

## **Conserus™ Image Repository Virtual Edition** **Manage your infrastructure with a virtual repository that grows with your PACS**

With the volume of medical imaging continuing to explode, you can't afford for your repository to go down. When your system is down, so is your revenue and your ability to provide the safest level of care. Is there an economical way to support your repository and plan for its growth?

With Conserus, there is. We now support a virtual Conserus™ Image Repository environment that is scalable, leveraging the same modular design as the traditional physical server configuration but utilizing your existing VMware® infrastructure.

### **Reduced total cost of ownership**

Our Conserus Image Repository Virtual Edition module helps you lower overall infrastructure costs by deploying fewer physical servers across the entire data center, saving

hardware acquisition costs and retaining valuable capital. Fewer servers reduce operating expenses by lowering power and cooling costs.

Using our robust virtualized servers also means less time spent managing infrastructure issues. Your system's high availability helps minimize lost revenue due to downtime.

Our recommended and minimum specifications required\* for Conserus Image Repository Virtual Edition are:

### **Conserus Image Repository All-In-One VM**

For lower annual studies, we provide an All-In-One virtual machine (VM) including database and application.

Requirements (<100,000 annual study volume):

- 8 virtual CPUs (reservation of 8400MHz)

### **Benefits**

**Conserus™ Image Repository Virtual Edition helps organizations:**

- Lower overall infrastructure costs
- Support a consistent level of care
- Eliminate revenue loss due to downtime
- Achieve patient safety goals



## Features

### Conserus™ Image Repository Virtual Edition includes:

- Fewer physical servers
- Seamless fit with existing VMware infrastructure and strategy
- Scalable modular design for flexibility
- High availability

- 32GB RAM (reservation of 16GB)
- 1x virtual network adapter (VMXNET3/10Gb NIC)
- 1x 100GB for C: OS
- 1x 300GB for F: Images
- 1x 200GB for I: HMI
- 1x 30GB for K: Oracle® Log
- 2x 15GB for L/M: Oracle® Logs
- 1x 30GB for S: Scan
- 1x 30GB for V: Voice
- 1x 30GB for H: HIPAA
- Windows Server® 2008 x64 SP2 or Windows Server® 2008 x64 R2

Disk Subsystem to provide minimum of 1200 IOPS

Requirements (<200,000 annual study volume):

- 16 virtual CPUs (reservation of 8400MHz)
- 32GB RAM (reservation of 16GB)
- 1x virtual network adapter (VMXNET3/10Gb NIC)
- 1x 100GB for C: OS
- 1x 600GB for F: Images
- 1x 300GB for I: HMI
- 1x 45GB for K: Oracle® Log
- 2x 15GB for L/M: Oracle® Logs
- 1x 50GB for S: Scan
- 1x 50GB for V: Voice
- 1x 50GB for H: HIPAA
- Windows Server® 2008 x64 SP2 or Windows Server® 2008 x64 R2

Disk Subsystem to provide minimum of 1500 IOPS

### Conserus Image Repository™ database VM

For higher annual studies, we provide a standalone virtual machine (VM) to which the Conserus Image Repository application VMs can connect.

Requirements:

- 16 virtual CPUs (reservation of 8400MHz)
- 32GB RAM (reservation of 16GB)
- 1x virtual network adapter (VMXNET3/10Gb NIC)
- 1x 100GB for C:OS
- 1x 500GB LUN for I: HMI (minimum 800 IOPS)
- 3x 50GB LUN for K/L/M Oracle® logs (minimum 800 IOPS)
- Windows Server® 2008 x64 SP2 or Windows Server® 2008 x64 R2

Disk Subsystem to provide minimum of 1000 IOPS

If you have more than 800,000 annual studies, custom requirements will be provided for your Conserus Image Repository database VM.

### Symantec™ ApplicationHA Console VM

The Conserus Image Repository All-In-One and database VM includes a license for Symantec ApplicationHA to monitor the database services. The Symantec ApplicationHA Console is installed on a separate VM.

Requirements:

- 2GB RAM
- 1x 50GB
- Windows Server® 2008 x64, or Windows Server® 2008 x64 R2

### **Conserus Image Repository application VM**

Conserus flexible application VMs can be deployed as a single VM to connect to the database VM, or as a group under the Conserus Image Repository load balancer.

Requirements:

- 4 virtual CPUs (reservation of 4800MHz)
- 16GB RAM (reservation of 8GB)
- 1x virtual network adapter (VMXNET3/10Gb NIC)
- 1x 100GB for C:OS
- 1x 250GB LUN for I: HMI
- Windows Server® 2008 x64 SP2 or Windows Server® 2008 x64 R2

### **Conserus Image Repository load balancer VM**

A Conserus Image Repository load balancer VM is deployed for redundancy while the load balancing is performed across only the Conserus Image Repository application VMs.

Requirements (for virtual F5 with firmware 11.3):

- 2 virtual CPUs
- 4 GB RAM
- 3x virtual network adapter (VMXNET3/10Gb NIC)
- 1 x 100 GB LSI logic parallel disk

Requirements (for virtual Citrix Netscaler with firmware 10.5):

- 2 virtual CPUs
- 3GB RAM
- 2x virtual network adapter - max 10 (Intel E1000NIC)
- 1 x 40 GB LSI logic parallel disk

### **Conserus Image Repository Test VM**

We provide a standalone VM that integrates the functionality of the Conserus Image Repository application VM and database into a single VM.

Requirements:

- 2 virtual CPUs
- 16GB RAM (Reservation of 4GB)
- 1 x virtual network adapter (VMXNET3/10Gb NIC)
- 1x 100GB for C:OS
- 1 x 200 GB LUN for I: HMI
- 3 x 30 GB LUNs for K/L/M Oracle® logs
- 2 x 15 GB LUNs for S/V Scan/VoiceClips (size depends upon usage)
- 1 x 50 GB LUN for F: Images (size depends upon usage)
- 1 x 20GB LUN for H: HIPAA (size depends upon usage)
- Windows Server® 2008 x64 SP2 or Windows Server® 2008 x64 R2

### **Virtual configuration options for Conserus Image Repository**

Virtual deployment, with or without the Conserus Image Repository database being virtualized, is available for Conserus Image Repository version 2.0 and is qualified on VMware vSphere 4.1 up to 5.5UP2.

Conserus standard guidelines:

Sites with up to 200,000 annual studies:

- Single Conserus Image Repository All-In-One VM

- Single Conserus Image Repository virtual test server VM

Or

- Single Conserus Image Repository database VM
- One Conserus Image Repository application VM
- Single Conserus Image Repository virtual test server VM

Sites with 200,000 annual studies or more:

- Single Conserus Image Repository database VM

- Single Conserus Image Repository virtual test server VM

- Conserus Image Repository application VM (at least one for every 150,000 annual studies)
- Conserus Image Repository load balancers (one pair)

### Contact us

For more information about Conserus Image Repository and Virtual Edition, contact your sales representative or visit [www.conserus.com](http://www.conserus.com).

\* McKesson reserves the right to modify these technical specifications at any time

[www.conserus.com](http://www.conserus.com)

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