July 8, 2022

Greetings from the State of Nebraska—Office of the Chief Information Officer (OCIO). For those of you who are new to Network Nebraska, my name is Ed Toner and I am the State CIO. In addition to my technology leadership role for State agencies, I also assist in the management of Network Nebraska.

Within this memo, I will announce the 2022-23 Network Nebraska fees and update you on several developments relative to this statewide education network. Several documents follow this cover letter which provide detailed information and budget documents related to Network Nebraska.

The Interregional Transport Fee will stay the same for 2022-23. With Governor Ricketts's approval of significant investments from his GEER I Funds, the Network Nebraska Participation Fee will experience a decrease from \$247/month to \$225/month. The GEER I Funds offset (1) Network Nebraska backbone costs and (2) increased DDoS protection to 40Gbps in 2023. The first 2022-23 monthly invoice will arrive the first week of August and reflect these changes. Please alert your accounting staff.

Statewide Zoom videoconferencing helped us tremendously with at-home teaching, learning, and tele-working. Zoom license rates will have a small increase for 2022-23. I credit the Network Nebraska Advisory Group (NNAG) with maintaining this as an outstanding service. Please contact Zoom administrator, Scott Jones (scott.jones@esusixteen.org), for more details about Zoom licensing and ancillary services. Zoom cost recovery and billing will be assumed by ESU 16 in Ogallala, effective with the 2022-23 year.

The unit rates for internet will stay the same for the 43 entities that purchase internet on behalf of all the schools, colleges, libraries, and municipalities in the state. For the eleventh year in a row, the Office of the CIO has performed 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 unit cost after a 68% E-rate discount.

We are just beginning the fourth year of E-rate filing for 136 school district fiber circuits and working with providers to pay bills under the OCIO's ownership. The OCIO announces that Christina Struebing was hired at NDE in late March to help with E-rate support and Becca Kingery will soon be finishing her first year at the OCIO in support of Network Nebraska. Long-time NITC administrative manager Tom Rolfes will be retiring from the State on July 15 to join the NTIA as the Broadband Program Specialist to assist with Nebraska broadband grants over the next four years.

Office of the Chief Information Officer
501 S. 14th Street, P.O. Box 95045
Lincoln, Nebraska 68509

cio.nebraska.gov

Ed Toner, Chief Information Officer
OFFICE 402-471-3560 FAX 402-471-4864
SERVICE DESK 800-982-2468

The OCIO and the University of Nebraska contribute many telecommunications support services to Network Nebraska that involve no charge-back. Those line items and their estimated value have been added to the Participation Fee Budget and Interregional Fee Budget (see pp 6-7 of this memo) for the first time.

Nebraska's K-12 pilot implementation of "eduroam" is mid-way through its second year and membership has grown steadily. Eduroam is a secure federated Wi-Fi authentication system that is being implemented across school districts, nonpublic schools, and higher education campuses. I invite you to visit www.connectEDnebraska.com for more details and to submit your application if you are new to eduroam.

The Network Nebraska Advisory Group (NNAG) is now in its 13th year of existence. It is 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 role 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 Ron Cone, rcone@esu10.org, or Tom Peters, tpeters@cccneb.edu.

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

If you have questions or comments about the contents of this memorandum or attachments, please contact me at ed.toner@nebraska.gov or you can reach me at 402-471-3717. You may also contact becca.kingery@nebraska.gov, 402-471-0267, or visit the Network Nebraska website and submit your comments: www.networknebraska.net.

For technical assistance, we encourage you to contact the University of Nebraska 24/7 Operations Center, noc@nebraska.edu, or 1-888-NET-NEBR (638-6327).

Sincerely,

Ed Toner
Chief Information Officer

Attachments

Network Nebraska Cost Recovery Rates for 2022-23

The NNAG, OCIO, NU-ITS and the Collaborative Aggregation Partnership (CAP) have reviewed the projected network revenue and expenses for the coming year and are prepared to announce the 2022-23 rates, which will take effect with the August 2022 billing:

REQUIRED

Network Nebraska **1.0 Participation Fee**	Number of Entities
$225.50/month/entity (> 100Mbps)	289 entities
Network Nebraska **.25 Participation Fee**	Number of Entities
$56.38/month/entity (< 99Mbps)	4 entities

REQUIRED

Network Nebraska **1.0 Interregional Transport Fee**	Number of Entities
$12.63/month/E-rate entity (>100Mbps)	268 entities
$23.93/month/non-E-rate entity (>100Mbps)	21 entities
Network Nebraska **.25 Interregional Transport Fee**	Number of Entities
$ 3.16/month/E-rate entity (<99Mbps)	2 entities
$ 5.98/month/non E-rate entity (<99Mbps)	2 entities

SUBSCRIPTION SERVICES

Network Nebraska **Internet Access Unit Charge**	Number of Entities
$.0800/Mbps/month for blended Internet (E-rate entities)	18 entities
$.2400/Mbps/month for blended Internet (non-E-rate entities)	23 entities
$.0300/Mbps/month surcharge for all entities for Peering Services	40 entities

Zoom Videoconferencing Statewide Contract	Number of Entities
$ 6.00/user/year	TBD
$499.00/Zoom CRC Port/year	TBD
$499.00/Zoom Room/year	TBD

*Contact Scott Jones, scott.jones@esusixteen.org, 308-546-7153 about other ancillary services.

NU Nebraska Hall 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

*Contact Greg Gray, ggray@nebraska.edu, 402-472-7605

Network Nebraska Historic Rates for 2007-2023

Performance Year Network Nebraska **Participation Fee**		Number of Entities
2022-23	$225.50/month/entity	293 entities
2021-22	$247.00/month/entity	293 entities
2020-21	$220.00/month/entity	293 entities
2019-20	$217.03/month/entity	292 entities
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

Performance Year Network Nebraska **Interregional Transport Fee**		Number of Entities
2022-23	$12.63/month/E-rate entity ($23.93/month/college)	293 entities
2021-22	$12.49/month/E-rate entity ($24.15/month/college)	293 entities
2020-21	$12.49/month/E-rate entity ($24.15/month/college)	293 entities
2019-20	$12.29/month/E-rate entity ($23.55/month/college)	292 entities
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

Performance Year Network Nebraska **Internet Access Unit Charge**		Number of Entities
2020-23*	$.0800/Mbps/month for K-12 ($ .24/Mbps/month for colleges) $.0300/Mbps/month surcharge for K-12 and colleges for Peering Services	42 entities
2019-20	$.1140/Mbps/month for K-12 ($ .38/Mbps/month for colleges) $.0355/Mbps/month surcharge for K-12 and colleges for Peering Services	42 entities
2018-19	$.2200/Mbps/month for K-12 ($ .70/Mbps/month for colleges) $.0355/Mbps/month surcharge for K-12 and colleges for Peering Services	42 entities
2017-18	$.2662/Mbps/month for K-12 ($ .80/Mbps/month for colleges) $.0405/Mbps/month surcharge for K-12 and colleges for Peering Services	41 entities
2016-17	$.2459/Mbps/month for K-12 ($ .79/Mbps/month for colleges) $.0349/Mbps/month surcharge for K-12 and colleges for Peering Services	41 entities
2015-16	$.3024/Mbps/month for K-12 ($ .945/Mbps/month for colleges) $.0231/Mbps/month surcharge for K-12 and colleges for 3Gbps CPS	34 entities
2014-15	$.3982/Mbps/month for K-12 ($1.28/Mbps/month for colleges) $.047/Mbps/month surcharge for K-12 and colleges for 3Gbps CPS	32 entities
2013-14	$.7750/Mbps/month for K-12 ($2.50/Mbps/month for colleges) $.070/Mbps/month surcharge for K-12 and colleges for 3Gbps CPS	15 entities

* = unchanged for 2020-23

Comprehensive Listing of Network Nebraska Services and Benefits (7/1/2022)

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 peering 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 and ancillary services

Connectivity/Transport
- Intranet Ethernet connectivity to all 293 Network Nebraska participants
- Interregional (high bandwidth backbone) Transport between Grand Island, Lincoln, Omaha, and Scottsbluff
- Access to 85Gbps of commodity Internet service with one of the lowest unit rates in the U.S.
- 10Gbps Internet2 Commercial Peering Service and prioritized routing to over 60,000 companies
- 20Gbps InterExchange Peering 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
- Backbone transport provided by the University of Nebraska dark fiber circuits
- Dynamic provisioning of statewide Internet access

Network Management/Monitoring
- 24/7 network monitoring and operations center, 1-888-NET-NEBR (638-6327), noc@nebraska.edu
- Incident Tracking and Automated Notification System services
- Network abuse and nefarious activity monitoring, including Arbor DDoS prevention
- Route optimization and intelligent routing using Noction software
- Perfsonar distributed speed testing and network performance measurement
- IPv4/IPv6 Address management and allocation to members
- Network time server that transmits precise time information to network clients
- Level 1 network troubleshooting and support on Network Nebraska backbone, core network devices and University of Nebraska contracts for Internet access
- Level 2 network troubleshooting and support on Ethernet circuits and other participant routing and DNS
- Onsite and/or remote technician assistance, upon request

Administrative/E-rate
- RFP services and State Master Contract negotiations
- E-rate filing on the eligible portion of the Interregional Transport and statewide Internet
- Consolidated invoicing and E-rate filing on state-contracted fiber Ethernet circuits
- Membership in the Internet2 Community Anchor Program (CAP)
- Membership in the School, Health, Library Broadband (SHLB) Consortium
- Associate membership in the nationwide Quilt Consortium of Statewide Networks
- Management of the statewide purchase contracts for Ethernet transport services, Internet access, and select network equipment vendors
- 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, and Ethernet
- Statewide partnership in eduroam implementation and cybersecurity training and awareness resources
- Network Nebraska website (www.networknebraska.net) development and support

Network Nebraska Participation Fee FY2022-23

Date of Last Revision: June 15, 2022

Cost Recovery Period

	Units	# of Payments Per Year	Price	Cost	Life Cycle	Annualized Cost	FY2022-23 Subtotals	Org.	Notes
Master Lease Interest Rate						2.0%			
Equipment:									
Arbor DDoS 10 Gig to 20 Gig upgrade for OMA and LNK TMS (Year 2 of 5)	1	1	$ 191,004	$ 191,004	5	$ 40,174		NU	GEER I Funding/ESUCC
Arbor DDoS Equipment Refresh and 40 Gig Capacity for OMA and LNK TMS	1	1	$ 1,701,315	$1,701,315	1	$ 1,701,315		NU	GEER I Funding/ESUCC
Juniper 10x10 Gig line cards (3) for MX (Year 3 of 5)	3	1	$ 44,520	$ 133,560	5	$ 28,092	$ 28,092	NU	
Juniper QFX5120-48Y-AFO2 (Year 1 of 5)	4	1	$ 17,500	$ 70,000	5	$ 14,723	$ 14,723	NU	2x Farnam 2x Lincoln
Kearney Router Replacement (Year 1 of 5)	1	1	$ 43,000	$ 43,000	5	$ 9,044	$ 9,044	NU	
Network Nebraska Backbone Upgrade	1	1	$ 699,642	$ 699,642	1	$ 699,642		NU	GEER I Funding/ESUCC
Opengear ACM7008-2-LMP	4	1	$ 1,165	$ 4,660	1	$ 4,660	$ 4,660	NU	
TV White Space Wireless Internet Project	1	1	$ 50,000	$ 50,000	1	$ 50,000		OCIO	GEER I Funding/ESUCC
Equipment Subtotal							$ 56,520		
Equipment Maintenance:									
Arbor Maintenance (Year 2 of 3)	1	1	$ 107,086	$ 107,086	3	$ 36,807		NU	GEER I Funding/ESUCC
Arbor Maintenance on Additional 10 Gig Licenses	1	1	$ 22,044	$ 22,044	1	$ 22,044	$ 22,044	NU	Keep in budget until delivery/install of GEER I Funded equipment is known.
Arista 7150-52 10Gbps Maintenance	2	1	$ 2,268	$ 4,536	1	$ 4,536	$ 4,536	NU	
Arista 7150-24 10Gbps Maintenance	4	1	$ 1,383	$ 5,532	1	$ 5,532	$ 5,532	NU	
Efficient IP M1G-SDS-260-DDI-SA	1	1	$ 2,251	$ 2,251	1	$ 2,251	$ 2,251	NU	3% increase reflected
Efficient IP M1G-SDS-550-DDI-SA	1	1	$ 5,720	$ 5,720	1	$ 5,720	$ 5,720	NU	3% increase reflected
Ekinops DWDM Maintenance	1	1	$ 54,723	$ 54,723	1	$ 54,723	$ -	NU	Cost incurred by U of N at no cost to Network Nebraska
Generator Repairs/Service - College Park	0.5	1	$ 4,000	$ 2,000	1	$ 2,000	$ 2,000	NU	Cost split 50/50 with the University of Nebraska System.
Juniper Router/Switch Maintenance -- All Combined (Year 2 of 5)	1	1	$ 281,870	$ 281,870	5	$ 59,287	$ 59,287	NU	Includes: SB, KRN, GICP, LNK, 1623 Farnam, and PKI
Juniper Router/Switch Maintenance -- MX Cards (3)	1	1	$ 28,042	$ 28,042	1	$ 28,042	$ 28,042	NU	
Juniper Router/Switch Maintenance -- Norfolk	1	1	$ -	$ -	1	$ -	$ -	NU	TBD based on delivery date of equipment and included first year of maintenance -- may not be expended until FY24.
Equipment Maintenance Subtotal							$ 129,412		
Software:									
Broadband Automated Speed Test Software Development	1	1	$ 250,000	$ 250,000	1	$ 250,000		OCIO	GEER I Funding/ESUCC
Noction: Increase Inbound License from 25G to 50G	1	1	$ 18,000	$ 18,000	1	$ 18,000	$ 18,000	NU	
Software Subtotal							$ 18,000		
Software Maintenance:									
AlertSense	0.25	1	$ 2,244	$ 561	1	$ 561	$ 561	NU	
Atlassian StatusPage.io	1	1	$ 4,789	$ 4,789	1	$ 4,789	$ 4,789	NU	
Noction Maintenance	1	1	$ 23,875	$ 23,875	1	$ 23,875	$ 23,875	NU	
RADb	1	1	$ 425	$ 425	1	$ 425	$ 425	NU	
SolarWinds Maintenance	0.5	1	$ 14,147	$ 7,074	1	$ 7,074	$ 7,074	NU	
Software Maintenance Subtotal							$ 36,724		
Subscriptions:									
1623 Farnam Colocation Services	1	12	$1,436	$ 17,232	1	$ 17,232	$ 17,232	NU	1 x 42U-Rack
1623 Farnam Cross-Connects and Tie-Cables	1	12	$840	$ 10,080	1	$ 10,080	$ 10,080	NU	8 x Cross-Connects, 24 x Tie-Cables.
ARIN Registry Services	1	1	$ 2,225	$ 2,225	1	$ 2,225	$ 2,225	NU	
Domain Registrations	1	1	$ 369	$ 369	1	$ 369	$ 369	NU	networknebraska.org, networknebraska.net, networknebraska.com
Internet2 Community Anchor Program (CAP)	1	1	$ 41,000	$ 41,000	1	$ 41,000	$ 41,000	NU	Prerequisite to enable Internet2 peering and eduroam pilot participation
Internet2 eduroam Support Organization Program	1	1	$ 66,000	$ 66,000	1	$ 66,000		NU	Moved to Internet Cost Center.
Internet2 eduroam for Higher Education Members (that aren't subscribed directly)	1	1	$ 7,365	$ 7,365	1	$ 7,365	$ -	NU	Moved to Internet Cost Center.
Network Nebraska Toll-Free Number	1	1	$ 433	$ 433	1	$ 433	$ 433	NU	
Remote Router Terminal Server Cellular Data Service	7	12	$ 20	$ 1,680	1	$ 1,680	$ 240	NU	SB, KRN, GICP, LNK, 1623 Farnam, Norfolk, and PKI
SHLB Coalition Membership	1	1	$ 2,500	$ 2,500	1	$ 2,500	$ 2,500	NU	
Internet2 R&E Network Member Fee	1	1	$ 14,603	$ 14,603	1	$ 14,603	$ -	NU	Cost incurred by U of N at no cost to Network Nebraska
The Quilt Affiliate Membership	1	1	$ 2,900	$ 2,900	1	$ 2,900	$ -	NU	Cost incurred by U of N at no cost to Network Nebraska
Great Plains Network (GPN) Membership & Network Program Fee	1	1	$ 161,768	$ 161,768	1	$ 161,768	$ -	NU	Cost incurred by U of N at no cost to Network Nebraska
Subscriptions Subtotal							$ 74,079		
Staff Support -- University of Nebraska System									
Network Engineering Services	1	1	$ 240,000	$ 240,000	1	$ 240,000	$ 240,000	NU	Estimate from FY22 invoices of $20k/mo average.
Accounting Services	1	1	$ 1,440	$ 1,440	1	$ 1,440	$ 1,440	NU	Estimate from FY22 invoices of $120/mo average.
Network Operations Center (NOC) Services	1	1	$ 1,500	$ 1,500	1	$ 1,500	$ 1,500	NU	Estimate from FY21/FY22 invoices of $125/mo average.
Administration & Management	1	1	$ -	$ -	1	$ -	$ -	NU	Cost incurred by U of N at no cost to Network Nebraska
Cyber Security Engineering Services	0	0	$ -	$ -	1	$ -	$ -	NU	Cost incurred by U of N at no cost to Network Nebraska
eduroam Support Services	1	1	$ -	$ -	1	$ -	$ -	NU	Cost incurred by U of N at no cost to Network Nebraska
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	
Staff Support - UNS Subtotal							$ 252,315		
Staff Support -- Office of the CIO									
Network Services Team (including benefits)	0.05	12	$ 6,230	$ 3,738	1	$ 3,738	$ 3,738	OCIO	
Admin Assistant	1	12	$ 1,966	$ 23,592	1	$ 23,592	$ 23,592	OCIO	
Travel/Videoconferencing	1	1	$ 500	$ 500	1	$ 500	$ 500	OCIO	
NNAG Outreach	1	1	$ 2,500	$ 2,500	1	$ 2,500	$ 2,500	OCIO	
OCIO Project Management--Backbone and NUSF-117 RFP	1	1	$ 5,000	$ 5,000	1	$ 5,000	$ 5,000	OCIO	
Staff Support - OCIO Subtotal							$ 35,330		
Staff Support -- Nebraska Dept of Ed									
eduroam Reimbursement for RADIUS configuration and technical services	1	1	$ 1,520,000	$1,520,000	1	$ 1,520,000		NDE	GEER I Funding/ESUCC
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	
Staff Support - NDE Subtotal							$ 21,500		
Other:									
Operating Expenses: SFP Modules, Patch Cables, Termination Tools	1	1	$ 7,500	$ 7,500	1	$ 7,500	$ 7,500	NU	
Traffic Testing Equipment for Core Aggregation Points	5	1	$ 2,000	$ 10,000	1	$ 10,000	$ 10,000	NU	
Other Subtotal							$ 17,500		
Total							$ 641,379		
Indirect Cost Allocation:									
Indirect Cost Allocation (Interregional Transport Fee)	7%	1	$ 83,006	$ 5,810	1	$ 5,810	$ 5,810	OCIO	
Indirect Cost Allocation (K-12 & H.E. Internet Access)	7%	1	$ 179,280	$ 12,550	1	$ 12,550	$ 12,550	OCIO	
Indirect Cost Allocation (Participation Fee)	7%	1	$ 641,379	$ 44,897	1	$ 44,897	$ 44,897	OCIO	
Indirect Cost Allocation Subtotal							$ 63,257		
Planned Positive Variance							$ 85,500	OCIO	
Total							$ 790,135		
Projected Units of Sale						292			
Annual Cost Per Unit						$ 2,706			
Monthly Cost Per Unit	12 months					$ 225.50			
Total Projected Revenue						$ 790,135			

Higher Education Internet 2022-23

	Higher Education Entity	Confirmation Date	2022-23 Quantity (Mbps)	2022-23 Unit Cost (projected)	2022-23 Internet Monthly Total	2022-23 Peering Quantity (Mbps)	2022-23 CPS Unit Cost	2022-23 CPS Monthly Total	Combined Monthly Total	Total Annual Invoice Cost	FY22-23 Validation/ Comments
1	Central Community College	2/4/2022	900	$ 0.24	$ 216.00	900	$ 0.0300	$ 27.00	$ 243.00	$ 2,916.00	Tom Peters
2	Chadron State College	2/18/2022	2,000	$ 0.24	$ 480.00	2,000	$ 0.0300	$ 60.00	$ 540.00	$ 6,480.00	Ann Burk
3	City of Lincoln	2/3/2022	3,000	$ 0.24	$ 720.00	3,000	$ 0.0300	$ 90.00	$ 810.00	$ 9,720.00	Craig Gifford
4	Clarkson College	2/3/2022	800	$ 0.24	$ 192.00	800	$ 0.0300	$ 24.00	$ 216.00	$ 2,592.00	Ryan Schurman
5	College of St. Mary	2/18/2022	1,000	$ 0.24	$ 240.00	1,000	$ 0.0300	$ 30.00	$ 270.00	$ 3,240.00	Kevin Sholl
6	Creighton University	2/24/2022	3,000	$ 0.24	$ 720.00	3,000	$ 0.0300	$ 90.00	$ 810.00	$ 9,720.00	Chris Vaverek
7	Doane University	2/10/2022	1,500	$ 0.24	$ 360.00	1,500	$ 0.0300	$ 45.00	$ 405.00	$ 4,860.00	Ryan Dorshorst
8	Lincoln City Libraries	2/3/2022	500	$ 0.24	$ 120.00	500	$ 0.0300	$ 15.00	$ 135.00	$ 1,620.00	Rod Cummings
9	Little Priest Tribal College	2/2/2022	200	$ 0.24	$ 48.00	200	$ 0.0300	$ 6.00	$ 54.00	$ 648.00	Morri Conway
10	Metro Community College	2/10/2022	2,048	$ 0.24	$ 491.52	2,048	$ 0.0300	$ 61.44	$ 552.96	$ 6,635.52	Seth Curtis
11	Midland University	2/8/2022	1,000	$ 0.24	$ 240.00	1,000	$ 0.0300	$ 30.00	$ 270.00	$ 3,240.00	Shane Perrien
12	Mid-Plains Community College	2/7/2022	900	$ 0.24	$ 216.00	900	$ 0.0300	$ 27.00	$ 243.00	$ 2,916.00	Trent Wiese
13	Nebraska Indian Community College	2/2/2022	200	$ 0.24	$ 48.00	200	$ 0.0300	$ 6.00	$ 54.00	$ 648.00	Justin Kocian
14	Nebraska Game and Parks Commission	2/23/2022	100	$ 0.24	$ 24.00	100	$ 0.0300	$ 3.00	$ 27.00	$ 324.00	Troy Kroeger
15	Nebraska Wesleyan University	2/9/2022	1,750	$ 0.24	$ 420.00	1,750	$ 0.0300	$ 52.50	$ 472.50	$ 5,670.00	Steve Dow
16	Northeast Community College	2/18/2022	300	$ 0.24	$ 72.00	300	$ 0.0300	$ 9.00	$ 81.00	$ 972.00	Field May
17	Peru State College	2/18/2022	750	$ 0.24	$ 180.00	750	$ 0.0300	$ 22.50	$ 202.50	$ 2,430.00	Gene Beardslee
18	Southeast Community College	2/7/2022	2,000	$ 0.24	$ 480.00	2,000	$ 0.0300	$ 60.00	$ 540.00	$ 6,480.00	Edward Koster
19	Union College	2/3/2022	800	$ 0.24	$ 192.00	800	$ 0.0300	$ 24.00	$ 216.00	$ 2,592.00	Richard Henriques
20	University of Nebraska	2/18/2022	200	$ 0.24	$ 48.00		$ 0.0300	$ -	$ 48.00	$ 576.00	Greg Gray
21	UNMC/Nebraska Medicine	2/22/2022	5,000	$ 0.24	$ 1,200.00		$ 0.0300	$ -	$ 1,200.00	$ 14,400.00	Steve Busby
22	Wayne State College	2,18/2922	2,500	$ 0.24	$ 600.00	2,500	$ 0.0300	$ 75.00	$ 675.00	$ 8,100.00	John Dunning
23	Western Nebraska Community College	2/18/2022	1,000	$ 0.24	$ 240.00	1,000	$ 0.0300	$ 30.00	$ 270.00	$ 3,240.00	Loren Moench
	TOTALS	2022-23	31,448		$ 7,547.52	26,248		$ 787.44	$ 8,334.96	$ 100,019.52	
					$90,570.24			$9,449.28	$100,019.52		
		2021-22	29,348		$84,522.24						
		% change	7.2%		7.2%						

	A	B	C	D	E	F	G
1	**Network Nebraska Interregional Transport Fee FY 2022-23**				**Cost Recovery Period**		
2							
3	Date of Last Revision: June 7, 2022	**Units**	**# of Payments Per Year**	**Price**	**Cost**	**Life Cycle**	**Annualized Cost**
4							
5							
6							
7	**Backbone Transport Leased Lit Circuit Costs**						
8	Grand Island to Omaha, 10 Gbps (Great Plains, 89974, Line 174)	1	12	$ 1,911.00	$22,932.00	1	$22,932.00
9	Kearney UNK to Scottsbluff, 6 Gbps (NebraskaLink 89977, Lines 230-231)	1	12	$ 1,711.20	$20,534.40	1	$20,534.40
10	Scottsbluff to Omaha, 6 Gbps (Allo 89978, Lines 20-21)	1	12	$ 1,385.00	$16,620.00	1	$16,620.00
11	Norfolk to Grand Island, 2Gbps (Great Plains, 89971, Line 177)	1	12	$ 1,910.00	$22,920.00	1	$22,920.00
12							
13	Leased Lit Fiber Subtotal				$83,006.40		**$83,006.40**
14							
15	Admin Prog Officer II Costs (OCIO)	1	12	$ 1,353.33	$16,240.00	1	$16,240.00
16							
17	Cost Center Total						**$99,246.40**
18							
19	**Projected Units of Sale**						289
20							
21	**Dark Fiber Transport IRU Circuit Costs--incurred by NU at no cost to NN**						
22	Dark Fiber IRU: Lumen/Lincoln - Kansas City	1	1	$ 99,494	$ 99,494	1	$ 99,494
23	Dark Fiber IRU: OPTK/Lincoln - Grand Island - Kearney	1	1	$ 37,000	$ 37,000	1	$ 37,000
24	Dark Fiber IRU: Unite Private Networks (UPN)/Lincoln - Omaha	1	1	$ 97,800	$ 97,800	1	$ 97,800
25	**Annual Dark Fiber IRU Subtotal**						$ 234,294
26							
27							
28	**FY 2020-21 E-RATE CALCULATIONS**				Total Units	K-12 Units	H.E. Units
29					289	266.5	22.5
30	**Form 471 Certification Results**		3/22/2022	**Cost Recovery Formula**	Annual	**Monthly**	**Total**
31	**Total Funding Year pre-cost allocation amount**		$ 83,006.40	Higher Ed Contributions	$ 287.22	$ 23.93	$ 6,462.44
32	Total Annual Cost Allocation for Higher Education		$ 5,958.00				
33	Total Funding Year pre-discount amount		$ 77,048.40				
34	Total Funding Commitment Request (68%)		**$ 52,392.91**	E-rate		$ 16.38	**$52,392.91**
35				K-12 (post erate)		$ 7.55	**$24,151.05**
36	Total Budgeted Amount allocated to resources not eligible for Erate		$ 539,136.00	K-12 Contributions			**$76,543.96**
37	Total amount necessary for the applicant to pay the non-discount share		$ 539,136.00	**TOTAL**			**$83,006.40**
38							
39	**INTERREGIONAL TRANSPORT FEE, 2007-PRESENT**						
40					**Total**		
41	Performance Year		**K-12 Monthly**	**Higher Ed Monthly**	**# entities**	**Comments**	
42	2007-08		$ -	$ -	94	(No backbone in service)	
43	2008-09		$ 34.21	$ 93.35	182	(State RFP 1752)	
44	2009-10		$ 34.48	$ 92.72	232		
45	2010-11		$ 36.45	$ 115.78	226	(1 entity, 1 fee structure)	
46	2011-12		$ 31.69	$ 101.09	246		
47	2012-13		$ 18.67	$ 61.28	252	(State RFPs 3827, 3886)	
48	2013-14		$ 17.38	$ 53.80	261		
49	2014-15		$ 18.30	$ 57.79	274	(State RFP 4582)	
50	2015-16		$ 22.12	$ 70.39	285	(ESU 3, 5, 6 Aggregations)	
51	2016-17		$ 21.49	$ 67.16	291		
52	2017-18		$ 17.72	$ 53.70	291	(State RFP 5562)	
53	2018-19		$ 12.46	$ 30.93	292	(including surcharge for Admin)	
54	2019-20		$ 12.29	$ 23.55	292	(including surcharge for Admin)	
55	2020-21		$ 12.49	$ 24.15	292	(including surcharge for Admin)	
56	2021-22		$ 12.49	$ 24.15	292	(including surcharge for Admin)	
57	2022-23		$ 12.63	$ 23.93	289	(including surcharge for Admin)	

	Education Entity	Date Received by OCIO	NN Aggregation Point	2022-23 Quantity (Mbps)	2022-23 Unit Cost POST-ERATE ($/Mbps/month) PROJECTED COST	2022-23 Internet Monthly Total	2022-23 CPS Quantity (Mbps)	2022-23 CPS Unit Cost	2022-23 CPS Monthly Total	Combined Monthly Total	Total Annual Invoice Cost	Respondent
	2022-23 Statewide E-rate Internet											
1	Brownell-Talbot School	3/8/2022	Omaha	800	$ 0.0800	$ 64.00	800	$ 0.0300	$ 24.00	$ 88.00	$ 1,056.00	Ed Krueger
2	DHHS-Nebraska	2/24/2022	Lincoln	200	$ 0.0800	$ 16.00	200	$ 0.0300	$ 6.00	$ 22.00	$ 264.00	Mark Nelson
3	Educational Service Units 1,2,7,8,17 (NNNC)	2/21/2022	Omaha	8,000	$ 0.0800	$ 640.00	8,000	$ 0.0300	$ 240.00	$ 880.00	$ 10,560.00	Andy Boell
4	Educational Service Unit 03	2/9/2022	Omaha	15,000	$ 0.0800	$ 1,200.00	15,000	$ 0.0300	$ 450.00	$ 1,650.00	$ 19,800.00	Bill Pulte
5	Educational Service Unit 05 (SNDLC)	2/18/2022	Lincoln	2,500	$ 0.0800	$ 200.00	2,500	$ 0.0300	$ 75.00	$ 275.00	$ 3,300.00	Ryan McDowell
6	Educational Service Units 04-06 (DVLG)	2/3/2022	Lincoln	4,500	$ 0.0800	$ 360.00	4,500	$ 0.0300	$ 135.00	$ 495.00	$ 5,940.00	Jamen Hall
7	Educational Service Unit 09	2/18/2022	G.I.	2,500	$ 0.0800	$ 200.00	2,500	$ 0.0300	$ 75.00	$ 275.00	$ 3,300.00	Gary Needham
8	Educational Service Unit 10	2/23/2022	G.I.	5,000	$ 0.0800	$ 400.00	5,000	$ 0.0300	$ 150.00	$ 550.00	$ 6,600.00	Ron Cone
9	Educational Service Unit 11	2/3/2022	G.I.	1,250	$ 0.0800	$ 100.00	1,250	$ 0.0300	$ 37.50	$ 137.50	$ 1,650.00	Wade Gibson
10	Educational Service Unit 13	2/28/2022	Omaha	2,500	$ 0.0800	$ 200.00	2,500	$ 0.0300	$ 75.00	$ 275.00	$ 3,300.00	B.J. Peters
11	Educational Service Unit 15	2/25/2022	G.I.	950	$ 0.0800	$ 76.00	950	$ 0.0300	$ 28.50	$ 104.50	$ 1,254.00	Scott Jones
12	Educational Service Unit 16	2/25/2022	G.I.	1,250	$ 0.0800	$ 100.00	1,250	$ 0.0300	$ 37.50	$ 137.50	$ 1,650.00	Scott Jones
13	Grand Island Public Library	2/24/2022	G.I.	300	$ 0.0800	$ 24.00	300	$ 0.0300	$ 9.00	$ 33.00	$ 396.00	Celine Swan
14	Columbus Public Schools	2/25/2022	Lincoln	3,000	$ 0.0800	$ 240.00	3,000	$ 0.0300	$ 90.00	$ 330.00	$ 3,960.00	Leonard Kwapnioski
15	Lexington Public Schools	2/15/2022	G.I.	3,000	$ 0.0800	$ 240.00	3,000	$ 0.0300	$ 90.00	$ 330.00	$ 3,960.00	Kristi Jergensen
16	Lincoln Catholic Diocese School System	2/7/2022	Lincoln	750	$ 0.0800	$ 60.00	750	$ 0.0300	$ 22.50	$ 82.50	$ 990.00	Chris Hobbs
17	Lincoln Public Schools (ESU 18)	2/20/2022	Lincoln	12,000	$ 0.0800	$ 960.00	12,000	$ 0.0300	$ 360.00	$ 1,320.00	$ 15,840.00	Tim Klein
18	Omaha Public Library	2/18/2022	Omaha	2,000	$ 0.0800	$ 160.00	2,000	$ 0.0300	$ 60.00	$ 220.00	$ 2,640.00	Jason Goossen
19	Omaha Public Schools (ESU 19)	2/8/2022	Omaha	15,000	$ 0.0800	$ 1,200.00	15,000	$ 0.0300	$ 450.00	$ 1,650.00	$ 19,800.00	Bobbi Gatrost
			TOTAL	80,500		$ 6,440.00	80,500		$ 2,415.00	$ 8,855.00	$ 106,260.00	
			Omaha	40,800		$ 77,280.00			$ 28,980.00	$ 106,260.00		
			Lincoln	19,950								
			Grand Island	16,750								
			2022-23	80,500		$ 77,280.00						
			2021-22	70,750		$ 67,920.00						
			% change	13.8%		13.8%						