RFP# 111-24
Executive Summary

Overview

In this single-part RFP, KPBSD seeks proposals for multi-layer network equipment that offers a wholistic management framework with a focus on enhanced security capabilities (Security Fabric) to support an overhaul of our wired network infrastructure at select schools.

KPBSD's current district-wide internal wired network infrastructure is comprised primarily of Cisco Layer 2 and Layer 3 switches with reliance on select Cisco protocols for certain network functions: Cisco VLAN Trunking Protocol (VTP) is utilized at Layer 2 to propagate VLANs and Cisco EIGRP is utilized at Layer 3 for dynamic route distribution throughout our internal network.

An existing Fortinet Next Generation Firewall (NGFW) solution provides enhanced security capabilities, standardized policy management, and visibility at our public edge.

The intent of this project is to implement an alternative network design to our established wired infrastructure at select schools that would extend many of the same security capabilities available at our public edge to our internal network at those sites, establishing a framework for "zero trust" while bolstering our internal cybersecurity posture. Additional goals include the ability to standardize security policies between our public edge and internal edge, SD-WAN, application-based traffic controls, and making other functional improvements.

KPBSD recognizes that diverging from our established wired network infrastructure will require reconfiguration of portions of our network to enable interoperability with equipment proposed in this RFP. Although we are prepared to facilitate interoperability at sites outlined in this small-scale project, reconfiguration of core network routing, switching, and management policies in the remaining portions of our network outside the scope of this project may only occur if the project described in this RFP becomes fully vetted and, having then determined it to be in the best interest of KPBSD, the decision is made to continue expansion of this project.

Recognizing that overlap exists between edge security platforms and internal security solutions, compatibility with existing security infrastructure is one of the selection criteria vendor proposals will be scored against during bid review. See Section Q of the RFP Instructions to Bidders for the complete rubric.

This RFP only seeks security fabric network equipment as well as any additional required licensing/entitlements to support it and does not seek installation or similar services. KPBSD intends to perform all necessary installation to make functional the purchased network equipment included in this RFP.

KPBSD may elect to execute a purchase after award of this RFP at risk (e.g. before we receive our E-Rate funding commitment for eligible Category 2 equipment included in this RFP). In such a circumstance, KPBSD will require that arrival of equipment included in this RFP and invoicing for such items occurs AFTER April 1, 2024 but prior to June 30, 2025.

KPBSD intends to use the E-Rate FCC Form 472 (BEAR) invoicing process.

Part 1: Category 2 Security Fabric

In Part 1 of this RFP, KPBSD seeks proposals for LAN switching equipment, firewall appliances, and management software that comprise a wholistic security fabric. This equipment together securely serves internal connection needs for end-users within a building, infrastructure components such as the wireless network or backbone distribution between cabling facilities within a building, and sits at the edge of the local network to protect traffic inbound or outbound across WAN/SD-WAN connections to other district sites.

RFP – Part 1: E-Rate Category 2 Eligible Security Fabric

Any vendor may bid on any or all services. Enter cost for each unit (Quantity 1) in **Cost per Unit** column.

This is the basis for our E-Rate application. Please include all costs KPBSD will be asked to pay. If you don't include it, I won't know to ask for it, and if I don't ask for it, we won't get it subsidized!

Company Name _____

Special Note on Product or Service Descriptions
KPBSD provides specific part numbers for products or services listed in RFP specification rows below as best able to aid vendors in any responses made to this RFP; however, we recognize that manufactures may periodically revise their part numbers or otherwise alter standard configurations used for submitting orders. In the event part numbers or quantities listed for items do not align with current manufacturer configurations, please contact the KPBSD purchasing office **as soon as possible** to seek clarification. Timing is essential to allow for potential bid addendum(s) to be issued if needed and still meet our filing deadlines for E-Rate subsidy! See **RFP Instructions to Bidders - Section K.5** for information on how to contact KPBSD Purchasing with any questions.

Row A	**Project Scope (See Instructions Below)**		
	Qty	Product or Service Description	Cost per Unit (Quantity 1)
Row B		**Fortinet (or equivalent) FortiGate-201F's**	
B1	2	Fortinet #FG-201F FortiGate-201F 18 x GE RJ45 (including 1 x MGMT port, 1 X HA port, 16 x switch ports), 8 x GE SFP slots, 4 x 10Gb SFP+ slots, NP6XLite and CP9 hardware accelerated, 480GB onboard SSD storage, or equivalent	
B2	2	Fortinet #FC-10-F201F-247-02-12 FortiGate-201F 1 Year FortiCare Premium Support, or equivalent	
Row C		**Fortinet (or equivalent) FortiGate-101F's**	
C1	3	Fortinet #FG-101F FortiGate-101F 22 x GE RJ45 ports (including 2 x WAN ports, 1 x DMZ port, 1 x Mgmt port, 2 x HA ports, 16 x switch ports with 4 SFP port shared media), 4 SFP ports, 2x 10Gb SFP+ FortiLinks, 480GB onboard storage, dual power supplies redundancy, or equivalent	
C2	3	Fortinet #FC-10-F101F-247-02-12 FortiGate-101F 1 Year FortiCare Premium Support, or equivalent	
Row D		**Fortinet (or equivalent) 48-Port Layer 3 Switches**	
D1	6	Fortinet #FS-448E-POE FortiSwitch-448E-POE Layer 2/3 FortiGate switch controller compatible PoE+ switch with 48 x GE RJ45 ports, 4 x 10 GE SFP+, with automatic Max 421W POE output limit, or equivalent	

D2	6	Fortinet #FC-10-S448P-247-02-12 FortiSwitch-448E-POE 1 Year FortiCare Premium Support, or equivalent	
Row E		**Fortinet (or equivalent) 24-Port Layer 3 Switches**	
E1	3	Fortinet #FS-424E-POE FortiSwitch-424E-POE Layer 2/3 FortiGate switch controller compatible, or equivalent	
E2	3	Fortinet #FC-10-S424P-247-02-12 FortiSwitch-424E-POE 1 Year FortiCare Premium Support, or equivalent	
Row F		**Fortinet (or equivalent) FortiManager**	
F1	1	Fortinet #FMG-VM-10-UG FortiManager - VM License Upgrade license for adding 10 Fortinet devices/Virtual Domains; allows for total of 2 GB/Day of Logs, or equivalent	
F2	1	Fortinet #FC1-10-M3004-248-02-12 FortiManager - VM FortiCare Premium Support 1 Year FortiCare Premium Support (1 - 10 devices/Virtual Domains) , or equivalent	

Instructions

Row A	**Project Scope**
A1	KPBSD seeks to replace switching and routing wired network infrastructure with multi-layer network equipment that offers a wholistic management framework with a focus on enhanced security capabilities at five schools: Small Schools: • Cooper Landing School in Cooper Landing, Alaska (25Mb WAN / Approximately 26 Users) • Nanwalek School in Nanwalek, Alaska (25Mb WAN / Approximately 103 Users) • Port Graham School in Port Graham, Alaska (25Mb WAN / Approximately 39 Users) Medium Schools: • Kalifornsky Beach Elementary School in Soldotna, Alaska (100Mb WAN / Approximately 469 Users) This RFP represents the firewall appliances, managed switches, and software that together comprise a wholistic security fabric as well as licensing to support these upgrades. Purchase contract term would be from April 1, 2024 to June 30, 2025. Note that E-Rate permits Category 2 purchases to occur beginning April 1, 2024 for E-Rate funding year 2024-2025. In the perfect situation, E-Rate would notify us of our funding decision prior to the start of the funding year (July 2024), we would buy the equipment and install it during summer 2024. In the less-than-perfect situation, a funding decision could easily languish until after summer 2024 and well into the 2024-2025 school year. We will enter into a contract with the successful bidder contingent upon us receiving the E-Rate subsidy. We will both then wait patiently for notification of our funding award. If we do not receive the subsidy we seek, the contract is void and KPBSD may attempt to file again next year for E-Rate subsidy. E-Rate has certain

requirements vendors and service providers must meet. You will need to be registered with a SPIN number or be able to get one. KPBSD reserves the right to execute the purchase at-risk following bid award (prior to E-Rate funding approval) if desired.

Quantities noted are the minimum quantities. It is possible we could need more.

Write your company name above the description block in the provided space.

Responses to this specification sheet will be evaluated as described in section Q, subparts 3a-3g in the RFP Instructions to Bidders.

Row B	Fortinet (or equivalent) FortiGate-201F's
B1	The listed Fortinet firewall, or its equivalent, is the firewall we desire. The equipment must be new and be eligible for manufacturer maintenance coverage.

Row C	Fortinet (or equivalent) FortiGate-101F's
C1	The listed Fortinet firewall, or its equivalent, is the firewall we desire. The equipment must be new and be eligible for manufacturer maintenance coverage.

Row D	Fortinet (or equivalent) 48-Port Layer 3 Switches
D1	The listed Fortinet switch, or its equivalent, is the switch we desire. The equipment must be new and be eligible for manufacturer maintenance coverage.

Row E	Fortinet (or equivalent) 24-Port Layer 3 Switches
E1	The listed Fortinet switch, or its equivalent, is the switch we desire. The equipment must be new and be eligible for manufacturer maintenance coverage.

Row F	Fortinet (or equivalent) FortiManager
F1	The listed Fortinet network management software, or its equivalent, is the software we desire.