



July 28, 2017

Greetings from the State of Nebraska--Office of the Chief Information Officer (OCIO). My name is Ed Toner and I am just finishing my second year of employment as State CIO, helping oversee Network Nebraska and interconnecting education entities throughout the State of Nebraska.

Within this memo, the OCIO will announce the 2017-18 Network Nebraska fees and also update you on a number of exciting developments relative to this statewide education network.

While public K-12 and public higher education membership with Network Nebraska has reached 100%, our office is fielding inquiries from other sectors (e.g. municipalities, public libraries, Natural Resource Districts) interested in Network Nebraska. This falls under the statutory provision that "Network Nebraska shall meet the demand of local government...".

The Zoom Pro licensing service has proven to be very popular with our education partners. While the price jumped noticeably for 2017-18, the number of purchased licenses has continued to increase. I credit the co-chairs of the Network Nebraska Advisory Group (NNAG) with maintaining this as an outstanding collaborative system. Please contact Scott Jones, scott.jones@esusixteen.org, 402-546-7153 for more details.

We have several backbone circuit changes scheduled for implementation during summer 2017 as well as a few fiber circuit upgrades. The UNL-ITS project team is working with four different providers and education staff to make sure the conversions go smoothly.

A couple of positive changes happened with statewide Internet access, effective 7/1/2017. A new commercial peering service was added to the Omaha egress location to provide the network more direct and more efficient routing. The blended (averaged) unit rate for 2017-18 Internet stayed about the same, but the commercial peering surcharge increased slightly. For the sixth 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 K-12 and library entities the post-E-rate amounts (\$.27/Mbps/month) after a 67% discount.

The State and the University have continued to research Distributed Denial of Service (DDoS) software and appliances, and we are happy to report that we are nearing purchase of this valuable, budgeted service for all Network Nebraska participants.

The Network Nebraska backbone circuit capacity will range from 2Gbps up to 10Gbps. Three aggregation circuits are being used to serve ESUs 3, 4, 5, 6 and this aggregation support will terminate on 6/30/2018, and be replaced by provider infrastructure.

The Participation Fee budget and rates for 2017-18 stay virtually the same, and the Interregional Transport Fee will decrease by 20% due to a much more cost effective, long-haul backbone that was recently rebid.

The Network Nebraska Advisory Group (NNAG) is now in its eighth year of existence—comprised of 8 individuals from K-12 and 8 from higher education. These members usually meet every other month and indirectly represent the interests of all 291 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@esusixteen.org if you are with K-12, or Debbie Schroeder, schroederd@unk.edu, if you are with higher education.

As CIO for the State of Nebraska, I am very proud to be involved in this public-private project. Network Nebraska has become one of the top networks of its type in the country.

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

Sincerely,



Ed Toner
Chief Information Officer

Attachments

Network Nebraska Cost Recovery Rates for 2017-18

The NNAG, OCIO, ITS-UNL and the Collaborative Aggregation Partnership (CAP) have reviewed the network revenue and expenses for the coming year and are prepared to announce the 2017-18 rates, which will take effect with the August 2017 billing:

REQUIRED

Network Nebraska 1.0 Participation Fee	Number of Entities
\$217.21/month/entity (≥ 41Mbps)	289 entities

Network Nebraska .25 Participation Fee	Number of Entities
\$54.30/month/entity (≤ 40Mbps)	5 entities

REQUIRED

Network Nebraska 1.0 Interregional Transport Fee (>41Mbps)	Number of Entities
\$17.72/month/E-rate entity	268 entities
\$53.70/month/non E-rate entity	21 entities

Network Nebraska .25 Interregional Transport Fee (<40Mbps)	Number of Entities
\$ 4.43month/E-rate entity	2 entities
\$13.43month/non E-rate entity	3 entity

SUBSCRIPTION SERVICES

Network Nebraska Internet Access Unit Charge	Number of Entities
\$.2662/Mbps/month for blended Internet (E-rate entities)	17 entities
\$.8600/Mbps/month for Windstream Internet (non E-rate entities)	22 entities
\$.6900/Mbps/month for Cogent Internet (non E-rate entities)	23 entities
\$.0405/Mbps/month surcharge for all entities for Peering Services	40 entities

UNCSN Rack Hosting Charge	Number of Entities
\$628.00/month/Full Rack (42U)	TBD
\$314.00/month/Half Rack (21U)	TBD
\$ 15.00/month/Slot (1U)	TBD

Zoom Videoconferencing Statewide Contract	Number of Entities
\$ 4.50/user/year	TBD
\$499.00/Zoom CRC Port/year	TBD
\$499.00/Zoom Room/year	TBD

Network Nebraska Historic Rates for 2007-2018

<u>Performance Year</u>	<u>Network Nebraska Participation Fee</u>	<u>Number of Entities</u>
2017-18	\$217.21/month/entity	292 entities
2016-17	\$217.47/month/entity	291 entities
2015-16	\$205.35/month/entity	285 entities
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>
2017-18	\$17.72/month/E-rate entity (\$ 53.70/month/college)	292 entities
2016-17	\$22.16/month/E-rate entity (\$ 67.16/month/college)	291 entities
2015-16	\$22.12/month/E-rate entity (\$ 70.39/month/college)	285 entities
2014-15	\$18.49/month/E-rate entity (\$ 57.79/month/college)	274 entities
2013-14	\$17.38/month/E-rate entity (\$ 53.80/month/college)	261 entities
2012-13	\$18.67/month/E-rate entity (\$ 61.28/month/college)	253 entities
2011-12	\$31.69/month/E-rate 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>
2017-18	\$.2662/Mbps/month for K-12 (\$.80/Mbps/month for colleges)	41 entities
2017-18	\$.0405/Mbps/month surcharge for K-12 and colleges for Peering Services	
2016-17	\$.2459/Mbps/month for K-12 (\$.79/Mbps/month for colleges)	41 entities
2016-17	\$.0349/Mbps/month surcharge for K-12 and colleges for Peering Services	
2015-16	\$.3024/Mbps/month for K-12 (\$.945/Mbps/month for colleges)	34 entities
2015-16	\$.0231/Mbps/month surcharge for K-12 and colleges for 3Gbps CPS	
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	

Comprehensive Listing of Network Nebraska—Education Services and Benefits (7/1/2017)

Student Learning Opportunities

- Statewide Clearinghouse and Videoconferencing Scheduling Software (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
- Participant in the Internet2 InCommon national pilot project for federated identity services
- Statewide contract pricing for Zoom videoconferencing

Connectivity/Transport

- Intranet Ethernet connectivity to all 292 Network Nebraska participants and Nebraska Dept of Ed
- Interregional (high bandwidth backbone) Transport between Grand Island, Lincoln, Omaha, and Scottsbluff
- Access to 45Gbps of commodity Internet service with one of the lowest unit rates in the U.S.
- 20Gbps Internet2 Commercial Peering Service and prioritized routing to over 60,000 companies
- 20Gbps InterExchange Routing out of Omaha
- Co-location rack space at Lincoln core location as a subscription service
- Core router and core infrastructure cost avoidance through the University of Nebraska partnership
- Increased backbone transport through UNCSN dark fiber projects
- 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, including DDoS prevention for 2017-18
- Fortinet enterprise Intrusion Prevention Service
- Bandwidth measuring and assistance
- Level 1 network troubleshooting and support on Network Nebraska 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
- 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
- NEW consolidated invoicing and E-rate filing on state-contracted Layer 2 circuits
- Sponsored Education Group Participation (SEGP/U.S. UCAN) Membership with Internet2
- Membership in the national Quilt Consortium of statewide networks
- NEW Membership in the School, Health, Library Broadband (SHLB) Consortium
- 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, contracts, 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, Interregional Transport, Zoom, and Layer 2 Circuits
- Network Nebraska website (www.networknebraska.net) development and support

Network Nebraska—Education Participant Report (Part 1- PUBLIC Entities) July 1, 2017

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 7/1/2017:

245 of 245 public school districts	(100%)
17* of 17 Educational Service Units (*LPS and OPS counted as school districts)	(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, 2017

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 7/1/2017:

39 of 190 private, denominational or parochial schools	(20%)
7 of 14 nonprofit private postsecondary educational institutions	(50%)

More detailed appendices available upon request from the Office of the CIO, 402-471-7969, tom.rolfes@nebraska.gov or you may visit <http://www.networknebraska.net/members/index.html>

Network Nebraska Participation Fee FY2017-18				Cost Recovery Period				
Date of Last Revision: July 1, 2017	Units	# of Payments Per Year	Price	Cost	Life Cycle	Annualized Cost	FY2017-18 Subtotals	
master lease interest rate						2.0%		
Equipment:								
Traffic Shaper Upgrade Year (2 of 5)	1	1	\$ 162,500	\$ 162,500	5	\$ 34,179	\$ 34,179	NU
Network Upgrade Project (10G MPC3 Line cards, LNK, UNMC, FARNAM, Year 2 of 4)	1	1	\$ 99,000	\$ 99,000	5	\$ 20,823	\$ 20,823	NU
Arista Core 52port 10Gbps	2	1	\$ 15,283	\$ 30,566	5	\$ 6,429	\$ 6,429	NU
Arbor Networks ddos (Year 1 of 5)	1	1	\$ 165,135	\$ 165,135	5	\$ 34,733	\$ 34,733	NU
Procera Networks PL-1640 Statistics/Reporting/Storage (Year 2 of 3)	1	1	\$ 10,670	\$ 10,670	3	\$ 3,667	\$ 3,667	NU
Router -- Grand Island (Year 1 of 5)	1	1	\$ 80,836	\$ 80,836	5	\$ 17,002	\$ 17,002	NU
Router -- Lincoln (Year 1 of 5)	1	1	\$ 82,116	\$ 82,116	5	\$ 17,272	\$ 17,272	NU
Router -- Omaha 1623 Farnam (Year 1 of 5)	1	1	\$ 80,836	\$ 80,836	5	\$ 17,002	\$ 17,002	NU
Router -- ScottsBluff (Year 1 of 5)	1	1	\$ 80,836	\$ 80,836	5	\$ 17,002	\$ 17,002	NU
Juniper EX4550 2-Port Qsfp+ 40G Expansion Module	2	1	\$ 1,600	\$ 3,200	1	\$ 3,200	\$ 3,200	NU
Noction Software	0.5	1	\$ 58,248	\$ 29,124	5	\$ 6,126	\$ 6,126	NU
Procera Traffic Shaper - LNK (Year 5 of 5)	1	1	\$ 89,795	\$ 89,795	5	\$ 18,887	\$ 18,887	NU
Procera Networks PL-1225 Statistics/Reporting/Storage (Year 3 of 3)	1	1	\$ 22,880	\$ 22,880	3	\$ 7,864	\$ 7,864	NU
SOLIDserver 500 hardware appliance IPAM-DNS-DHCP-NTP-TFTP (Year 2 of 3)	1	1	\$ 4,997	\$ 4,997	3	\$ 1,718	\$ 1,718	NU
SOLIDserver 250 hardware appliance IPAM-DNS-DHCP-NTP-TFTP (Year 2 of 3)	1	1	\$ 3,437	\$ 3,437	3	\$ 1,181	\$ 1,181	NU
Fortinet FG-800C (Year 4 of 5)	4	1	\$ 8,700	\$ 34,800	5	\$ 7,320	\$ 7,320	NU
Fortinet FA-1000C (Year 4 of 5)	1	1	\$ 6,900	\$ 6,900	5	\$ 1,451	\$ 1,451	NU
Network Time Server (Year 2 of 5)	1	1	\$ 2,500	\$ 2,500	5	\$ 526	\$ 526	NU
Arista Core 10Gbps Aggregation Switch (Year 4 of 5)	1	1	\$ 11,914	\$ 35,742	5	\$ 7,518	\$ 7,518	NU
Arista Core 10Gbps Aggregation Switch (Year 3 of 5)	3	1	\$ 8,340	\$ 25,020	5	\$ 5,263	\$ 5,263	NU
Subtotal							\$ 229,163	
Equipment Maintenance:								
Router Maintenance -- Grand Island	1	1	\$ 6,435	\$ 6,435	1	\$ 6,435	\$ 6,435	NU
Router Maintenance -- Lincoln	1	1	\$ 6,523	\$ 6,523	1	\$ 6,523	\$ 6,523	NU
Router Maintenance -- Omaha UNMC	1	1	\$ 14,509	\$ 14,509	1	\$ 14,509	\$ 14,509	NU
Router Maintenance -- Omaha 1623 Farnam	1	1	\$ 6,435	\$ 6,435	1	\$ 6,435	\$ 6,435	NU
Router Maintenance -- Omaha UNO/PKI	1	1	\$ 15,830	\$ 15,830	1	\$ 15,830	\$ 15,830	NU
Router Maintenance -- Scottsbluff	1	1	\$ 6,435	\$ 6,435	1	\$ 6,435	\$ 6,435	NU
Arbor Maintenance	1	1	\$ 40,614	\$ 40,614	1	\$ 40,614	\$ 40,614	NU
Router Maintenance -- MPC3 Line cards Line Cards	3	1	\$ 1,311	\$ 3,933	1	\$ 3,933	\$ 3,933	NU
Arista 7150-52 10Gbps Maintenance	2	1	\$ 2,401	\$ 4,802	1	\$ 4,802	\$ 4,802	NU
Arista 7150-24 10Gbps Maintenance	7	1	\$ 1,223	\$ 8,561	1	\$ 8,561	\$ 8,561	NU
SOLIDserver maintenance services for SDS-500-NSIPAM	1	1	\$ 1,747	\$ 1,747	3	\$ 600	\$ 600	NU
SOLIDserver maintenance services for SDS-250-NSIPAM	1	1	\$ 1,080	\$ 1,080	3	\$ 371	\$ 371	NU
Procera Networks PL-1640 One Year Support	1	1	\$ 2,860	\$ 2,860	1	\$ 2,860	\$ 2,860	NU
Fortinet FG-800C Maintenance	4	1	\$ 2,700	\$ 10,800	1	\$ 10,800	\$ 10,800	NU
Fortinet FA-1000C Maintenance	1	1	\$ 2,000	\$ 2,000	1	\$ 2,000	\$ 2,000	NU
Juniper EX4550 Maintenance	2	1	\$ 1,034	\$ 2,069	1	\$ 2,069	\$ 2,069	NU
Subtotal							\$ 132,777	
Software								
SolarWinds (Year 3 of 5)	0.5	1	\$ 40,000	\$ 20,000	5	\$ 4,207	\$ 4,207	NU
Status page	1	1	\$ 1,200	\$ 1,200	1	\$ 1,200	\$ 1,200	NU
Automatic Notification System (One call now)	0.25	1	\$ 2,244	\$ 561	1	\$ 561	\$ 561	NU
Subtotal							\$ 5,968	
Software Maintenance:								
SolarWinds Maintenance	0.5	1	\$ 11,942	\$ 5,971	1	\$ 5,971	\$ 5,971	NU
Subtotal							\$ 5,971	
Staff Support -- University of Nebraska								
UNCSN Support Team							\$ 210,000	NU
Network Engineer/Team Lead								
Network Engineers (Est. FTE of 2.0)								
Network Operators (24/7)								
Administrative Assistant								
Accountant								
Training	1	1	\$ 1,875	\$ 1,875	1	\$ 1,875	\$ 1,875	NU
Travel FY2015-16	1	1	\$ 7,500	\$ 7,500	1	\$ 7,500	\$ 7,500	NU
Subtotal							\$ 219,375	
Staff Support -- Office of the CIO (Network Services)								
Network Services Team (including benefits)	0.05	12	\$ 6,230	\$ 3,738	1	\$ 3,738	\$ 3,738	OCIO
Travel/Videoconferencing	1	1	\$ 500	\$ 500	1	\$ 500	\$ 500	OCIO
Subtotal							\$ 4,238	
Staff Support -- Nebraska Dept of Ed (E-rate Services)								
State E-rate Coordinator	1	4	\$ 5,250	\$ 21,000	1	\$ 21,000	\$ 21,000	NDE
Travel	1	1	\$ 500	\$ 500	1	\$ 500	\$ 500	NDE
Subtotal							\$ 21,500	
Other:								
SEGP (Internet2 U.S. UCAN)	1	1	\$ 41,000	\$ 41,000	1	\$ 41,000	\$ 41,000	NU
SHLB Coalition	1	1	\$ 500	\$ 500	1	\$ 500	\$ 500	OCIO
SFP Modules 10Gbps SR's / LR's	1	1	\$ 5,000	\$ 5,000	1	\$ 5,000	\$ 5,000	NU
Patch Cables and Termination tools	1	1	\$ 1,000	\$ 1,000	1	\$ 1,000	\$ 1,000	NU
Traffic Testing Equipment for core aggregation points	5	1	\$ 2,000	\$ 10,000	1	\$ 10,000	\$ 10,000	NU
Network Nebraska Toll-Free Number	1	1	\$ 433	\$ 433	1	\$ 433	\$ 372	NU
Remote Router Terminal Server Cellular Data Service	1	12	\$ 20	\$ 240	1	\$ 240	\$ 240	
MCU -- Shared Service (6 ports @ \$372/year)	6	1	\$ 372	\$ 2,232	1	\$ 2,232		OCIO
Subtotal							\$ 58,112	
Total							\$ 677,104	
Indirect Cost Allocation (Interregional Transport Fee)	7%	1	\$ 187,515	\$ 13,126	1	\$ 13,126	\$ 13,126	
Indirect Cost Allocation (K-12 Internet Access)	7%	1	\$ 120,415	\$ 8,429	1	\$ 8,429	\$ 8,429	
Indirect Cost Allocation (H.E. Internet Access)	7%	1	\$ 177,695	\$ 12,439	1	\$ 12,439	\$ 12,439	
Indirect Cost Allocation (Participation Fee)	7%	1	\$ 677,104	\$ 47,397	1	\$ 47,397	\$ 47,397	
Subtotal							\$ 81,391	
Total							\$ 758,495	
Projected Units of Sale						\$ 291		
Annual Cost Per Unit						\$ 2,607		
Monthly Cost Per Unit	12	months				\$ 217,21		
Total Projected Revenue						\$ 758,495		

NOTE: Changes to 2017-18 amounts are denoted by red text.

	A	B	C	D	E	F	G	
1	Network Nebraska Interregional Transport Fee FY 2017-18				Cost Recovery Period			
2	Date of Last Revision: May 8, 2017				Cost	Life Cycle	Annualized Cost	
3		Units	# of Payments Per Year	Price				
4								
5								
6								
7	Backbone Transport Circuit Costs (See Footnote)							
8	Grand Island to Omaha, 10 Gbps (Windstream 76678 Line 6)	1	12	\$1,825.00	\$21,900.00	1	\$ 21,900.00	
9	Kearney UNK to Scottsbluff, 2 Gbps (NebraskaLink 76679 Line 3)	1	12	\$1,833.00	\$21,996.00	1	\$ 21,996.00	
10	Scottsbluff to Omaha, 2 Gbps (Allo 76677 Line 3)	1	12	\$1,173.24	\$14,078.88	1	\$ 14,078.88	
11	Lincoln to Omaha, 20Gbps UNCSN Dark Fiber	1	12	\$0.00	\$0.00	1	\$ -	
12	Lincoln to Grand Island, 20Gbps UNCSN Dark Fiber	1	12	\$0.00	\$0.00	1	\$ -	
13	Long-haul Subtotal				\$57,974.88			
14								
15	Routing & Aggregation Circuits (See Footnote)							
16	ESU 3, 8,000Mbps (Windstream 59556 Line 30)	1	12	\$3,187.00	\$38,244.00	1	\$ 38,244.00	
17	ESU 3, 2,000Mbps (Windstream 59556 Line 18)	1	12	\$313.00	\$3,756.00	1	\$ 3,756.00	
18	ESU 5, 2,000Mbps (Great Plains 59539 Line 5)	1	12	\$2,500.00	\$30,000.00	1	\$ 30,000.00	
19	ESU 6, 3,000Mbps (Windstream 59556 Line 37)	1	12	\$4,795.00	\$57,540.00	1	\$ 57,540.00	
20	Aggregation Subtotal				\$129,540.00			
21								
22	Total						\$ 187,514.88	
23								
24	Projected Units of Sale						291	
25								
26	Annual Cost Per Unit (Pre Erate)						\$644.38	
27	Monthly Cost Per Unit (Pre Erate)						\$ 53.70	
28	Net Monthly Cost Per K-12 Unit (Post Erate)						\$ 17.72	
29	Footnote							
30	Network Costs include 6.95% NUSF							
31								
32								
33	FY 2017 E-RATE CALCULATIONS				Total Units	K-12 Units	H.E. Units	
34					291	270	21	
35	Form 471 Certification Results			5/11/2017	Cost Recovery Formula	Annual	Monthly	Total
36	Total Funding Year pre-cost allocation amount	\$ 187,514.88	Higher Ed Contributions	\$ 644.38	\$ 53.70	\$ 13,532.00		
37	Total Annual Cost Allocation for Higher Education	\$ 13,532.00						
38	Total Funding Year pre-discount amount	\$173,982.88						
39	Total Funding Commitment Request (67%)	\$ 116,568.53	E-rate		\$ 35.98	\$ 116,568.53		
40			K-12 (post erate)		\$ 17.72	\$ 57,414.35		
41	Total Budgeted Amount allocated to resources not eligible for Erate	\$539,136.00	K-12 Contributions			\$ 173,982.88		
42	Total amount necessary for the applicant to pay the non-discount share	\$539,136.00	TOTAL			\$ 187,514.88		
43								
44	INTERREGIONAL TRANSPORT FEE, 2007-PRESENT							
45					Total			
46	Performance Year	K-12 Monthly	Higher Education Monthly	# entities	Comments			
47	2007-08	\$ -	\$ -	94	(No backbone in service)			
48	2008-09	\$ 34.21	\$ 93.35	182	(State RFP 1752)			
49	2009-10	\$ 34.48	\$ 92.72	232				
50	2010-11	\$ 36.45	\$ 115.78	226	(1 entity, 1 fee structure)			
51	2011-12	\$ 31.69	\$ 101.09	246				
52	2012-13	\$ 18.67	\$ 61.28	252	(State RFPs 3827, 3886)			
53	2013-14	\$ 17.38	\$ 53.80	261				
54	2014-15	\$ 18.30	\$ 57.79	274	(State RFP 4582)			
55	2015-16	\$ 22.12	\$ 70.39	285	(ESU 3, 5, 6 Aggregations)			
56	2016-17	\$ 21.49	\$ 67.16	291				
57	2017-18	\$ 17.72	\$ 53.70	291	(State RFP 5562)			

Higher Education Internet 2017-18

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	250	\$ 0.86	\$ 215.00	250	\$ 0.69	\$ 172.50	500	\$ 0.0405	\$ 20.25	\$ 407.75	\$ 4,893.00	Tom Peters	1/26/2017
2 Chadron State College	Y	750	\$ 0.86	\$ 645.00	750	\$ 0.69	\$ 517.50	1,500	\$ 0.0405	\$ 60.75	\$ 1,223.25	\$ 14,679.00	Ann Burk	1/6/2017
3 City of Lincoln	Y	500	\$ 0.86	\$ 430.00	500	\$ 0.69	\$ 345.00	1,000	\$ 0.0405	\$ 40.50	\$ 815.50	\$ 9,786.00	Craig Gifford	2/1/2017
4 Clarkson College	Y	150	\$ 0.86	\$ 129.00	150	\$ 0.69	\$ 103.50	300	\$ 0.0405	\$ 12.15	\$ 244.65	\$ 2,935.80	Ryan Schurman	1/20/2017
5 College of St. Mary	Y	85	\$ 0.86	\$ 73.10	85	\$ 0.69	\$ 58.65	170	\$ 0.0405	\$ 6.89	\$ 138.64	\$ 1,663.62	Vicki Hoskovec	2/1/2017
6 Creighton University	Y	1000	\$ 0.86	\$ 860.00	1000	\$ 0.69	\$ 690.00	2,000	\$ 0.0405	\$ 81.00	\$ 1,631.00	\$ 19,572.00	Chris Vaverek	2/1/2017
7 Doane University	Y	300	\$ 0.86	\$ 258.00	300	\$ 0.69	\$ 207.00	600	\$ 0.0405	\$ 24.30	\$ 489.30	\$ 5,871.60	Mike Carpenter	2/1/2017
8 Lincoln City Libraries	Y	250	\$ 0.86	\$ 215.00	250	\$ 0.69	\$ 172.50	500	\$ 0.0405	\$ 20.25	\$ 407.75	\$ 4,893.00	Rod Cummings	1/6/2017
9 Little Priest Tribal College-Winnebago	Cogent	0	\$ 0.86	\$ -	100	\$ 0.69	\$ 69.00	100	\$ 0.0405	\$ 4.05	\$ 73.05	\$ 876.60	Morri Conway	3/3/2017
10 Metro Community College	Y	1024	\$ 0.86	\$ 880.64	1024	\$ 0.69	\$ 706.56	2,048	\$ 0.0405	\$ 82.94	\$ 1,670.14	\$ 20,041.73	Chad Lynch	2/3/2017
11 Midland University	Y	300	\$ 0.86	\$ 258.00	300	\$ 0.69	\$ 207.00	600	\$ 0.0405	\$ 24.30	\$ 489.30	\$ 5,871.60	Shane Perrien	2/1/2017
12 Mid-Plains Community College	Y	300	\$ 0.86	\$ 258.00	300	\$ 0.69	\$ 207.00	600	\$ 0.0405	\$ 24.30	\$ 489.30	\$ 5,871.60	Tim Hall	1/24/2017
13 Nebraska Indian Community College-Macy	Y	50	\$ 0.86	\$ 43.00	50	\$ 0.69	\$ 34.50	100	\$ 0.0405	\$ 4.05	\$ 81.55	\$ 978.60	Justin Kocian	1/6/2017
14 Nebraska Wesleyan University	Y	375	\$ 0.86	\$ 322.50	375	\$ 0.69	\$ 258.75	750	\$ 0.0405	\$ 30.38	\$ 611.63	\$ 7,339.50	Steven Dow	2/1/2017
15 Northeast Community College	Y	100	\$ 0.86	\$ 86.00	100	\$ 0.69	\$ 69.00	200	\$ 0.0405	\$ 8.10	\$ 163.10	\$ 1,957.20	Bret Steinhauer	1/9/2017
16 Peru State College	Y	175	\$ 0.86	\$ 150.50	175	\$ 0.69	\$ 120.75	350	\$ 0.0405	\$ 14.18	\$ 285.43	\$ 3,425.10	Gene Beardslee	2/1/2017
17 Southeast Community College	Y	250	\$ 0.86	\$ 215.00	250	\$ 0.69	\$ 172.50	500	\$ 0.0405	\$ 20.25	\$ 407.75	\$ 4,893.00	Ed Koster	2/1/2017
18 Union College	Y	200	\$ 0.86	\$ 172.00	200	\$ 0.69	\$ 138.00	400	\$ 0.0405	\$ 16.20	\$ 326.20	\$ 3,914.40	Richard Henriques	1/8/2017
19 UNCA/UNCSN	Y	50	\$ 0.86	\$ 43.00	50	\$ 0.69	\$ 34.50	100	\$ 0.0405	\$ 4.05	\$ 81.55	\$ 978.60	Greg Gray	2/1/2017
20 UNK	Y	500	\$ 0.86	\$ 430.00	500	\$ 0.69	\$ 345.00	1,000	\$ 0.0405	\$ 40.50	\$ 815.50	\$ 9,786.00	Karen Berryman	1/17/2017
21 UNMC	Cogent	0	\$ 0.86	\$ -	2000	\$ 0.69	\$ 1,380.00	2,000	\$ 0.0405	\$ 81.00	\$ 1,461.00	\$ 17,532.00	Kim Strohbeh	3/17/2017
22 UNO	Windstream	2000	\$ 0.86	\$ 1,720.00	0	\$ 0.69	\$ -	2,000	\$ 0.0405	\$ 81.00	\$ 1,801.00	\$ 21,612.00	Sybil Sanders	2/1/2017
23 Wayne State College	Y	750	\$ 0.86	\$ 645.00	750	\$ 0.69	\$ 517.50	1,500	\$ 0.0405	\$ 60.75	\$ 1,223.25	\$ 14,679.00	John Dunning	3/8/2017
24 Western Nebraska Community College	Y	150	\$ 0.86	\$ 129.00	150	\$ 0.69	\$ 103.50	300	\$ 0.0405	\$ 12.15	\$ 244.65	\$ 2,935.80	William Knapper	2/1/2017
TOTALS		9,509		\$ 8,177.74	9,609		\$ 6,630.21	19,118		\$ 774.28	\$ 15,582.23	\$ 186,986.75		

K-12 (approximated)
Total K-12 & Higher Ed

18,850
28,359

18,850
28,459

37,700
56,818

