

**State of Iowa – Judicial Branch
Request for Quote – Project ID # 042008NBU– Questions & Answers
Posted 5/22/08**

Due Date For Vendor Quotes: May 23, 2008 by 15:30 Central Daylight Time
Send Quotes To: Mark.Headlee@jb.state.ia.us

Questions submitted by vendor

1. In the RFQ it states “Ability to backup VMware, Windows, Linux, and AIX systems, along with Lotus Domino (on Windows and Linux), Oracle (On Windows, AIX, and Linux/Itanium) and MSSQL databases while they are running.” And it also states “Integration with RMAN to provide direct backup of Oracle RAC Flash Recovery Area”.

To provide an accurate quote, we need to know how many VMware servers, how many Windows, Linux and AIX systems. For each of these systems we also need to know the CPU count. In addition, for the database agents such as Domino, SQL, etc., we need to know which databases are running on each of the hosts listed above.

**A list of the physical systems and their functions was posted in a previous Q/A section on the web site. This information can be found here:
<http://www.iowacourts.gov/wfdata/frame6547-1153/File5.pdf>.**

Please disregard the 7025-F50 running AIX 4.3.2, as it is out of scope for this project. All servers have two physical processors with the exception of six (6) of the HP Integrity rx4640s, which have 4 processors, and three (3) of the AIX/System P servers, which have 4 processors.

Systems running Oracle RAC are also listed in the above document.

2. In the RFQ it states “Domino integration to support backup of partitioned Lotus servers and Lotus clustering”. Details of the partitions and servers involved in the Cluster are needed.

Three Gateway E-9245R systems with 2 processors each are set as a Lotus Notes cluster. Each has a 500GB SAN partition used to store data (address books, mail files, etc). Data is mostly identical across all three of these partitions. One additional E-9245R system is partitioned into separate SMTP IN and OUT instances.

3. In the RFQ it states "Integration with VCB to support full vmdk as well as single file restores in ESX 3.5 VMs". Details as mentioned above about the VMware environment. Which VMware servers require which function such as full vmdk vs. single file?

We currently have four (4) ESX 3.5 hosts configured in two clusters of two hosts. One at each of our sites. All four of the systems require both full VMDK and File Level backup of all hosted VMs.

4. In the RFQ it states "Approximate total data backed up will be 2TB (for a full backup of all eventually attached systems) if capacity based licensing is available. Please provide costs of adding capacity for the future". Any requirements for Disk-to-disk backup? If so, how much capacity? How many tape drives must be supported?

No, plan is to go direct to tape. The option of adding disk to disk in the future would not be a negative, but is out of the scope of this project. Minimum support would be for the two dual drive libraries included in the RFQ. Cost for additional drive and library licenses would be welcome.

5. The servers outlined in <http://www.judicial.state.ia.us/wfdata/frame6547-1153/File5.pdf> does not reflect if they are physical or virtual.

All listed servers are currently physical servers. Some of them may be converted to Virtual Machines in the future. We have Four (4) VMware hosts currently to account for any VMware Agent licensing.

6. What do you have existing for Backup currently?

Current Backup environment consists of SysBack/TSM on the AIX machines with locally attached Tape Drives. HP Data Protector for the Oracle RAC systems with a dual drive LTO 3 tape library (HP MSL 6030). Majority of the Windows systems are currently running Symantec Backup Exec with local tape drives, though there are a few using remote agents and a single drive LTO3 Autoloader (Quantum SuperLoader3).

7. What is the preferred method of backing up ESX servers?

We have shared storage, and specified in the RFQ that we wanted a solution that would integrate with VCB. Exact wording from the RFQ is: "Integration with VCB to support full vmdk as well as single file restores in ESX 3.5 VMs."