



#22013P

Wired & Wireless
Network Infrastructure
Addendum #1

Friday January 21, 2022

Please note: All revisions and clarifications to the proposal document are indicated in red.

Questions and Responses:

1. What Ethernet does the district have run today? **Cat 5E**. If cat5e what lengths are they today? **Cat 5e cable runs will be up to 328 ft**. Will any cable testing be needed to ensure 2.5g throughput be needed? **No**

2. After hours works

How full are existing racking? **This varies depending on site, but there is additional space in each rack for all switches required**. Will there be room to install new switches in-conjunction with old switches or will it be a complete rip out and replace methodology? **This will be a complete rip out and replace methodology**.

Can any of this work be done in a coordinated effort during day time hours but when school is not in session? **All work will be completed after School hours**

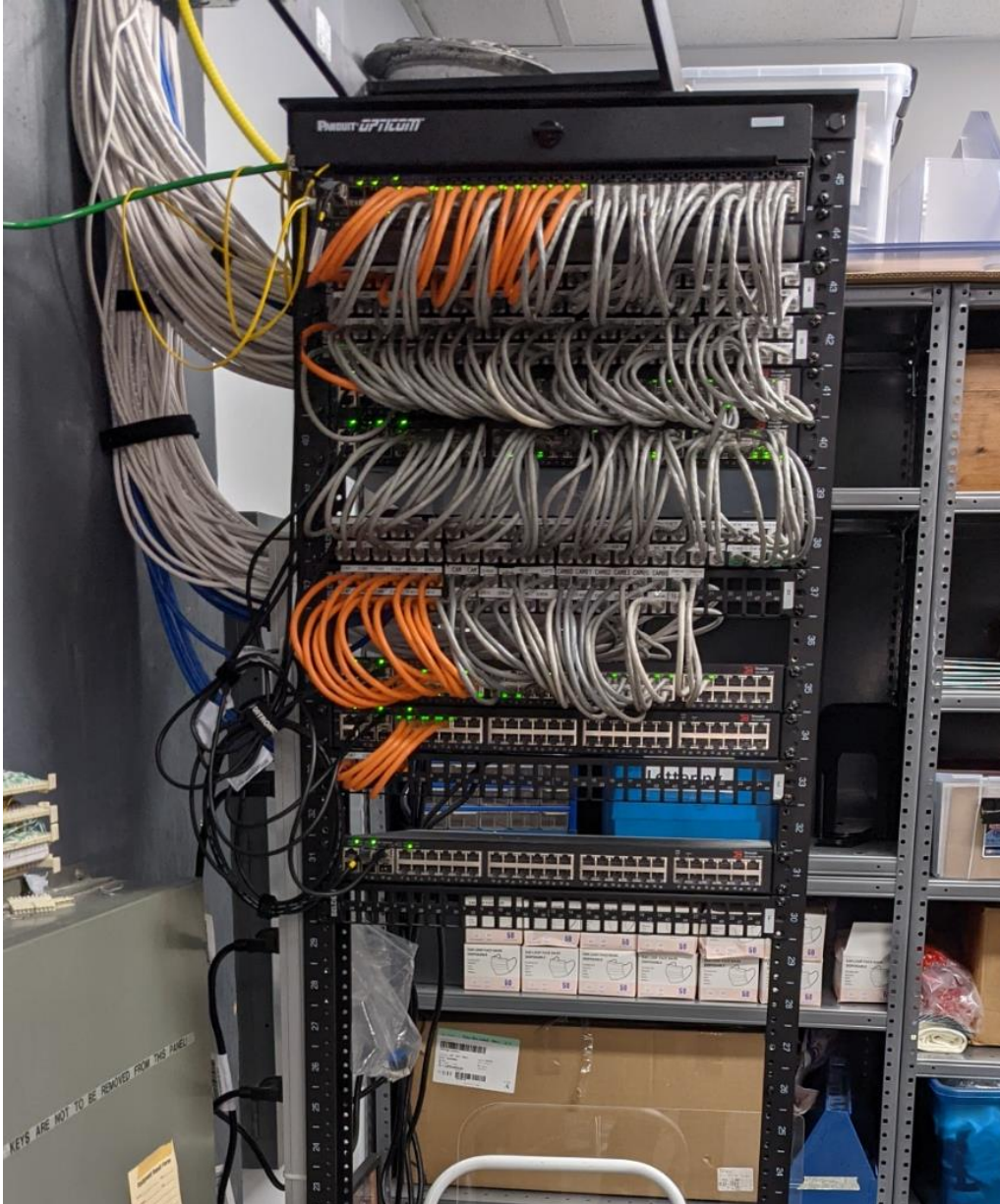
3. Wired option A vs option B Option B is replacing all access layer switches with all mGig capable ports? **Yes**. Where as option A is just making enough mGig ports available for the AP's? **Option A requires one 48 port switch supporting mGig on all ports**.
4. The high school core switches are a pair of 10Gig SFP+ switches, stacked for redundancy, each switch has a run to the ESC? **Each High School aggregation switch has 2 fiber runs to ESC**. Then only single connections from the High school to the ES or MS locations? **Yes**. Currently no redundant fiber from HS to ES/MS? **Correct**

For example appendix B says at Anoka High School has the Aggregation layer switches, and has 3 WAN connections to remote sites and 2 WAN connections to remote sites Assuming the 3 connections there are one connection each to Crooked Lake ES, Wilson ES and Andover DTC? There isn't redundant connections from Anoka to each remote school/building today? **That is correct**

In total an Aggregation switches for Anoka could have a minimum of 4 QSFP ports and 12 SFP+ ports to meet the connection requirements? **High School Aggregation switches should have a minimum of 48 SFP+ ports. See Table 1 Part # or equivalent**.

5. Switch FAN direction: Front to back airflow, assuming then the port side of the switch is the front side which is the cold side of the racking? **Yes**
6. 802.1x Authentication needs: Is the district using a security tool like Clearpass to manage authentications and segmentation today? **No, please propose the tool(s) your solution needs**.

7. Switch port depth: Any locations where a closed/lockable wall cabinet being used? **Yes.** Any switch port depth restrictions that need to be considered? **Switch depth would be 16 inch maximum with adjustable mounting hardware.**
8. What stacking system and or arrangement does the district use? **The Patch Panels are between the switches and 1 foot Patch cables are used.** Are there patch panels between each switch in a stack or are all patch panels above and or below the switch stack? **The Patch panels are between the switches.**



9. Does the district require / or asking for redundant aggregation switches at all locations or just the high school locations? **The District is requiring redundant aggregation switches at the High School and ESC Locations.**
10. Table 2A "Additional" AP's, is this QTY net new so the effective total AP count requested is $3,550 + 100 + 57 + 5$ for a total of 3712 total AP's? **Yes**
11. Do you have topological diagrams of the WAN and/or LAN diagram that you can share? **Yes, see the attached diagram. The document may not be as accurate as the list of devices in the RFP. Use the RFP for actual switch counts.**
12. According to the RFP document, it appears that all WAN and LAN connections are via single mode fiber. Can you confirm that there is NO multi-mode fiber requirements anywhere in this design? **Correct, there will be no multi-mode fiber**
13. On the cost sheets there are 'Additional' lines (Additional Access Switches, Additional Routing Switches, etc.). Can you clarify what these lines are requesting? Are these additional spare units you are requesting, in addition to the quantity required in the design? **These are additional switches for expansion.**
- If these are indeed spares, do you want active support coverage on these devices as well? **Yes.**
14. Do the 'Server Switches' listed on the cost sheets require layer 3 connectivity? **Yes.**
15. Regarding the network management tool requirements:
1. What is the total # of devices requiring authentication to the network? **75,000**
 2. What is the total # of devices requiring guest access to the internet? **50,000**
16. We were looking for more clarity here (2.06, M), how are they wanting to configure end user devices (phones, laptops, tablets etc.). To automatically **configure** end user devices and appropriate network resource access by utilizing 802.1x. **Please describe how your solution has the ability to discover the type of device and put the device in the correct Vlan using 802.1x**
17. Does the school district plan to replace the switches that were purchased over the last 3-4 years with E-Rate funding? **Yes.** Under E-Rate guidelines equipment cannot be replaced within 5 years of purchase. Do we need to propose a separate quote for items not covered via E-Rate? **No.**

18. Is there a vendor delivery date on equipment? Yes, we would like to start configuration of the solution on July 1st, 2022. Flexibility with supply chain constraints? The District would like to start installations October 2022 and expects all LAN and wireless LAN equipment to be installed and operational by March 1st, 2023. If a Vendor anticipates that they will not be likely to make this completion date, the Vendor shall state that in their Proposal and provide a new date when they would be able to complete the project.

