

# VistaKEANE Hardware Specifications

VistaKEANE is proven windows-based software used by Post-Acute and Long-Term Care providers in all settings, including single buildings, hospital-based units, single sites with multiple buildings, plus regional and national multi-facility organizations.

## Local Area Networks

VistaKEANE clinical and financial applications run on LANs using Microsoft Windows 2000 and 2003 Server. LANs serve facilities with computer users in a geographic area that can be connected via LAN networking (i.e. Fast Ethernet). With LANs, VistaKEANE applications are loaded on the server and facility staff access the applications from their workstations. We do not support VistaKEANE on these platforms: Novell LANs and peer-to-peer LANs.

## Recommended Local Area Network System

### Workstation

- Pentium 4 2.0 GHz with 256 MB RAM
- 20 GB Disk Drive
- Internal CD-ROM Drive, 56x, EIDE
- Video Card with 32 MB, 1024 x 768 @ 256 color
- 17" Color Monitor, .25 Dot Pitch, 1280 x 1024
- Fast Ethernet 100 Base-T PCI Network Interface Card
- pcANYWHERE 32, 11.0 (or greater) on one workstation
- Internet Explorer 6

### Server

Runs the Progress database service, Access or SQL Server, and HL7 interfaces. Up to 10 concurrent Progress (financial applications) users and 15 concurrent clinical\* users:

- Pentium 4 3.0GHz with Hyper Threading
- 1 GB RAM
- SCSI RAID Controller
- 2 x 36GB 10,000 RPM SCSI hard drives in RAID 1 / mirrored configuration (fault-tolerant)
- 56x CD-ROM Drive
- Fast Ethernet 100 Base-T PCI Network Interface Card
- Video Card with 32 MB, 1024 x 768
- Windows Server 2003 Standard or Enterprise Edition, 32 bit

\* In a LAN environment, Keane Care highly recommends using SQL Server database when there will be more than 15 concurrent clinical users per facility.

## Operating System information

We recommend running VistaKEANE on these workstation operating systems: Microsoft® Windows® 2000 Professional SP4, XP Professional, XP Professional SP2, and Vista Business 32 bit (with VistaKEANE 4.3.1k and later). Windows 2000 Server SP4 and 2003 Server.

VistaKEANE is fully Windows 32-bit compliant. It currently is not certified to run on 64 bit systems.

## Standalone Systems

VistaKEANE applications may be purchased individually and used independently on separate workstations. They are the answer for facilities wishing to separate functions such as billing, payroll, and MDS assessments. VistaKEANE can also be run as an integrated financial and clinical system with multiple applications loaded on one workstation.

### Recommended Standalone System

- Pentium 4 2.0 GHz with 256 MB RAM, 3.5" FD
- 20 GB Disk Drive, Keyboard, Mouse
- Internal CD-ROM Drive, 56x, EIDE
- Video Card with 32MB, 1024 x 768 @ 256 Color
- Backup solution
- 56 K V.92 Internal Modem
- pcANYWHERE® 32 version 11.0 or greater
- Internet Explorer 6 or greater

## Keane Analytics Recommendations

- Microsoft Excel
- SQL Server 2000/2005
- 1 GHz server (1.6 Ghz for 10+ facilities) running Windows 2000 or 2003
- 1 GB RAM (2 GB for 10+ facilities)
- 20 GB (60 GB for 10+ facilities) hard drive

## Printer Recommendation

Laser printers compatible with Hewlett-Packard's Printer Command Language (PCL 5E)

## SQL Server Requirements

For additional hardware requirements and pricing information on Microsoft SQL Server database, see Microsoft's Website ([www.microsoft.com/sql/default.asp](http://www.microsoft.com/sql/default.asp)). VistaKEANE is supported on SQL Server 2000 and 2005.

*see reverse for Enterprise Network recommendations*

## Enterprise Networks

VistaKEANE Enterprise Edition runs on Microsoft® Windows 2000 and 2003 Terminal Server Editions. It brings the benefits of thin-client technology to Long-Term and Post-Acute Care. Optionally combined with Citrix Metaframe technologies, thin-client users enjoy a seamless computing experience.

### Recommendations for Servers

#### Up to 20 concurrent users

(Financial and clinical users combined) and up to 5 facilities (if a multi-facility organization):

Recommendation for a single server that hosts Terminal Services / Citrix sessions as well as runs the Progress Database service, hosts Access databases locally, and runs HL7 interfaces:

- Dual 3.0GHz Xeon DP processors
- 2GB RAM
- SCSI RAID Controller
- 2 x 72GB 15,000 RPM SCSI hard drives in a RAID 1 / mirrored configuration (fault-tolerant)
- Fast Ethernet 100 Base-T PCI network card

Additional information for disk space planning: 5MB per bed per year (2.5MB for financial databases and 2.5MB for clinical databases)

#### More than 20 concurrent users

(Financial and clinical users combined):

A separate server may be needed to run each of the 3 main components: Terminal / Citrix server, Progress Database / HL7 Interface server, and SQL database server\*

\* In a Terminal Services / Citrix environment, Keane Care does not recommend using Access database for the clinical application except when the Access database can reside on the same Terminal / Citrix server as the clinical application (i.e., the scenario above for up to 20 concurrent users)

#### Terminal / Citrix server

35 to 40 concurrent users:\*\*

- Dual 3.0GHz Xeon DP processors
- 2.5GB RAM
- 36GB 15,000 RPM SCSI hard drive (a RAID 1 storage subsystem is recommended for fault-tolerance)
- Fast Ethernet 100 Base-T PCI network card

\*\* For more than 35 to 40 concurrent users, use multiple Terminal / Citrix servers in a load-balanced configuration.

#### Progress Database server / HL7 interface server

Up to 20 facilities and up to 40 concurrent Progress (financial) users:

- Dual 3.0GHz Xeon DP processors
- 3GB RAM
- Fast fault-tolerant hardware-based SCSI RAID storage subsystem using RAID 1 or RAID 1+0 configurations
- Fast Ethernet 100 Base-T PCI network card

Additional information for disk space planning: 2.5MB per bed per year for financial databases (Progress databases)

#### SQL Database server

For SQL server hardware specifications\*, please refer to the Capacity Planning section in the document "Using SQL Server with the VistaKEANE Clinical Suite."

\*VistaKEANE is supported currently on SQL Server 2000 and 2005

### Thin-Client Workstation Access

Thin-client access to Windows 2000 and 2003 Terminal Server Edition and Citrix Metaframe-based systems is available on a wide variety of hardware and operating systems. Follow the recommendations provided by Citrix or Microsoft for hardware and operating system requirements for those respective platforms.

Keane Care requires:

- Internet Explorer Version 6.0 or later
- A color display with at least 800x600 resolution
- Microsoft compatible mouse or 100% compatible pointing device
- A local storage device, if uploading or downloading of electronic files such as charge capture, billing or MDS submission files is required
- 30 to 40kbps of available WAN network bandwidth per concurrent connection
- A PCL5 compatible laser printer (if printing is required)