to provide Client Network Engineering (CNE) services to provide Network Assessments (wired and wireless), Security Assessments, and other consultancy services.

Connectivity Comparison

DEFAULT	**NCREN**

DEFAULT

➢ No Memorandum of Understanding (MOU) with NCDPI is required.

➢ NCDPI distributes connectivity funds (via PRC036) automatically each fall/winter.

➢ Charter is responsible for all costs related to installation, operations, and maintenance of all connectivity.

➢ Charter is responsible for any filing of related E-Rate applications

➢ Charter is NOT connected to NCREN and related services (e.g. Internet2, firewall, filter)

➢ Charter receives an amount equal to 50% of the annual cost of a single 100 Mbps connection in their area, based on current State Term Contract pricing, regardless of the number of locations.

NCREN

➢ MOU with NCDPI is required.

➢ NCDPI requires an E-rate Letter of Agency and annual E-rate Form 479 (CIPA Compliance) from the charter for filing of local loop (fiber), ISP, and router related E-rate.

➢ NCDPI becomes fiscally obligated for the reoccurring local loop (fiber), ISP, and router charges.

➢ NCREN partners provide guidance as necessary related to charter's installation cost obligations issues/questions.

➢ NCREN will collect subscription agreement from Charter.

➢ Charter is connected to NCREN and NCREN related services (e.g. Internet2). Firewall and filtering are opt-in.

➢ Only one NCREN connection is provided per charter/district. Therefore multi-location charter schools must procure WAN service for additional sites (generally speaking: separated by a public right of way). NCDPI will reimburse a multi-location charter school (via PRC036) for up to 100% of the, after E-rate discounts, out-of-pocket WAN reoccurring costs. If the multi-location charter does not file E-rate then the amount will be calculated based on what the E-rate discount would have been had they applied (minimum 40% E-rate or 1% NSLP).

➢ Charter is responsible for any filing of WAN related E-Rate applications.

Child Internet Protection Act (CIPA)

Schools and libraries subject to CIPA may not receive the discounts offered by the E-rate program unless they certify that they have an Internet safety policy that addresses the implementation of online safety education and technology protection measures (filtering). The protection measures must block or filter Internet access to pictures that are: (a) obscene; (b) child pornography; or (c) harmful to minors (for computers that are accessed by minors). **Before adopting this Internet safety policy, schools and libraries must provide reasonable notice and hold at least one public hearing or meeting to address the proposal.**

Source: http://www.fcc.gov/guides/childrens-internet-protection-act

Key Sources

- http://www.ncpublicschools.org/connectivity/

- http://www.fcc.gov/guides/childrens-internet-protection-act

- http://www.e-ratecentral.com/CIPA/cipa_policy_sample.pdf

- https://www.mcnc.org

For More Information…

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