

## MEMORANDUM

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**TO:** NWABSD Board of Education  
Members

**DATE:** April 29, 2024

**NUMBER:** Worksession Item #I. e.

**FR:** Office of the Superintendent

**SUBJECT:** a.) Technology  
Report

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Amy Eakin, Director of Technology, reports on the following:

### **Track 1: Operational Improvements**

#### ***Initiative: Optimize Business Practices***

1. Agenda Item: Memorandum of Agreement; E-Rate Central Consulting Services
  - a. E-Rate Central has provided services to the NWABSD for many years and is a valued partner for our E-Rate filings, audits, and RFPs.
2. NWABSD Website & Social Media (Facebook via Hootsuite)
  - a. Website
  - b. Communicate for broadcasting announcements and emergencies:
    - i. Text Opt-in for Broadcasts
      1. 547 opted in (502 in January)
      2. 1747 pending opt-in (1801 in January)
      3. 9 opted out (7 in January)
      4. Continue advertising for manually opt-in by texting "Y" to 67587
3. Universal Service Administrative Company (USAC) Audit Update
  - a. The NWABSD was audited for the E-Rate funding year 2020-2021
  - b. The final audit report was received by the District on January 5, 2024 showing no areas of non-compliance
  - c. The final audit report is attached: SL2022LR029 Northwest Arctic Borough School District Final Audit Report
4. Sale of Obsolete Products
  - a. \$48,403.30 was received in revenue from selling obsolete Apple products to PowerOn.
  - b. These funds are deposited into a general revenue fund by the Administrative Services Department
5. FY25 Technology Budget Cuts – the following reductions have been made:
  - a. Technology Coordinator position
  - b. Gaggle services
  - c. Social Media Specialists Extra Duty Contracts
  - d. ASTE (Alaska Society for Technology in Education) Conference Participation
  - e. Reduction in Travel budget
6. Internet and Funding
  - a. Legislators increased legislation to support schools up to 100 Mbps per the state Broadband Assistance Grant (BAG); however, funding has not been appropriated.
  - b. The District has applied for Federal E-Rate funding and has a draft application for the state BAG funding.
  - c. No funding has been officially granted to the District.
    - i. E-Rate typically sends funding commitments in mid-April

- ii. BAG sends funding commitments in mid-September, typically, and is subject to proration.
- d. The following table is an estimate only.
  - i. Until funding is committed and the bottom-line allocations fit within the NWABSD budget, broadband will not be increased

Location	2014-15	2015-16	2016-17	2017-18 <sup>a</sup>	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	DIFFERENCE FROM FY2410 FY25
Ambler	7/3 → 10/4	15/5	15/5	15/4	15/4	15/4	25/4	25/4	25/4	25/10	50/10	Increase Download Speed
Buckland	7/3 → 10/4	15/5	15/5	20	20	20	25	25	25	25	100	Increase Download/Upload Speed
Deering	7/3 → 10/4	15/5	15/5	15/4	10/4	10/4	25/4	25/4	25/4	25/10	50/10	Increase Quality of Service and Download/Upload Speed
Kiana	7/3 → 10/4	15/5	15/5	15	15	15	25	25	25	25	100	Increase Download/Upload Speed
Kivalina	7/3 → 10/4	15/5	15/5	15/4	15/4	15/4	25/4	25/4	25/4	25/10	100	Increase Quality of Service and Download/Upload Speed
Kobuk	7/3 → 10/4	15/5	15/5	15/4	10/4	10/4	25/4	25/4	25/4	25/10	50/10	Increase Download/Upload Speed
Noatak	7/3 → 10/4	15/5	15/5	20	20	20	25	25	25	25	100	Increase Download/Upload Speed
Noorvik	7/3 → 10/4	15/5	15/5	20	20	20	25	25	25	25	100	Increase Download/Upload Speed
Selawik	7/3 → 10/4	15/5	15/5	25	25	25	25	25	25	25	100	Increase Download/Upload Speed
Shungnak	7/3 → 10/4	15/5	15/5	15/4	15/4	15/4	25/4	25/4	25/4	25/10	50/10	Increase Download/Upload Speed
District Office	5	15/5	15/5	20	60	60	60	100	100	100	100	No Changes
KMHS	5 → 10	15/5	15/5	10	10	10	25	25	25	25	100	Increase Download/Upload Speed
JNES	NA	NA	NA	10	10	10	25	25	25	25	100	Increase Download/Upload Speed
ATC	3	15/5	15/5	5	10	10	10	10	25	25	50	Increase Download/Upload Speed
STAR Dorm	NA	NA	NA	NA	5	5	5	5	5	5	5	No Changes
Total Cost	\$5,099,210.05	\$5,166,180.00	\$5,163,480.00	\$6,303,870.00	\$5,990,532.00	\$5,990,532.00	\$7,623,192.00	\$8,104,272.00	\$8,285,448.00	\$8,005,800.00	\$ 21,711,785.00	\$13,705,985.00
Total E-Rate Eligible Cost	\$5,099,210.05	\$5,166,180.00	\$5,163,480.00	\$6,303,870.00	\$5,990,532.00	\$5,990,532.00	\$7,623,192.00	\$8,104,272.00	\$8,285,448.00	\$8,005,800.00	\$21,692,260.00	\$13,676,460.00
E-Rate Revenue	\$4,034,271.80	\$4,649,562.00	\$4,647,132.00	\$5,673,482.82	\$5,337,478.80	\$5,337,478.80	\$6,860,872.80	\$7,293,844.80	\$7,456,903.20	\$7,205,220.00	\$19,514,034.00	\$12,308,814.00
BAG Revenue	\$408,014.89	\$56,846.00	\$58,130.00	\$44,024.00	NA	NA	\$169,266.80	\$169,266.00	\$187,384.00	\$266,285.33	\$1,724,288.40	\$1,458,003.07
District General Funds Cost	\$656,923.56	\$459,772.00	\$458,218.00	\$586,363.18	\$593,053.20	\$593,053.20	\$593,052.40	\$641,161.20	\$641,160.80	\$534,294.67	\$ 473,462.60	(\$60,832.07)

	Jan-Jul 2022	Aug-Dec 2022	Jan-Jul 2023	Aug-Dec 2023	Jan-Jul 2024	Aug-Dec 2024
High School Laptops	Refresh 2020					Refresh Fleet 2025
5-8 School Laptops	Refresh Fleet S2018 Purchase Cases		Refresh Fleet 2023			
SMARTBoards	Purchased 2014/2015; Warranty expired 6/30/20	10 Annually		10 Annually		10 Annually
Secretary, Principal, DO iMacs	Principals – purchased 8/2017; Secretary and DO iMac Refresh		Principal iMac Refresh	Complete DO iMac Refresh		
K-4 iPads (PK-4)	Refresh Fleet 2021; Refresh Apps				Refresh Apps 2024	Refresh Fleet 2026
Staff iPads	Fleet Purchased 8/2020					Refresh Fleet 2025
Staff Laptops	Refresh Fleet 2021					Refresh Fleet 2026
Computer Labs	ATC – partial update (5yr.)		ATC – partial update (5yr.)		ATC – partial update (5yr.)	
Network Infrastructure (Switches, Wireless)			402 Rack Replacement	Split OTZ Circuits Switches	C2 Install Wifi-6 APs in schools WLK, IAN, ORV	C2 Install Wifi-6 APs in schools BKC, DRG, OTZ
Meraki Refresh		License Renewal				License Renewal
Mitel Phone System		Partial Phone Refresh				
VTC	RUS Award 2020; Complete install of RUS awarded Infrastructure			RUS; Refresh Polycom 2023		
Servers	Refresh ABL/WTK/ORV	Refresh SHG	Refresh WLK			DO Server refresh 2027
Windows Infrastructure			Windows 2019 Server Upgrade			

**Additional work completed:  
January 10, 2024 – April 2, 2024**

- Facilitated districtwide staff changes by creating accounts for new hires and transfers, including setting up Active Directory (AD), email, Microsoft licensing, and Teams policies. Additionally, prepared technology assets for the staff members for the new school year. Including a large influx of 20 teachers during December and early January.

- Facilitated districtwide student changes by creating accounts for new students, transfers, including setting up Active Directory (AD), email, Microsoft licensing, and Teams student policies. Additionally, prepared technology assets for the student.
- Successfully deployed and configured NWEA AK State Solutions Assessment clients to all staff and student computers.
- Successfully deployed and configured NWEA MAPS Assessment clients to all staff and student computers.
- Provide support to NANA Annual meeting on March 22<sup>nd</sup> 23<sup>rd</sup>. This includes running wire, setting-up WiFi and prioritizing network traffic for the streaming event.
- Updated JAMF server to latest version to ensure deployment of software to clients continues to run smoothly.
- Completed refresh of principal's technology assets at Kiana, June Nelson Elementary, Kotzebue Middle High School, Noorvik, Selawik, Shungnak and Kobuk.

