

Network Nebraska-Education Update

Summer 2014 Events

- Upgraded 35+ WAN circuits in Central and South-Central Nebraska
- Redirected 40+ WAN circuits in Southeast Nebraska
- Extended the State backbone with 1Gbps circuit to ESU 6 in Milford
- Extended the State backbone with 1Gbps circuit to ESU 5 in Beatrice
- Brought up a new Lincoln Internet provider (Windstream) with ~12Gbps
- Increased the Omaha Internet provider (Unite) to ~12Gbps
- Added 14 new K12 Participants from Southeast Nebraska
- Relocated the Scottsbluff Aggregation Point from State Office Bldg to Panhandle Research
- New website is up and running: www.networknebraska.net
- www.networknebraska.gov has been acquired as an additional domain for \$125/year
- 4 school consolidations occurred, reducing the number of paid Participants by 4 entities
- Prepared to offer UNCSN Rack Hosting Service at Nebraska Hall for \$628/rack/month

Participation Summary, as of 8/1/2014

PUBLIC K-20 Participants:

233 of 248* public school districts (*unified districts as separate entities)	(94%)
17 of 17 Educational Service Units	(100%)
6 of 6 community colleges	(100%)
3 of 3 state colleges	(100%)
2 of 2 tribal colleges	(100%)
1 of 1 University of Nebraska	(100%)

NON-PUBLIC K-20 Participants:

6 of 213 private, denominational or parochial schools	(3%)
7 of 14 nonprofit private postsecondary educational institutions	(50%)

Procurement Outlook for Fall 2014

- Provider information meeting on Tuesday, August 19, 2014
- Possible rebidding of Internet access to replace 2012-2015 contract
- Possible rebidding of statewide backbone to augment 2012-2016 contract
- Possible rebidding of K12, Higher Ed, Library WAN circuits, as requested
- Possible bidding of internal networking equipment for K-12 and public libraries, depending on FCC recommendations



Dave Heineman
Governor

STATE OF NEBRASKA

OFFICE OF THE CHIEF INFORMATION OFFICER
Brenda L. Decker
Chief Information Officer

P.O. Box 95045
Lincoln, Nebraska 68509-5045
402-471-3560

July 14, 2014

The Office of the CIO is prepared to announce the 2014-15 Network Nebraska-Education fees and also update you on a number of exciting developments relative to the statewide education network.

I am pleased to report that 14 new K-12 entities will be joining Network Nebraska during the summer of 2014. These public K-12 entities will eligible this fall to begin earning distance education incentives from the Education Innovation Fund. A Participant Report Summary appears at the end of this memo as we pass the seventh anniversary of the statewide network consortium known as Network Nebraska-Education.

The Network Nebraska Advisory Group (NNAG) is now in its fifth year of existence—comprised of 8 individuals from K-12 and 8 from higher education. These members normally meet about six times per year and indirectly represent the interests of all 274 education entities presently on the K-20 network. Their job is to provide strategic vision and operational recommendations to the Office of the Chief Information Officer as we manage and grow the network. (NNAG [website](#)) If you would be interested in serving on the NNAG, you may contact co-chairs John Stritt, jstritt@esu10.org if you are with K-12, or Debbie Schroeder, schroederd@unk.edu, if you are with higher education.

We have over 30 WAN circuit changes scheduled for implementation during summer 2014. The Network Nebraska project team is working with providers and education staff to make sure the conversion goes smoothly.

Several changes happened with statewide Internet access, effective 7/1/2014. Network Nebraska-Education Internet bandwidth increased by 80% and will be purchased through two different providers. The unit price for 2014-15 decreased by 49% (to \$1.28/Mbps/month). For the third year in a row, the Office of the CIO has assumed the E-rate filing on the eligible portion of the statewide Internet purchase and will be billing the eligible entities the post-E-rate amounts. Some higher education participants have opted for a blended Internet service so their unit rates may be higher.

The Network Nebraska-Education backbone maintained its circuit capacity at 2Gbps, now burstable up to 5Gbps. Two new aggregation circuits will be placed into ESUs 5 and 6 to bring on 14 new K-12 entities. Consequently, Participants will see a slight increase (6% or 7%) in their monthly Interregional Transport fees.

At the request of the Network Nebraska Advisory Group, two new services were successfully added 2013-14; enterprise Intrusion Prevention Services (IPS) using Fortinet devices, and Commercial Peering Service (CPS) through Internet2. IPS helped increase network security and CPS provided a faster Internet peering pathway to such entities as Microsoft, Apple, Google, and other companies to augment Network Nebraska's normal commodity Internet option.

The Participation Fee budget for 2014-15 includes a line item called "Network Upgrade Project" which will be used to help pay for a share of a University of Nebraska dark fiber project, which will provide increased capacity in the Lincoln-to-Omaha transport segment before the end of the 2014-15 year. Consequently, there will be a modest (1%) increase in Participation Fees for 2014-15.

The NNAG recommended that the OCIO videoconferencing bridge services be reduced to six simultaneous multi-point connections for administrative videoconferencing by any Network Nebraska member. More details about how to use this service are available from your ESU distance education coordinator or college technology officer.

The administrative partners of Network Nebraska, along with the Network Nebraska Advisory Group, have been reviewing the network revenue and expenses for the coming year and are prepared to announce the 2014-15 rates, which will take effect with the August 2014 billing:

<u>Performance Year</u>	<u>Network Nebraska Participation Fee</u>	<u>Number of Entities</u>
2014-15	\$218.30/month/entity	274 entities
2013-14	\$215.83/month/entity	261 entities
2012-13	\$203.48/month/entity	253 entities
2011-12	\$190.21/month/entity	244 entities
2010-11	\$195.13/month/entity	226 entities
2009-10	\$192.47/month/entity	232 entities
2008-09	\$197.80/month/entity	182 entities
2007-08	\$200.00/month/entity	94 entities

<u>Performance Year</u>	<u>Network Nebraska Interregional Transport Fee</u>	<u>Number of Entities</u>
2014-15	\$18.49/month/K-12 entity (\$ 57.79/month/college)	274 entities
2013-14	\$17.38/month/K-12 entity (\$ 53.80/month/college)	261 entities
2012-13	\$18.67/month/K-12 entity (\$ 61.28/month/college)	253 entities
2011-12	\$31.69/month/K-12 entity (\$101.09/month/college)	244 entities
2010-11	\$36.45/month/K-12 entity (\$115.78/month/college)	226 entities
2009-10	\$34.48/month/K-12 entity (\$ 92.72/month/college)	232 entities
2008-09	\$34.21/month/K-12 entity (\$ 93.35/month/college)	182 entities
2007-08	\$ 0.00/month/K-12 entity [no backbone in service]	94 entities

<u>Performance Year</u>	<u>Network Nebraska Internet Access Unit Charge</u>	<u>Number of Entities</u>
2014-15	\$.3982/Mbps/month for K-12 (\$1.28/Mbps/month for colleges)	32 entities
2014-15	\$.047/Mbps/month surcharge for K-12 and colleges for 3Gbps CPS	
2013-14	\$.7750/Mbps/month for K-12 (\$2.50/Mbps/month for colleges)	15 entities
2013-14	\$.070/Mbps/month surcharge for K-12 and colleges for 3Gbps CPS	

As CIO for the State of Nebraska, I am very proud to be associated with this public-private, federated project. Due to the cooperative spirit of Nebraska education entities, we have found a way to work together, share costs, and grow this network to serve over 400,000 Nebraska students. By aggregating Internet demand, we have leveraged one of the lowest unit prices for Internet access in the entire country. We are one of only a small number of education networks completely self-funded by the participants. In these challenging economic times, we all have been able to continue to make advancements in data management technology that improves the security and reliability of the overall network. For this, I commend and thank all of you.

If you have questions or comments about the contents of this memorandum, please contact me at brenda.decker@nebraska.gov or you can reach me at 402-471-3717. You may also travel to the new Network Nebraska-Education website and submit your comments: www.networknebraska.net.

Sincerely,



Brenda L. Decker
Chief Information Officer
State of Nebraska

Attachments

Comprehensive Listing of Network Nebraska—Education Services and Benefits (7/7/2014)

Student Learning Opportunities

- Statewide Clearinghouse and Videoconferencing Scheduling Software (i.e. Renovo)
- High quality exchange of Nebraska K-12 and college video distance learning classes
- High bandwidth Internet2 access to over 90,000 education partners and content providers
- Internet2 programming and virtual museum trips from across the U.S./world
- Transport for the new ESUCC/NDE statewide learning object repository
- Participant in the 2013-15 Internet2 InCommon national pilot project for federated identity services

Connectivity/Transport

- Intranet Ethernet connectivity to all 274 Network Nebraska participants and Nebraska Dept of Ed
- Interregional (high bandwidth backbone) Transport between Grand Island, Lincoln, Omaha, and Scottsbluff
- Access to commodity Internet1 service with one of the lowest rates in the U.S. (state contract purchase)
- 3Gbps Internet2 Commercial Peering Service and prioritized routing to over 60,000 companies
- Limited co-location rack space at Grand Island, Lincoln, Omaha core locations on a space available basis
- Core router and core infrastructure cost avoidance through the University of Nebraska partnership
- Shared services for up to six simultaneous videoconferencing ports over the OCIO MCU bridges
- Development of two dark fiber backbone projects partnered with UNCSN (New for 2014)

Network Management/Monitoring

- 24/7 network monitoring and call center
- Toll-free Network Nebraska number, 1-888-NET-NEBR (638-6327)
- Automated Notification System services
- Network abuse and nefarious activity monitoring
- Fortinet enterprise Intrusion Prevention Service
- Bandwidth measuring and assistance
- Level 1 network troubleshooting and support on Network Nebraska - Education backbone, core network devices and State Contract and University of Nebraska contracts for Internet access
- Level 2 network troubleshooting and support on wide area networking and other participant routing and DNS issues
- Level 2 video/scheduling troubleshooting and support
- Traffic shaping of Network Nebraska Internet bandwidth at Omaha and Lincoln
- Onsite and/or remote technician assistance, upon request

Administrative/E-rate

- RFP development and State Master Contract negotiations
- E-rate filing on the K-12 eligible portion of the Interregional Transport and statewide Internet
- Sponsored Education Group Participation (SEGP) Membership for Internet2
- Establishing the yearly eligibility list for LB1208 Distance Education Incentive Dollars and Equipment
- Reimbursements
- Management of the statewide purchase contracts for statewide scheduling, WAN services, Internet access, Cisco equipment, and videoconferencing equipment.
- E-rate archiving of bid documents, invoices, correspondence
- Continual Management of Consortium Letters of Agency to maintain E-rate eligibility
- OCIO Financial Solutions Services for budget development and vendor service orders
- State Billing services for Network Nebraska Participation Fee and Interregional Transport
- Network Nebraska website (www.networknebraska.net) development and support (New for 2014)

Network Nebraska—Education Participant Report (Part 1- PUBLIC Entities) July 1, 2014

Neb. Rev. Stat. 86-5,100 (excerpt) Network Nebraska; development and maintenance; access; Chief Information Officer; duties; cost; report.

The Chief Information Officer shall provide access to each school district, each educational service unit, each community college, each state college, and the University of Nebraska at the earliest feasible date and no later than July 1, 2012. Access may be provided through educational service units or other aggregation points. Participation in Network Nebraska shall not be required for any educational entity.*

*Note “Access” was defined by the Chief Information Officer as the ability to connect via Ethernet to one of the Network Nebraska—Education core aggregation points.

SUMMARY: Network Nebraska—Education PUBLIC K-20 Participants, as of 7/1/2013:

237 of 252* public school districts (*unified districts as separate entities)	(94%)
17 of 17 Educational Service Units	(100%)
8 of 8 community colleges (including 2 tribal colleges)	(100%)
3 of 3 state colleges	(100%)
1 of 1 University of Nebraska	(100%)

Network Nebraska—Education Participant Report (Part 2- NON-PUBLIC Entities) July 1, 2014

Neb. Rev. Stat. 86-5,100 (excerpt) Network Nebraska; development and maintenance; access; Chief Information Officer; duties; cost; report.

*The network shall consist of contractual arrangements with providers to meet the demand of state agencies, local governments, **and educational entities** as defined in section [79-1201.01](#).*

Neb. Rev.Stat. 79-1201.01 (excerpt) Terms, defined.

*3) **Educational entity** means a school district, a private, denominational, or parochial school, an educational service unit, a community college, a state college, the University of Nebraska, or a nonprofit private postsecondary educational institution;*

SUMMARY: Network Nebraska—Education NON-PUBLIC K-20 Participants, as of 7/1/2013:

6 of 213 private, denominational or parochial schools	(3%)
7 of 14 nonprofit private postsecondary educational institutions	(50%)

Appendices available upon request from the Office of the CIO, 402-471-7969, tom.rolfes@nebraska.gov :

Appendix A—PUBLIC K-12 Entity Participant List (districts and ESUs)
Appendix B—PUBLIC Higher Education Entity Participant List
Appendix C—PUBLIC K-12 Non-Participant List (districts and ESUs)
Appendix D—PUBLIC Higher Education Non-Participant list

Appendix E—NON-PUBLIC K-12 Participant List
Appendix F—NON-PUBLIC Higher Education Participant List
Appendix G—NON-PUBLIC K-12 Non-Participant list
Appendix H—NON-PUBLIC Higher Education Non-Participant list

	B	C	D	E	F	G	H	I	J	K	
1	Network Nebraska Participation Fee FY2014-15				Cost Recovery Period						
2	Date of Last Revision: July 7, 2014	Units	# of Payments Per Year	Price	Cost	Life Cycle	Annualized Cost	FY2013 Subtotals	FY2014 Subtotals		
3											
4	master lease interest rate							2.0%			
5											
6											
7	Equipment:										
8	Router -- Grand Island (Year 3 of 5)	0.85	1	\$ 126,727	\$107,718	5	\$22,657	\$22,657	\$ 22,657	NU	
9	Router -- Lincoln (Year 3 of 5)	0.00	1	\$ 157,059	\$0	5	\$0	\$0	\$ -	NU	
10	Router -- Omaha UNMC (Year 3 of 5)	0.80	1	\$ 104,515	\$83,612	5	\$17,586	\$17,586	\$ 17,586	NU	
11	Router -- Omaha 1623 Farnam (Year 3 of 5)	0.85	1	\$ 121,208	\$103,027	5	\$21,670	\$21,670	\$ 21,670	NU	
12	Router -- Omaha UNO/PKI (Year 3 of 5)	0.85	1	\$ 99,749	\$84,787	5	\$17,834	\$17,834	\$ 17,834	NU	
13	Router -- Scottsbluff (Year 3 of 5)	0.50	1	\$ 30,628	\$15,314	5	\$3,221	\$3,221	\$ 3,221	NU	
14	Procera Traffic Shaper - OMA/1623 Farnam (Year 3 of 5)	1	1	\$ 51,370	\$51,370	5	\$10,805	\$10,805	\$ 10,805	NU	
15	Procera Traffic Shaper - LNK (Year 2 of 5)	1	1	\$ 89,795	\$89,795	5	\$18,887	\$18,887	\$ 18,887	NU	
16	Fortinet FG-800C, Includes 1st year maintenance	4	1	\$ 8,700	\$34,800	5	\$7,320	\$7,320	\$ 7,320	NU	
17	Fortinet FA-1000C, Includes 1st year maintenance	1	1	\$ 6,900	\$6,900	5	\$1,451	\$1,451	\$ 1,451	NU	
18	Core 10Gbps Aggregation Switch	3	1	\$ 11,914	\$35,742	5	\$7,518	\$0	\$ 7,518	NU	
19	Network Upgrade Project (10G DWDM, LNK to OMA, Year 1 of 4)	1	1	\$ 120,000	\$120,000	4	\$31,241	\$13,347	\$ 31,241	NU	
20	MCU -- Shared Service (6 ports @ \$372/year)	6	1	\$ 372	\$2,232	1	\$2,232	\$4,464	\$ 2,232	OCIO	
21								\$139,241	\$ 162,421		
22	Equipment Maintenance:										
23	Router Maintenance -- Grand Island (Year 3 of 4)	0.85	1	\$ 13,180	\$11,203	1	\$11,203	\$11,203	\$ 11,203	NU	
24	Router Maintenance -- Lincoln (Year 3 of 4)	0.00	1	\$ 14,136	\$0	1	\$0	\$0	\$ -	NU	
25	Router Maintenance -- Omaha UNMC (Year 3 of 4)	0.80	1	\$ 11,285	\$9,028	1	\$9,028	\$9,028	\$ 9,028	NU	
26	Router Maintenance -- Omaha 1623 Farnam (Year 3 of 4)	0.85	1	\$ 13,181	\$11,204	1	\$11,204	\$11,204	\$ 11,204	NU	
27	Router Maintenance -- Omaha UNO/PKI (Year 3 of 4)	0.85	1	\$ 12,084	\$10,271	1	\$10,271	\$10,271	\$ 10,271	NU	
28	Router Maintenance -- Scottsbluff (Year 3 of 4)	0.50	1	\$ 9,336	\$4,668	1	\$4,668	\$4,668	\$ 4,668	NU	
29	Packet Shaper Maintenance - 1623 Farnam Omaha PL8720 10Gbps	1.00	1	\$ 20,991	\$20,991	1	\$20,991	\$20,991	\$ 20,991	NU	
30	Packet Shaper Maintenance - Lincoln NH PL8720 4Gbps	1.00	1	\$ 13,705	\$13,705	1	\$13,705	\$13,705	\$ 13,705	NU	
31	Packet Reporter Maintenance - Lincoln, NH PL-1200 Reporter	1.00	1	\$ 1,990	\$1,990	1	\$1,990	\$1,990	\$ 1,990	NU	
32	Fortinet FG-800C Maintenance 2nd year (2014-15) forward	4.00	1	\$ 2,700	\$10,800	1	\$10,800	\$10,800	\$ 10,800	NU	
33	Fortinet FA-1000C Maintenance 2nd year (2014-15) forward	1.00	1	\$ 2,000	\$2,000	1	\$2,000	\$2,000	\$ 2,000	NU	
34	Juniper ES4550 Maintenance	2.00	1	\$ 1,241	\$2,482	1	\$2,482	\$2,482	\$ 2,482	NU	
35	Probe Maintenance - Lincoln	0.4	1	\$ 11,785	\$4,714	1	\$4,714	\$4,714	\$ 4,714	NU	
36	Probe Maintenance - Lincoln	0.3	1	\$ 4,121	\$1,236	1	\$1,236	\$1,236	\$ 1,236	NU	
37	Probe Maintenance - UNO/PKI	0.3	1	\$ 7,084	\$2,125	1	\$2,125	\$2,125	\$ 2,125	NU	
38	Proximity Maintenance for CP Access System (5 cameras)	0.5	1	\$ 83	\$42	1	\$42	\$42	\$ 42	NU	
39	Lifesize Passport Codec Maintenance (Year 1 of 3)	1	1	\$ 855	\$855	3	\$294	\$294	\$ 294	NU	
40								\$54,491	\$ 106,753		
41	Software										
42	Dorado RedCell Purchase (Year 5 of 5)	0.5	1	\$ 81,000	\$40,500	5	\$8,518	\$8,518	\$ 8,518	NU	
43	Network Management Refresh (Year 1 of 5)	0.5	1	\$ 40,000	\$20,000	5	\$4,207	\$4,207	\$ 4,207	NU	
44	iWatch System & install to monitor College Park generator	0.5	1	\$ 7,332	\$3,666	1	\$3,666	\$3,666	\$ 3,666	NU	
45	Access Control System Software Upgrade & License	0.5	1	\$ 5,407	\$2,704	1	\$2,704	\$2,704	\$ 2,704	NU	
46								\$19,095	\$ 19,095		
47	Software Maintenance:										
48	Ngenious Mgr Maintenance	0.5	1	\$ 7,820	\$3,910	1	\$3,910	\$3,910	\$ 3,910	NU	
49	Stat Seeker Maintenance	0.5	1	\$ 5,150	\$2,575	1	\$2,575	\$2,575	\$ 2,575	NU	
50	RedHat Enterprise Linux Software Maintenance	0.5	1	\$ 813	\$407	1	\$407	\$407	\$ 407	NU	
51	i.Support Licenses	0.25	1	\$ 3,300	\$825	1	\$825	\$825	\$ 825	NU	
52	Keyscan Software K-web for CP	0.5	1	\$ 365	\$183	1	\$183	\$183	\$ 183	NU	
53	College Park Camera Software Licensing	0.5	1	\$ 99	\$50	1	\$50	\$50	\$ 50	NU	
54								\$7,949	\$ 7,949		
55	Staff Support -- University of Nebraska										
56	UNCSN Support Team	1	1	\$ 200,000	\$200,000	1	\$200,000	\$200,000	\$ 200,000	NU	
57	Network Engineer/Team Lead										
58	Network Engineers (Est. FTE of 2.0)										
59	Network Operators (24/7)										
60	Administrative Assistant										
61	Accountant										
62	Training	1	1	\$ 1,875	\$1,875	1	\$1,875	\$1,875	\$ 1,875	NU	
63	Travel FY2014	1	1	\$ 7,500	\$7,500	1	\$7,500	\$7,500	\$ 7,500	NU	
64								\$209,375	\$ 209,375		
65	Staff Support -- Office of the CIO (Network Services)										
66	Network Services Team (including benefits)	0.05	12	\$ 6,230	\$3,738	1	\$3,738	\$3,738	\$ 3,738	OCIO	
67	Travel/Videoconferencing	1	1	\$ 500	\$500	1	\$500	\$500	\$ 500	OCIO	
68								\$4,238	\$ 4,238		
69	Staff Support -- Nebraska Dept of Ed (E-rate Services)										
70	State E-rate Coordinator	1	4	\$ 4,500	\$18,000	1	\$18,000	\$18,000	\$ 18,000	NDE	
71	Travel	1	1	\$ 500	\$500	1	\$500	\$500	\$ 500	NDE	
72								\$18,500	\$ 18,500		
73	Other:										
74	Packet Shaper Bandwidth License Upgrade 11Gbps	11	1	\$ 4,140	\$45,540	1	\$45,540	\$45,540	\$ 45,540	NU	
75	Packet Shaper Bandwidth License 24x7 Support Upgrade 11Gbps	11	1	\$ 825	\$9,075	1	\$9,075	\$9,075	\$ 9,075	NU	
76	SEGP (Internet2 increase for 2014-15)	1	1	\$ 36,000	\$36,000	1	\$36,000	\$36,000	\$ 41,000	NU	
77	SFP Modules 10Gbps SR's / LR's	1	1	\$ 5,000	\$5,000	1	\$5,000	\$5,000	\$ 5,000	NU	
78	Patch Cables and Termination tools	1	1	\$ 1,000	\$1,000	1	\$1,000	\$1,000	\$ 1,000	NU	
79	Traffic Testing Equipment for core aggregation points	5	1	\$ 1,700	\$8,500	1	\$8,500	\$8,500	\$ 8,500	NU	
80	Network Nebraska Toll-Free Number	1	1	\$ 433	\$433	1	\$433	\$433	\$ 372	NU	
81	Automatic Notification System (WARN)	0.25	1	\$ 2,244	\$561	1	\$561	\$0	\$ 561	NU	
82								\$44,933	\$ 111,048		
83											
84								\$634,439	\$584,288	\$ 639,378	
85											
86	Indirect Cost Allocation (Interregional Transport Fee)	7%	1	\$190,020	\$13,301	1	\$13,301	\$13,301	\$ 13,301		
87	Indirect Cost Allocation (K-12 Internet Access)	7%	1	\$215,010	\$15,051	1	\$15,051	\$15,051	\$ 15,051		
88	Indirect Cost Allocation (H.E. Internet Access)	7%	1	\$75,630	\$5,294	1	\$5,294	\$5,294	\$ 5,294		
89	Indirect Cost Allocation (Participation Fee)	7%	1	\$639,378	\$44,756	1	\$44,756	\$44,756	\$ 44,756		
90								\$78,403	\$ 78,403		
91											
92								\$712,842	\$662,691	\$ 717,781	
93											
94	Projected Units of Sale							274			
95	Annual Cost Per Unit							\$ 2,619.64			
96	Monthly Cost Per Unit	12 months						\$ 218.30			
97	Total Projected Revenue							\$ 717,781			
98	NOTE: Major cost considerations for FY 2014-2015 are highlighted in yellow.										
99	NOTE: Changes to 2013-14 amounts are denoted by red text.										

	A	B	C	D	E	F	G
1	Network Nebraska Interregional Transport Fee FY 2014-15				Cost Recovery Period		
2							
3	Date of Last Revision: July 7, 2014	Units	# of Payments Per Year	Price	Cost	Life Cycle	Annualized Cost
4							
5	master lease interest rate						2.0%
6							
7							
8	Backbone Transport Circuit Costs (See Footnote)						
9	Lincoln to Grand Island, 2000Mbps NebraskaLink	1	12	\$4,050.00	\$48,600.00	1	\$ 48,600.00
10	Grand Island to Omaha, 2000Mbps NebraskaLink	1	12	\$2,500.00	\$30,000.00	1	\$ 30,000.00
11	Grand Island to Scottsbluff, 2000Mbps NebraskaLink	1	12	\$2,285.00	\$27,420.00	1	\$ 27,420.00
12	Scottsbluff to Omaha, 2000Mbps NebraskaLink	1	12	\$2,500.00	\$30,000.00	1	\$ 30,000.00
13	Lincoln to Omaha, 2000Mbps State Disaster Recovery Fiber	1	12	\$0.00	\$0.00	1	\$ -
14							
15							
16							
17	Routing & Aggregation Circuits (See Footnote)						
18	Omaha, 300Mbps (CenturyLink QMOE)	0	12	\$0.00	\$0.00	1	\$ -
19	Grand Island, 400Mbps (Charter Business)	0	12	\$0.00	\$0.00	1	\$ -
20	ESU 3, 3500Mbps (Windstream)	0	12	\$0.00	\$0.00	1	\$ -
21	ESU 5, 1000Mbps (Great Plains)	1	12	\$1,800.00	\$21,600.00	1	\$ 21,600.00
22	ESU 6, 1000Mbps (Windstream)	1	12	\$2,700.00	\$32,400.00	1	\$ 32,400.00
23							
24							
25	Total						\$ 190,020.00
26							
27	Projected Units of Sale						274
28							
29	Annual Cost Per Unit (Pre Erate)						\$693.50
30	Monthly Cost Per Unit (Pre Erate)						\$ 57.79
31	Net Monthly Cost Per K-12 Unit (Post Erate)						\$ 18.49
32	Footnote						
33	Network Costs include 6.95% NUSF						
34							
35							
36	FY 2013 E-RATE CALCULATIONS				Total Units	K-12 Units	H.E. Units
37					274	255	19
38	Form 471 Certification Results		3/15/2013	Cost Recovery Formula	Annual	Monthly	Total
39	Total Funding Year pre-cost allocation amount		\$ 190,020.00	Higher Ed Contributions	\$ 693.50	\$ 57.79	\$ 13,176.57
40	Total Annual Cost Allocation for Higher Education		\$13,176.57				
41	Total Funding Year pre-discount amount		\$ 176,843.43				
42	Total Funding Commitment Request (68%)		\$ 120,253.53	E-rate		\$ 39.30	\$ 120,253.53
43				K-12 (post erate)		\$ 18.49	\$ 56,589.90
44	Total Budgeted Amount allocated to resources not eligible for Erate		\$ 539,136.00	K-12 Contributions			\$ 176,843.43
45	Total amount necessary for the applicant to pay the non-discount share		\$ 539,136.00	TOTAL			\$ 190,020.00
46							
47	INTERREGIONAL TRANSPORT FEE, 2007-PRESENT						
48					Total		
49	Performance Year	K-12 Monthly	Higher Education Monthly	# entities	Comments		
50	2007-08	\$ -	\$ -	94	(No backbone in service)		
51	2008-09	\$ 34.21	\$ 93.35	182	(State RFP 1752)		
52	2009-10	\$ 34.48	\$ 92.72	232			
53	2010-11	\$ 36.45	\$ 115.78	226	(1 entity, 1 fee structure)		
54	2011-12	\$ 31.69	\$ 101.09	246			
55	2012-13	\$ 18.67	\$ 61.28	252	(State RFPs 3827, 3886)		
56	2013-14	\$ 17.38	\$ 53.80	261			
57	2014-15	\$ 18.49	\$ 57.79	274	(State RFP 4582)		

