



MINIMUM HARDWARE REQUIREMENTS

Attendance ENTERPRISE® v1.5

The following information is provided as a guideline for required and recommended operating environments to make your *Attendance ENTERPRISE®* system function and perform properly. Server requirements are in direct proportion to the number of system users and employees--the larger the number, the higher the recommendations. There are many factors that can affect performance, so please contact C.T.E. Systems Inc. if you are not sure about your requirements. Meeting the minimum requirements or recommendations does not guarantee performance. CTE Systems does not supply nor service these items. It is the responsibility of the customer to ensure the equipment listed is available and operating correctly prior to the installation of your Attendance Enterprise System.

Attendance Enterprise® System Requirements

Front End Client	<ul style="list-style-type: none"> • Compatible with Internet Explorer 6.x or above • Runs on Windows 98SE/NT(SP6)/2000/XP Professional Edition
Web Server	<ul style="list-style-type: none"> • Windows 2000 / Windows 2003/ Windows 2008 server • Microsoft IIS
Database	<ul style="list-style-type: none"> • Microsoft SQL Server 2000/2005/2008
Server Platforms	<ul style="list-style-type: none"> • Microsoft Windows NT(SP6)/2000/2003/2008 server
E-mail	<ul style="list-style-type: none"> • Microsoft Outlook/Outlook Express

Minimum Client workstation Requirements: *(For Client-Server configuration, with MSDE/SQL installed on server)*

- Intel Pentium II 200 MHZ or higher (Recommended PIII 500MHZ)
- Microsoft® Windows 98SE/NT(SP6)/2000/XP Professional/Vista (except Home Basic)
- 128 MB RAM (Recommended 256 MB RAM or above)
- Hard disk space requirement:
 - Attendance Enterprise Client Software--85 MB
- CD-ROM drive
- Super VGA monitor (800x600) (1024x768 recommended)
- Microsoft mouse or compatible pointing device
- ADO 2.6 or above

Minimum Client workstation Requirements: *(For Client software and Microsoft MSDE installed on workstation)*

- Intel Pentium III 500MHZ (Intel Pentium III 1GHZ for SQL 2005 Express)
- Microsoft® Windows 98SE/NT(SP6)/2000/XP Professional (XP Professional SP2 for SQL 2005 Express) /Vista (except Home Basic)
- 128 MB RAM (Recommended 256 MB RAM or above) (512 MB Ram minimum for SQL 2005 Express)
- Hard disk space requirement:
 - Attendance Enterprise Client Software--85 MB
 - Microsoft MSDE--100 MB
 - Microsoft SQL 2005 Express – 350 MB
- CD-ROM drive
- Super VGA monitor (800x600) (1024x768 recommended)
- Microsoft mouse or compatible pointing device
- ADO 2.6 or above

Minimum Web Client workstation Requirements: *(Manager Self Service/Employee Self Service Client)*

- Microsoft® Windows 98SE/NT/2000/XP Professional/Vista (except Home Basic)
- Microsoft® Internet Explorer 6.x or higher
- Super VGA monitor (1024x768)
- Microsoft mouse or compatible pointing device

Minimum Dedicated SQL Server Requirements: (250 employees and 5 concurrent users. Over 250 employees or 5 concurrent users, consult C.T.E. Systems, Inc.)

- Intel Pentium III 1.4 GHZ or higher
- Single processor
- Microsoft® Windows NT/2000/2003 server (Microsoft® Windows 2000 SP4/2003 server for SQL 2005 Express)
- Microsoft® SQL 2000 or higher
- 256 MB RAM (Recommended 512 MB RAM or above) (512 MB Ram minimum for SQL 2005 Express 1G recommended)
- Hard disk space requirement: 1G
- CD-ROM drive
- Super VGA monitor
- Microsoft mouse or compatible pointing device

Minimum Dedicated Web Server Requirements: (250 employees and 5 concurrent users. Over 250 employees or 5 concurrent users, consult C.T.E. Systems, Inc.)

- Intel Pentium III 1.0 GHZ or higher
- Single processor
- Microsoft® Windows 2000/2003/2008 server
- Microsoft® Internet Information Server (For Manager Self Service or Employee Self Service web access)
- 256 MB RAM (Recommended 512 MB RAM or above)
- Hard disk space requirement: 1G
- CD-ROM drive
- Super VGA monitor
- Microsoft mouse or compatible pointing device

Minimum Dedicated Application Server Requirements: (Recommended for databases over 1,000 employees. Over 1,000 employees or 5 concurrent users, consult C.T.E. Systems, Inc.)

- Intel Pentium III 1.4 GHZ or higher
- Single processor
- Microsoft® Windows NT/2000/2003/2008 server
- 256 MB RAM
- Hard disk space requirement: 1G
- CD-ROM drive
- Super VGA monitor
- Microsoft mouse or compatible pointing device

Note: *If the same server is being used for Microsoft SQL and IIS server or other applications, the minimum requirements need to adjust accordingly.*

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