



Recommended Technical Specifications Standard ADPNet LOCKSS Server

1. Chassis: at least 12 drive bays. Eight bays can be used immediately and four can be kept for future upgrades. The backplane should already be wired for use.

2. Storage capacity: at least 8x4TB drives = approximately 24TB usable storage in RAID 6 or approximately 28TB usable storage in RAID 5. Aiming at 8x4TB should future-proof the network for a while. Expectations about the actual amount of usable storage should be adjusted for RAID 5 or RAID 6 (RAID 6 has built-in tolerance for two-drive failure, but you lose the capacity of an additional drive).

Software RAID is acceptable. Controller cards should be compatible with more than 2.2 TB HDD. This should be the case with any system integrator's product with 8x4TB.

3. Memory (RAM): 16GB (memory is cheap, so vendors will probably go up to 32GB).

4. Processor. This is the great unknown. MetaArchive recommends the Intel Core i7 (quad core). CLOCKSS recommends Dual Xeon E5504 (eight cores) for production machines. More information:

- (Dual CPU) Xeon E5504: http://ark.intel.com/products/40711/Intel-Xeon-Processor-E5504-4M-Cache-2_00-GHz-4_80-GTs-Intel-QPI
- The Xeon E5504 is a member of the Intel Xeon Processor 5000 Sequence: <http://ark.intel.com/#@Processors>
- Intel doesn't call the Core i7 processor a server CPU. It is hard to know which Core i7 to compare (https://www.cpubenchmark.net/cpu_list.php).

5. Redundant Power Supply.

Again, these are the recommended specifications. Please contact adpnet@auburn.edu if you have questions.

(April 2015)