



ADDENDUM 1

RFP NUMBER:	TE1129 – Video Surveillance Storage Equipment
ADDENDUM NUMBER:	1
ADDENDUM ISSUED:	08/08/2022

I. QUESTIONS & ANSWERS

The following questions are as they were presented to Park Hill School District. The answers to said questions have been answered as completely and accurately as possible.

Q1: Do you want Fiberoptic cables and transceivers on the storage array? Or do you prefer using Twinax/DAC cables to connect storage array to your storage area network switches?

A1: Please include appropriate transceivers for your hardware. We will account for our switch transceivers and fiber optic network cabling.

Q2: What length of cables are needed between storage array and storage area network switches?

A2: We will provide fiber optic cabling.

Q3: What will be the VMS Software writing to the storage target?

A3: This is still to be determined, but will be storage agnostic.

Q4: Is this a new VMS installation or existing? If existing, what was the previous storage device; Make/Model?

A4: This will be a new VMS installation. We will be replacing our current one.

Q5: How many Recording servers are writing to the storage and are these physical or virtual?

A5: Currently approximately 22 virtual servers, but future expansion is expected.

Q6: What is the expected count, make, model and resolution of the cameras supported?

A6: Count, make, and model are currently "TBD". Resolution will be either 1080p or 4K.



Q7: What is the established retention policy of video for the district?

A7: This will be 30 days minimum.

Q8: Who is your Video Surveillance Software (VSS) vendor?

A8: We do not have a current VSS vendor.

Q9: Are the NVR's physical or virtualized?

A9: Our current VMS contains all virtual servers.

Q10: How many cameras are being utilized?

A10: Currently 762, but estimating future growth of up to 900 total.

Q11: What is the camera resolution and bit rate?

A11: Mixture of 1080p and 4K with variable bit rates.

Q12: What is the expected retention period?

A12: 30 days minimum.

Q13: Does PHSD expect the 2PB to be the final capacity or is additional growth expected?

A13: Capability for additional growth would be preferred.

Q14: Is the iSCSI requirement outlined in this RFP being driven by TCP/IP network connectivity or is it being driven by your VSS provider? For ease of deployment, scale and better price performance, would PHSD be open to other TCP/IP based connections? (i.e. NFS/SMB/etc...)

A14: We are requiring iSCSI to stick to our current topology.



Q15: Is the 2 PB requirement of usable storage actually PiB? Or is it really PB (base 10), although TiB (base 2) was used in other places in the requirements?

A15: It's PetaByte when talking about storage capacity, where the other was referenced due to throughput.

Q16: In order to meet the throughput requirements (2.75 GB/s, etc.), some solution options may require multiple devices (like two arrays) to meet this requirement. Is proposing a two-array solution to the requirements acceptable to the School District?

A16: No, we require one system to manage.

Q17: In order to determine proper sizing (especially on the throughput requirement), it is necessary to know such items as average read & write block sizes, as well as the % reads and writes (read/write ration). It is assumed of course that video streaming is predominantly write oriented, but any simultaneous read-back will affect streaming performance, so this ration is still important. Can the School District provide estimates of these values to help with accurate sizing?

A17: Not at this time.



V. ACKNOWLEDGEMENT

Each bidder shall acknowledge receipt of this Addendum No. 1 of Bid No. *TE1129: Video Surveillance Storage Equipment* by his/her signature affixed hereto and shall attach this Addendum to the original bid submitted. Failure to sign and submit this addendum may render your bid Non-Responsive.

Certification by Bidder:

Signature: _____ Date: _____

Title: _____ Company: _____