



July 27, 2018

Greetings from the State of Nebraska—Office of the Chief Information Officer (OCIO). My name is Ed Toner and I am just finishing my third year as State CIO. I help oversee Network Nebraska and other state networking staff and applications throughout the State of Nebraska.

Within this memo, the OCIO will announce the 2018-19 Network Nebraska fees and also update you on a number of exciting developments relative to this statewide education network. On July 1, we welcomed Omaha Public Library as our third public library connected to Network Nebraska and our only new member for 2018-19.

Zoom Pro videoconferencing has proven to be very popular with our education partners and cost recovery pricing will stay the same for 2018-19. I credit the co-chairs of the Network Nebraska Advisory Group (NNAG) with maintaining this as an outstanding service. Please contact Scott Jones, scott.jones@esusixteen.org, 308-546-7153 for more details.

We have several WAN circuit changes scheduled for implementation during summer 2018 as well as relocation of the Omaha backbone routing equipment. The University of Nebraska project team is working with providers and education staff to make sure the conversions go smoothly.

A couple of positive changes happened with statewide Internet access, effective 7/1/2018. CenturyLink replaced Cogent as the commodity Internet provider serving the Omaha egress location. The blended (averaged) unit rate for 2018-19 Internet will decrease by 10%, but will still enable Network Nebraska to purchase enough bandwidth to offset a catastrophic outage by any one provider. For the seventh 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 (\$.22/Mbps/month) after a 67% discount.

The State and the University implemented Distributed Denial of Service (DDoS) software in 2017-18, and we are happy to report that numerous DDoS attacks have been effectively thwarted and mitigated for our Network Nebraska participants.

The Network Nebraska leased backbone circuit capacity will continue to range from 2Gbps up to 10Gbps, and the Interregional Transport Fee will decrease in cost. Network Nebraska is exploring an extension of the statewide backbone to northeast Nebraska in 2019, and a positive variance is being generated to offset the projected cost of development. The Participation Fee budget and rates for 2018-19 stay virtually the same.

The Collaborative Aggregation Partnership (CAP), comprised of operational staff from the OCIO, University of Nebraska, NDE, and Public Service Commission, is researching additional network management and monitoring tools for possible purchase in 2019.

One major procedural change will begin to take place this fall as the OCIO will be asking school district and ESU administrators if they would like to “opt in” and reassign “ownership” and fiscal responsibility of their Wide Area Network (WAN) circuits that are currently being purchased from State contracts. The 2019-2020 E-rate filing this coming January would be the coordinated responsibility of the OCIO under Billed Entity Number 225870, and all provider invoicing would run through the OCIO starting in July 2019. If you have questions about this process, please contact Tom Rolfes at tom.rolfes@nebraska.gov or 402-471-7969.

The Network Nebraska Advisory Group (NNAG) is now in its ninth year of existence— comprised of eight representatives from K-12 and eight from higher education. These members usually meet every other month and indirectly represent the interests of all 293 entities presently on Network Nebraska. 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, dschroeder@nebraska.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,

A handwritten signature in black ink, appearing to read 'Ed Toner', with a long horizontal flourish extending to the right.

Ed Toner
Chief Information Officer
Attachments

Network Nebraska Cost Recovery Rates for 2018-19

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 2018-19 rates, which will take effect with the August 2018 billing:

REQUIRED

<u>Network Nebraska 1.0 Participation Fee</u>	<u>Number of Entities</u>
\$217.03/month/entity (≥ 41Mbps)	290 entities

<u>Network Nebraska .25 Participation Fee</u>	<u>Number of Entities</u>
\$54.26/month/entity (< 40Mbps)	5 entities

REQUIRED

<u>Network Nebraska 1.0 Interregional Transport Fee (>41Mbps)</u>	<u>Number of Entities</u>
\$12.46 /month/E-rate entity	269 entities
\$23.55/month/non E-rate entity	21 entities

<u>Network Nebraska .25 Interregional Transport Fee (<40Mbps)</u>	<u>Number of Entities</u>
\$ 3.12/month/E-rate entity	2 entities
\$ 5.89/month/non E-rate entity	3 entities

SUBSCRIPTION SERVICES

<u>Network Nebraska Internet Access Unit Charge</u>	<u>Number of Entities</u>
\$.2200/Mbps/month for blended Internet (E-rate entities)	18 entities
\$.7000/Mbps/month for CenturyLink/Windstream Internet (non E-rate entities)	23 entities
\$.0355/Mbps/month surcharge for all entities for Peering Services	40 entities

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

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

Network Nebraska Historic Rates for 2007-2019

<u>Performance Year</u>	<u>Network Nebraska Participation Fee</u>	<u>Number of Entities</u>
2018-19	\$217.03/month/entity	292 entities
2017-18	\$217.21/month/entity	291 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>
2018-19	\$12.46/month/E-rate entity (\$ 23.55/month/college)	292 entities
2017-18	\$17.72/month/E-rate entity (\$ 53.70/month/college)	291 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>
2018-19	\$.2200/Mbps/month for K-12 (\$.70/Mbps/month for colleges)	42 entities
2018-19	\$.0355/Mbps/month surcharge for K-12 and colleges for Peering Services	
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 (7/1/2018)

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
- 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 50Gbps 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 University of Nebraska 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 Arbor DDoS prevention
- 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
- Membership in the School, Health, Library Broadband (SHLB) Consortium
- NEW Associate membership in the nationwide Quilt Consortium of Statewide Networks
- 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 Participation Fee FY2018-19				Cost Recovery Period				
Date of Last Revision: July 1, 2018	Units	# of Payments Per Year	Price	Cost	Life Cycle	Annualized Cost	FY2018-19 Subtotals	
master lease interest rate						2.0%		
Equipment:								
Traffic Shaper Upgrade Year (3 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 3 of 4)	1	1	\$ 99,000	\$ 99,000	5	\$ 20,823	\$ 20,823 NU	
Arista Core 52port 10Gbps (2 of 5)	2	1	\$ 15,283	\$ 30,566	5	\$ 6,429	\$ 6,429 NU	
Arbor Networks DDoS (Year 2 of 5)	1	1	\$ 165,135	\$ 165,135	5	\$ 34,733	\$ 34,733 NU	
Procera Networks PL-1640 Statistics/Reporting/Storage (Year 3 of 3)	1	1	\$ 10,670	\$ 10,670	3	\$ 3,667	\$ 3,667 NU	
Router -- Grand Island (Year 2 of 5)	1	1	\$ 80,836	\$ 80,836	5	\$ 17,002	\$ 17,002 NU	
Router -- Lincoln (Year 2 of 5)	1	1	\$ 82,116	\$ 82,116	5	\$ 17,272	\$ 17,272 NU	
Router -- Omaha 1623 Farnam (Year 2 of 5)	1	1	\$ 80,836	\$ 80,836	5	\$ 17,002	\$ 17,002 NU	
Router -- ScottsBluff (Year 2 of 5)	1	1	\$ 80,836	\$ 80,836	5	\$ 17,002	\$ 17,002 NU	
Procera Traffic Shaper - LNK (Year 6 of 5)	1	1	\$ -	\$ -	5	\$ -	\$ - NU	
SOLIDserver 500 hardware appliance IPAM-DNS-DHCP-NTP-TFTP (Year 3 of 3)	1	1	\$ 4,997	\$ 4,997	3	\$ 1,718	\$ 1,718 NU	
SOLIDserver 250 hardware appliance IPAM-DNS-DHCP-NTP-TFTP (Year 3 of 3)	1	1	\$ 3,437	\$ 3,437	3	\$ 1,181	\$ 1,181 NU	
Fortinet FG-800C (Year 5 of 5)	4	1	\$ 8,700	\$ 34,800	5	\$ 7,320	\$ 7,320 NU	
Fortinet FA-1000C (Year 5 of 5)	1	1	\$ 6,900	\$ 6,900	5	\$ 1,451	\$ 1,451 NU	
Network Time Server (Year 3 of 5)	1	1	\$ 2,500	\$ 2,500	5	\$ 526	\$ 526 NU	
Arista Core 10Gbps Aggregation Switch (Year 5 of 5)	3	1	\$ 11,914	\$ 35,742	5	\$ 7,518	\$ 7,518 NU	
Arista Core 10Gbps Aggregation Switch (Year 4 of 5)	3	1	\$ 8,340	\$ 25,020	5	\$ 5,263	\$ 5,263 NU	
Northeast Nebraska Backbone Project-Hardware	1	1	\$ 10,000	\$ 10,000	1	\$ 10,000	\$ 10,000 NU	
Subtotal							\$ 203,087	
Equipment Maintenance:								
Router Maintenance -- Grand Island	1	1	\$ 6,947	\$ 6,947	1	\$ 6,947	\$ 6,947 NU	
Router Maintenance -- Lincoln	1	1	\$ 12,710	\$ 12,710	1	\$ 12,710	\$ 12,710 NU	
Router Maintenance -- Omaha UNMC	1	1	\$ 4,712	\$ 4,712	1	\$ 4,712	\$ 4,712 NU	
Router Maintenance -- Omaha 1623 Farnam	1	1	\$ 9,625	\$ 9,625	1	\$ 9,625	\$ 9,625 NU	
Router Maintenance -- Omaha UNO/PKI	1	1	\$ 6,504	\$ 6,504	1	\$ 6,504	\$ 6,504 NU	
Router Maintenance -- Scottsbluff	1	1	\$ 6,503	\$ 6,503	1	\$ 6,503	\$ 6,503 NU	
Router Maintenance -- Kearney	1	1	\$ 8,562	\$ 8,562	1	\$ 8,562	\$ 8,562 NU	
Arbor Maintenance	1	1	\$ 40,614	\$ 40,614	1	\$ 40,614	\$ 40,614 NU	
Arista 7150-52 10Gbps Maintenance	2	1	\$ 2,218	\$ 4,435	1	\$ 4,435	\$ 4,435 NU	
Arista 7150-24 10Gbps Maintenance	7	1	\$ 1,352	\$ 9,462	1	\$ 9,462	\$ 9,462 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	
Fortinet FG-800C Maintenance	4	1	\$ 2,853	\$ 11,411	1	\$ 11,411	\$ 11,411 NU	
Juniper EX4550 Maintenance	2	1	\$ 1,035	\$ 2,070	1	\$ 2,070	\$ 2,070 NU	
Juniper EX2200	2	1	\$ 64	\$ 128	1	\$ 128	\$ 128 NU	
Subtotal							\$ 124,655	
Software								
SolarWinds (Year 4 of 5)	0.5	1	\$ 40,000	\$ 20,000	5	\$ 4,207	\$ 4,207 NU	
Automatic Notification System (One Call Now)	0.25	1	\$ 2,244	\$ 561	1	\$ 561	\$ 561 NU	
Noction Software (Year 2 of 5)	0.5	1	\$ 58,248	\$ 29,124	5	\$ 6,126	\$ 6,126 NU	
Subtotal							\$ 10,893	
Software Maintenance:								
SolarWinds Maintenance	0.5	1	\$ 12,861	\$ 6,431	1	\$ 6,431	\$ 6,431 NU	
Noction Maintenance (50%)	1	1	\$ 11,130	\$ 11,130	1	\$ 11,130	\$ 11,130 NU	
Subtotal							\$ 17,560	
Staff Support -- University of Nebraska								
U of N Support Team						\$ 210,000	\$ 210,000 NU	
Training	1	1	\$ 1,875	\$ 1,875	1	\$ 1,875	\$ 1,875 NU	
Travel	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:								
ARIN Registry Services	1	1	\$ 2,125	\$ 2,125	1	\$ 2,125	\$ 2,125 NU	
NDC Rack Hosting (2017-18)	0.65	12	\$ 1,375	\$ 894	1	\$ 10,725	\$ 10,725 NU	
NDC Rack Hosting (2018-19)	0.65	12	\$ 1,200	\$ 780	1	\$ 9,360	\$ 9,360 NU	
SEGP (Internet2 Community Anchor Network)	1	1	\$ 41,000	\$ 41,000	1	\$ 41,000	\$ 41,000 NU	
SHLB Coalition Membership	1	1	\$ 2,500	\$ 2,500	1	\$ 2,500	\$ 2,500 OCIO	
NNAG Outreach	1	1	\$ 2,500	\$ 2,500	1	\$ 2,500	\$ 2,500 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	\$ 433 NU	
Remote Router Terminal Server Cellular Data Service	1	12	\$ 20	\$ 240	1	\$ 240	\$ 240 NU	
Subtotal							\$ 84,822	
Total							\$ 686,130	
Indirect Cost Allocation (Interregional Transport Fee)	7%	1	\$ 57,975	\$ 4,058	1	\$ 4,058	\$ 4,058	
Indirect Cost Allocation (K-12 & H.E. Internet Access)	7%	1	\$ 318,000	\$ 22,260	1	\$ 22,260	\$ 22,260	
Indirect Cost Allocation (Participation Fee)	7%	1	\$ 686,130	\$ 48,029	1	\$ 48,029	\$ 48,029	
Subtotal							\$ 74,347	
Total							\$ 760,478	
Projected Units of Sale						\$ 292		
Annual Cost Per Unit						\$ 2,604		
Monthly Cost Per Unit	12 months					\$ 217.03		
Total Projected Revenue						\$ 760,478		

	A	B	C	D	E	F	G
1	Network Nebraska Interregional Transport Fee FY 2018-19				Cost Recovery Period		
2							
3	Date of Last Revision: July 1, 2018	Units	# of Payments Per Year	Price	Cost	Life Cycle	Annualized Cost
4							
5							
6							
7	Backbone Transport Circuit Costs						
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						
16	Aggregation Subtotal				\$0.00		
17							
18	Dark Fiber Equipment Refresh	1	12	\$ -	\$0.00	1	\$ -
19							
20	Total						\$ 57,974.88
21							
22	Projected Units of Sale						292
23							
24	Annual Cost Per Unit (Pre Erate)						\$198.54
25	Monthly Cost Per Unit (Pre Erate)						\$ 16.55
26	Net Monthly Cost Per K-12 Unit (Post Erate)						\$ 5.46
27	Footnote						
28	Network Costs include 6.95% NUSF						
29							
30							
31	FY 2017 E-RATE CALCULATIONS				Total Units	K-12 Units	H.E. Units
32					292	271	21
33	Form 471 Certification Results	5/11/2017	Cost Recovery Formula	Annual	Monthly	Total	
34	Total Funding Year pre-cost allocation amount	\$ 57,974.88	Higher Ed Contributions	\$ 198.54	\$ 16.55	\$ 4,169.43	
35	Total Annual Cost Allocation for Higher Education	\$ 4,169.43					
36	Total Funding Year pre-discount amount	\$ 53,805.45					
37	Total Funding Commitment Request (67%)	\$ 36,049.65	E-rate		\$ 11.09	\$ 36,049.65	
38			K-12 (post erate)		\$ 5.46	\$ 17,755.80	
39	Total Budgeted Amount allocated to resources not eligible for Erate	\$ 539,136.00	K-12 Contributions			\$ 53,805.45	
40	Total amount necessary for the applicant to pay the non-discount share	\$ 539,136.00	TOTAL			\$ 57,974.88	
41							
42	INTERREGIONAL TRANSPORT FEE, 2007-PRESENT						
43					Total		
44	Performance Year	K-12 Monthly	Higher Education Monthly		# entities	Comments	
45	2007-08	\$ -	\$ -		94	(No backbone in service)	
46	2008-09	\$ 34.21	\$ 93.35		182	(State RFP 1752)	
47	2009-10	\$ 34.48	\$ 92.72		232		
48	2010-11	\$ 36.45	\$ 115.78		226	(1 entity, 1 fee structure)	
49	2011-12	\$ 31.69	\$ 101.09		246		
50	2012-13	\$ 18.67	\$ 61.28		252	(State RFPs 3827, 3886)	
51	2013-14	\$ 17.38	\$ 53.80		261		
52	2014-15	\$ 18.30	\$ 57.79		274	(State RFP 4582)	
53	2015-16	\$ 22.12	\$ 70.39		285	(ESU 3, 5, 6 Aggregations)	
54	2016-17	\$ 21.49	\$ 67.16		291		
55	2017-18	\$ 17.72	\$ 53.70		291	(State RFP 5562)	
56	2018-19	\$ 12.46	\$ 23.55		292	(Backbone Project +\$7/month)	

Higher Education Internet 2018-19

Higher Education Entity		Load Balanced?	Windstream +			CPS			Combined Monthly Total	Total Annual Invoice Cost
			CenturyLink (Mbps)	Blended Unit Cost	Internet Monthly Total	Quantity (Mbps)	CPS Unit Cost	CPS Monthly Total		
1	Central Community College	Y	700	\$ 0.7000	\$ 490.00	700	\$ 0.0355	\$ 24.85	\$ 514.85	\$ 6,178.20
2	Chadron State College	Y	1,500	\$ 0.7000	\$ 1,050.00	1,500	\$ 0.0355	\$ 53.25	\$ 1,103.25	\$ 13,239.00
3	City of Lincoln	Y	1,000	\$ 0.7000	\$ 700.00	1,000	\$ 0.0355	\$ 35.50	\$ 735.50	\$ 8,826.00
4	Clarkson College	Y	300	\$ 0.7000	\$ 210.00	300	\$ 0.0355	\$ 10.65	\$ 220.65	\$ 2,647.80
5	College of St. Mary	Y	170	\$ 0.7000	\$ 119.00	170	\$ 0.0355	\$ 6.04	\$ 125.04	\$ 1,500.42
6	Creighton University	Y	2,000	\$ 0.7000	\$ 1,400.00	2,000	\$ 0.0355	\$ 71.00	\$ 1,471.00	\$ 17,652.00
7	Doane University	Y	1,000	\$ 0.7000	\$ 700.00	1,000	\$ 0.0355	\$ 35.50	\$ 735.50	\$ 8,826.00
8	Lincoln City Libraries	Y	500	\$ 0.7000	\$ 350.00	500	\$ 0.0355	\$ 17.75	\$ 367.75	\$ 4,413.00
9	Little Priest Tribal College-Winnebago	Y	200	\$ 0.7000	\$ 140.00	200	\$ 0.0355	\$ 7.10	\$ 147.10	\$ 1,765.20
10	Metro Community College	Y	2,048	\$ 0.7000	\$ 1,433.60	2,048	\$ 0.0355	\$ 72.70	\$ 1,506.30	\$ 18,075.65
11	Midland University	Y	600	\$ 0.7000	\$ 420.00	600	\$ 0.0355	\$ 21.30	\$ 441.30	\$ 5,295.60
12	Mid-Plains Community College	Y	600	\$ 0.7000	\$ 420.00	600	\$ 0.0355	\$ 21.30	\$ 441.30	\$ 5,295.60
13	Nebraska Indian Community College-Macy	Y	100	\$ 0.7000	\$ 70.00	100	\$ 0.0355	\$ 3.55	\$ 73.55	\$ 882.60
14	Nebraska Wesleyan University	Y	850	\$ 0.7000	\$ 595.00	850	\$ 0.0355	\$ 30.18	\$ 625.18	\$ 7,502.10
15	Northeast Community College	Y	200	\$ 0.7000	\$ 140.00	200	\$ 0.0355	\$ 7.10	\$ 147.10	\$ 1,765.20
16	Peru State College	Y	400	\$ 0.7000	\$ 280.00	400	\$ 0.0355	\$ 14.20	\$ 294.20	\$ 3,530.40
17	Southeast Community College	Y	600	\$ 0.7000	\$ 420.00	600	\$ 0.0355	\$ 21.30	\$ 441.30	\$ 5,295.60
18	Union College	Y	400	\$ 0.7000	\$ 280.00	400	\$ 0.0355	\$ 14.20	\$ 294.20	\$ 3,530.40
19	University of Nebraska	Y	1,200	\$ 0.7000	\$ 840.00		\$ 0.0355	\$ -	\$ 840.00	\$ 10,080.00
20	UNMC	Y	2,000	\$ 0.7000	\$ 1,400.00		\$ 0.0355	\$ -	\$ 1,400.00	\$ 16,800.00
21	Wayne State College	Y	1,500	\$ 0.7000	\$ 1,050.00	1,500	\$ 0.0355	\$ 53.25	\$ 1,103.25	\$ 13,239.00
22	Western Nebraska Community College	Y	300	\$ 0.7000	\$ 210.00	300	\$ 0.0355	\$ 10.65	\$ 220.65	\$ 2,647.80
TOTALS			18,168		\$ 12,717.60	14,968		\$ 531.36	\$ 13,248.96	\$ 158,987.57

\$152,611.20

\$6,376.37 \$158,987.57

2018-19 Statewide Internet Contract Purchases, NU Contracts c2163-13-8116 & c2626-18-8116														
	Education Entity	Date Received by OCIO	Billed Entry Number	Premise Address	City	NN Aggregation Point	2018-19 Quantity (Mbps)	2018-19 Unit Cost POST-ERATE (\$/Mbps/month)	2018-19 Internet Monthly Total	2018-19 CPS Quantity (Mbps)	2018-19 CPS Unit Cost	2018-19 CPS Monthly Total	Combined Monthly Total	Total Annual Invoice Cost
1	Brownell-Talbot School	2/13/2018	17000601	400 N. Happy Hollow	Omaha	Omaha	600	\$ 0.2200	\$ 132.00	600	\$ 0.0355	\$ 21.30	\$ 153.30	\$ 1,839.60
2	Creighton Prep High School	2/14/2018	78431	7400 Western Avenue	Omaha	Omaha								
3	DHHS-Nebraska		17000614	P.O. Box 95026	Lincoln	Lincoln	150	\$ 0.2200	\$ 33.00	150	\$ 0.0355	\$ 5.33	\$ 38.33	\$ 459.90
4	Educational Service Units 1,2,7,8,17 (NNNC)	2/14/2018	138244	2320 N. Colorado	Fremont	Omaha	5,250	\$ 0.2200	\$ 1,155.00	5,250	\$ 0.0355	\$ 186.38	\$ 1,341.38	\$ 16,096.50
5	Educational Service Unit 03	2/14/2018	138317	6949 S. 110th Street	Omaha	Omaha	9,000	\$ 0.2200	\$ 1,980.00	9,000	\$ 0.0355	\$ 319.50	\$ 2,299.50	\$ 27,594.00
6	Educational Service Unit 05 (SNDLC)	2/19/2018	138331	900 W. Court Street	Beatrice	Lincoln	2,500	\$ 0.2200	\$ 550.00	2,500	\$ 0.0355	\$ 88.75	\$ 638.75	\$ 7,665.00
7	Educational Service Units 04-06 (DVLG)	2/13/2018	138326	210 5th Street	Milford	Lincoln	2,500	\$ 0.2200	\$ 550.00	2,500	\$ 0.0355	\$ 88.75	\$ 638.75	\$ 7,665.00
8	Educational Service Unit 09 (CNDLC)	2/1/2018	138852	1117 E. South Street	Hastings	G.I.	2,500	\$ 0.2200	\$ 550.00	2,500	\$ 0.0355	\$ 88.75	\$ 638.75	\$ 7,665.00
9	Educational Service Unit 10	2/14/2018	138783	76 Plaza Boulevard	Kearney	G.I.	3,000	\$ 0.2200	\$ 660.00	3,000	\$ 0.0355	\$ 106.50	\$ 766.50	\$ 9,198.00
10	Educational Service Unit 11	2/1/2018	138890	412 W. 14th Street	Holdrege	G.I.	600	\$ 0.2200	\$ 132.00	600	\$ 0.0355	\$ 21.30	\$ 153.30	\$ 1,839.60
11	Educational Service Unit 13	2/15/2018	139041	4215 Avenue I	Scottsbluff	G.I.	1,000	\$ 0.2200	\$ 220.00	1,000	\$ 0.0355	\$ 35.50	\$ 255.50	\$ 3,066.00
12	Educational Service Unit 15	2/13/2018	146589	344 Main Street	Trenton	G.I.	650	\$ 0.2200	\$ 143.00	650	\$ 0.0355	\$ 23.08	\$ 166.08	\$ 1,992.90
13	Educational Service Unit 16	2/13/2018	139028	314 W. First Street	Ogallala	G.I.	800	\$ 0.2200	\$ 176.00	800	\$ 0.0355	\$ 28.40	\$ 204.40	\$ 2,452.80
14	Grand Island Public Library	2/1/2018	138719	211 N. Washington Street	Grand Island	G.I.	200	\$ 0.2200	\$ 44.00	200	\$ 0.0355	\$ 7.10	\$ 51.10	\$ 613.20
	Grand Island Public Schools	x	138718	123 S. Webb Road	Grand Island	G.I.								
	Kearney Public Schools	x	138779	310 W. 24th Street	Kearney	G.I.								
15	Lexington Public Schools	2/8/2018	138789	300 S. Washington	Lexington	G.I.	1,000	\$ 0.2200	\$ 220.00	1,000	\$ 0.0355	\$ 35.50	\$ 255.50	\$ 3,066.00
16	Lincoln Catholic Diocese School System	2/12/2018	138460	120 W. Harvest Drive	Lincoln	Lincoln	500	\$ 0.2200	\$ 110.00	500	\$ 0.0355	\$ 17.75	\$ 127.75	\$ 1,533.00
17	Lincoln Public Schools (ESU 18)	2/14/2018	138458	5905 O Street	Lincoln	Lincoln	7,000	\$ 0.2200	\$ 1,540.00	7,000	\$ 0.0355	\$ 248.50	\$ 1,788.50	\$ 21,462.00
	McCook Public Schools	x	138925	700 W. 7th Street	McCook	G.I.								
	North Platte Public Schools	x	138971	301 W. F Street	North Platte	G.I.								
18	Omaha Public Library	2/12/2018	138311	215 S. 15th Street	Omaha	Omaha	1,000	\$ 0.2200	\$ 220.00	1,000	\$ 0.0355	\$ 35.50	\$ 255.50	\$ 3,066.00
19	Omaha Public Schools (ESU 19)	2/9/2018	138320	3215 Cuming Street	Omaha	Omaha	6,000	\$ 0.2200	\$ 1,320.00	6,000	\$ 0.0355	\$ 213.00	\$ 1,533.00	\$ 18,396.00
						TOTAL	44,250		\$ 9,735.00	44,250		\$ 1,570.88	\$ 11,305.88	\$ 135,670.50
						Aggregation-			\$ 116,820.00			\$ 18,850.50	\$ 135,670.50	
						Aggregation-	Omaha	21,850						
						Aggregation-	Lincoln	12,650						
						Aggregation-	Grand Island	9,750						
						TOTAL	44,250							