HigherEd Analytics Server Specification (Version 3.x)

Hardware Requirements

<table>
<thead>
<tr>
<th></th>
<th>Recommended</th>
<th>Minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>2 - 4 processors</td>
<td></td>
</tr>
<tr>
<td>Operating System</td>
<td>Windows 2003 Server</td>
<td></td>
</tr>
<tr>
<td>RAM</td>
<td>4 - 8 GB</td>
<td></td>
</tr>
</tbody>
</table>

Notes:
- Actual server configuration should be based on thorough analysis of DW sizing, performance requirements and DW usage profile.
- HigherEd Analytics requires a dedicated server.
- The application server and database server can run on the same hardware server or separate servers. Unless very high concurrent users are anticipated, we recommend starting with a single server. The application can be later deployed on multiple server tiers.
- No specific RAID or drive setup is required since the database is not highly transactional; however, the faster the disk the better.
- Between processor, RAM and disk I/O, I/O is the greatest constraining factor in load performance. The faster the disk, the faster the load time.
- Other factors that can influence hardware sizing requirements include number of years of source data history, number of iStrategy modules implemented, number of concurrent reporting users and the processing window.
- Based on experience, more than four (4) processors does not appear to provide any improvement in load time.

Sample Sizing Profiles (based on SQL Server 2000 version of HigherEd Analytics Student)

<table>
<thead>
<tr>
<th></th>
<th>5,000 Students/ Full Daily Refresh</th>
<th>20,000 Students/ 10 Year Daily Refresh</th>
<th>20,000 Students/ 8 Year Daily Refresh</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processors</td>
<td>2</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>RAM</td>
<td>4 GB</td>
<td>8 GB</td>
<td>8 GB</td>
</tr>
<tr>
<td>Disk Type</td>
<td>Local</td>
<td>Fiber SAN</td>
<td>Local</td>
</tr>
<tr>
<td>Daily Load Time</td>
<td>2 Hours</td>
<td>5.5 Hours</td>
<td>6 Hours</td>
</tr>
</tbody>
</table>

Software Requirements

SQL Server 2005 Enterprise Edition with SP2
Analysis Services 2005 Enterprise Edition with SP2
Microsoft IIS Web Server

Note: For PeopleSoft customers using Oracle, the Oracle Client Tools pack must be installed.

Disk Space Requirements Example

Student Count 20,000
# of Years in Warehouse 10

Total DW Space Required 30 GB
Log File 20 GB
Total Program and Other Files 34 GB

Total HEDW Space Required 84 GB
Recommended Minimum Disk: **200 GB**

Notes:

- Based on the new design for SQL Server 2005, we expect to see some performance improvements in load time; however, at this time we have no official benchmarks.
- SQL Server 2005 may enable additional performance improvements through additional processors (i.e., more than 4) and additional memory.