



NORTH CAROLINA COMMUNITY COLLEGE SYSTEM
H. Martin Lancaster, President

March 9, 2007

MEMORANDUM

TO: Business Officers
System Administrators
CIS Project Managers

FROM: Sandra W. Williams
Vice President for Administration

SUBJECT: College CIS Equipment Upgrades

As you may recall, Numbered Memo CC06-295 (attached) provided information about the CIS Release 18 Migration Project and stated that any required upgrades of the college's CIS server equipment must be completed by June 2007.

We have been advised by the vendor that holds the State Contract for Sun Microsystems equipment and software, Alphanumeric Systems, Inc., that any orders for upgrades and/or replacement servers must be placed by April 1, 2007 so that there will be sufficient time to process the order, deliver and install the equipment by June 30, 2007.

Alphanumeric Systems has assigned marketing representatives for each community college. In addition, Ms. Kelly Spaulding has been assigned to assist and coordinate the efforts of the Alphanumeric Systems staff to ensure that all colleges have the required upgrades and replacement equipment. Her contact information is:

Kelly Spaulding
Sales Executive
kspaulding@alphanumeric.com
Telephone: 919-376-4528

Please let me know if you have any questions about this issue or the Release 18 Migration project.

RRB:SWW:sh

Attachments

cc: Community College Presidents
President H. Martin Lancaster
Mr. Fred G. Williams
System Office Vice Presidents
Mr. Bob Blackmun
Mr. Bruce Humphrey
Mr. Chris Cline
Mr. Arthur Hohnsbehn

CC07-062
Email



NORTH CAROLINA COMMUNITY COLLEGE SYSTEM
H. Martin Lancaster, President

December 22, 2006

MEMORANDUM

TO: Business Officers
System Administrators
CIS Project Managers

FROM: Saundra W. Williams
Vice President for Administration

SUBJECT: Colleague Release 18 Migration Project and College Equipment Upgrades

The purpose of this numbered memo is to provide guidelines for equipment upgrades for the College Information System (CIS) Release 18 Migration Project. The information concerning the requirements and timing of equipment upgrades has been previously distributed to the System Administrators and the CIS Project Managers. I have also distributed consistent information to the college presidents. Because there are additional questions and concerns about the need for equipment upgrades to support CIS/Colleague Release 18, I am providing the attached information to assist in your planning.

The most important points are:

- If your college's current CIS server has adequate processing and data storage capacity to meet your college's current and projected needs through 2007, then no upgrade is required.
- If your college's current processing and/or data storage capacity is not adequate, then all upgrades must be completed by June 2007 so that any problems associated with the upgrade are resolved by the time your college must migrate to CIS Release 18. (For the six R18 Pilot colleges, the applicable date is February 2007.)
- If your college plans to upgrade your servers to support other information technology objectives, such as providing a comprehensive data backup solution for your college, those upgrades must also be completed by June 2007 to avoid any potential conflict with the Release 18 migration schedule.

In order to assist the collaborative efforts of the college System Administrators and/or the IT Director/Manager and the college Business Officers, I have attached the R18 Migration Project Equipment Upgrade Guidelines. Please review this document to

CC06-295
Email

Business Officers, et al.
Page 2
December 22, 2006

determine the requirements and resources and to develop a plan to ensure that your college has the required capacity not later than June 2007.

Please let me know if you have any questions about this issue or the R18 Migration project.

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Attachments

cc: Community College Presidents
President H. Martin Lancaster
Mr. Fred G. Williams
System Office Vice Presidents
Mr. Bob Blackmun
Mr. Bruce Humphrey
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Mr. Arthur Hohnsbehn

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College Information System (CIS) Release 18 Migration Project Equipment Upgrade Guidelines

1. Memory and CPU requirements

If the current CIS server is comfortably handling demand at medium to peak periods, then no upgrade is required. If additional capacity is needed, the four configurations at the end of this document provide options that will meet the needs of the majority of colleges.

2. Disk Storage requirements

If the current CIS server has sufficient capacity (as indicated below) for the Release 18 software and data, or can be increased by means of additional disk drives, then no major replacement should be necessary providing that the 'production' CIS system under Release 18 will have a minimum of 5 disk drives for data if a RAID configuration is used. If the current server does not have or cannot be upgraded to provide sufficient disk storage capacity, it may need to be replaced with one of the configurations shown at the end of this document. It should be noted that configurations 1. and 2. provide sufficient disk storage for CIS for all but the very largest colleges. Configurations 3. and 4. are intended to provide sufficient disk storage to meet college needs to back up data from other servers.

3. Usable Storage Configuration Factors

- Operating System (RAID 1) 36 GB
- Data + Colleague Application (RAID 5 or better) Client Specific
- Minimum Channels 2
- Minimum number of Disks 7
- DVD Reader Required

The algorithm for calculating the minimum size needed for the Data Array is: multiply your current dataset size by 9 then add 35 GB for the Colleague application. A minimum of 7 disks are recommended. The disks are allocated: 2 for the operating system and 5 for the database in a RAID 5 configuration. (3 disk RAID 5 configurations are too slow for the Colleague application)

4. Examples

Assumptions:

- all calculations assume a 25% growth factor

- R18 Software Repository: 10 GB
- Live Environment ((size of COLLIVE current + 6 GB live17) *1.25)
- Test Environment (COLLIVE current + 6 GB test17)*1.25)
- Dev Environment (COLLIVE current + 6 GB test17) *1.25)

1. Small college: COLIVE = 4 GB, therefore Live, Test & Development Environments would each require $(4 + 6 = 10) \times 1.25 = 12.5$ GB plus 10 GB for the software repository for a total of 47.5 GB
2. Medium/Large college: COLIVE = 18 GB, therefore Live, Test & Development Environments would each require 30 GB plus 10 GB for the software repository for a total of 100 GB

5. Summary of CIS Server Configurations

1. V490 w/2 Sparc IV+, 8 GB memory, 5-disk - 365 GB RAID & small LTO tape: \$50,142 (w/o SAR or promo's)
2. V490 w/2 Sparc IV+, 16 GB memory, 5-disk - 365 GB RAID & LTO tape autoloader system: \$61,236 (w/o SAR or promo's)
3. V490 w/2 Sparc IV+, 16 GB memory, 16-disk - 2,336 GB RAID: \$84,182 (w/o SAR or promo's)
4. V890 w/4 Sparc IV+, 16 GB memory, 16-disk - 2,336 GB RAID, LTO tape autoloader system: \$105,517 (w/o SAR or promo's)