## Moorhead Area Public Schools Equipment Requests FY2021-22

Based on the district's past experience, knowledge and existing infrastructure, below are estimates of the components believed to meet their needs. Seeking bids on the following, or equivalents, including any relevant licenses, cables, connectors, power supplies, transceivers, modules, and other miscellaneous components as needed. Items and quantities listed are estimates of need. If quoting an equivalent, please provide documentation of equivalence. Vendor must be an authorized E-rate partner of the manufacturer or will agree that no grey market products will be accepted as part of the procurement. Proposals should separately itemize the cost of E-rate eligible and ineligible services.
The district reserves the right to award none, some or all of the proposal. If a response exceeds the available Category 2 budget the district may choose to award only up to the available e-rate limit, less or more.
If a walk-through is completed, it must be completed by one week prior to the allowable contract date on the corresponding Form 470.

| Category 1 Fiber connection | Descriptor | Manufacturer | Part Number SKU | Network License | Qty |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Career Academy (New site) | Network Switch Gear | Cisco | C9300-48UXM-EDU | Advantage | 2 |
| $\sim$ Fiber Connection to High School | Network Switch Gear | Cisco | C9300-NM-8X |  | 2 |
|  | Network Switch Gear | Cisco | SFP-10G-LR |  | 2 |
|  | Network Switch Gear | Cisco | STACK-T1-1M= |  | 2 |
|  | Network Switch Gear | Cisco | CAB-SPWR-150CM= |  | 2 |
|  | Network Switch Gear | Cisco | PWR-C1-1100WAC |  | 1 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Category 2 eRate equipment | Descriptor | Manufacturer | Part Number SKU | Network License | Qty |
| Career Academy (New site) | Network Switch Gear | Cisco | C9300-48UXM-EDU | Essentials | 9 |
|  | Network Switch Gear | Cisco | C9300-48P-EDU | Essentials | 10 |
|  | Network Switch Gear | Cisco | C9300-NM-8X |  | 9 |
|  | Network Switch Gear | Cisco | SFP-10G-SR-S |  | 18 |
|  | Network Switch Gear | Cisco | STACK-T1-50CM= |  | 13 |
|  | Network Switch Gear | Cisco | STACK-T1-1M= |  | 5 |
|  | Network Switch Gear | Cisco | CAB-SPWR-30CM= |  | 13 |
|  | Network Switch Gear | Cisco | CAB-SPWR-150 $\mathrm{CM}=$ |  | 5 |
|  | Network Switch Gear | Cisco | PWR-C1-1100WAC |  | 6 |
|  | Wireless Access Point | Fortinet | FAP-431F |  | 68 |
|  | Wireless Access Point | Fortinet | FAP-433F |  | 20 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  | Descriptor | Manufacturer | Part Number SKU | Network License | Qty |
| Robert ASP (CAT2) | Network Switch Gear | Cisco | C9300-48UXM-EDU | Advantage | 2 |


|  | Network Switch Gear | Cisco | C9300-48UXM-EDU | Essentials | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Network Switch Gear | Cisco | C9300-48P-EDU | Essentials | 6 |
|  | Network Switch Gear | Cisco | C9300-NM-8X |  | 5 |
|  | Network Switch Gear | Cisco | SFP-10G-SR-S |  | 2 |
|  | Network Switch Gear | Cisco | STACK-T1-50CM= |  | 5 |
|  | Network Switch Gear | Cisco | STACK-T1-1M= |  | 7 |
|  | Network Switch Gear | Cisco | CAB-SPWR-30CM= |  | 5 |
|  | Network Switch Gear | Cisco | CAB-SPWR-150CM= |  | 7 |
|  | Network Switch Gear | Cisco | PWR-C1-1100WAC |  | 6 |
|  | Wireless Access Point | Fortinet | FAP-431F |  | 50 |
|  | Wireless Access Point | Fortinet | FAP-433F |  | 6 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  | Descriptor | Manufacturer | Part Number SKU |  | Qty |
| Ellen Hopkins (CAT2) | Wireless Access Point | Fortinet | FAP-431F |  | 54 |
|  | Wireless Access Point | Fortinet | FAP-433F |  | 6 |
|  |  |  |  |  |  |
|  | Descriptor | Manufacturer | Part Number SKU | Network License | Qty |
| Probstfield (CAT2) | Network Switch Gear | Cisco | C9300-48P-EDU | Advantage | 2 |
|  | Network Switch Gear | Cisco | C9300-NM-8X |  | 2 |
|  | Network Switch Gear | Cisco | STACK-T1-50CM= |  | 2 |
|  | Network Switch Gear | Cisco | CAB-SPWR-30CM= |  | 2 |
|  | Network Switch Gear | Cisco | PWR-C1-1100WAC |  | 1 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  | Descriptor | Manufacturer | Part Number SKU |  | Qty |
| S.G. Reinertson (CAT2) | Wireless Access Point | Fortinet | FAP-431F |  | 48 |
|  | Wireless Access Point | Fortinet | FAP-433F |  | 10 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |


|  | Descriptor | Manufacturer | Part Number SKU |  | Qty |
| :--- | :--- | :--- | :--- | ---: | ---: |
| West Central Academy (CAT2) | Wireless Acces Point | Fortinet | FAP-431F |  |  |
|  | Wireless Access Point | Fortinet | FAP-433F |  |  |

## Equipment requirements

- 48x 1 G RJ-45 ports with $\mathrm{PoE}+$ and 36 x $2.5 \mathrm{G} \& 12 \mathrm{x}$ mGig RJ-45 ports with UPoE
 SXP, IP SLA Responder, SSO
- PoE+ switches must have at least an 715 W AC power supply, with at least 437 W of available PoE power
- UPoE switches must have at least an 1100W AC power supply, with at least 490W of available PoE power
- Must have modular uplinks and uplink modules must support at least 10 G per port
- UPoE switches must have at least 12 x mGig downlink ports and all other downlink ports should be at least 2.5 G
- Must support dual redundant power supplies
- All switches defined in this section of the requirements must be the same series/product family and $100 \%$ compatible power and data stacking with each other
- Must support StackWise with up to 8 members per stack and stacking bandwidth of at least 480 Gbps
- Must support StackPower for redundant/shared power stacking
- Must include 2-post mounting hardware

year term
- Lifetime next-business-day (NBD) hardware replacement for switches
- Scoring preference may be given for switches with higher warranty, enhanced feature set or replacement levels
- All equipment must be new and from an authorized reseller of the manufacturers product for which they are quoting. No refurbished or "grey-market" gear will be accepted

