

Project Owner:	Hudsonville Public Schools
Project Name:	Server, SAN, and Data Center Upgrades
Issue Date:	May 22, 2020

PROJECT QUESTIONS AND ANSWERS

*This document provides answers to questions asked by bidders who have reviewed the **Technology Request for Bid** for the above referenced project.*

Q1: On page 37 section B5, is the 50TB usable capacity of the system not including deduplication and compression?

A: Correct. No form of compression will be acceptable to be assumed as part of the 50TB base requirement.

Q2: In a storage stretched cluster, a witness VM is required to be the arbitrator if network between the DCs becomes unavailable. Typically, the witness resides in a 3rd network domain. Do you have a 3rd site where a witness VM can be installed and running?

A: Yes.

Q3: Is high voltage power (240V) available in all datacenter locations or should we accommodate for 120V?

A: Appropriate power will be provided by owner. Power circuits are not in the scope of responsibility defined for the bidder.

Q4: What PDU outlets are available? Ex. C13

A: Appropriate power will be provided by owner. Power circuits are not in the scope of responsibility defined for the bidder.

Q5: VM Count – Total number of VMs

A: This information is not deemed relevant for the purpose of bid preparation.

Q6: Total vCPUs – Total number of vCPUs assigned across Virtual Machines within the VMGroup

A: This information is not deemed relevant for the purpose of bid preparation.

Q7: Allocated Memory – Allocated memory is the amount of physical RAM the guest has requested from vSphere across all virtual machines.

A: This does not appear to be a question but is a statement. We are not aware of what the reference to a “guest” is, or what information may have been anticipated.

Q8: Used Capacity – Total capacity used across all VMs

A: We are unable to answer this question as it is not specific enough about what capacity is being referenced.

Q9: IOPS 95th Percentile – Used to avoid spikes and outliers

A: This information is not deemed relevant for the purpose of bid preparation.

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END OF QUESTIONS AND ANSWERS #1

Q10: Does Hudsonville have a 3rd site designated?

A: See question #2

Q11: Can Hudsonville confirm that the latency between the two sites is less than 5ms?

A: Yes.

Q12: Requirement of 25GB SFP28 as well as 10GB SFP+ ports. Do the 25GB switches need to be provided or will Hudsonville provide the switches? If provided, please identify the existing switches.

A: 25GB SFP28 and 10GB SFP+ ports are minimum requirements for the servers which are to be furnished. The Owner will provide necessary network switches for connectivity.

Q13: Is there an up-linking requirement? If so, what are the ports and speeds required? Do optics need to be provided for the ToR (Top of Rack) switches and existing core switches?

A: Refer to the bid specifications which provide clear direction related to minimum network port requirements and connector cables.

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