CERNER WORKSTATION MINIMUM REQUIREMENTS

These specifications do not take into account the resources or requirements of non-Millennium applications, emulators, etc. These specifications are for general purpose end user and do not take into account the special or additional needs of document imaging, PACS, or other specialty use cases.

I. Cerner Clinical Workstation Requirements (FAT Client)

A. Minimum Requirements

The following lists the minimum system requirements for a clinical workstation running a local installation of Cerner Millennium:

- Intel-based, midrange workstation
  Note: As of 07/16/2006, the midrange workstation is an Intel Pentium processor 2.53 GHz or greater.
- PCI or AGP Video Controller
- 1 GB memory
- 30 GB Hard Drive (4 GB disk space for local Cerner application code installation)
- Graphics resolution of 1024 x 768 at a depth of 16 million colors
- 10/100 Ethernet network card
- Winsock 1.1 or higher compliant TCP/IP protocol stack
- 101key keyboard and mouse or equivalent
- Microsoft Windows XP Professional, Service Pack 2

B. Recommended Requirements

The following list details the recommended system requirements for a clinical workstation running a local installation of Cerner Millennium:

- An Intel-based, high-end workstation
  Note: As of 07/18/2006, the high-end workstation is an Intel Pentium 3.80 GHz or higher.
- AGP or PCI Express Video Controller
- 2 GB memory
- 160 GB Hard Drive (4 GB disk space for local Millennium application code installation)
- Graphics resolution of 1024 x 768 at a depth of 16 million colors (or higher)
- 10/100 Ethernet network card
- Winsock 1.1 or higher compliant TCP/IP protocol stack
- 101key keyboard and mouse or equivalent
- Microsoft Windows XP Professional, Service Pack 2

II. Cerner Clinical Thin Client Workstation Requirements (Thin Client PC)

A. Minimum Requirements

The following list details the minimum system requirements for a clinical workstation connecting as a Citrix client:

- 1 GHz processor or greater
- 512MB memory
- Internet Explorer Version 6.0, Service Pack 2 or later
- Microsoft mouse or 100% compatible mouse
- SVGA video adapter capable of displaying 1024 x 768 at a depth of 16 million colors
  Note**:** To publish a desktop through Citrix or Terminal Services (which is not full screen), local workstation resolution must be higher than 1024 x 768 to allow for the usable session screen

real estate to meet the minimum requirement for Cerner Millennium applications.

- 12 MB available hard drive space for Citrix client install
- Windows compatible sound card for sound support (optional).
- A network interface card (NIC) and TCPIP stack.
- Microsoft Windows Windows XP Operating System

If Client is using the ICA Win32 Web Client or connecting using the Citrix Web Interface (formally NFuse) with a web browser, the client device must run a standard web browser, Internet Explorer 6.0 Service Pack 2 or greater. For more information on Internet Explorer Technology updates, please consult the Technology flashes on Cerner.com.

If Client is using the ICA 32bit Web, Program Neighborhood, or Program Neighborhood Agent clients, it is recommended that Client use ICA client version 9.237 or higher.

B. Recommended Requirements

The following list details the minimum system requirements for a clinical workstation connecting as a Citrix client:

- Intel-based, midrange workstation
  Note: As of July 16, 2006, the midrange workstation is an Intel Pentium processor running at 2.53GHz or greater.
- 1GB RAM
- 30GB hard drive
- Internet Explorer Version 6.0, Service Pack 2 or later
- Microsoft mouse or 100% compatible mouse
- Graphics resolution of 1024 x 768 at a depth of 16 million colors
  Note: To publish a desktop through Citrix or Terminal Services (which is not full screen), local workstation resolution must be higher than 1024 x 768 to allow for the usable session screen real estate to meet the minimum requirement for Cerner Millennium applications.
- 10/100 Ethernet network card
- Winsock 1.1 or higher compliant TCP/IP protocol stack
- 101key keyboard and mouse or equivalent
- Microsoft Windows XP Professional, Service Pack 2

III. Cerner Thin Client Device Requirements (Thin Client, dumb device)

A. Minimum Requirements

The following list details the minimum system requirements for a thin client device connecting to Cerner solutions through Citrix or Terminal Services:

- 1 GHz processor or greater
- 512 MB of RAM
- 512 MB of Flash Disk space
- Internet Explorer Version 6.0 SP1 or later
- 101key keyboard and mouse or equivalent
- Graphics resolution of 1024 x 768 at a depth of 16 million colors
- A network interface card (NIC) and TCP/IP stack
- Embedded Microsoft Windows XP Operating System

B. Recommended Requirements

The following lists the recommended system requirements for a thin client device connecting to Cerner solutions through Citrix or Terminal Services:

- 1 GHz processor or greater
- 1 GB of RAM
- 512 MB of Flash Disk space
- Internet Explorer Version 6.0 SP1 or later
- 101key keyboard and mouse or equivalent
- Graphics resolution of 1024 x 768 at a depth of 16 million colors
- A network interface card (NIC) and TCP/IP stack
- Embedded Microsoft Windows XP Operating System