

#	Question	Answer
1	5 Compute: Should there be 4 or 8 general purpose hosts?	There is a total of 8 hours, 4 in each site (A & B).
2	Would it be acceptable for us to bid on the tender partially, for instance only VMware and backup?	As the offer for compute, storage and VMware is seen as a combined offer, it is not possible to bid on VMware only. Since backup is an option, we allow a supplier to only offer backup. However, SHV reserve the right to outright decline any offer for options.
3	Is CPU Reservation with or without hyperthreading?	The CPU reservation is without hyperthreading
4	Is it allowed to offer a storage that guarantees usable disk space with data deduplication and compression?	Yes, this is possible. In fact, storages with high data deduplication and compression are favoured. However, keep in mind the minimum disk space requirements without deduplication and compression.
5	Apart from All-flash storage and 50/50 read/write, are there any other I/O requirements to the Storage, e.g., IOPS and block size?	Minimum IO requirements: Random 8K 50/50 distribution = 95.000 IOPS Random 8K 100% read = 275.000 IOPS Random 8K 100% write = 50.000 IOPS Throughput 256K seq read = 10GB/s Throughput 256 seq write = 1,5 GB/s
6	How many fibres are available between site A, B and C that are not in use today?	There are enough available fibres available between sites A, B and C. In fact, there is a 96-par fibre-ring between the sites: 96 par fibres between A & B, 96-par fibres between A & C, and 96 par fibres between B & C.
7	If fibre channel is reused, who is responsible for warranty/service of existing SAN switches	The winning supplier must service the SAN switches. Warranty is void.
8	5.1 Minimum requirements for all hosts: What does the Asterix "*" refer to, and how many NIC/port per host is required?	Asterix merely means to "multiple by". In other words, SHV wants two NIC times two ports equal a minimal of 4 ports in each host.
9	5.2.1 Minimum requirements for SQL hosts: SHV wishes 32 cores per hosts, while current Xeon 2637v6 has a total of 8 cores. This is a huge change in cores and license cost. Is this a hard requirement?	SHV is aware of an increase in Microsoft SQL licenses, however, our current SQL hosts experience high CPU load times. Suppliers are welcome to offer an alternative to optimize SQL licensing. The rationale behind the alternative needs to be explained, and if SHV deems the alternative as a good alternative, it will not cost any points in weighting.
10	5.7 VMware: Which version of VMware is SHV running currently? If the version is not 7.0, should the offer include upgrade to version 7 and consultancy hours to conduct the upgrade?	Current VMware version is 6.7 update 2. While not a hard requirement, suppliers are welcome to include upgrade to version 7 including work/consultancy hours.
11	Is it possible to do migration to the new system within normal work hours, 08-16?	An agreement must be made with SHV IT, because a lot of the migration work can be done by the IT department. However, some of the work can be done within normal work hours, e.g., moving non-critical and/or redundant systems. This also includes if CPU chipset is changed from Intel to AMD.
12	Is it possible to do some of the installation through VPN?	Yes, this is possible.
13	What is the minimum length of a possible managed service agreement?	As long as the warranty period with the same extension options.

14	2.2 Scope of delivery: What is the definition about the necessary licenses, can VMware be reused?	For example, all compute nodes need to be properly licensed, eventual fibre channel needs to have the correct number of ports licensed/available to use, etc. VMware can be reused.
15	2.9 Documentation: Additional documentation requirements for reconciliation of delivery should be set?	This is not a hard requirement, but a welcome addition which SHV will a few extra points on.
16	3.2.2: Is data on SMB, NFS or FTP? Can it be migrated?	Data is SMB. Yes, it can be migrated. However, since the data is clinical production data, the migration needs to be carefully planned.
17	5.1: Landssygehuset should be aware, that if AMD is selected for the new hosts, then live migration from the current hosts is not possible, but a reboot of servers is required. Is that ok?	In case of switching from Intel to AMD, a scheduled reboot of servers/VM is OK.
18	7.1: Can other manufacturers than Cisco be used?	SHV prefers Cisco as the entire Network infrastructure is Cisco. However, suppliers can propose an alternative, but this might reflect on the score.
19	9: Are there specific requirements for the OS on the optional backup storage, which is currently an EMC Isilon system?	No specific requirements for the OS
20	10.1: The optional backup storage specifies a proxy with 2 x FC Link to datastore. Can this be changed to iSCSI too?	Yes, the backup storage can be changed to iSCSI.