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TITLE: Agile Advantage 2006 – System Requirements for Customer Deployments		
REVISION: 2.0	OWNER: Michael Mood	



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1. Purpose

The purpose of this document is to outline the server hardware and software requirements to deploy the Agile Advantage 2006 suite.


The following are recommended hardware configurations for the Agile Advantage 2006 system. These requirements are based on recommendations listed in the Agile Installation and Maintenance Guide and have been verified in the field. Note that these requirements are not appropriate for 8.0x, 8.5x or Agile Advantage 2005 deployments.

2. What's New Since Agile Advantage 2005

- Required Sun Java JDK SE is release 1.5.0_06 or later.
- Required Apache Tomcat version is 5.5.16 or later.
- Required Web Server either Microsoft IIS 5.X/6.X and Apache 2.X
- Oracle 10g Standard Edition (SE) Release 2 (R2) replaces Oracle 8i (8.1.7.0) as the supported database platform.
- Optional Advanced Document Management module allows for full text searching of documents in the Agile Advantage iFS vault.
- Agile Advantage Server components support Windows Server 2003 Standard Edition (SP1)

3. Important Notes

- Agile Advantage computers and databases should be dedicated to Agile Advantage and should not have other software installed, unless otherwise specified. Do not attempt to include other database schema or use the Agile Advantage host server as the primary domain controller (PDC), Active directory server or dynamic host configuration protocol (DHCP) server.
- All Servers require TCP/IP networking and statically assigned addresses.
- Disk compression must be disabled on Agile Advantage computers.
- Agile Advantage server components only support 32 bit platforms. There is no support for 64 bit platforms or operating systems.
- Agile strongly recommends that customers install two environments: a test environment and a production environment. Test environments can typically be installed on a single server configuration, as they typically do not require the same performance capabilities of a production environment.
- Dual processor servers are not required, but can optionally be used for to give an additional performance capability. Purchasing dual capable servers provides you added flexibility to add these additional processors when needed.
- SAN or NAS Storage is supported for iFS file vaults, but is not supported for Oracle storage. Oracle storage must be local to the database server.
- Customers utilizing the Agile Advantage web client should install Apache Tomcat proxies for all users (internal or external) to maximize performance and security of the Agile Advantage system.

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4. Supported Configurations


Please see the following table to determine the correct server configuration for your environment. Remember to plan for complete life-time of the server when selecting a configuration. Example: If you plan on using your servers for 3 years, and today you are a Small Configuration, but next year you plan on adding 10 users and ADM, select the configuration that will support the future needs.

Configuration	Concurrent Users	Number of Items / Documents	Size of Database Dump File	Advanced Document Management
Small (Single Server)	<25	<50,000	<300 MB	No
Small+ADM	<25	<50,000	<300 MB	Yes
Medium	>25	>50,000	300 MB – 1 GB	No
Medium+ADM	>25	>50,000	300 MB – 1 GB	Yes

5. Requirements for Remote Access to the Agile Web Client

To allow remote connectivity to the Agile web client, Agile recommends installing an additional server in your network DMZ to proxy connection to the Agile web server.

- Server Hardware
 - Does not need to be dedicated to Agile Advantage
 - Single Processor 733 MHz CPU or higher
 - 1 GB RAM
 - 18 GB Disk Space
- Server Software
 - Windows Server 2003 Standard Edition with the latest certified Service Pack
 - Web Server (Apache 2.X or IIS 5.X/6.X)


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6. Small (Single Server) Configuration

Servers Required: 1	Agile Application Server
Operating System	Windows 2003 Server SE SP1
Memory	4 GB
Storage	2 Logical Partitions (C: 15 GB, D: 40 GB) *** See IFS Storage Planning Section
Processor	Single Processor 2.4 GHz CPU or higher
Products Installed	Agile Advantage (eHub, iFS, Listener, Agile Web Server, ChangeCAST), Oracle 10g R2, Sun Java JDK 1.5.0, Apache Tomcat 5.5
Web Server	IIS 5.X/6.X or Apache 2.X

7. Small + Advanced Document Management (ADM) Configuration

Servers Required: 2	Agile Application Server	Database Server
Operating System	Windows 2003 Server SE SP1	Windows 2003 Server SE SP1
Memory	2 GB	2 GB
Storage	2 Logical Partitions (C: 15 GB, D: 40 GB) *** See IFS Storage Planning Section	2 Logical Partitions (C: 15 GB, D: 40 GB) *** See IFS Storage Planning Section
Processor	Single Processor 2.4 GHz CPU or higher	Single Processor 2.4 GHz CPU or higher
Products Installed	Agile Advantage (eHub, iFS, Listener, Agile Web Server, ChangeCAST), Sun Java JDK 1.5.0, Apache Tomcat 5.5, Oracle 10gR2 Client	Oracle 10g R2
Web Server	IIS 5.X/6.X or Apache 2.X	N/A


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8. Medium Configuration

Servers Required: 2	Agile Application Server	Database Server
Operating System	Windows 2003 Server SE SP1	Windows 2003 Server SE SP1
Memory	2 GB	2 GB
Storage	2 Logical Partitions (C: 15 GB, D: 80 GB) *** See IFS Storage Planning Section	2 Logical Partitions (C: 15 GB, D: 80 GB) *** See IFS Storage Planning Section
Processor	Single Processor 2.4 GHz CPU or higher (Dual Processor Optional)	Single Processor 2.4 GHz CPU or higher (Dual Processor Optional)
Products Installed	Agile Advantage (eHub, iFS, Listener, Agile Web Server, ChangeCAST), Sun Java JDK 1.5.0, Apache Tomcat 5.5, Oracle 10gR2 Client	Oracle 10g R2
Web Server	IIS 5.X/6.X or Apache 2.X	N/A

9. Medium + Advanced Document Management (ADM) Configuration

Servers Required: 2	Agile Application Server	Database Server
Operating System	Windows 2003 Server SE SP1	Windows 2003 Server SE SP1
Memory	2 GB	4 GB
Storage	2 Logical Partitions (C: 15 GB, D: 80 GB) *** See IFS Storage Planning Section	2 Logical Partitions (C: 15 GB, D: 140 GB) *** See IFS Storage Planning Section
Processor	Single Processor 2.4 GHz CPU or higher (Dual Processor Optional)	Single Processor 2.4 GHz CPU or higher (Dual Processor Optional)
Products Installed	Agile Advantage (eHub, iFS, Listener, Agile Web Server, ChangeCAST), Sun Java JDK 1.5.0, Apache Tomcat 5.5, Oracle 10gR2 Client	Oracle 10g R2
Web Server	IIS 5.X/6.X or Apache 2.X	N/A

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10. Distributed iFS Deployments

Distributed iFS Machines

- Server Hardware
 - Single processor 2.4 GHz CPU or higher
 - 2 GB RAM
 - 60 GB Disk Space*** See IFS Storage Planning Section
 - Two logical drives preferred
- Server Software
 - Windows Server 2003 Standard Edition with the latest certified Service Pack
 - Agile Advantage File Server (iFS)
 - Agile Advantage Web Server (Optional)
 - Web Server: IIS 5.X / 6.X or Apache 2.X (Optional)


11. iFS Storage Planning

iFS storage requirements vary by customer. All the above storage requirements can and will change depending on your particular use of the system. This depends on a number of factors including the number of files attached, the number of retained versions, and size of the attachments. In addition, if you plan on using the full text search capability of Advanced Document Management, this will impact on the size of your database storage requirements. It is possible to start out with less available space and add more on an as-needed basis.

The above configurations allow for 30 GB of iFS storage on a Small Configuration and about 60 GB of iFS storage for a Medium Configuration. You can always add additional storage over time and Agile supports NAS and SAN configurations for iFS Storage. NAS and SAN are not supported for database storage.

For existing users upgrading to Agile Advantage 2006, you can look at the size of your current iFS vault and usage (the number / size of files attached each year) and extrapolate what the required storage will be over the life of your server.

New customers will need to examine the number and size of documents they plan on attaching to a system and project additional usage over the life of the server. Agile recommends taking this number and multiplying by 1.5 to cover additional versions / revisions of documents.

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12. RAID Recommended Fault Tolerance Option

Agile recommends that customer implement local RAID for optional fault tolerance, especially on the critical servers (Agile Application Server and Database Server). RAID requirements will increase the number of disks and storage required.

Agile recommends RAID 1 or 5 for the Agile Application Server

Agile recommends RAID 1, 5 or 10 for the Database Server

13. Disaster Recovery

Agile recommends that customers plan their disaster recover and backup needs with an Agile Certified Engineer. You should have plans for:

- o Rebuilding the Agile Environment due to a server failure or complete loss of system and facilities.
- o Nightly backups of the Agile Advantage database and iFS file vault. Consider information retention and off-site storage requirements in your planning.
- o Oracle backups can be performed by a simple nightly extract written to tape or remote storage, or by purchasing additional 3rd party tools that support Oracle 10g R2 hot backups.

Please see the Agile Installation and System Maintenance Guide, Appendix B for more information on System Backup Requirements.

14. Requirements for Running Client Components

To run efficiently, Agile Advantage client components running on Microsoft Windows require a Winsock-compliant TCP/IP computer with Windows 2000 Professional Service Pack 4, or Windows XP Professional (Service Pack 2), or Windows Server 2003 Standard Edition (Service Pack 1). The table below lists additional client hardware requirements.

Hardware	Minimum
CPU	400 Mhz
RAM	256 MB
Storage	200 MB

Note: Agile Advantage 2006 Web Clients require Microsoft Internet Explorer 6.0 Service Pack 1 or later.



15. Typical Network Configuration

Typical Agile Advantage 2006 Network Deployment

