



**Pete Ricketts**  
Governor

**State of Nebraska**  
**Office of the Chief Information Officer**  
**Ed Toner**

Chief Information Officer  
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July 31, 2015

Greetings from the Office of the CIO. My name is Ed Toner and I am the newly appointed Chief Information Officer for the State of Nebraska. My first day of work was June 9<sup>th</sup>.

The Office of the CIO is prepared to announce the 2015-16 Network Nebraska-Education fees and also update you on a number of exciting developments relative to this statewide education network.

I am pleased to report that 15 new K-12 entities will be joining Network Nebraska during summer 2015 and 4 school districts consolidated which translated into 11 new entities. Public K-12 and public higher education participation is now over 99% and private K-12 is reaching 20% and private higher education is at 50%. A Participant Report Summary appears at the end of this memo as we pass the eighth anniversary of the statewide network consortium known as Network Nebraska-Education.

The Network Nebraska Advisory Group (NNAG) is now in its sixth 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 285 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. If you are interested in serving on the NNAG, you may contact co-chairs Scott Jones, [scott.jones@esu16.org](mailto:scott.jones@esu16.org) if you are with K-12, or Debbie Schroeder, [schroederd@unk.edu](mailto:schroederd@unk.edu), if you are with higher education.

We have two backbone circuit changes scheduled for implementation during summer 2015 as well as many new entities joining. The UNCSN project team is working with providers and education staff to make sure the conversion goes smoothly.

Several changes happened with statewide Internet access, effective 7/1/2015. Network Nebraska-Education Internet bandwidth will be dynamically provisioned and will be purchased through two different providers. The blended unit rate for 2015-16 decreased by 27% (to \$ .935/Mbps/month). For the fourth 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 after a 68% discount.

At the recommendation of the NNAG, dynamic provisioning will enable Network Nebraska to purchase more Internet than demand, but less than the sum of the "orders" from our K-12 and higher education Internet purchasers. This cost avoidance will be reinvested back into the network infrastructure to help reduce the monthly Participation Fee.

The Network Nebraska-Education backbone maintained its circuit capacity at 2Gbps, now burstable up to 5Gbps. One new aggregation circuit is being placed into ESU 3 to bring on 14 new K-12 entities. Consequently, Participants will see a slight increase in their monthly Interregional Transport fees.

The Participation Fee budget for 2015-16 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 2015-16 year. There will be a modest (6%) decrease in Participation Fees for 2015-16.

The Network Nebraska Advisory Group, the OCIO financial solutions team, and the Collaborative Aggregation Partnership (CAP) have been reviewing the network revenue and expenses for the coming year and are prepared to announce the 2015-16 rates, which will take effect with the August 2015 billing:

Performance Year	Network Nebraska Participation Fee	Number of Entities
<b>2015-16</b>	<b>\$205.35/month/entity</b>	<b>285 entities</b>
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

Performance Year	Network Nebraska Interregional Transport Fee	Number of Entities
<b>2015-16</b>	<b>\$22.12/month/K-12 entity (\$ 70.39/month/college)</b>	<b>285 entities</b>
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

Performance Year	Network Nebraska Internet Access Unit Charge	Number of Entities
<b>2015-16</b>	<b>\$.3024/Mbps/month for K-12 (\$.945/Mbps/month for colleges)</b>	<b>34 entities</b>
<b>2015-16</b>	<b>\$.0231/Mbps/month surcharge for K-12 and colleges for 3Gbps CPS</b>	
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 introduced to this public-private, federated project. I want to compliment Brenda Decker for her excellent leadership over the past nine years in developing Network Nebraska-Education to be one of the top networks of its type in the country.

I look forward to meeting or talking with you in the coming months. If you have questions or comments about the contents of this memorandum, please contact me at [ed.toner@nebraska.gov](mailto:ed.toner@nebraska.gov) or you can reach me at 402-471-3717. You may also visit the Network Nebraska-Education website and submit your comments: [www.networknebraska.net](http://www.networknebraska.net).

Sincerely,



Ed Toner  
Chief Information Officer

Attachments

## **Comprehensive Listing of Network Nebraska—Education Services and Benefits (7/1/2015)**

### **Student Learning Opportunities**

- Statewide Clearinghouse and Videoconferencing Scheduling Software ([www.nvis.esucc.org](http://www.nvis.esucc.org))
- 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 ESUCC/NDE statewide learning object repository and other applications
- Participant in the 2013-15 Internet2 InCommon national pilot project for federated identity services

### **Connectivity/Transport**

- Intranet Ethernet connectivity to all 285 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
- Dynamic provisioning of statewide Internet access

### **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 8 6 8&\$1) Membership for Internet2
- Establishing the yearly eligibility list for LB1208 Distance Education Incentive Dollars
- 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](http://www.networknebraska.net)) development and support

## Network Nebraska—Education Participant Report (Part 1- PUBLIC Entities) July 1, 2015

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 7/1/2015:

<b>244 of 245* public school districts</b> (*unified districts as separate entities)	<b>(99.6%)</b>
<b>17 of 17 Educational Service Units</b>	<b>(100%)</b>
<b>8 of 8 community colleges</b> (including 2 tribal colleges)	<b>(100%)</b>
<b>3 of 3 state colleges</b>	<b>(100%)</b>
<b>1 of 1 University of Nebraska</b>	<b>(100%)</b>

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## Network Nebraska—Education Participant Report (Part 2- NON-PUBLIC Entities) July 1, 2015

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 Schools, as of 7/1/2015:

<b>41 of 215 private, denominational or parochial schools</b>	<b>(19%)</b>
<b>7 of 14 nonprofit private postsecondary educational institutions</b>	<b>(50%)</b>

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### 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	<b>Network Nebraska Participation Fee FY2015-16</b>				<b>Cost Recovery Period</b>						
2	Date of Last Revision: July 1, 2015				Cost	Life Cycle	Annualized Cost	FY2014-15 Subtotals	FY2015-16 Subtotals		
3		Units	# of Payments Per Year	Price							
4	master lease interest rate							2.0%			
5	<b>Equipment:</b>										
6											
7	Router -- Grand Island (Year 4 of 5)	0.85	1	\$ 126,727	\$ 107,718	5	\$ 22,657	\$ 22,657	\$ 22,657	NU	
8	Router -- Lincoln (Year 4 of 5)	0.00	1	\$ 157,059	\$ -	5	\$ -	\$ -	\$ -	NU	
9	Router -- Omaha (Year 4 of 5)	0.80	1	\$ 104,515	\$ 83,612	5	\$ 17,586	\$ 17,586	\$ 17,586	NU	
10	Router -- Omaha (Year 4 of 5)	0.85	1	\$ 121,208	\$ 103,027	5	\$ 21,670	\$ 21,670	\$ 21,670	NU	
11	Router -- Omaha (Year 4 of 5)	0.85	1	\$ 99,749	\$ 84,787	5	\$ 17,834	\$ 17,834	\$ 17,834	NU	
12	Router -- Scottsbluff (Year 4 of 5)	0.50	1	\$ 30,628	\$ 15,314	5	\$ 3,221	\$ 3,221	\$ 3,221	NU	
13	Procera Traffic Shaper - OMA (Year 4 of 5)	1	1	\$ 51,370	\$ 51,370	5	\$ 10,805	\$ 10,805	\$ 10,805	NU	
14	Procera Traffic Shaper - LNK (Year 3 of 5)	1	1	\$ 89,795	\$ 89,795	5	\$ 18,887	\$ 18,887	\$ 18,887	NU	
15	Procera Networks PL-1225 Statistics/Reporting/Storage	1	1	\$ 22,880	\$ 22,880	3	\$ 7,864	\$ 7,864	\$ 7,864	NU	
16	Procera Networks PL-1225 One Year Support	1	1	\$ 4,575	\$ 4,575	1	\$ 4,575	\$ 4,575	\$ 4,575	NU	
17	SOLIDserver 500 hardware appliance IPAM-DNS-DHCP-NTP-TFTP	1	1	\$ 4,997	\$ 4,997	3	\$ 1,718	\$ 1,718	\$ 1,718	NU	
18	SOLIDserver 250 hardware appliance IPAM-DNS-DHCP-NTP-TFTP	1	1	\$ 3,437	\$ 3,437	3	\$ 1,181	\$ 1,181	\$ 1,181	NU	
19	Remote Router Terminal Servers -- Grand Island	0.85	1	\$ 1,050	\$ 893	1	\$ 893	\$ 893	\$ 893	NU	
20	Remote Router Terminal Servers -- Omaha	0.80	1	\$ 2,236	\$ 1,789	1	\$ 1,789	\$ 1,789	\$ 1,789	NU	
21	Remote Router Terminal Servers -- Omaha	0.85	1	\$ 1,050	\$ 893	1	\$ 893	\$ 893	\$ 893	NU	
22	Remote Router Terminal Servers -- Omaha	0.85	1	\$ 1,050	\$ 893	1	\$ 893	\$ 893	\$ 893	NU	
23	Remote Router Terminal Servers -- Scottsbluff	0.50	1	\$ 1,050	\$ 525	1	\$ 525	\$ 525	\$ 525	NU	
24	Fortinet FG-1200D, Includes 3 year maintenance (Year 1 of 3)	2	1	\$ 25,800	\$ 51,600	3	\$ 17,735	\$ 17,735	\$ 17,735	NU	
25	Fortinet FG-800C (Year 2 of 5)	4	1	\$ 8,700	\$ 34,800	5	\$ 7,320	\$ 7,320	\$ 7,320	NU	
26	Fortinet FA-1000C (Year 2 of 5)	1	1	\$ 6,900	\$ 6,900	5	\$ 1,451	\$ 1,451	\$ 1,451	NU	
27	Network Time Server	1	1	\$ 2,500	\$ 2,500	5	\$ 526	\$ 526	\$ 526	NU	
28	Core 10Gbps Aggregation Switch (Year 2 of 5)	3	1	\$ 11,914	\$ 35,742	5	\$ 7,518	\$ 7,518	\$ 7,518	NU	
29	Arista Core 10Gbps Aggregation Switch (Year 1 of 5)	3	1	\$ 8,340	\$ 25,020	5	\$ 5,263	\$ 5,263	\$ 5,263	NU	
30	Network Upgrade Project (10G DWD, LNK to OMA, Year 2 of 4)	1	1	\$ 120,000	\$ 120,000	4	\$ 37,500	\$ 13,347	\$ 37,500	NU	
31	<b>Subtotal</b>							\$ 139,241	\$ 210,301		
32	<b>Equipment Maintenance:</b>										
33	Router Maintenance -- Grand Island (Year 4 of 4)	0.85	1	\$ 11,463	\$ 9,744	1	\$ 9,744	\$ 9,744	\$ 9,744	NU	
34	Router Maintenance -- Lincoln (Year 4 of 4)	0.00	1	\$ 12,418	\$ -	1	\$ -	\$ -	\$ -	NU	
35	Router Maintenance -- Omaha (Year 4 of 4)	0.80	1	\$ 9,567	\$ 7,654	1	\$ 7,654	\$ 7,654	\$ 7,654	NU	
36	Router Maintenance -- Omaha (Year 4 of 4)	0.85	1	\$ 11,463	\$ 9,744	1	\$ 9,744	\$ 9,744	\$ 9,744	NU	
37	Router Maintenance -- Omaha (Year 4 of 4)	0.85	1	\$ 10,366	\$ 8,811	1	\$ 8,811	\$ 8,811	\$ 8,811	NU	
38	Router Maintenance -- Scottsbluff (Year 4 of 4)	0.50	1	\$ 9,337	\$ 4,669	1	\$ 4,669	\$ 4,669	\$ 4,669	NU	
39	Cisco 4900 12cps handover switch	1.00	1	\$ 1,390	\$ 1,390	1	\$ 1,390	\$ 1,390	\$ 1,390	NU	
40	Arista 7150 10Gbps Maintenance	4.00	1	\$ 1,352	\$ 5,408	1	\$ 5,408	\$ 5,408	\$ 5,408	NU	
41	SOLIDserver maintenance services for SDS-500-NSIPAM	1	1	\$ 1,747	\$ 1,747	3	\$ 600	\$ 600	\$ 600	NU	
42	SOLIDserver maintenance services for SDS-250-NSIPAM	1	1	\$ 1,080	\$ 1,080	3	\$ 371	\$ 371	\$ 371	NU	
43	Arista 7150 10Gbps Maintenance	1	3	\$ 1,352	\$ 4,056	1	\$ 4,056	\$ 4,056	\$ 4,056	NU	
44	Fortinet FG-800C Maintenance 3rd year (2014-15) forward	4.00	1	\$ 2,700	\$ 10,800	1	\$ 10,800	\$ 10,800	\$ 10,800	NU	
45	Fortinet FA-1000C Maintenance 3rd year (2014-15) forward	1.00	1	\$ 2,000	\$ 2,000	1	\$ 2,000	\$ 2,000	\$ 2,000	NU	
46	Juniper ES4550 Maintenance	2.00	1	\$ 1,034	\$ 2,068	1	\$ 2,068	\$ 2,068	\$ 2,068	NU	
47	Proximity Maintenance for CP Access System (5 cameras)	0.5	1	\$ 83	\$ 42	1	\$ 42	\$ 42	\$ 42	NU	
48	Lifesize Passport Codec Maintenance (Year 2 of 3)	1	1	\$ 855	\$ 855	3	\$ 294	\$ 294	\$ 294	NU	
49	<b>Subtotal</b>							\$ 62,622	\$ 67,619		
50	<b>Software</b>										
51	NOC360 edu Internet Traffic Analytics Dashboard	1	1	\$ 25,000	\$ 25,000	1	\$ 25,000	\$ 25,000	\$ 25,000	NU	
52	SolarWinds (Year 2 of 5)	0.5	1	\$ 40,000	\$ 20,000	5	\$ 4,207	\$ 4,207	\$ 4,207	NU	
53	iWatch System & install to monitor College Park generator	0.5	1	\$ 7,332	\$ 3,666	1	\$ 3,666	\$ 3,666	\$ 3,666	NU	
54	Automatic Notification System (One Call Now)	0.25	1	\$ 2,244	\$ 561	1	\$ 561	\$ 561	\$ 561	NU	
55	<b>Subtotal</b>							\$ 7,873	\$ 32,873		
56	<b>Software Maintenance:</b>										
57	SolarWinds Maintenance	0.5	1	\$ 11,000	\$ 5,500	1	\$ 5,500	\$ 5,500	\$ 5,500	NU	
58	i.Support Licenses	0.25	1	\$ 3,300	\$ 825	1	\$ 825	\$ 825	\$ 825	NU	
59	<b>Subtotal</b>							\$ 6,325	\$ 6,325		
60	<b>Staff Support -- University of Nebraska</b>										
61	UNCNSN Support Team	1	1	\$ 210,000	\$ 210,000	1	\$ 210,000	\$ 200,000	\$ 210,000	NU	
62	Team Lead	1	1	\$ 2,240	\$ 2,240	1	\$ 2,240	\$ 2,240	\$ 2,240	NU	
63	Network Engineers (Est. FTE of 2.0)	1	1	\$ 172,450	\$ 172,450	1	\$ 172,450	\$ 172,450	\$ 172,450	NU	
64	Network Operators (24/7)	1	1	\$ 29,118	\$ 29,118	1	\$ 29,118	\$ 29,118	\$ 29,118	NU	
65	Administrative/Budget	1	1	\$ 6,192	\$ 6,192	1	\$ 6,192	\$ 6,192	\$ 6,192	NU	
66	Training	1	1	\$ 1,875	\$ 1,875	1	\$ 1,875	\$ 1,875	\$ 1,875	NU	
67	Travel FY2015-16	1	1	\$ 7,500	\$ 7,500	1	\$ 7,500	\$ 7,500	\$ 7,500	NU	
68	<b>Subtotal</b>							\$ 209,375	\$ 219,375		
69	<b>Staff Support -- Office of the CIO (Network Services)</b>										
70	Network Services Team (including benefits)	0.05	12	\$ 6,230	\$ 3,738	1	\$ 3,738	\$ 3,738	\$ 3,738	OCIO	
71	Travel/Videoconferencing	1	1	\$ 500	\$ 500	1	\$ 500	\$ 500	\$ 500	OCIO	
72	<b>Subtotal</b>							\$ 4,238	\$ 4,238		
73	<b>Staff Support -- Nebraska Dept of Ed (E-rate Services)</b>										
74	State E-rate Coordinator	1	4	\$ 4,500	\$ 18,000	1	\$ 18,000	\$ 18,000	\$ 18,000	NDE	
75	Travel	1	1	\$ 500	\$ 500	1	\$ 500	\$ 500	\$ 500	NDE	
76	<b>Subtotal</b>							\$ 18,500	\$ 18,500		
77	<b>Other:</b>										
78	SECP (Internet2 increase for 2014-15)	1	1	\$ 41,000	\$ 41,000	1	\$ 41,000	\$ 41,000	\$ 41,000	NU	
79	SFP Modules 10Gbps SR's / LR's	1	1	\$ 5,000	\$ 5,000	1	\$ 5,000	\$ 5,000	\$ 5,000	NU	
80	Solid Optics Multi Fiber Tool Transceiver Programming tool	1	1	\$ 2,300	\$ 2,300	1	\$ 2,300	\$ 2,300	\$ 2,300	NU	
81	Solid-Optics Multi Fiber Tool Annual Service	1	1	\$ 1,400	\$ 1,400	1	\$ 1,400	\$ 1,400	\$ 1,400	NU	
82	Patch Cables and Termination tools	1	1	\$ 1,000	\$ 1,000	1	\$ 1,000	\$ 1,000	\$ 1,000	NU	
83	Traffic Testing Equipment for core aggregation points	5	1	\$ 2,000	\$ 10,000	1	\$ 10,000	\$ 10,000	\$ 10,000	NU	
84	Network Nebraska Toll-Free Number	1	1	\$ 433	\$ 433	1	\$ 433	\$ 433	\$ 433	NU	
85	Remote Router Terminal Server Cellular Data Service	1	12	\$ 20	\$ 240	1	\$ 240	\$ 240	\$ 240	NU	
86	MCU -- Shared Service (6 ports @ \$372/year)	6	1	\$ 372	\$ 2,232	1	\$ 2,232	\$ 4,464	\$ 2,232	OCIO	
87	<b>Subtotal</b>							\$ 57,433	\$ 63,544		
88	<b>Total</b>							\$ 831,195	\$ 584,288		
89											
90											
91											
92	Indirect Cost Allocation (Interregional Transport Fee)	7%	1	\$ 240,744	\$ 16,852	1	\$ 16,852	\$ 13,301	\$ 16,852	OCIO	
93	Indirect Cost Allocation (Cogent Internet Access)	7%	1	\$ 99,500	\$ 6,965	1	\$ 6,965	\$ 15,051	\$ 6,965	OCIO	
94	Indirect Cost Allocation (Windstream Internet Access)	7%	1	\$ 172,800	\$ 12,096	1	\$ 12,096	\$ 5,294	\$ 12,096	OCIO	
95	Indirect Cost Allocation (Participation Fee)	7%	1	\$ 622,775	\$ 43,594	1	\$ 43,594	\$ 44,756	\$ 43,594	OCIO	
96	<b>Subtotal</b>							\$ 78,402	\$ 79,507		
97	<b>Total</b>							\$ 910,702	\$ 662,690		
98											
99											
100	<b>Projected Units of Sale</b>							\$ 285			
101	<b>Annual Cost Per Unit</b>							\$ 2,464			
102	<b>Monthly Cost Per Unit</b>		12 months					\$ 205.35			
103	<b>Total Projected Revenue</b>							\$ 702,282			
104	<i>NOTE: Changes to 2014-15 amounts are denoted by red text</i>										

	A	B	C	D	E	F	G
1	<b>Network Nebraska Interregional Transport Fee FY 2015-16</b>				<b>Cost Recovery Period</b>		
2							
3	Date of Last Revision: July 1, 2015	Units	# of Payments Per Year	Price	Cost	Life Cycle	Annualized Cost
4							
5	master lease interest rate						2.0%
6							
7							
8	<b>Backbone Transport Circuit Costs (See Footnote)</b>						
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	<b>Routing &amp; Aggregation Circuits (See Footnote)</b>						
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, 8000Mbps (Windstream)	1	12	\$3,187.00	\$38,244.00	1	\$ 38,244.00
21	ESU 5, 1000Mbps (Great Plains)	1	12	\$1,800.00	\$21,600.00	1	\$ 21,600.00
22	ESU 6, 1500Mbps (Windstream)	1	12	\$3,740.00	\$44,880.00	1	\$ 44,880.00
23							
24							
25	<b>Total</b>						<b>\$ 240,744.00</b>
26							
27	<b>Projected Units of Sale</b>						285
28							
29	<b>Annual Cost Per Unit (Pre Erate)</b>						\$844.72
30	<b>Monthly Cost Per Unit (Pre Erate)</b>						\$ 70.39
31	<b>Net Monthly Cost Per K-12 Unit (Post Erate)</b>						\$ 22.12
32	<b>Footnote</b>						
33	Network Costs include 6.95% NUSF						
34							
35							
36	<b>FY 2015 E-RATE CALCULATIONS</b>				Total Units	K-12 Units	H.E. Units
37					285	264	21
38	<b>Form 471 Certification Results</b>		3/15/2015	<b>Cost Recovery Formula</b>	<b>Annual</b>	<b>Monthly</b>	<b>Total</b>
39	<b>Total Funding Year pre-cost allocation amount</b>		\$ 240,744.00	Higher Ed Contributions	\$ 844.72	\$ 70.39	\$ 17,739.03
40	Total Annual Cost Allocation for Higher Education		\$15,827.40				
41	Total Funding Year pre-discount amount		\$ 224,916.60				
42	Total Funding Commitment Request (68%)		\$ 152,943.29	E-rate		\$ 48.28	\$ 152,943.29
43				K-12 (post erate)		\$ 22.12	\$ 70,061.68
44	Total Budgeted Amount allocated to resources not eligible for Erate		\$ 539,136.00	K-12 Contributions			\$ 223,004.97
45	Total amount necessary for the applicant to pay the non-discount share		\$ 539,136.00	<b>TOTAL</b>			<b>\$ 240,744.00</b>
46							
47	<b>INTERREGIONAL TRANSPORT FEE, 2007-PRESENT</b>						
48							
49	<b>Performance Year</b>	<b>K-12 Monthly</b>	<b>Higher Education Monthly</b>	<b>Total # entities</b>	<b>Comments</b>		
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	\$ 18.30	\$ 57.79	274	(State RFP 4582)		
58	2015-16	\$ 22.12	\$ 70.39	285			



**Higher Education Internet 2015-16**

Higher Education Entity		Load Balanced?	Windstream Quantity (Mbps)	Windstream Unit Cost	Windstream Monthly Total	Cogent Quantity (Mbps)	Cogent Unit Cost	Cogent Monthly Total	CPS Quantity (Mbps)	CPS Unit Cost	CPS Monthly Total	Combined Monthly Total	Total Annual Invoice Cost	FY15-16 Validation/Comments	Confirmation Date
1	Central Community College	Y	150	\$ 1.20	\$ 180.00	150	\$ 0.69	\$ 103.50	300	\$ 0.0231	\$ 6.93	\$ 290.43	\$ 3,485.16	Tom Peters	7/28/2015
2	Chadron State College	Y	500	\$ 1.20	\$ 600.00	500	\$ 0.69	\$ 345.00	1,000	\$ 0.0231	\$ 23.10	\$ 968.10	\$ 11,617.20	Ann Burk	7/28/2015
3	Clarkson College	Y	150	\$ 1.20	\$ 180.00	150	\$ 0.69	\$ 103.50	300	\$ 0.0231	\$ 6.93	\$ 290.43	\$ 3,485.16	Larry Vinson	7/22/2015
4	College of St. Mary	Y	85	\$ 1.20	\$ 102.00	85	\$ 0.69	\$ 58.65	170	\$ 0.0231	\$ 3.93	\$ 164.58	\$ 1,974.92	Vicki Hoskovec	7/27/2015
5	Creighton University	Windstream	1000	\$ 1.20	\$ 1,200.00	0	\$ 0.69	\$ -	1,000	\$ 0.0231	\$ 23.10	\$ 1,223.10	\$ 14,677.20	Chris Vaverek	7/30/2015
6	Doane College	Y	600	\$ 1.20	\$ 720.00	600	\$ 0.69	\$ 414.00	1,200	\$ 0.0231	\$ 27.72	\$ 1,161.72	\$ 13,940.64	Mike Carpenter	7/17/2015
7	Little Priest Tribal College-Winnebago	Cogent	0	\$ 1.20	\$ -	100	\$ 0.69	\$ 69.00	100	\$ 0.0231	\$ 2.31	\$ 71.31	\$ 855.72	Morri Conway	7/29/2015
8	Metro Community College	Y	1000	\$ 1.20	\$ 1,200.00	1000	\$ 0.69	\$ 690.00	2,000	\$ 0.0231	\$ 46.20	\$ 1,936.20	\$ 23,234.40	Clifton Pee	7/27/2015
9	Midland University	Y	300	\$ 1.20	\$ 360.00	300	\$ 0.69	\$ 207.00	600	\$ 0.0231	\$ 13.86	\$ 580.86	\$ 6,970.32	Shane Perrien	7/30/2015
10	Mid-Plains Community College	Y	150	\$ 1.20	\$ 180.00	150	\$ 0.69	\$ 103.50	300	\$ 0.0231	\$ 6.93	\$ 290.43	\$ 3,485.16	Tim Hall	7/20/2015
11	Nebraska Indian Community College-Macy	Y	50	\$ 1.20	\$ 60.00	50	\$ 0.69	\$ 34.50	100	\$ 0.0231	\$ 2.31	\$ 96.81	\$ 1,161.72	Justin Kocian	7/20/2015
12	Nebraska Wesleyan University	Y	250	\$ 1.20	\$ 300.00	250	\$ 0.69	\$ 172.50	500	\$ 0.0231	\$ 11.55	\$ 484.05	\$ 5,808.60	Steven Dow	7/31/2015
13	Northeast Community College	Y	100	\$ 1.20	\$ 120.00	100	\$ 0.69	\$ 69.00	200	\$ 0.0231	\$ 4.62	\$ 193.62	\$ 2,323.44	Bret Steinhauser	7/27/2015
14	Peru State College	Y	175	\$ 1.20	\$ 210.00	175	\$ 0.69	\$ 120.75	350	\$ 0.0231	\$ 8.09	\$ 338.84	\$ 4,066.02	Gene Beardslee	7/27/2015
15	Southeast Community College	Y	250	\$ 1.20	\$ 300.00	250	\$ 0.69	\$ 172.50	500	\$ 0.0231	\$ 11.55	\$ 484.05	\$ 5,808.60	Ed Koster	7/22/2015
16	Union College	Y	150	\$ 1.20	\$ 180.00	150	\$ 0.69	\$ 103.50	300	\$ 0.0231	\$ 6.93	\$ 290.43	\$ 3,485.16	Richard Henriques	7/28/2015
17	UNCA/UNCSN	Y	50	\$ 1.20	\$ 60.00	50	\$ 0.69	\$ 34.50	100	\$ 0.0231	\$ 2.31	\$ 96.81	\$ 1,161.72	Greg Gray	7/27/2015
18	UNK	Y	400	\$ 1.20	\$ 480.00	400	\$ 0.69	\$ 276.00	800	\$ 0.0231	\$ 18.48	\$ 774.48	\$ 9,293.76	Karen Berryman	7/27/2015
19	UNMC	Cogent	0	\$ 1.20	\$ -	1000	\$ 0.69	\$ 690.00	1,000	\$ 0.0231	\$ 23.10	\$ 713.10	\$ 8,557.20	Kim Strohbeh	7/27/2015
20	UNO	Windstream	1000	\$ 1.20	\$ 1,200.00	0	\$ 0.69	\$ -	1,000	\$ 0.0231	\$ 23.10	\$ 1,223.10	\$ 14,677.20	Sybil Sanders	7/31/2015
21	Wayne State College	Y	500	\$ 1.20	\$ 600.00	500	\$ 0.69	\$ 345.00	1,000	\$ 0.0231	\$ 23.10	\$ 968.10	\$ 11,617.20	John Dunning	7/20/2015
22	Western Nebraska Community College	Y	75	\$ 1.20	\$ 90.00	75	\$ 0.69	\$ 51.75	150	\$ 0.0231	\$ 3.47	\$ 145.22	\$ 1,742.58	William Knapper	7/27/2015
<b>TOTALS</b>			<b>6,935</b>	<b>\$ 8,322.00</b>	<b>\$ 8,322.00</b>	<b>6,035</b>	<b>\$ 4,164.15</b>	<b>\$ 4,164.15</b>	<b>12,970</b>	<b>\$ 299.61</b>	<b>\$ 299.61</b>	<b>\$ 12,785.76</b>	<b>\$ 153,429.08</b>		