CLEAR CUBE

PC Blades: A New Paradigm for Secured Computing

Agenda

- **IT Managers are being pulled in two different directions**
- **Securing Computers in the Hospital**
- **Examples of Secure Computing Solutions**
  - **Nursing Stations**
  - **Patients Rooms**
  - **OR/ER**
  - **Outsourcing**
- **Select Customers**

Are You Being Pulled

**Access to Information
ON Demand**

**Provide 100% Security
of Information**

**Can You Provide both
Without Compromise**

The ClearCube Solution

User Ports

The ClearCube User Port connects computer peripherals like the monitor, keyboard, mouse, speakers or USB peripherals to PC Blades at the data center or telecom closet.

These User Ports are small, generate no noise, create very little heat, and can be mounted under the desk for a highly space-efficient working environment.

C/Port
Direct Connection

I/Port
Ethernet Connection

C/Port

Direct Connection

I/Port

Ethernet

Cage

The ClearCube Cage is a centralized chassis that houses up to eight PC Blades. Each Cage is a self-contained unit that provides all of the Ethernet connections, User Port connections, airflow management, and power leads to the PC Blades. The Cage can be housed in any standard, 19" rack or cabinet enclosure.

PC Blade

This is each user's actual computer: a configurable, Intel-based PC Blade that delivers full functionality to the desktop. It houses all of the components of a standard PC including Intel Pentium® 4 or dual Xeon™ processors, RAM, hard drive and video card.

intel inside

Windows xp

ClearCube Management Suite

The ClearCube Management Suite (CMS) empowers IT administrators to manage the complete ClearCube infrastructure from any location. This powerful, remotely accessible suite includes a versatile set of features such as "hot spare" switching, move management, and automatic data backup.

CMS includes the following:

Control Center allows even novice IT administrators to use graphical scripts to manage PC Blades anytime, from anywhere in the world.

Switch Manager gives IT administrators the ability to eliminate downtime by immediately switching a user to a hot, spare PC blade.

Blade Manager provides real-time PC Blade health monitoring and asset management with alerts.

Grid Center enables administrators to dynamically allocate PC Blade resources to I/Port users, based on each individual's needs.

Data Failover virtualizes unused hard-disk space and makes it available for backing up user settings and data.
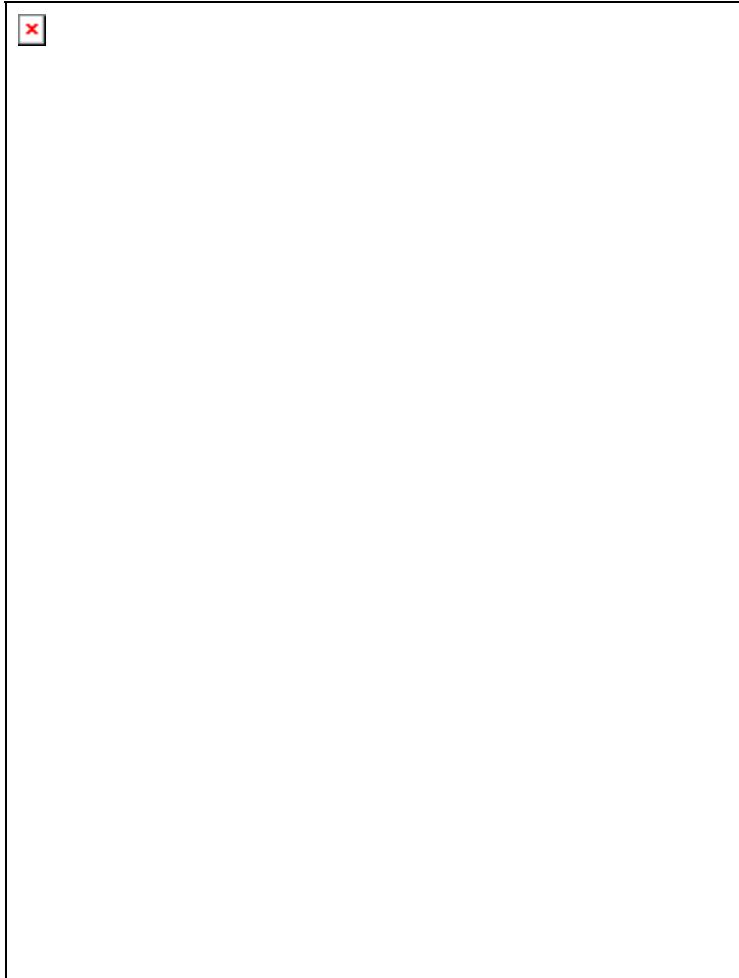
Patient Rooms

Problem:

• Doctors and nurses need access records in the patient/exam rooms.

• Unattended PCs are a significant security risk.

• PCs take up valuable space

• PCs create unwanted noise and heat.

• PC fans collect and spread dust and contaminants

Solution:

• The ClearCube PC Blade solution allows IT managers to bring PC functionality (not PCs) to every patient room.

• ClearCube User Ports are inherently secure and immune to tampering

• User Ports take up very little space, have no fans, create no noise and generate no heat

OR and ER

Problem:

• Instant access to information is needed during an operation.

• PC fans spread dust and contaminants

• Cleaning solutions used to sterilize the room often damage the PC.

• If a PC fails during an operation IT cannot enter to fix the problem.

Solution:

• With ClearCube, EMR terminals can be housed in small protected cases

• User Ports have no fans to circulate contaminants

• If a problem occurs, IT managers do not have to enter the sterile environment or interrupt doctors and nurses during a procedure.

• IT Managers can remotely swap to a spare PC Blade to return service within seconds.

Nursing Stations

Problem:

• Nursing Stations are cramped, chaotic areas

• Access to information on demand is essential 24x7

• Traditional PCs take up valuable space

• PCs hold patient information and are difficult to secure

•The last thing doctors and nurses want is an IT technician crawling around their feet.

Solution:

• ClearCube User Ports free up valuable space

• Patient data is secured on PC Blades in the data center

• IT managers are able to manage and maintain the nursing stations without ever having to leave their desks.

Outsourcing

Problem:

• Outsourced data entry can be done at home or in remote locations

• Home or outsourced workers have access to your data, which can be downloaded and stolen

• IT has no control over remote computing devices

Solution:

• The ClearCube solutions allows users to have access to information without the ability to download or copy information.

• ClearCube User Ports are inherently secure and immune to tampering

• IT Mangers can manage remote users from a centralized location

Select ClearCube Customers

Allmeds, American Medical Association, Barton Memorial Hospital, Beverly Hospital,
Blue Cross Blue Shield of Alabama, Cabell Huntington Hospital, Cambridge Medical Center, Catholic Health System, Children's hospital of Pittsburgh, Christus St. Joseph Hospital, Clark Memorial Hospital, Willamette Dental, Duncan Regional Hospital,
Edwards Hospital & Health Services, Gaston, Guardian Insurance Company,
Healthcare Partners, Hinsdale Hospital, John. C. Lincoln hospital, Jewish Healthcare,
Medical Center of Central Georgia, Memorial Healthcare System, Missouri Veteran's Home, National Healthcare Resources, Northwestern Memorial Physicians Group, Oklahoma Heart Hospital, Parkland County, Princeton Hospital (University medical center), Princeton Radiology, Salinas Valley Hospital,
Salinas Valley Memorial Hospital, Sisters of Charity Hospital/ Catholic Health system, Sisters of Mercy Hospital/Catholic Health system, Somerville Hospital, Southwest Research Institute, St Agnes Hospital, St Joseph Health Care, St Jude Medical, Staten Island Medical Group, William W. Backus Hospital, University MS Medical Center,