QUESTIONS & ANSWERS
RFB 28097
Network Storage
(SDSTA Response in Blue)

The South Dakota Science & Technology Authority (SDSTA) has received the following questions regarding the posted RFB 28097 at the Sanford Underground Research Facility (SURF) and answered the following questions:

1. What is the current system that is being replaced?   (OEM / Model?) **VxRail hyperconverged storage**
2. Are there any specific challenges with the existing system? **Expansion is limited to maximum drive count and size**
3. Are there any stated objectives or goals for the new solution? **Provide high availability storage and easy expansion of capacity**
4. Is the solution a single system installed in one primary site or is there a requirement for a secondary system for backup and disaster recovery purposes? **Single, primary site**
5. Will Veeam be leveraged for backup and DR of the on-site network storage system? **Yes**
6. What is the NAS to SAN ratio? (i.e. 68% NAS and 32% SAN) **100% SAN**
7. What are the minimum performance requirements (IOPS, MBs Throughput)? **Our storage has low usage so IOPS are low with an average of 100 write, 50 read with burst of up to 500 write and 250 read**
8. What workloads will be run on the new system? **Will be connected to vCenter running on VxRail with standard Microsoft Server workloads such as AD, DNS, DHCP, MSSQL as well as a variety of Linux servers**
9. Is the 60TB of data to be migrated all VMware? If not, can you provide a breakdown of data to be migrated and any other relevant details?   **Yes, all VMware**
10. What is the preferred networking connectivity? **10GbE, 25GbE, 40GbE, 100GbE? 10GbE with option of upgrading speeds in the future**
11. How many ports are required for connectivity? **Minimum 2 per controller for redundancy**
12. What are the Fibre Channel speed requirements? 16, 32, or 64? **Fibre channel is not currently utilized but would like to have the option to use in the future**
13. How many FC ports are required? **None currently**
14. What is the preferred level of support required? For example, 4-hour onsite parts replacement, Next Business Day onsite parts replacement? **NBD**