



**Tukwila**  
SCHOOL DISTRICT

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## TSD WiFi-6 Updates 2023-2024 Form 470# 230003360

*REQUEST FOR PROPOSAL*

RFP: WiFi-6 Updates

Proposal Date: November 16, 2022

Prepared by: Hsian-Yu Kuo, Director of Information Technology

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The Tukwila School District requests proposals from qualified vendors to furnish network electronics in order to update/modernize wireless network equipment to WiFi 6(E) standard.

## **Intent to Apply for ERate Funding**

Tukwila School District (District) is seeking qualified proposals with the intent to apply for funding under the Universal Service Administrative Company Schools and Libraries E-Rate Program (ERate) for Funding Year 2023 (FY2023). The ERate Funding Year 2023 will commence July 1, 2023 and end June 30, 2024. Approved contracts resulting from valid responses to the Request for Proposal (RFP) will be in effect from July 1, 2023 through June 30, 2024. Should an extension be permitted by ERate, the subsequent contract may be extended accordingly. Successful provider(s) must agree to cooperate fully and in a timely manner with any and all requests for information that Tukwila School District needs to secure the E-rate discounts.

All vendors must have a Service Provider Identification Number [SPIN] and be in compliance with all Federal Communication Commission (FCC) and Universal Service Administrative Company (USAC) rules and regulations including but not limited to filing yearly the service provider FCC Form 473; certifying that the service provider have complied with E-Rate program rules. Purchases will not be authorized prior to April 1, 2023. The project is to be completed and operational by Friday, August 11, 2023; pending approval of the E-Rate Application process.

This RFP sets forth:

1. The process whereby invited parties may respond
2. Instructions regarding the required form and content of vendor proposals
3. The functional and performance criteria for required system and hardware

The equipment that is the subject of this RFP is mostly eligible for E-rate support. Some however, may not be. Therefore where applicable, bidders **MUST provide separate price quotes** for eligible and ineligible equipment. It is the bidder's responsibility to provide a solution that optimizes the E-Rate discounts while meeting the requirements of this Request for Proposal. All inquiries must include the vendor SPIN number and the E-Rate Form 470 request number listed on this proposal form.

Award of this proposal is contingent upon the approval of funding from the Universal Service Administrative Company's (USAC) Schools and Libraries Program, otherwise known as E-Rate. Upon award, the District may proceed with purchase of equipment. Awarded bidder will provide invoices in compliance with USAC Service Provider Invoice (SPI) filing rules where the District will be billed for the undiscounted amount and the awarded bidder will request reimbursement of the discounted amount directly from USAC. It is the successful bidder's responsibility to follow USAC's rules and requirements to get reimbursement. The Tukwila School District and the successful bidder will act in a reasonable manner and comply with any Schools and Libraries Universal Service Fund Program requirements.

## **Scope of Work**

The district requests quotes for the purchase and installation of networking equipment (Attachment A) in accordance with the specifications listed. Vendors should provide a quote that breaks out pricing for each building and totals for the entire project. Work includes, but not limited to:

## Wireless Network

Upgrades to or replacement of our existing Local Area Network (LAN) Wireless Access Points (WAP). Device support for Wireless LAN must be device agnostic – support for Windows computers, laptops, iOS, Smartphones, Android, tablets, etc.

The District currently has around 240 Aruba Wireless Access Points and two Aruba 7220 controllers. This upgrade will replace existing WAPs to the current WiFi-6E standard (AP-635) and update current controllers software from OS 6.x to 8.x. Setup Cluster. Setup mobility conductor. Install necessary VM(s). The District will provide VMWare VM(s) as needed.

1. WAPs are to be manufactured by Aruba.
2. Quantity two hundred thirty nine (239) WAPs will be Aruba part number AP-635.
3. All WAPs should come with Aruba hardware limited lifetime warranty. Gray market products that do not have manufacturer warranty will not be accepted.
4. Vendor ensures WAPs installed will meet the district's requirements and specifications.
5. Vendor is responsible for installation and decommissioning of old WAPs as indicated in the layout plan and adding additional data cabling as needed.
6. All decommissioned WAPs must be organized and turned over to district staff to store at district designated area.

## Network Hardware Minimum Specifications

The manufacturer proposed must have designed and manufactured wireless/networking equipment for a minimum of five (5) years. No third party or rebranded products will be accepted. Preference will be given to OEM (original equipment manufacturer) hardware and equipment. All equipment must be new.

## Compatibility with Existing Infrastructure

All products proposed must be proven compatible with the current installed base of network equipment used and serviced by Tukwila School District.

Comparable products of other manufacturers will be considered if proof of comparability is contained in their proposal. **Vendors, if proposing other than specified, are to clearly identify the manufacturer and the model number and must provide written, complete justification as to how the product complies with all specifications highlighted within this RFP as well as the complete list of specifications related to the requested products.** It shall be the responsibility of the Vendors to furnish descriptive literature with their proposal such that specifications, catalog pages, brochures or other data as will provide an adequate basis for verifying the quality and functional capabilities of the product offered, this may include a demonstration to provide "Proof of Concept." Failure to provide this data will be considered valid justification for rejection of the proposal.

Unit price proposals are requested on products that equal or exceed the quality and performance of the brand listed. References to brand names, trade names, model numbers or other descriptions peculiar to specific brand products are made to establish a required level of quality and functional capabilities, and are not intended to exclude other products of that level.

### “Or Equal” Clause

Unless otherwise stated in the proposal documents, whenever a process, equipment or material is specified by giving a manufacturer's name, brand, or number, it is understood that the words “or equal” follow thereafter. Where the phrase “or equal” applies or occurs in the proposal documents, do not assume that a process, equipment or material is approved by the District unless the item has been specifically approved for their work by the District. The decision of the District is final.

### Schedule of Events

The estimated schedule of events through implementation is outlined below.

Step	Action Date
RFP issued along with Form 470	Monday, November 16, 2022
Mandatory Site Visit Registration Deadline	12:00 PM PST, Monday, December 5, 2022
Mandatory Site Visit by Pre-Registered Vendors	9:00 AM PST, Thursday, December 8, 2022 Foster High School Showalter Middle School Tukwila Elementary Cascade View Elementary Thorndyke Elementary
Deadline for Vendors to Submit Questions via Email	12:00 PM PST, Wednesday, December 14, 2022
Questions Delivered to Vendors	Friday, December 16, 2022
Deadline for Vendors to Submit Proposals	4:00 PM PST, Thursday, December 22, 2022
Bid Opening Date	Wednesday, January 4, 2023
Bid Evaluation & Notification Date	Monday, January 9, 2023
Start Date of Project	July 1, 2023
Completion Date of Project	Friday, August 11, 2023

## Communications Regarding RFP

### Proposal Response Deadline and Delivery

Vendors shall provide three (3) signed, original copies, and one electronic format copy of the proposal on a USB flash drive. Proposals must be received at the following address **no later than 4:00 PM on Thursday, December 22nd, 2022**. Vendors are solely responsible for ensuring that proposals are delivered on-time. Delays caused by any delivery service, including the US Postal Service, will not be ground for an extension of the deadline. Proposals submitted after the deadline may be rejected. Proposals sent via E-Mail or FAX will not be accepted.

Sealed proposals must be delivered to:

Tukwila School District - Technology Services  
RE: TSD WiFi-6 Updates 2023-2024  
4640 S 144th Street  
Tukwila, WA 98168

### District Representative

Upon release of this RFP all vendor communication concerning this RFP shall be emailed to:

Name: Hsianyu Kuo  
Director of Information Technology

Address: 4640 South 144th Street  
Tukwila, WA 98168

Email: [kuoh@tukwila.wednet.edu](mailto:kuoh@tukwila.wednet.edu)

Vendors who seek information, clarification, or interpretations from the Tukwila School District employees are advised that such material is used at the vendor's own risk and the District shall not be bound by any such representations. It will be the Vendor's obligation to inform the District's Representative of any and all conflicts, between the RFP documents and the onsite conditions.

### Vendor Clarifications & Questions

Questions concerning the RFP must be submitted in writing to [kuoh@tukwila.wednet.edu](mailto:kuoh@tukwila.wednet.edu), in advance of the RFP due date. *The deadline for questions is 12:00 PM PST, Wednesday, December 14, 2022.* Copies of questions relevant to the RFP process that may impact a response will be sent to all bid respondents.

### RFP Changes or Amendments

Any revision to the RFP will be issued in the form of an addendum and will be distributed to all vendors prior to the Response Due Date.

## **Clarifications**

The Tukwila School District reserves the right to obtain clarification of any point in a vendor's proposal or to obtain additional information necessary to properly evaluate a proposal. Failure of a vendor to respond to such a request for additional information or clarification may result in rejection for the vendor proposal. The District's retention of this right shall in no way reduce the responsibility of vendors to submit complete, accurate and clear proposals.

## **RFP Procedures**

### **Mandatory Site Visit**

Potential vendors are required to register for and attend the district site visit on 9:00 AM PST, Thursday, December 8, 2022 to determine the condition of the installation environment. Vendors must pre-register for the site visit by 12:00 PM PST, Monday, December 5, 2022. Pre-registration is made by completing the online form at:

<https://forms.gle/ZBavBhbUvi7tEbQE8>

Address and agenda of the site visit will be emailed to pre-registered vendors by 4:00 PM PST, Tuesday, December 6, 2022

### **Right of Selection/Rejection of Proposals**

The Tukwila School District reserves the right to select a proposal for eligible networking equipment through competitive negotiations. The Tukwila School District reserves the right to select or reject any or all proposals for any reason, to waive any informality in the proposals received, and to waive minor deviations from the specifications. The District may award a contract on the basis of information in addition to that received in a proposal. It is emphasized that all quotes should be complete and submitted with the most favorable financial terms.

### **Multiple Proposals**

Vendors may submit more than one proposal in response to this RFP. However, each proposal must be a separate, complete package, which can be considered independently of any other proposals from the same vendor.

### **Errors in Proposals**

Vendors are responsible for all errors or omissions in their proposals, and any such errors or omissions will not serve to diminish their obligations to the Tukwila School District. Any cost omissions on a bidder's response will be the responsibility of the bidder and not that of the District. The District will provide an on-site walkthrough on Thursday, December 8, 2022. No considerations are given for not knowing the condition of the installation environment. Once a bid is accepted, the Vendor will not be able to change pricing based on a condition not known to the vendor, after work begins.

### **Cost of Development of Proposals**

All expenses incurred by vendors related to the proposal or the selection process will be borne by the vendor. No claim for reimbursement of time, material, or expenses shall be made by the vendor against the Tukwila School District, regardless of the results of the selection process.

### **Vendor Prime Contractor Responsibility**

If a vendor's proposal includes equipment, hardware, software, or services to be supplied by entities other than itself, it is mandatory for the proposing vendor to act as prime contractor for the procurement of all products and services proposed to meet this RFP. The vendor acting as the prime contractor must be the sole point of contact with regard to contract stipulations including payment of any and all charges resulting from the purchase of the proposed equipment, hardware, software, and/or services. The vendor acting as the prime contractor must take full responsibility for the demonstration, delivery, installation, and acceptance testing of the items proposed to be supplied by its subcontractor.

### **Period of Validity of Proposals**

The Vendor must certify that its proposal will remain in effect for 150 days after the proposal due date. The District may request an extension beyond the 150 days.

### **Proprietary Material**

The Tukwila School District will attempt to protect legitimate trade secrets of any vendor. Examples of such information would be unpublished descriptions of proprietary aspects of the systems proposed. Any proprietary information contained in the proposal must be designated clearly and should be separately bound and labeled with the words "Proprietary Information." Marking the entire proposal proprietary may result in the rejection of the proposal. Vendors should be aware that the District is required by law to make its records available for public inspection, with certain exceptions. It is the District's belief that this legal obligation would not require the disclosure of proprietary, descriptive literature that contains valuable designs, drawings, or documentation. However, the vendor, by submission of materials marked "Proprietary Information," acknowledges and agrees that the District will have no obligation or liability to the vendor in the event that either must disclose these material

### **Proposal Disposition**

All materials submitted in response to this RFP shall become the property of the Tukwila School District.

### **Codes and Standards**

It shall be the responsibility of the Vendor to identify all codes, and/or agencies having jurisdiction and governing the execution of this proposal and to insure conformance with those codes and agencies. At a minimum, the execution of this RFP and all acts of the Vendor selected to perform work described herein, shall conform with and/or follow the guidelines of the following:

- Federal Communications Commission (FCC)
- Occupational Safety and Health Administration (OSHA)
- Electronic Industries Association (EIA)
- American National Standards Institute (ANSI)
- National and Local Electrical Codes, including NFPA 70
- City of Tukwila Ordinances as applicable
- Building Industry Consulting Service International (BICSI) Telecommunications Distribution Standards
- Applicable Regulations of the Washington Department of Labor and Industries, including Washington Industrial Safety and Health Act (WISHA)
- State and Federal Anti-Discrimination Laws
- Licensed 06 Electrical Contractor in the State of Washington.
- This list is not exclusive.



## **Proposal Format**

It is essential that the Tukwila School District be able to easily match a vendor's response with this RFP's requirements for information. Proposals should be submitted on 8.5 by 11 inch paper. Foldouts for charts, tables, spreadsheets, and single line diagrams are acceptable.

### **Section 1 Introduction and Procedures**

The vendor should complete the Title Page (Attachment C) and a Proposal Overview. The Proposal Overview should not exceed three pages, identifying the primary reasons why the proposal will best meet the needs of the District.

### **Section 2 Vendor Requirements/Information**

This includes the Vendor and Manufacturer Background Information, general vendor and project requirements, maintenance and service response, Customer Reference List (5 contacts), and a listing and description of equivalent projects completed by the vendor.

### **Section 3 System Specifications**

Provide information about the specifications of the project to be installed and/or provided to the District.

### **Section 4 Terms and Conditions**

The total system costs (Attachment D) must include non-recurring and monthly, recurring charges related to providing the system, including all taxes, surcharges and any other fees. Costs should be broken down by campus and location.

### **Section 5 E-Rate Eligibility**

The vendor will provide a breakdown of what services and/or goods are eligible for E-Rate at what percentage they are eligible. The terms of E-Rate requires data entry of every line item on a contract. Vendors are required to complete their bid using the USAC Internal Connection Template, which includes Manufacturer, Make and Model, quantities and price. Freight or delivery must be included in the price of the item. All items in this RFP must be new.

Any items that are ineligible for Erate must be identified as ineligible. If any items are partially ineligible for ERate, they must be listed as such along with the proper cost allocation calculations.

USAC Internal Connections Template can be accessed at:

[https://www.usac.org/wp-content/uploads/e-rate/documents/Forms/bulk\\_upload\\_templates/Category-Two-Internal-Connections-Version-21.0.xlsm](https://www.usac.org/wp-content/uploads/e-rate/documents/Forms/bulk_upload_templates/Category-Two-Internal-Connections-Version-21.0.xlsm)

## **Proposal Evaluation Criteria**

The District will initially evaluate the proposals for requirements compliance and technical merit. Proposals deemed acceptable will be reviewed to establish life cycle costs. The District will then select a group of vendor finalists that may be asked to present and demonstrate the products and services included in their proposal. The demonstrations must focus on the ability of the proposed systems to meet the District's functional requirements while providing easy and flexible operation for the users.

A contract shall be awarded to the most responsible and responsive vendor based upon, but not limited to, the following criteria:

Cost	35%
Solution/Proposal/Suitability	25%
Vendor Experience/Qualifications	20%
E-Rate Knowledge & Compliance	10%
Proximity to Tukwila School District	10%

### Acceptance of Bid (Award)

The Tukwila School District intends (but is not bound) to award a Contract to the lowest responsible and responsive Bidder, provided the Bid has been submitted in accordance with the requirements of the Bidding Documents and does not exceed the funds available. The Tukwila School District has the right to waive any informality or irregularity in any Bid(s) received and to accept the Bid which, in its judgment, is in its own best interests.

### Requirements for Award

Before the Award, the lowest responsive Bidder shall:

- A. Have a current state unified business identifier number;
- B. Have industrial insurance coverage for the Bidder’s employees working in Washington as required in Title 51 RCW;
- C. Have an employment security department number as required in Title 50 RCW;
- D. Have a state excise tax registration number as required in Title 82 RCW;
- E. Not be disqualified from bidding on any public works contract under RCW 39.06.010 (unregistered or unlicensed contractors) or RCW 39.12.065 (3) (prevailing wage violations)

### Rejection of Bid(s)

The Tukwila School District shall have the right but not the obligation to reject any or all Bids for any reason or for no reason, or to reject a Bid, which is in any way incomplete or irregular.

### Vendor Requirements

#### Vendor Background Information

Please provide the following information:

- Parent Company (if applicable)
- Name and Title of Top Local Executive
- Organizational Type/Structure
- Vendor Experience
- Years Company in Business in Puget Sound Area
- Number of Trained Technicians for Supporting Proposed System
- Additional Background Information (optional)

## **General Requirements**

The Vendor shall be a manufacturer's authorized installer and maintenance provider of the equipment and network system it proposes. The vendor shall have five (5) continuous years, minimum experience, in representing, installing, and maintaining the solution it proposes. The vendor is required to provide five (5), minimum, completed projects similar to scope and cost. Provide a list of projects, including references, in the bid submission.

## **Subcontractor Information (if applicable)**

Provide a list of sub-contractors who will have responsibilities for work related to successful accomplishment of this project. Include a brief background on each subcontractor(s) involved, description of the subcontractor's activities, and three references of work similar to that which they will be performing as subcontractor on this project.

## **Installation & Maintenance**

It shall be the responsibility of the Vendor to design, furnish, install, and test all aspects of the installed network cabling and hardware electronics as outlined in this RFP under the direction of the District's representative. The Vendor shall provide all supervision, labor, materials, equipment, and testing instrumentation required for the work associated with this RFP.

The Vendor represents and warrants that it shall maintain the systems, and all related equipment in the systems, in working order for a period no less than the manufacturer's standard warranty and shall provide emergency telephone numbers where emergency service can be obtained. The Vendor must be capable of providing a priority response for major problems, which includes a service outage to any site.

## **Work Schedule**

Vendor shall provide a complete work schedule before execution of any work. Preferred format of the schedule should be Gantt Chart, and a two-week "look-ahead" schedule should be provided on a weekly basis while the work is undergoing.

## **Normal Business Hours**

The Vendor shall include in their proposal the cost to prepare and conduct their work to ensure that the District endure no disruption to the loss of "Normal Business" functions. Buildings will be available to the Vendor during regular business hours for investigation and prep work.

Work resulting in the disruption of normal business functions and or causing a disruption to the teaching process will be performed after normal business hours (8:00 AM- 5:00 PM) unless pre-authorization has been obtained by the district.

## **Technicians**

The Vendor shall have on staff employees that are trained and certified in the solution they provide. Temporary or contract employees are not acceptable. Provide evidence in the bid submission of Technician qualifications. Evidence shall consist of, but not limited to:

1. Manufacturer Certifications
2. Manufacturer Training
3. Industry Training
4. Relevant Project Experience, etc.

Pursuant to RCW 39.12, no worker, laborer, or technician employed in the performance of any part of the contract shall be paid less than the “prevailing rate of wage” as determined by the Industrial Statistician of the Department of Labor and Industries.

All vendors working on any Tukwila School District site shall abide by all District rules and State regulations. Buildings and grounds are tobacco-free and drug-free areas. In addition, weapons and alcohol are prohibited.

Any workers who might come in contact with children on any Tukwila School District site must have undertaken a criminal background check to be on file with the Vendor. No workers convicted of crimes against children will be allowed on any Tukwila School District site.

All vendor employees must carry a picture ID and wear an identification badge provided by the Tukwila School District at all times.

### **Asset Management**

The Vendor will tag access points installed, removed, or repurposed using a district-provided asset tag. The Vendor will provide a complete inventory of equipment purchased and installed. The inventory should be delivered to the District in CSV format using USAC’s Sample Asset Register/Inventory List tracking worksheet. Column headers to include:

1. 471 App Number
2. FRN
3. Applicant Name
4. BEN
5. Fund Year
6. FRN Service Type
7. Equipment Description
8. Serial Number
9. Make
10. Model
11. Date of Delivery
12. USAC Invoice Number
13. Installation Date
14. Original Location (if applicable)
15. Current Location
16. Replacement Date (if applicable)
17. Customer Bill Date
18. Customer Bill Number
19. Bill Amount
20. Tukwila School District Asset Tag Number
21. Notes

The inventory is due to the District’s Representative no later than 12:00pm, Friday, August 11, 2023

### **Insurance & Liability**

The selected Vendor shall furnish certificates of insurance covering Workman’s Compensation and Liability insurance and hold Tukwila School District harmless against all claims arising out of the system installation.

Vendors shall make NO penetration of walls, floors, or ceilings without the prior consent of the Tukwila School District. Vendor will be responsible for all damage to the building during installation. This includes; ceiling tiles removed for the purpose for any wiring, inspection, or examination above the ceiling. Vendor is responsible for confirming the location of existing utilities prior to commencing work. Vendor agrees to repair and restore any utilities damaged during construction.

### **Omissions**

The Vendor accepts any available blueprint and/or site plans provided by the District as guidelines only, and accepts that the plans are not guaranteed to be an accurate representation of all conditions. Omissions in the proposal of any provision herein described shall not be construed as to relieve the Vendor of any responsibility or obligation to the complete and satisfactory delivery, operation, and support of any and all equipment or services.

### **Permits and Codes**

The selected Vendor will comply with all laws, codes, rules and regulations of the State, County and City applicable to the work to be performed at Tukwila School District location. The Vendor shall secure all permits, inspections, and authorizations required to complete its work associated with this RFP, at no additional cost to the District.

### **Shipments**

It will be the sole financial responsibility of the Vendor to arrange delivery and storage of all product, materials and equipment. The District will not be responsible for the warehousing or transportation of any products, material and equipment, without prior written approval. All equipment, supplies, and materials required for this project will remain the property of the Vendor until properly installed and accepted by the Tukwila School District.

### **Price**

The price quoted will include all costs including but not limited to the complete installation, training, project management, and acceptance testing.

### **Taxes**

The Tukwila School District is not exempt from Washington State sales and use taxes. Washington sales tax shall be included in the bid response quotation as a separate line item.

### **Quantities**

It is understood that the quantities stated are approximate only and are subject to either increase or decrease at the District's discretion and are stated for the purpose of comparison only. Should the quantities of any of the items be increased, the undersigned vendor shall furnish the addition articles at the unit price set out herein; and should the quantities be decreased, payment will be made on the actual quantities delivered/accepted at such unit prices, and the undersigned vendor will make no claim for anticipated profits or additional compensation for any increase or decrease in the quantities.

It should be understood that the District may purchase any number of items from the vendor at the unit prices bid.

### **Tukwila School District Current Locations**

Locations are listed in Attachment B.

**Financing**

The Tukwila School District and the successful bidder will act in a reasonable manner and comply with any Schools and Libraries Universal Service Fund Program.

**System Acceptance**

Once the installation has been completed, acceptance testing shall be performed upon the system. This test and verification period, if successful, shall consist of thirty consecutive days of normal traffic load with no major component failures and no major alarm indications. The Tukwila School District shall accept the installed system after a signed letter of official system certification with successful acceptance test results, accompanied by two sets of as-built documentation provided by the Vendor, is received, reviewed with the Vendor and accepted in writing by the Tukwila School District. Service shall commence concurrent with a dated Letter of Acceptance issued by the Tukwila School District to the Vendor. This letter will constitute the Tukwila School District's formal acceptance of the system.

## Attachment A - Equipment Quantities

Equipment	Quantity by Location					Total Qty	Note
	FOS	SHO	CAS	THO	TUK		
Aruba AP-635	79	45	37	38	40	239	Install as indicated in the floor map.
Aruba AP-635 Mounting Kit R3J16A	62	42	33	21	21	179	Install as needed.
Aruba AP-635 Mounting Kit R3J18A	6	1	0	15	17	39	Install as needed.
Right-Angle WAP Wall Bracket	11	2	4	2	2	21	Oberon 1007-ARAP635 or equal ( <a href="http://oberoninc.com/">http://oberoninc.com/</a> )
Cat-6 Network Pull	10	2	2			14	Include Cat6 cable and misc hardware (wall plate, RJ45 Cat6 Keystone jacks, RJ45 Cat6 modular plugs, low voltage mounting brackets)

# Scope of Work

## Foster High School

Room Number	Room Descriptions	Install Equipment	Mounts	Notes
101	Office	AP-635	R3J16A	
102	Workroom	AP-635	R3J16A	
103	Conference Room	AP-635	R3J16A	
106	Hallway	AP-635	R3J16A	
111	Mail Room	AP-635	R3J16A	
120		AP-635	R3J16A	
121		AP-635	R3J16A	
122		AP-635	R3J16A	
123	Open Space	AP-635	R3J18A	
126		AP-635	R3J16A	
127		AP-635	R3J16A	
128		AP-635	R3J16A	
130		AP-635	R3J16A	
131		AP-635	R3J16A	
132		AP-635	R3J16A	
133		AP-635	R3J16A	
134		AP-635	R3J16A	
135		AP-635	R3J16A	
136		AP-635	R3J16A	
137		AP-635	R3J16A	
138		AP-635	R3J16A	
139		AP-635	R3J16A	
140		AP-635	R3J16A	
145	Open Space	AP-635	R3J18A	
148		AP-635	R3J16A	
150		AP-635	R3J16A	
151		AP-635	R3J16A	
152	Reception	AP-635	R3J16A	
157	Hallway	AP-635	R3J16A	
167	Hallway	AP-635	R3J16A	
200-1	Library -1	AP-635	R3J16A	
200-2	Library -2	AP-635	R3J16A	
200-3	Library -3	AP-635	R3J16A	



201		AP-635	R3J16A	
208		AP-635	R3J16A	
209		AP-635	R3J16A	
210		AP-635	R3J16A	
211	Staff Lounge	AP-635	R3J16A	
214		AP-635	R3J16A	
215		AP-635	R3J16A	
216		AP-635	R3J16A	
217		AP-635	R3J16A	
218		AP-635	R3J16A	
219	Open Space	AP-635	R3J18A	
223	Open Space	AP-635	R3J18A	
224		AP-635	R3J16A	
225		AP-635	R3J16A	
226		AP-635	R3J16A	
227		AP-635	R3J16A	
228		AP-635	R3J16A	
229		AP-635	R3J16A	
230		AP-635	R3J16A	
231		AP-635	R3J16A	
232		AP-635	R3J16A	
233		AP-635	R3J16A	
234		AP-635	R3J16A	
235		AP-635	R3J16A	
236		AP-635	R3J16A	
237		AP-635	R3J16A	
244		AP-635	R3J16A	
245		AP-635	R3J16A	
246		AP-635	R3J16A	
307F	Team Room - Men	AP-635 + Cat 6 Cable	R3J16A	New Cat 6 cable
308F	Team Room - Women	AP-635 + Cat 6 Cable	R3J16A	New Cat 6 cable
315	Art	AP-635	R3J16A	
317	Choral/Music	AP-635 + Right-Angle Wall Bracket + Cat 6 cable	NA	New Cat 6 cable
319	Band	AP-635 + Right-Angle Wall Bracket + Cat 6 cable	NA	New Cat 6 cable
323	Weight Room	AP-635 + Right-Angle Wall Bracket + Cat 6 cable	NA	New Cat 6 cable

324	Stage	AP-635 + Right-Angle Wall Bracket + Cat 6 cable	NA	New Cat 6 cable
330	ASB	AP-635 + Cat 6 cable	R3J16A	New Cat 6 cable
Aux Gym 1		AP-635 + Right-Angle Wall Bracket	NA	
Aux Gym 2		AP-635 + Right-Angle Wall Bracket	NA	
Common Kitchen		AP-635 + Cat 6 cable	R3J18A	New Cat 6 cable
Gym 1		AP-635 + Right-Angle Wall Bracket	NA	
Gym 2		AP-635 + Right-Angle Wall Bracket	NA	
Kitchen Custodial area		AP-635 + Cat 6 cable	R3J18A	New Cat 6 cable
PAC	Front Left	AP-635 + Right-Angle Wall Bracket	NA	
PAC	Front Right	AP-635 + Right-Angle Wall Bracket	NA	
PAC	Rear	AP-635 + Right-Angle Wall Bracket (will need wedge to make the bracket level) + Cat 6 cable	NA	New Cat 6 cable
<b>Total AP365</b>		<b>79</b>		
MDF		Update current Active/Standby 7220 controllers from OS 6.x to 8.x. Migrate current configurations. Setup Cluster. Setup mobility conductor. Install necessary VM(s) as needed. The District will provide VMWare VM(s) as needed.		
		Summary - Mounting Brackets	R3J16A	62
			R3J18A	6
Note:				
(1)		Remove existing APs, track asset, and deliver to district		
(2)		Right-Angle Wall Bracket - Oberon - SKU: 1007-ARAP635		

### Showalter Middle School

Room Number	Room Descriptions	Install Equipment	Mounts	Notes
A108		AP-635 + Cat 6 Cable	R3J16A	New Cat 6 cable
A113-Hallway		AP-635 + Cat 6 Cable	R3J16A	New Cat 6 cable
A117		AP-635	R3J16A	



A120		AP-635	R3J16A	
A125		AP-635	R3J16A	
A126		AP-635	R3J16A	
A148		AP-635	R3J16A	
A155-1	Library	AP-635	R3J16A	
A155-2	Library	AP-635	R3J16A	
A162		AP-635	R3J16A	
A170		AP-635	R3J16A	
A173		AP-635	R3J16A	
A174		AP-635	R3J16A	
A175		AP-635	R3J16A	
A176		AP-635	R3J16A	
A-Kitchen Hallway		AP-635	R3J16A	
A-Boy's Locker		AP-635	R3J18A	
A-WeightRoom		AP-635 + Right-Angle Wall Bracket	NA	
GYM		AP-635 + Right-Angle Wall Bracket	NA	
B101		AP-635	R3J16A	
B102		AP-635	R3J16A	
B104		AP-635	R3J16A	
B108		AP-635	R3J16A	
B109		AP-635	R3J16A	
A204		AP-635	R3J16A	
A205		AP-635	R3J16A	
A206		AP-635	R3J16A	
A208		AP-635	R3J16A	
A209		AP-635	R3J16A	
A211		AP-635	R3J16A	
A212		AP-635	R3J16A	
A213		AP-635	R3J16A	
A216		AP-635	R3J16A	
A217		AP-635	R3J16A	
A223		AP-635	R3J16A	
A226		AP-635	R3J16A	
A227		AP-635	R3J16A	



A228		AP-635	R3J16A	
A229		AP-635	R3J16A	
B201		AP-635	R3J16A	
B202		AP-635	R3J16A	
B204		AP-635	R3J16A	
B206		AP-635	R3J16A	
B208		AP-635	R3J16A	
B211		AP-635	R3J16A	
Total AP365		45		
MDF		Update one patch panel from Cat-5 to Cat-6.		
		Summary - Mounting Brackets	R3J16A	42
			R3J18A	1

## Thorndyke Elementary

Room Number	Room Descriptions	Install Equipment	Mounts	Notes
103		AP-635	R3J16A	
104	Common	AP-635	R3J18A	
117	Gym	AP-635 + Right-Angle Wall Bracket	NA	
122	Office	AP-635	R3J16A	
133	Conf/Meeting Room	AP-635	R3J16A	
142		AP-635	R3J16A	
144		AP-635	R3J16A	
148		AP-635	R3J16A	
149		AP-635	R3J16A	
150		AP-635	R3J16A	
153		AP-635	R3J16A	

155		AP-635	R3J16A	
157		AP-635	R3J16A	
160		AP-635	R3J16A	
161		AP-635	R3J16A	
162		AP-635	R3J16A	
166		AP-635	R3J16A	
168		AP-635	R3J16A	
169		AP-635	R3J16A	
171		AP-635	R3J16A	
176		AP-635	R3J16A	
181	Modular	AP-635	R3J16A	
182	Modular	AP-635	R3J16A	
206 A		AP-635	R3J18A	
208		AP-635	R3J18A	
209		AP-635	R3J18A	
210		AP-635	R3J18A	
215		AP-635	R3J18A	
216		AP-635	R3J18A	
217		AP-635	R3J18A	
221	Library	AP-635	R3J18A	
228		AP-635	R3J18A	
229		AP-635	R3J18A	
230		AP-635	R3J18A	
235		AP-635	R3J18A	
236		AP-635	R3J18A	
238	Staff Room	AP-635	R3J18A	
Entrance		AP-635 + Right-Angle Wall Bracket	NA	
Total AP365		38		
		Summary - Mounting Brackets	R3J16A	21
			R3J18A	15

## Tukwila Elementary

Room Number	Room Descriptions	Install Equipment	Mount	Notes
B104	Office	AP-635	R3J16A	
B107	Conf Room	AP-635	R3J16A	
B116		AP-635	R3J16A	
B119		AP-635	R3J16A	
B120		AP-635	R3J16A	
B123		AP-635	R3J16A	
B133	Library	AP-635	R3J16A	
C101		AP-635	R3J16A	
C102		AP-635	R3J16A	
C103		AP-635	R3J16A	
C104		AP-635	R3J16A	
C108		AP-635	R3J16A	
C111		AP-635	R3J16A	
C112		AP-635	R3J16A	
C116		AP-635	R3J16A	
D100		AP-635	R3J16A	
D101		AP-635	R3J16A	
D108		AP-635	R3J16A	
D109		AP-635	R3J16A	
E101	Modular	AP-635	R3J16A	
E102	Modular	AP-635	R3J16A	
B204-HallWay		AP-635	R3J18A	
B204		AP-635	R3J18A	
B205		AP-635	R3J18A	
B206		AP-635	R3J18A	
B208		AP-635	R3J18A	
B210		AP-635	R3J18A	
B213		AP-635	R3J18A	
B215		AP-635	R3J18A	
C201		AP-635	R3J18A	
C201-HallWay		AP-635	R3J18A	

C202		AP-635	R3J18A	
C203		AP-635	R3J18A	
C204		AP-635	R3J18A	
C207		AP-635	R3J18A	
C210		AP-635	R3J18A	
C211		AP-635	R3J18A	
C215		AP-635	R3J18A	
Common		AP-635 + Right-Angle Wall Bracket	NA	
Gym		AP-635 + Right-Angle Wall Bracket	NA	
Total AP365			40	
		Summary - Mounting Brackets	R3J16A	21
			R3J18A	17

## Attachment B - School District Locations

Site Name	Abbreviation	Address	Phone
Foster High School	FOS	4242 South 144th Street Tukwila, WA 98168	(206) 901-7900 (206) 901-7907 fax
Showalter Middle School	SHO	4628 South 144th Street Tukwila, WA 98168	(206) 901-7800 (206) 901-7807 fax
Cascade View Elementary	CAS	13601 32nd Avenue South Tukwila, WA 98168	(206) 901-7700 (206) 901-7707 fax
Thorndyke Elementary	THO	4415 South 150th Street Tukwila, WA 98168	(206) 901-7600 (206) 901-7607 fax
Tukwila Elementary	TUK	5939 South 149th Street Tukwila, WA 98168	(206) 901-7500 (206) 901-7507 fax
Administrative Center	ADM	4640 South 144th Street Tukwila, WA 98168	(206) 901-8000 (206) 901-8016 fax
Service Center	SC	4160 South 144th Street Tukwila, WA 98168	(206) 901-8080

# Attachment C

## Tukwila School District TSD WiFi-6 Updates 2023-2024

### Bidder Identification and Authorized Signature

The undersigned agrees to furnish the enclosed items at the price stated, subject to the conditions and requirements of this proposal. The proposal must be signed by someone with the authority to legally bind the Vendor.

Firm Name:	
Address:	
Signed By:	
Printed Name:	
Title:	
Date:	

### Bidder's Contact Information

Please indicate person to be contacted by the Tukwila School District concerning any part of this RFP or the proposal.

Name:	
Title:	
Phone:	
Fax:	
Email:	



# Attachment D

**Tukwila School District**  
**TSD WiFi-6 Updates 2023-2024**  
 Total System Costs

## Foster High School Hardware & Equipment

Item	Quantity	Unit Price	Total Price
Aruba AP-635 WAP	79		
Aruba AP-635 Mounting Kit R3J16A	62		
Aruba AP-635 Mounting Kit R3J18A	6		
Right-Angle WAP Wall Bracket	11		
Cat-6 Network Pull	10		
<b>Total</b>			

## Foster High School Installation

Item	Quantity	Unit Price	Total Price
WAP Installation Aruba AP-635 (include mounting kit R3J16A and R3J18A and right-angle WAP Wall Bracket)	79		
Cat-6 Network Pull	10		
Update current Active / Standby 7220 controllers from OS 6.x to 8.x. Migrate current configurations. Setup Cluster. Setup mobility conductor. Install necessary VM(s) as needed. The District will provide VMWare VM(s) as needed.	1		
<b>Total</b>			

### Showalter Middle School Hardware & Equipment

Item	Quantity	Unit Price	Total Price
Aruba AP-635 WAP	45		
Aruba AP-635 Mounting Kit R3J16A	42		
Aruba AP-635 Mounting Kit R3J18A	1		
Right-Angle WAP Wall Bracket	2		
Cat-6 Network Pull	2		
48-port Cat 6 Patch Panel	1		
Total			

### Showalter Middle School Installation

Item	Quantity	Unit Price	Total Price
WAP Installation Aruba AP-635 (include mounting kit R3J16A and R3J18A and right-angle WAP Wall Bracket)	45		
Cat-6 Network Pull	2		
Update one patch panel from Cat-5 to Cat-6 (48-port Cat6 panel)	1		
Total			

### Cascade View Elementary Hardware & Equipment

Item	Quantity	Unit Price	Total Price
Aruba AP-635 WAP	37		
Aruba AP-635 Mounting Kit R3J16A	33		
Aruba AP-635 Mounting Kit R3J18A	NA		
Right-Angle WAP Wall Bracket	4		
Cat-6 Network Pull	2		
Total			

### Cascade View Elementary Installation

Item	Quantity	Unit Price	Total Price
WAP Installation Aruba AP-635 (include mounting kit R3J16A and R3J18A and right-angle WAP Wall Bracket)	37		
Cat-6 Network Pull	2		
Total			

### Thorndyke Elementary Hardware & Equipment

Item	Quantity	Unit Price	Total Price
Aruba AP-635 WAP	38		
Aruba AP-635 Mounting Kit R3J16A	21		
Aruba AP-635 Mounting Kit R3J18A	15		
Right-Angle WAP Wall Bracket	2		
Cat-6 Network Pull	NA		
Total			

### Thorndyke Elementary Installation

Item	Quantity	Unit Price	Total Price
WAP Installation Aruba AP-635 (include mounting kit R3J16A and R3J18A and right-angle WAP Wall Bracket)	38		
Cat-6 Network Pull	NA		
Total			

### Tukwila Elementary Hardware & Equipment

Item	Quantity	Unit Price	Total Price
Aruba AP-635 WAP	40		
Aruba AP-635 Mounting Kit R3J16A	21		
Aruba AP-635 Mounting Kit R3J18A	17		
Right-Angle WAP Wall Bracket	2		
Cat-6 Network Pull			
Total			

### Tukwila Elementary Installation

Item	Quantity	Unit Price	Total Price
WAP Installation & Delivery Aruba AP-635 (include mounting kit R3J16A and R3J18A and right-angle WAP Wall Bracket)	40		
Cat-6 Network Pull	NA		
Total			

### Total Price, Estimated Taxes, Surcharges, and Fees

Please provide a description and amount of estimated taxes, surcharges and fees.

Total Cost (from all schools above)	\$
Surcharges:	\$
Other Fees:	\$
Tax:	\$
Total Bid Price:	\$