



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

Report to the North Carolina General Assembly

School Connectivity Initiative

SL 2007-323 (HB 1473), sec .7.28(d)

Date Due: January 15, 2015

Report # 43

DPI Chronological Schedule, 2014-2015

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SCHOOL CONNECTIVITY INITIATIVE

Legislative Update

Submitted to

Joint Legislative Oversight Committee on Information Technology

Joint Legislative Education Oversight Committee

Office of State Budget and Management

State Information Technology Officer

Fiscal Research Division

Prepared by

Connectivity and E-rate Services Section

Technology Services Area

North Carolina Department of Public Instruction

April 2, 2015

FORWARD

The School Connectivity Initiative (SCI) was created by *Session Law 2007-323 SECTION 7.28.(d)* as follows:

SECTION 7.28.(b) As recommended in the Joint Report on Information Technology, February 2007, the State Board of Education shall contract with an entity that has the capacity of serving as the administrator of the School Connectivity Initiative and has demonstrated success in providing network services to education institutions in the State. The funds appropriated in this act shall be used to implement a plan approved by the State Board of Education to enhance the technology infrastructure for public schools that supports teaching and learning in the classrooms. The plan shall include the following components:

- (1) A business plan with timelines, clearly defined outcomes and an operational model including a governance structure, personnel, E-rate reimbursement, support services to LEA's and schools and budget;*
- (2) Assurances for a fair and open bidding and contracting process;*
- (3) Technology assessment site survey template;*
- (4) Documentation of how the technology will be used to enhance teaching in learning;*
- (5) Documentation of how existing State-invested funds for technology are maximized to implement the school connectivity initiative;*
- (6) The number, location and schedule of sites to be served in 2007-2008 and in 2008-2009; and*
- (7) Assurances that local school administrative units will upgrade internal networks in schools, provide technology tools, and support for teachers and students to use technology to improve teaching and learning.*

The NC State Board of Education approved the School Connectivity Initiative *Implementation and Operating Plan* on Thursday, August 2, 2007. The SCI program was managed through the NC ITS Enterprise Project Management Office supervising projects that gained initial EPMO approval in September 2007. Within the *Implementation and Operating Plan* were the following deliverables, all of which were completed in 2009:

- All 115 Local Education Agencies (LEAs) connected to MCNC's North Carolina Research and Education Network (NCREN)
- Establishment of Client Network Engineering Services for LEAs
- Establishment of E-rate Filing Assistance Bureau
- Development of a Technology Master Plan
- Development of Governance and Funding Plans

Each year since the inception of the SCI program, the State Board of Education and the Department of Public Instruction presents a School Connectivity Initiative Report reviewing progress towards the objectives of the past calendar year, establish goals for the next year, and to highlight needs and risks.

This report covers activities beginning January 1, 2014 through December 31, 2014.

EXECUTIVE SUMMARY

The School Connectivity Initiative (SCI) continues to deliver high quality Internet access, client network engineering services, E-rate support and funding that benefit all NC public schools. Major calendar year 2014 SCI accomplishments include:

- Conducted a bid process for statewide K12 bundled Internet service – resulting in the retention of MCNC as the provider under contract to NC OITS;
- Engaged with the FCC in support of E-rate modernization including providing formal feedback to notices of proposed rule making;
- Developed a statewide wireless infrastructure RFP to accelerate wireless infrastructure upgrades in NC schools pursuant to E-rate program changes focused on internal infrastructure;
- Upgraded Internet access to 52 LEAs and 32 charter schools – adding over 32 Gbps of aggregate Internet capacity;
- Connected twenty-one new charter schools to the NC Research and Education Network (NCREN);
- Supported 44 LEAs and 37 charter schools with client network engineering (CNE) support services;
- Conducted 26 training events on topics including Apple Seminar, PowerShell Training, Summer Networking Institute for Educational Technicians, and regional general meetings for Technology Directors.

Internet Service Contract

The MCNC Internet service contract pricing came in at \$939,065 per month based on the then current LEA and charter school connection levels – that pricing was effective July 1, 2014. Actual bills are progressively higher each month as we incorporate bandwidth upgrades across LEAs and charter schools. The total bundled Internet bandwidth cost for calendar year 2014 was \$14,444,462.

E-rate Modernization

E-rate modernization in July 2014 and December 2014 established new rules around E-rate administrative processing, building fiber versus buying fiber-based services, and support for internal school infrastructure. Most notably, total annual E-rate funding was raised from \$2.25B to \$3.9B to account for growth in usage and the addition of sustainable funding for school internal networks. North Carolina could see an additional \$16M-\$22M in internal connections funding on an annual basis due to the FCC orders. The modernization order also phases out some previously eligible services, most notably content filtering and firewall appliances and telephone services. The impact of the loss of funding is not yet clear – during 2015 the SCI team will work with districts to minimize the effects of phased-out services while maximizing the benefits of new eligible services and approaches.

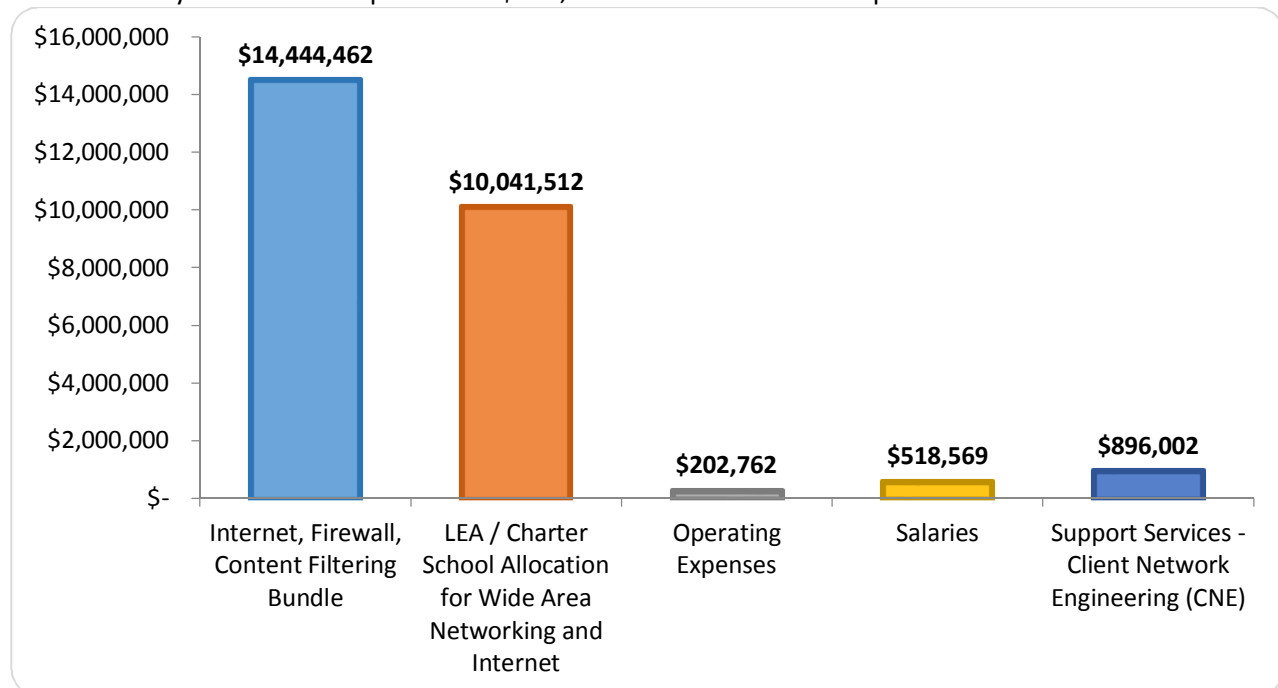
School Connectivity Expansion

The NCDPI expansion budget request for the emerging biennium included a recurring \$12M to expand School Connectivity Initiative funding to cover access inside the school building. The expansion request leverages the modernized E-rate funding for internal networks and is aligned with the emerging Digital Learning Plan recommendations supporting the State digital transition strategy.

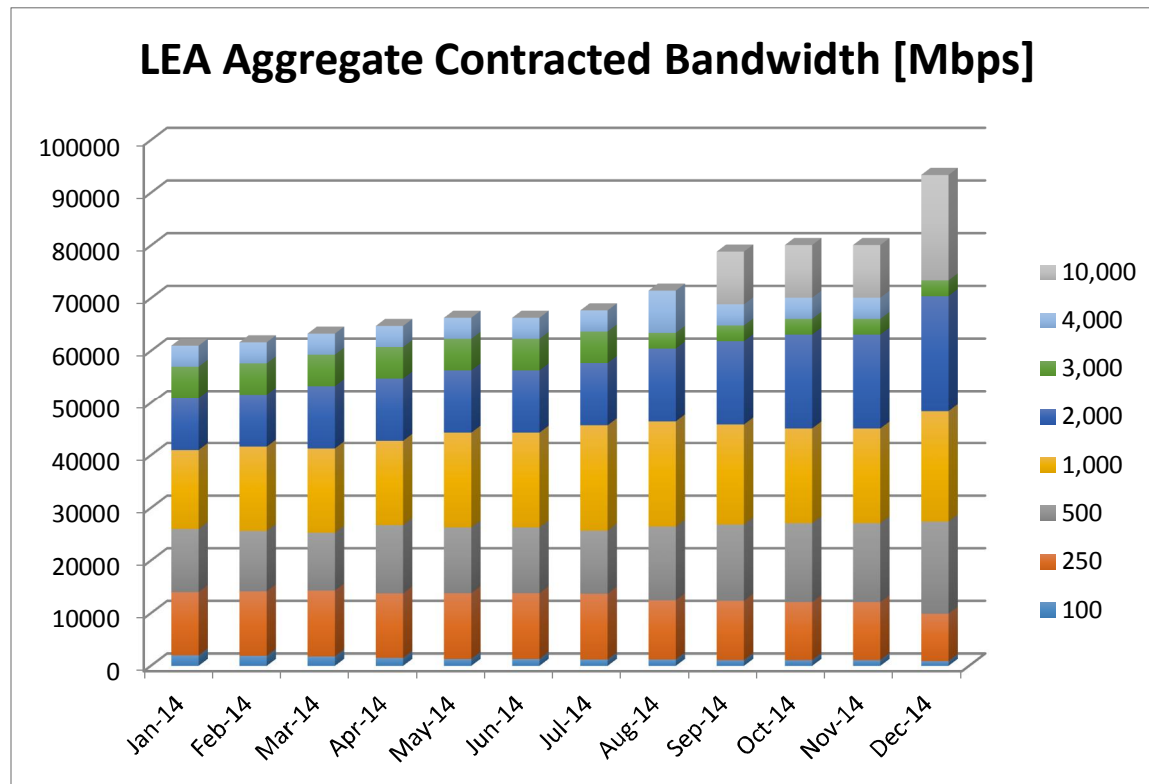
PERFORMANCE OVERVIEW

SCI is supported with legislative funding of \$19.9M and receipts from trailing E-rate rebates totaling \$7.9M during CY2014. CY2014 expenses totaled \$26.1M. Expenses fall into five categories as follows:

1. Internet, Firewall, and Content Filtering Bundle – These services are procured centrally from NC OITS. MCNC, under contract to NC OITS, manages transport connections from districts and charter schools to the NCREN backbone; provides Internet access; and provides a managed content filtering solution. NC OITS serves as the provider of a managed firewall service. The new Internet services contract reset prices slightly lower effective July 2014 – December 2014 invoices totaled \$1,172,622.
2. LEA/Charter School Allocation for Wide Area Networking and Internet – Allocations to districts and charter schools based on the after E-rate expenses for school network connections and local Internet connections. NCDPI calculates allocations based on actual contracts and invoices and delivers funding via PRC 073. Since the inception of the SCI, funding totals have remained in the \$9.5M to \$10M range – even with substantial upgrades to school connections each year.
3. Operating expenses – Include E-rate consulting fees, statewide Funds For Learning E-rate Manager access, tools, equipment, and travel for NCDPI staff.
4. Salaries – NCDPI school connectivity team staff salaries. Expenses here support seven NCDPI staff positions. SCI legislation allows for up to eight FTE supported by up to \$1M in annual funding. Calendar year 2014 salary expense was \$518,569.
5. Support Services Client Network Engineering (CNE) – CNE services are provided by MCNC under contract to NCDPI. LEAs and charter schools engage MCNC for high level troubleshooting, network design consultation, and related training services. MCNC bills quarterly for actual hours serving districts and charter schools. The CNE contract allows for up to \$1.2M in billings per fiscal year. CY2014 expense was \$896,002. The CNE contract expires in June of 2015.



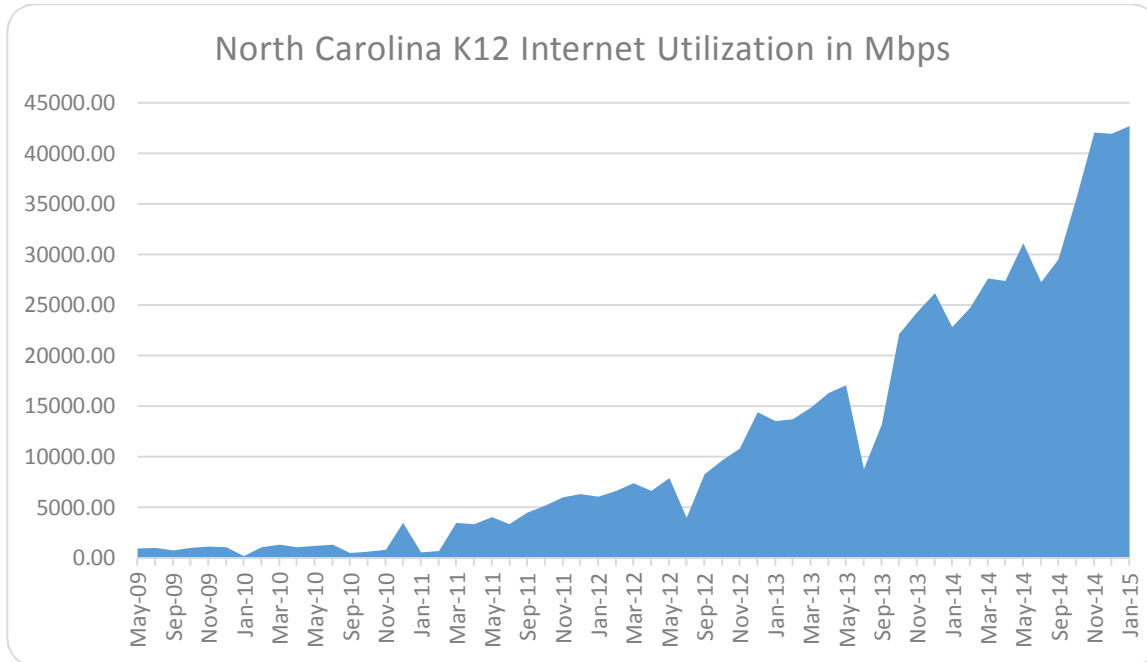
The Internet, firewall, and content filtering bundle continues to grow as districts add more devices, allow students to bring their own devices, and employ more online resources for instruction. MCNC bills the State for Internet Bandwidth each month based on a contracted bandwidth level for each district and charter school. There are eight bandwidth levels ranging from 100 Mbps to 10,000 Mbps (i.e., 10 Gbps). As LEAs and charter schools exceed 60% usage measured against the bandwidth service level, the SCI team initiates upgrades to the next highest service level. While most of the movement was from 100 to 250 and from 250 to 500 levels, Wake County and CMS each moved to 10,000 Mbps connections. During calendar year 2014 MCNC and NCDPI upgraded the Internet connections of fifty-two districts.



This chart above illustrates the CY2014 month over month growth in contracted Internet bandwidth. The monitoring and upgrade process ensures that schools have access to enough Internet capacity to support growth in devices and applications while at the same time protecting against over-provisioning. Aggregate contracted bandwidth grew from 61 Gbps in January 2014 to over 93 Gbps in December of 2014. Monthly charges from MCNC increase with the added capacity throughout the year.

Aggregate bandwidth usage nearly doubled during calendar year 2014. LEAs and charters have added devices, increased the use of digital resources, and upgraded school infrastructure – all of which contribute to increased usage. All told, K12 is the largest single user of MCNC’s NCREN backbone, contributing more traffic than the UNC system, the independent colleges and universities, and the community college system, combined. MCNC’s network continues to perform exceedingly well – maintaining high availability and low delay. Furthermore, MCNC peering, commodity offload, and

caching solutions keep content close to the users and keep costs in check – even as usage doubles year over year.



This graph above shows average 95th percentile monthly usage growth since 2009. The valleys in the graph represent dips during the summer months. The monthly average for January 2015 is 43 Gbps. It is worth noting that there are many ways to represent actual usage and that MCNC monitoring takes into account several usage reporting models. For instance, MCNC also monitors peak daily usage in each district and Charter school. For the month of December 2014, the sum of the highest utilization days across all 115 LEAs was 68 Gbps. These peak days are smoothed in monthly average graphs; however understanding the peaks informs decisions related to defining enough bandwidth and enough headroom.

CONSIDERATIONS FOR 2015

CNE contract renewal

The client network engineering service has proven to be an invaluable resource to schools and to the sustainability of reliable and equitable school connectivity. The contract with MCNC for CNE services expires in June 2015. NCDPI will work to either extend the existing contract with MCNC or will establish a new contract for CNE services before July 1, 2015.

Charter schools

Charter schools take advantage of SCI in one of two ways: (1) a charter school can receive an allocation through PRC 036 that is equivalent to the per ADM allocation of the home LEA of the charter school; or (2) SCI will cover the recurring cost of connecting the charter school to NCREN for Internet service. Most newly created charter schools choose option 2. When the SCI was fully funded in 2008 the appropriation was \$22M annually and there was a cap of 100 charter schools. The appropriation now sits at \$19.9M and there are 148 charter schools, with 14 new schools approved to open in August of 2015 – plus two virtual charters. NCDPI received 40 applications to open new charters in 2016. New charter schools typically have little technology support and expertise and tend to rely on the school connectivity team (including the CNE team) to design and implement school networking and Internet access solutions. There are too many requests and too few resources to continue to add new charters to the SCI without due consideration to sustainability and equity. NCDPI will develop a proposal with options to manage for charter school growth.

Internal school connectivity

The SCI team will be overseeing the RttT supported wireless infrastructure project through August 2015. The upgrades will help move more NC schools toward digital learning ready infrastructure. The SCI has been successful at maintaining equity of access between the school building and the Internet across the State – mainly because the networks that serve schools are mostly managed and monitored by commercial service providers under contracts with well-defined service level agreements. Connectivity *inside* the school will prove more challenging to sustain equity of access as the performance of the infrastructure depends upon local facilities, support, and capacity realities. Ideally, internal school connectivity will be supported long-term with standard service level agreements and managed service models similar to external school level connectivity. NCDPI and the SCI team will develop strategies during 2015 to support and sustain equity of access for internal school networks – informed by the Digital Learning Plan and lessons learned from the RttT wireless infrastructure work.

Phasing out of E-rate support for voice, content filtering, and firewall services

The FCC's E-rate Modernization Orders of 2014 will present both opportunities and challenges for the School Connectivity Initiative. These Orders increase focus on the largest and most urgent need – closing the Wi-Fi gap and providing sustaining funding for internal school networks long-term. The orders also phase out E-rate eligibility for non-broadband services including voice, firewall devices, and content filtering services. These E-rate changes will affect the School Connectivity Initiative in that the firewall and content filtering are provided as part of a bundle to the LEAs and charter schools – a bundle that benefits from a statewide aggregate E-rate discount. With or without E-rate support, the SCI model for centrally delivered content and firewall services is more efficient, reliable, and cost effective than districts managing these functions locally. Seventy-one LEAs and sixty-seven charter schools currently use the content filtering service, while sixty-seven LEAs and sixty-six charter schools use the managed

firewall service. The SCI team estimates that the combined firewall and content filtering services will cost approximately \$5.2M in fiscal year 2016 and \$6.2M in FY2017 – with no E-rate discount. NCDPI may request a waiver from the FCC in order to continue to provide the existing firewall and content filtering services to the LEAs and charters with E-rate eligibility. As details emerge related to a potential waiver and informed by Digital Learning Plan recommendations related to collaborative procurement and shared services, NCDPI will develop a proposal for continued support of content filter and firewall services.

LEAs will see negative effects of the E-rate changes primarily related to phasing out of eligibility for voice services. The SCI team will develop a plan and offer guidance to districts to minimize negative effects of phased out services on local budgets.

SCHOOL CONNECTIVITY EXPANSION

The FCC E-rate modernization orders from July and December of 2014 provide a much-needed boost to school internal connections funding. Specifically, the E-rate modernization order adopts a \$150 per ADM investment level for internal infrastructure measured over every 5-year period. For North Carolina, that would mean a maximum investment of \$150 *1,478,246 ADM, or \$222M every five years. The E-rate program would cover between \$165M and \$173M of that investment – requiring a local match of between \$48M and \$56M. Said another way, E-rate modernization can bring more internal connections funding to NC over the next 5 years than the State has seen in aggregate from the FCC over the previous 15 years. On average, NC should expect to see nearly \$35M per year in FCC receipts for internal connections – which will require a local match on the order of \$10M annually.

The Digital Learning Plan policy brief published in January 2015 recommends expanding the school connectivity initiative to support funding for internal school networks and NCDPI included internal school connectivity as a high priority expansion budget request for the emerging biennial budget. We recommend school connectivity expansion as specified here.

Expand School Connectivity Initiative

Expand school connectivity support by \$12M annually to include internal school network infrastructure. In order to transition to digital learning statewide, school internal networks must support scalable and reliable wireless and wired connectivity. The Federal Communication Commission's E-Rate modernization order issued in July of 2014 establishes a baseline of \$150 per ADM as the 5-year budget for school network infrastructure. For NC the 5-year investment at \$150 per ADM equates to \$222M, or an average of \$44.4M per year. The E-Rate program provides funding based on an aggregate statewide discount that would equate to \$34.7M annually. The local match that remains is \$9.7M annually. Identity and access management services provide for secure authentication across school network infrastructure at a cost of \$1.5M annually. Sustaining administrative and engineering support adds \$800K.

SUPPORTING DOCUMENTATION

LEA and charter school connectivity allocation data can be found at the link below.

<http://www.dpi.state.nc.us/connectivity/links/funding/>

NC Digital Learning Plan documents including the January 2015 Policy Brief, wireless infrastructure survey, and wireless infrastructure RFP can be found at the link below.

<http://ncdlplan.fi.ncsu.edu/publications/>.

An interactive map that illustrates LEA and charter school aggregate and per student network utilization statistics can be found at the link below.

https://www.mcnc.org/ncren/portal/reporting/ncren_utilization_map

The balance of this report includes:

- The list of 2014 PRC 073 applications by LEA;
- The NCDPI connectivity staff salary report; and
- E-rate program funding history reports for NC.

LEA PRC 073 ALLOCATIONS CY/FY2014

LEA#	LEA	PRC 073
10	Alamance-Burlington	\$ 112,087
20	Alexander County Schools	\$ 64,255
30	Alleghany County Schools	\$ 15,186
40	Anson County Schools	\$ 29,032
50	Ashe	\$ 34,453
60	Avery County Schools	\$ 18,660
70	Beaufort County Schools	\$ 27,665
80	Bertie County Schools	\$ 28,064
90	Bladen	\$ 76,000
100	Brunswick County Schools	\$ 86,170
110	Buncombe Co School District	\$ 89,930
111	Asheville City Schools	\$ 51,259
120	Burke County	\$ 46,874
130	Cabarrus	\$ 212,777
132	Kannapolis City Schools	\$ 36,188
140	Caldwell	\$ 72,307
150	Camden County School District	\$ 19,010
160	Carteret County Schools	\$ 99,372
170	Caswell County Schools	\$ 14,193
180	Catawba County Schools	\$ 140,314
181	Hickory City	\$ 48,312
182	Newton-Conover City Schools	\$ 13,736
190	Chatham County Schools	\$ 94,105
200	Cherokee County Schools	\$ 79,730
210	Edenton Chowan	\$ 29,609
220	Clay	\$ 25,999
230	Cleveland County Schools	\$ 79,088
240	Columbus County Schools	\$ 68,250
241	Whiteville City Schools	\$ 4,663
250	Craven County Schools	\$ 61,829
260	Cumberland County Schools	\$ 424,973
270	Currituck	\$ 19,702
280	Dare County Schools	\$ 58,180
290	Davidson County Schools	\$ 141,851
291	Lexington City Schools	\$ 12,355
292	Thomasville City Schools	\$ 22,544
300	Davie County Schools	\$ 68,607
310	Duplin	\$ 54,795
320	Durham Public Schools	\$ 158,308
330	Edgecombe County Public Schools	\$ 101,400
340	Winston-Salem/Forsyth County Schools	\$ 449,640
350	Franklin	\$ 115,478
360	Gaston County Schools	\$ 179,648
370	Gates County School District	\$ 18,448
380	Graham County Schools	\$ 2,062
390	Granville	\$ 41,702
400	Greene County Schools	\$ 24,934
410	Guilford County Schools	\$ 400,784
420	HALIFAX COUNTY SCHOOL DISTRICT	\$ 38,391
421	Roanoke Rapids Graded School District	\$ 16,566
422	Weldon City Schools	\$ 7,196
430	Harnett County Schools	\$ 192,523

LEA#	LEA	PRC 073
440	Haywood County Schools	\$ 92,160
450	Henderson County Public Schools	\$ 97,504
460	Hertford County Public Schools	\$ 16,341
470	Hoke	\$ 38,056
480	Hyde County Schools	\$ 6,066
490	Iredell-Statesville Schools	\$ 340,773
491	Mooresville Graded School District	\$ 86,187
500	Jackson County Schools	\$ 17,626
510	Johnston County Schools	\$ 162,342
520	Jones County Schools	\$ 11,977
530	Lee County Schools	\$ 59,673
540	Lenoir County Public Schools	\$ 64,816
550	Lincoln County Schools	\$ 85,129
560	Macon County Schools	\$ 64,432
570	Madison County Public Schools	\$ 9,324
580	Martin County Schools	\$ 52,416
590	McDowell County Schools	\$ 40,668
600	Mecklenburg County	\$ 540,837
610	Mitchell County Schools	\$ 5,320
620	Montgomery County Schools	\$ 43,853
630	Moore County Schools	\$ 86,560
640	Nash-Rocky Mt Schools	\$ 175,140
650	New Hanover County Schools	\$ 114,750
660	Northampton County Schools	\$ 20,020
670	Onslow County Schools	\$ 210,098
680	Orange County Schools	\$ 51,998
681	Chapel Hill-Carrboro City Schools	\$ 68,015
690	Pamlico County Schools	\$ 16,616
700	Elizabeth City Pasquotank Public Schools	\$ 48,917
710	Pender County Schools	\$ 53,428
720	Perquimans	\$ 24,688
730	Person County	\$ 17,639
740	Pitt County Schools	\$ 185,951
750	Polk	\$ 11,968
760	Randolph County Schools	\$ 118,858
761	Asheboro City Schools	\$ 23,472
770	Richmond County	\$ 47,961
780	Public Schools of Robeson County	\$ 72,000
790	Rockingham County Schools	\$ 125,236
800	Rowan-Salisbury School System	\$ 153,147
810	Rutherford County Schools	\$ 23,981
820	Sampson	\$ 44,100
821	Clinton City Schools	\$ 19,200
830	Scotland County Schools	\$ 36,134
840	Stanly	\$ 124,609
850	Stokes County Schools	\$ 142,132
860	Surry County Schools	\$ 23,769
861	Elkin City Schools	\$ 6,570
862	Mount Airy City Schools	\$ 9,780
870	Swain County School District	\$ 14,921
880	Transylvania County Schools	\$ 20,169
890	Tyrell	\$ 2,238

LEA#	LEA	PRC 073
	900 Union County Public Schools	\$ 361,078
	910 Vance County Schools	\$ 52,188
	920 Wake County Public School System	\$ 494,918
	930 Warren County Schools	\$ 25,828
	940 Washington County Schools	\$ 16,288
	950 Watauga County Schools	\$ 67,332
	960 Wayne County Public Schools	\$ 103,000
	970 Wilkes County Schools	\$ 42,522
	980 Wilson County	\$ 32,499
	990 Yadkin	\$ 29,214
	995 Yancey County Schools	\$ 16,367
		\$ 9,499,999

CONNECTIVITY STAFF SALARY REPORT

The following are NCDPI staff paid from School Connectivity Initiative funding and their respective salaries *Session Law 2007-323 SECTION 7.28.(g)*:

Title of Position and Description of Duties	Salary
Network Analyst ; provides LEA/Charter School Technical Consulting, Strategic Planning, Project Management	\$82,102
Network Analyst ; provides LEA/Charter School Technical Consulting, Strategic Planning	\$75,000
Education Program Administrator I ; Connectivity Services Manager; provides E-rate Education and Consultation Services	\$71,295
Education Program Administrator I ; provides E-rate Education and Consultation Services	\$71,840
Education Consultant II (92%) ; Assists with Instructional Technology Integration	\$66,093
Education Consultant II (93%) ; Assists with Instructional Technology Integration	\$52,882
Program Assistant V ; Administrative assistance	Vacant
Total	\$419,212

State of North Carolina E-Rate Program Funding History

Total Program Funding History (Priority 1 and 2)

Year	Total Requests	Recurring Amount	Non-Recurring Amount	Requested Amount	Committed Amount	Pending Amount	Disbursed Amount	Rejected Amount	Utilization %
2014	1,941	\$ 110,330,266	\$ 34,161,632	\$ 114,716,558	\$ 76,822,589	\$ 102,963	\$ 13,825,886	\$ 37,791,006	18%
2013	1,936	\$ 111,527,373	\$ 30,838,711	\$ 114,463,038	\$ 75,622,579	\$ 339,031	\$ 65,924,727	\$ 38,501,427	87%
2012	1,939	\$ 106,198,953	\$ 46,711,273	\$ 122,046,334	\$ 88,017,774	\$ -	\$ 77,223,014	\$ 34,028,561	88%
2011	2,031	\$ 89,437,215	\$ 50,297,731	\$ 111,590,013	\$ 78,935,900	\$ -	\$ 69,268,740	\$ 32,654,114	88%
2010	1,973	\$ 85,240,432	\$ 38,418,866	\$ 96,539,783	\$ 88,512,433	\$ -	\$ 73,724,498	\$ 8,027,350	83%
2009	1,830	\$ 83,338,001	\$ 28,311,004	\$ 84,383,890	\$ 70,126,047	\$ -	\$ 58,113,268	\$ 14,257,843	83%
2008	1,892	\$ 74,332,025	\$ 28,714,865	\$ 78,539,107	\$ 63,654,531	\$ -	\$ 55,743,373	\$ 14,884,577	88%
2007	2,407	\$ 71,820,449	\$ 39,189,934	\$ 85,044,975	\$ 63,911,579	\$ -	\$ 54,468,199	\$ 21,133,395	85%
2006	2,080	\$ 73,436,583	\$ 47,060,592	\$ 92,869,428	\$ 52,489,846	\$ 73,640	\$ 43,889,745	\$ 40,305,942	84%
2005	3,084	\$ 60,574,840	\$ 48,574,101	\$ 81,583,067	\$ 58,166,060	\$ 98,810	\$ 49,453,096	\$ 23,318,197	85%
2004	3,111	\$ 56,367,734	\$ 34,661,522	\$ 67,164,040	\$ 43,093,777	\$ -	\$ 34,790,050	\$ 24,070,264	81%
2003	2,970	\$ 67,309,872	\$ 46,716,227	\$ 88,494,408	\$ 51,169,282	\$ -	\$ 41,172,325	\$ 37,325,126	80%
2002	2,820	\$ 53,413,119	\$ 43,766,752	\$ 75,282,775	\$ 53,660,114	\$ 36,297	\$ 43,506,746	\$ 21,586,364	81%
2001	3,205	\$ 40,193,978	\$ 33,790,157	\$ 53,220,063	\$ 25,464,776	\$ -	\$ 19,999,779	\$ 27,755,287	79%
2000	3,722	\$ 35,268,123	\$ 59,379,816	\$ 66,087,851	\$ 26,878,869	\$ -	\$ 23,509,082	\$ 39,208,982	87%
1999	2,518	\$ 38,228,166	\$ 27,750,717	\$ 44,734,122	\$ 37,921,654	\$ 273	\$ 30,197,180	\$ 6,812,195	80%
1998	4,036	\$ 28,715,337	\$ 27,621,067	\$ 35,442,189	\$ 26,857,935	\$ -	\$ 21,194,807	\$ 8,584,254	79%
ALL:	43,495	\$ 1,185,732,466	\$ 665,964,966	\$ 1,412,201,641	\$ 981,305,743	\$ 651,014	\$ 776,004,517	\$ 430,244,884	79%

State of North Carolina E-Rate Program Funding History

Priority 1 - Internet, Voice, and Wide Area Networking

Year	Total Requests	Recurring Amount	Non-Recurring Amount	Requested Amount	Committed Amount	Pending Amount	Disbursed Amount	Rejected Amount	Utilization %
2014	1,654	\$ 109,761,943	\$ 3,242,633	\$ 86,604,216	\$ 76,822,589	\$ 102,963	\$ 13,825,886	\$ 9,678,664	18%
2013	1,725	\$ 106,594,471	\$ 2,792,243	\$ 84,891,649	\$ 75,622,579	\$ 339,031	\$ 65,924,727	\$ 8,930,038	87%
2012	1,722	\$ 102,076,840	\$ 3,249,534	\$ 80,539,468	\$ 70,354,071	\$ -	\$ 61,143,785	\$ 10,185,397	87%
2011	1,696	\$ 85,544,824	\$ 3,173,019	\$ 67,372,899	\$ 61,718,247	\$ -	\$ 53,582,974	\$ 5,654,652	87%
2010	1,725	\$ 84,510,419	\$ 4,456,174	\$ 66,283,534	\$ 61,997,524	\$ -	\$ 51,229,721	\$ 4,286,010	83%
2009	1,673	\$ 83,292,261	\$ 4,335,876	\$ 63,499,818	\$ 58,438,350	\$ -	\$ 46,734,930	\$ 5,061,468	80%
2008	1,630	\$ 74,142,895	\$ 2,390,002	\$ 55,917,843	\$ 52,853,226	\$ -	\$ 45,985,708	\$ 3,064,617	87%
2007	1,821	\$ 70,578,150	\$ 3,022,489	\$ 53,072,400	\$ 48,032,919	\$ -	\$ 40,636,575	\$ 5,039,481	85%
2006	1,716	\$ 70,040,778	\$ 1,807,684	\$ 51,622,104	\$ 42,111,387	\$ 73,640	\$ 35,231,680	\$ 9,437,076	84%
2005	1,867	\$ 56,333,609	\$ 6,236,976	\$ 44,596,987	\$ 38,353,419	\$ 98,810	\$ 32,106,457	\$ 6,144,757	84%
2004	2,240	\$ 52,268,885	\$ 3,068,504	\$ 37,405,855	\$ 31,317,945	\$ -	\$ 26,277,267	\$ 6,087,910	84%
2003	2,105	\$ 64,036,601	\$ 6,146,364	\$ 50,815,788	\$ 33,270,863	\$ -	\$ 28,059,769	\$ 17,544,925	84%
2002	2,138	\$ 51,506,677	\$ 1,940,973	\$ 37,336,049	\$ 32,326,866	\$ 36,297	\$ 26,851,648	\$ 4,972,886	83%
2001	1,733	\$ 36,575,357	\$ 635,429	\$ 24,507,770	\$ 21,227,765	\$ -	\$ 16,931,822	\$ 3,280,005	80%
2000	1,500	\$ 32,050,328	\$ 855,540	\$ 21,187,583	\$ 20,335,913	\$ -	\$ 15,749,547	\$ 851,670	77%
1999	1,543	\$ 35,682,156	\$ 989,604	\$ 22,588,013	\$ 18,891,115	\$ 273	\$ 12,928,127	\$ 3,696,625	68%
1998	1,744	\$ 24,434,882	\$ 2,147,821	\$ 16,863,807	\$ 16,124,738	\$ -	\$ 11,845,720	\$ 739,068	73%
ALL:	30,232	\$ 1,139,431,076	\$ 50,490,864	\$ 865,105,780	\$ 759,799,518	\$ 651,014	\$ 585,046,344	\$ 104,655,248	77%

State of North Carolina E-Rate Program Funding History

Priority 2 - Internal Connections Funding

Year	Total Requests	Recurring Amount	Non-Recurring Amount	Requested Amount	Committed Amount	Pending Amount	Disbursed Amount	Rejected Amount	Utilization %
2014	287	\$ 568,323	\$ 30,918,999	\$ 28,112,342	\$ -	\$ -	\$ -	\$ 28,112,342	0%
2013	211	\$ 4,932,901	\$ 28,046,468	\$ 29,571,389	\$ -	\$ -	\$ -	\$ 29,571,389	0%
2012	217	\$ 4,122,113	\$ 43,461,740	\$ 41,506,867	\$ 17,663,703	\$ -	\$ 16,079,228	\$ 23,843,164	91%
2011	335	\$ 3,892,391	\$ 47,124,712	\$ 44,217,114	\$ 17,217,652	\$ -	\$ 15,685,766	\$ 26,999,462	91%
2010	248	\$ 730,013	\$ 33,962,692	\$ 30,256,250	\$ 26,514,909	\$ -	\$ 22,494,778	\$ 3,741,341	85%
2009	157	\$ 45,740	\$ 23,975,128	\$ 20,884,072	\$ 11,687,696	\$ -	\$ 11,378,339	\$ 9,196,376	97%
2008	262	\$ 189,130	\$ 26,324,862	\$ 22,621,264	\$ 10,801,304	\$ -	\$ 9,757,666	\$ 11,819,960	90%
2007	586	\$ 1,242,299	\$ 36,167,446	\$ 31,972,574	\$ 15,878,660	\$ -	\$ 13,831,624	\$ 16,093,914	87%
2006	364	\$ 3,395,805	\$ 45,252,908	\$ 41,247,324	\$ 10,378,458	\$ -	\$ 8,658,065	\$ 30,868,866	83%
2005	1,217	\$ 4,241,231	\$ 42,337,125	\$ 36,986,080	\$ 19,812,640	\$ -	\$ 17,346,638	\$ 17,173,440	88%
2004	871	\$ 4,098,848	\$ 31,593,018	\$ 29,758,185	\$ 11,775,831	\$ -	\$ 8,512,783	\$ 17,982,354	72%
2003	865	\$ 3,273,272	\$ 40,569,863	\$ 37,678,620	\$ 17,898,420	\$ -	\$ 13,112,555	\$ 19,780,201	73%
2002	682	\$ 1,906,442	\$ 41,825,778	\$ 37,946,726	\$ 21,333,248	\$ -	\$ 16,655,098	\$ 16,613,478	78%
2001	1,472	\$ 3,618,622	\$ 33,154,727	\$ 28,712,293	\$ 4,237,011	\$ -	\$ 3,067,958	\$ 24,475,282	72%
2000	2,222	\$ 3,217,795	\$ 58,524,276	\$ 44,900,268	\$ 6,542,956	\$ -	\$ 7,759,535	\$ 38,357,313	119%
1999	975	\$ 2,546,010	\$ 26,761,113	\$ 22,146,109	\$ 19,030,539	\$ -	\$ 17,269,053	\$ 3,115,570	91%
1998	2,292	\$ 4,280,455	\$ 25,473,246	\$ 18,578,382	\$ 10,733,197	\$ -	\$ 9,349,088	\$ 7,845,185	87%
ALL:	13,263	\$ 46,301,390	\$ 615,474,102	\$ 547,095,861	\$ 221,506,225	\$ -	\$ 190,958,172	\$ 325,589,636	86%