

## Request for Proposals 2015 Network Switching Project

### Kingsburg Joint Union High School District

#### Notice to Bidders

Notice is hereby given to interested bidders that the Kingsburg Joint Union High School District will receive written, sealed bids until the hour of 3:00 PM, on June 23, 2015, at the Kingsburg Joint Union High School District Office at 1900 18<sup>th</sup> Avenue, Kingsburg, CA 93631. Bids will be opened at 3:00 PM on June 23, 2015, in the District Office.

#### Schedule of Events:

Event	Date(s)
Release of RFP to vendors	June 10, 2015
Site Visit (Mandatory)	June 12, 2015
Deadline for Submission of Proposals	June 23, 2015
Opening of Proposals (KJUHSD District Office)	June 23, 2015

### Kingsburg Joint Union High School District 2015 Network Switching Project

The Kingsburg Joint Union High School District wishes to upgrade its current network infrastructure including, but not limited to, core switching at MDF, replacement switching at IDFs, remote switching on its Oasis campus IDF and additional IDF and switching capabilities at locations not currently served on campus.

The capacity of the switches should allow students to conduct moderate to heavy Web access for research with minimal video streaming, such as all students being able to view a 2-4 minute online video in HD once every hour. (Bidder may assume that the Kingsburg Joint Union High School District has sufficient Internet bandwidth to supply the requirements above. The primary objective is to ensure that bottlenecks do not occur at the switches under the specified conditions.) The Network should be able to support up to **2,500** simultaneously connected devices in classrooms, auditoriums, libraries, gyms, cafeterias etc. Post award, should the bidder propose a solution that does not meet the specifications listed below, the bidder must provide sufficient documentation that the District's objective will be met with their solution.

Proposals should include a centralized method of managing and controlling network access.

Proposals should include a realistic assessment of actual switches as well as cabling and other equipment necessary to support the needs outlined above. Technical specifications

of equipment should be provided with the proposal.

The proposal must guarantee performance sufficient to fulfill the needs of the Kingsburg Joint Union High School District as requested within this RFP. After implementation of the successful bidder's proposal, if additional equipment, cabling or labor is needed, the bidder will bear all costs necessary to satisfy the requirements of this RFP.

It is the bidder's responsibility to ensure that the equipment proposed meets the performance specifications of the manufacturer and the previously stated requirements. The Kingsburg Joint Union School High District will not release the bidder from the performance guarantee required above, because of malfunctions or defects in equipment due to manufacturer error or flaws in the equipment.

Because of the diversity of possible solutions, the Kingsburg Joint Union High School District is asking for detailed proposals to accomplish the task. Specifications will be general and minimal to allow proposals to be as innovative as possible.

All prospective bidders must complete a mandatory walkthrough on June 12, 2015, beginning at 9:00 AM, at the Kingsburg High School Administration Building, in order to be eligible to submit a bid. Proposals from bidders who do not complete the walkthrough WILL NOT be considered.

Bids will be due on or before 3:00 PM on June 23, 2015. For more information, contact Christian Hill, Project Coordinator, via phone: (559) 554-2804 or by e-mail: [chill@trinity-system.com](mailto:chill@trinity-system.com).

## **CLARIFICATION**

If after the completion of this project, during normal operation of the network, the district discovers that the wired network will not allow for the capacity required in this RFP as stated in paragraph three in page one of this document, then the bidder will be required to do whatever is necessary to meet the specifications with no additional cost to the Kingsburg Joint Union High School District.

## **General**

Provide internal connections as specified herein.

The specifications herein are provided to convey the intent of the system and do not indicate every cable or component necessary for the complete system that the proposing bidder shall provide.

Prices quoted shall be an all-inclusive solution including all applicable taxes, shipping costs, installation of equipment, configuration of equipment, any necessary cabling, any additional necessary electrical power, training, technical support and trash removal and represent complete installation and integration with the existing network where

necessary.

All equipment included in bidder's proposal must be new equipment purchased from an authorized reseller. No grey market, third party, or used equipment will be considered. Prices quoted in the bidder's response will remain in effect for a period of 30 days from the time of bid date.

Omissions in the proposal of any provision herein described shall not be construed as to relieve the bidder of any responsibility or obligation to the complete and satisfactory delivery, operation and support of any services.

Should the bidder have questions or find discrepancies in, or omissions from this RFP, or shall be in doubt to its meaning, the bidder shall at once notify Trinity System Group, Inc. All questions should be addressed to Christian Hill as outlined below. The preferred mode of contact is via email.

Christian Hill, Project Coordinator  
Trinity System Group, Inc.  
chill@trinity-system.com  
(559) 554-2804

Questions must be submitted to the email address: chill@trinity-system.com. If a response is not received within 24 hours, it is the responsibility of the respondent to call Christian Hill at the provided phone number, to confirm receipt of the message. All questions and responses will be posted within 24 hours on the Architect's website at <http://www.trinity-system.com/KHS/RFP/Switching.html>. It is the sole responsibility of the respondent to visit this page prior to bid submission to ensure they have the latest information.

## **BID SUBMISSION INSTRUCTIONS**

Bids will be opened at 3:00 PM, Tuesday, June 23, 2015, in the School District's Office, 1900 18<sup>th</sup> Avenue, Kingsburg, CA 93631.

Bids must be submitted in a sealed envelope clearly marked as follows:

"Kingsburg Joint Union High School District 2015 Network Switching Project"

Envelopes not so marked will remain sealed. The Kingsburg Joint Union High School District Board of Trustees reserves the right to reject any and/or all bid and waive any informalities.

The first page showing in the bid submission packet must be Attachment A so the total bid price may be easily seen for the bid tabulation. Failure to comply may result in bid disqualification.

Bids must include the following:  
Attachment 'A' Completed and Signed by the bidder.

(THIS PAGE MUST BE THE FIRST PAGE IN THE BID SUBMISSION DOCUMENTATION)

Attachment 'B' Completed.

"Kingsburg Joint Union High School District 2015 Network Switching Project" should be clearly marked on the face of the envelope as well as the opening date of June 23, 2015.

It is the sole responsibility of the respondents to ensure their responses arrive in a timely manner. The official time is as determined by and at the sole discretion of the District. Late arrivals will be rejected. The Kingsburg Joint Union High School District is not responsible for delays of any commercial carrier or delays incurred by the respondents. Oral, telephone, telegraphic, FAX, or E-Mail bids will not be considered. Signatures on the proposals must be in longhand and executed by a principal duly authorized by the bidder to make a contract.

## **Certification of Responsibility**

- A. Each bidder submitting a bid on public projects must show on his bid and on the face of the envelope containing the bid, his Contractors License Number, as required by the State of California. If the bid does not exceed the amount of \$50,000 on public projects, a notation so stating must appear on the face of the envelope.
- B. No bid will be opened, considered or accepted unless the above information is given as specified. Sufficient evidence that said License has been issued and is in effect at the time of receiving bids must be submitted when required by the Owner. Likewise, it shall be the responsibility of the Prime Contractor to require a State Contractors License from any subcontractor where applicable.

## **Evaluation Methodology**

The Kingsburg Joint Union High School District Board of Trustees will award a contract based on the lowest price of the Base Bid.

## **Vendor Qualifications**

The Kingsburg Joint Union High School District may make such investigations as deemed necessary to determine the ability of the bidder or subcontractors or suppliers to perform the work, and the bidder shall furnish to the Kingsburg Joint Union High School District all such information and data for this purpose as the Kingsburg Joint Union High School

District may request. The Kingsburg Joint Union High School District reserves the right to reject any bid if the evidence submitted by or investigation of such bidder fails to satisfy the Kingsburg Joint Union High School District that such bidder is properly qualified to carry out the obligations of the contract and/or to complete the work contemplated therein within the time required.

The bidder is specifically advised that any person, firm or other party to whom it proposes to award a subcontract or purchase order under this contract must be acceptable to the Kingsburg Joint Union High School District.

The successful bidder must have or be certified with the following:

- Be able to supply all products and services.
- Be an authorized dealer in the State of California for all products.
- Have current liability insurance and workers compensation insurance.
- Surety bond upon award.
- A qualified engineer with a minimum certification of CCIE or equivalent shall perform all configurations.
- Participate in a mandatory site walkthrough that will be held on June 12, 2015. Any bid submitted by a bidder who does not complete the mandatory walkthrough will be returned unopened. There will be no exceptions.

## **Disqualification of Bidder**

The Kingsburg Joint Union High School District reserves the right to award to other than the lowest bidder when, in the judgment of the District administration, it is in the best interest of the District to do so. A Bidder may be disqualified for such reasons as:

- A. Bidder's failure to comply with requirements regarding Certification of Responsibility.
- B. Bidder's failure to sign Bidder's Proposal Form or to otherwise properly complete the Proposal Form.
- C. Bidder's failure to attend and complete the mandatory site walkthrough.
- D. Bidder being in litigation with the Kingsburg Joint Union High School District.
- E. Bidder having defaulted on a previous contract.

- F. Bidder having performed unsatisfactorily on a previous contract, including but not limited to the Bidder's failure to fulfill the warranty obligations of a previous contract with the Kingsburg Joint Union High School District.
- G. Bidder's failure to include documentation for required certifications and authorizations.
- H. Bidder's failure to provide a minimum of three K-12 client references for projects of similar size and complexity.

The above is not an inclusive list.

## **Objective**

Kingsburg Joint Union High School District's objective is for bidders to propose a solution that will successfully allow all wired ports to be active in all MDF/IDFs per classroom; for access which will then allow students to conduct moderate to heavy Web access for research with minimal video streaming, such as all students being able to view a 2-4 minute online video in HD once every hour. The Network should be able to support up to **2,500** simultaneously connected devices in classrooms, auditoriums, libraries, gyms, cafeterias etc. Should the bidding propose a solution that does not meet the specifications listed below, the bidder must provide sufficient documentation that the District's objective will be met with their solution.

## **Equipment & Installation Specification Cabling for Switches**

All cable and cabling components including jacks and patch panels used in this proposal will be Category 6 rated. The amount needed will be determined by the bidders upon review of currently existing site conditions.

- Bid must include cabling and all necessary components (patch cables, patch panels, jacks and mounts, crimp ends, etc.)
- Bid must include cost of labor and installation, test and turn-up.

## **Wired Network Infrastructure**

The Kingsburg Joint Union High School District is requesting an all-inclusive solution including all applicable taxes, shipping costs, installation of equipment, configuration of equipment, any necessary cabling, any additional necessary electrical power, training, technical support and trash removal and represent complete installation and integration

with the existing network where necessary.

All equipment included in bidder's proposal must be new equipment purchased from an authorized reseller. No grey market, third party, or used equipment will be considered.

- Must support extensible licensing (adding of additional switches over time)
- Must support multicast video delivery across LAN
- Must support guest access
- Must support hardware-based feature provisioning

## **Switching Hardware**

- Must support minimum layer 2 routing
- Preference will be given if the manufacturer offers a limited lifetime warranty (10 day AHR)
- Must support policy-based routing
- Must support client load-balancing across network
- Must support advanced classifier-based QoS and broadcast control
- Must support multicast video delivery across LAN
- Must support remote configuration and management
- Must support remote monitoring and logging
- Must support IPv4 and IPv6 management
- Must support SNMP 1-3v
- Must support IEEE 802.1Q VLAN partitioning and management
- Must support IEEE 802.1X authentication and ACLs
- Must include 10Gbps capability
- Must include a minimum of 144 fixed 10/100/1000BASE-T RJ-45 ports at core switch

- Must include a minimum of 16 1000/10000 SFP+ ports at core switch MDF
- Must include a minimum of 48 fixed 10/100/1000BASE-T RJ-45 ports at each IDF
- Must include a minimum of 4 1000/10000 SFP+ ports per IDF for interconnection to MDF
- Must include IEEE 802.3af PoE for security cameras and wireless APs
- Bid must include cost of configuration and installation and 8 hours of training on configuration and maintenance for the Kingsburg Joint Union High School District's IT staff.

## **Uninterruptible Power Supply**

- Must include necessary brackets for rack mounting in existing racks
- Must include 550 Joules of surge protection at MDF
- Must have a minimum run time of 60 minutes at MDF
- Must include 450 Joules of surge protection at each IDF
- Must have a minimum run time of 30 minutes at each IDF

## **Other Considerations**

### **Vendor installed Patch Panels and Cabling**

- Any cables run by the bidder will be terminated into a patch panel on one end and in a wall mounted full box jack on the other.
- Bidders may use any patch panels currently in place if there are sufficient open jacks in the patch panel. HOWEVER, if the current patch panel is rated anything lower than Cat 6 and the bidder chooses to use it, the bidder will replace the entire patch panel with a Cat 6 unit and reconnect all currently connected cables.
- If the bidder chooses to install a new patch panel and there is not room on the rack, the bidder will be required to install another, larger rack, placing all of the equipment currently in the small rack into the larger rack.



- If current cables are used, the bidder will be allowed to use the same cable and patch panels regardless of the rating category provided that the previously stated connectivity and throughput goals are met.
- Bidder will be responsible for labeling and testing all connections and providing a document showing all drop locations as well as test results.
- All wiring must be concealed either in wall or conduit. No exposed cable runs will be allowed.

## **Current Equipment**

- All current equipment will remain the property of the Kingsburg Joint Union High School District regardless of its use or non-use in the successful proposal.
- The Kingsburg Joint Union High School District network is currently based on a Cisco 6509 core switch and primarily Cisco Catalyst 4000 switches at each existing IDF. Any switches added via this proposal **MUST** be able to connect to equipment to remain in place at the time of turn-up.

## **Wiring**

Each IDF within the same building of the campus MDF may be connected by copper. IDFs located in other buildings on the campus are connected to the MDF by fiber. Some of these connections, as noted earlier, could have to be re-terminated in order to function properly and the termination will be the responsibility of the successful bidder.

# Existing Conditions

Kingsburg High School Wired Infrastructure				
Existing Equipment				
Item #	Location	Enclosure	UPS	Switch
1	Admin Office	IDF	(E)	Cisco Catalyst 4000
2	10 Wing	IDF	(E)	Cisco Catalyst 4000
3	20 Wing, IT Core	MDF	(E)	Cisco Catalyst 6509
4	30 Wing	IDF	(E)	Cisco Catalyst 4000
5	40 Wing	IDF	(E)	Cisco Catalyst 4000
6	50 Wing	IDF	(E)	Cisco Catalyst 4000
7	60 Wing	IDF	(E)	Cisco Catalyst 4000
8	70 Wing	IDF	(E)	Cisco Catalyst 4000
9	80 Wing	IDF	(E)	Cisco Catalyst 4000
10	Library	IDF	(E)	Cisco Catalyst 4000
11	New Gym	IDF	(E)	Cisco Catalyst 4000
12	Theater	N/A	N/A	N/A
13	Old Gym	N/A	N/A	N/A
14	Board Room	N/A	N/A	N/A
15	Oasis	IDF	(E)	Cisco Catalyst 4000

(Site and floor plans for the campus will be made available at walkthrough.)

## **Current Network Bandwidth and WAN Configuration**

- Campus buildings are connected via fiber.
- Servers and centralized devices are located at MDF.
- Currently, the District has a 100Mbps Internet connection at the Kingsburg High School campus. The District receives Internet services from FCOE.
- Traffic from the Internet is firewalled by Cisco ASA 5510; Internet traffic is filtered and regulated by Fresno County Office of Education, Barracuda via the District Web/DNS server located in the central MDF.

## **Right to Reject**

The Kingsburg Joint Union High School District reserves the right to accept or reject all proposals or sections thereof when the rejection is in the best interest of the school system. The Kingsburg Joint Union High School District reserves the right to award without further discussion. Therefore, responses should be submitted initially with the most favorable terms the bidder proposes. The Kingsburg Joint Union High School District reserves the right to reject the proposal of a bidder who has previously failed to perform properly or completed on time contracts and to reject the proposal of any bidder who in the opinion of the Kingsburg Joint Union High School District Board of Trustees, is not in a position to adequately perform the contract. The Kingsburg Joint Union High School District Board of Trustees reserves the right to reject any and all proposals, any part or parts of a proposal, waive any technicalities/informalities, increase or reduce quantities, make modifications or specifications, and award any or the entire contract in a manner that is in the best interest of the Kingsburg Joint Union High School District. Contracts will be awarded to the bidder submitting the proposal determined to be in the best interests of the Kingsburg Joint Union High School District.

**ATTACHMENT 'A' INFORMATION FORM (Type or Print ONLY)**

<b>NAME OF COMPANY</b>	
<b>ADDRESS OF HOME OFFICE</b>	
<b>CITY OF HOME OFFICE</b>	
<b>STATE OF HOME OFFICE</b>	
<b>COUNTY OF HOME OFFICE</b>	
<b>9-DIGIT HOME OFFICE ZIP CODE</b>	
<b>PHONE # OF HOME OFFICE</b>	
<b>Federal EIN</b>	
<b>DUNS Number</b>	

**CONTACT Name**

**CONTACT Phone Number**

**CONTACT Email Address**

**By signing below, the bidder acknowledges that the prices listed on this sheet are the prices being bid for this project and represent best value. The bidder acknowledges the price is good for 30 days from the submitted bid date. The bidder also acknowledges that this project is subject to funding availability.**

**PRINTED NAME** \_\_\_\_\_

**TITLE** \_\_\_\_\_

**SIGNED** \_\_\_\_\_ **DATE**

\_\_\_\_\_



## **ATTACHMENT 'B'**

Specifications for the proposed hardware:

- Bidder shall provide a written summary of their proposal as well as drawings of all Kingsburg High School buildings included in the project labeled with the location of each network closet/ IDF and equipment to be installed. Campus map will be provided at time of walk-through which may or may not be used to assist the bidder with summary/drawings. Bidder will verify if the District has enough available patch panel ports in each closet/IDF for their proposed solution.
- Current liability insurance and workers compensation insurance.
- Current documentation of the Bidder's switching and cabling certifications.
- A minimum of three K-12 references for projects of similar size and complexity.

**Site Visit Form**

Date \_\_\_\_\_

Vendor Name \_\_\_\_\_

Contact Name \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

Phone Number \_\_\_\_\_

Email Address \_\_\_\_\_

Check preferred method of contact:  Email  Phone

(Contact information for changes/updates/clarifications)