



WebAbacus Server Specification

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Overview

In order to gain the maximum performance benefits from the WebAbacus platform, careful consideration should be taken when selecting the hardware on which the software will run.

This document outlines the minimum and recommended specifications for WebAbacus client deployment. It is, however, highly recommended that any implementation be treated on a case by case basis. The main governing factor which will influence your choice in hardware will be the volumes of traffic to be processed, but can also be affected by the following:

- Overall site traffic (Page Views/Impressions, Visits, and Unique Visitors);
- Number of sites to be processed;
- Complexity of data to be processed;
- Complexity of reporting requirements;
- Number of users accessing the reporting interface;
- Frequency of data processing;
- Level of integration with other data systems.

WebAbacus Interface Users (Both Admin & User)

WebAbacus is a web based application, with most configuration tasks and the reporting interfaces accessible through a standard web browser on a client machine.

Below is the minimum specification for a client machine used to access either the administration or reporting interfaces.

- Intel Pentium 4 2.0GHz or equivalent processor
- 256Mb RAM or greater
- Microsoft Windows 2003, XP, Vista or equivalent generation OS.
- Microsoft IE6.x, FireFox 1.5 (or Netscape 6) with Java 1.4 plugin*

*Java plugin is for Traffic Visualisation module only, but comes as standard with all WebAbacus solutions.

WebAbacus Server (Data Processing)

The WebAbacus tool is predominantly a data mining tool, and the server specifications required to run the software, are highly dependant upon the volumes of data to be processed. The table below outlines the minimum and recommend server specifications:

	Minimum	Recommended	High Volume
CPU	Dual Processor 3.0 GHz CPUs (e.g. Intel Pentium D, Intel Core Duo, AMD Athlon)	Dual Processor 64-bit CPUs (e.g Intel Xeon, or AMD Opteron 64).	4 or 8 Core 64-bit Processor (e.g. Intel Xeon, or AMD Opteron 64).
Memory	4GB	8GB	32GB
Storage	320 GB Serial ATA II (dual partition: OS and Data)	500GB RAID 5 (dual Partition: OS and Data)	4TB Site Area Network

Platform/OS: Any Operating System that supports Java 2 Runtime Environment (JRE 1.5.x). WebAbacus has been installed in operational environments on Linux, HP-UX, Solaris, Windows and Mac OSX, and has been tested on AIX and AS/400 (xSeries).

Below is an example configuration for a site with approximately 20 million Page Views per month:

- Processor(s): Dual Intel Xeon Dual-Core processors 1.87GHz with 4MB L2 cache
- Memory: 12GB DDR2 (6 x 2GB)
- Disks: 3 x320GB Serial ATA II, 3Gb/s, 7200 rpm (16mb cache)
- RAID Configuration: C9 RAID 1 and 5 arrays
- Network Card(s): Intel® 1000MT Copper Dual-Port Gigabit NIC
- Factory OS: Red Hat Linux

For higher traffic sites, we would recommend;

- Processor(s): Quad Intel Xeon Dual-core 64-bit processors 3.33 GHz with 8MB L3 Cache
- Memory: 32GB DDR2-400 (8 x 4GB)
- Disks: 6 x 300GB Ultra320 15,000 rpm OR access to Site Area Network (SAN) via fibre channel.
- RAID Configuration: C9 RAID 1 and 5 arrays
- Network Card(s): Intel® 1000MT Copper Dual-Port Gigabit NIC OR Fibre
- Factory OS: Red Hat Linux

WebAbacus Tag server (Data collection)

There are four main options for data collection, all of which are supported by WebAbacus;

1. Raw Web logs – derived directly from the relevant web server
2. Tag logs – derived from client site tags/beacons/monitors placed on the web site. For more details please contact Foviance
3. Hybrid analysis – Data are derived from a combination or both tag logs and raw logs.
4. Network sniffing – derived from a separate box monitoring the network traffic to and from the web servers.

Each of the above methods has positive and negative aspects, and we would recommend that each option is discussed in depth before implementation.

If the client wishes to implement Client Side tagging then we again recommend the below specification based on our clients who have high traffic volume. We can assess the hardware requirements on an individual basis should this be required.

- Processor(s): Dual processor 3.0GHz with 1MB cache
- Memory: 4GB DDR SDRAM (4x1GB)
- Storage Configuration: RAID5 arrays
- Network Card(s): Intel® 1000MT Copper Dual-Port Gigabit NIC
- Factory OS: Microsoft Windows 2003 running IIS 6.0 Web Server

Contact Details

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