

## New VI3.5 Features Summary Table

Table 1 - New VI3..5 Feature Summary

Platform	Virtual Infrastructure	Management
<p><b>ESX 3i and ESX 3.5</b></p> <ul style="list-style-type: none"> <li>Both will have the same functionality.</li> <li>ESX 3i will be a "no install needed" OS without the Service Console and will come integrated with new servers.</li> <li>Both are expected to GA by end of 2007</li> </ul>	<p><b>Distributed Power Management (DPM)</b></p> <p>A new power saving feature of VC2.5 that will leverage DRS to migrate VMs on to a subset of your ESX hosts and then power down evacuated hosts until DRS determines the resources are needed again.</p> <p>For example, at night when your VMs are least busy they can be vmotioned to a few ESX hosts.</p> <p>This feature is considered experimental?</p>	<p><b>Guided Consolidation</b></p> <p>A feature of VC2.5 that will auto discover your physical servers, collect performance data, guide you through a p2v process and distribute the new VMs on your ESX host leveraging DRS.</p> <p>Relies on either LANMAN or Active Directory to work. If neither is present then it will fail.</p> <p>Reduces training for first time server "virtualizes" ?</p>
<p><b>Performance</b></p> <p><b>Paravirtualization</b></p> <ul style="list-style-type: none"> <li>Makes VM aware of ESX hardware.</li> <li>Linux OS performance increases.</li> <li>Database performance increases (Oracle)</li> </ul> <p><b>Memory</b></p> <ul style="list-style-type: none"> <li>Larger memory pages</li> <li>Performance benefits for databases, Citrix.</li> </ul> <p><b>Networking</b></p> <ul style="list-style-type: none"> <li>TCP Segmentation Offload (TSO) reduces CPU utilization. Supported in ESX and VM OS</li> <li>Jumbo Frames enables reduced TCP/IP processing. (iSCSI) not supported)</li> <li>10 GigE networking</li> </ul> <p><b>Storage</b></p> <ul style="list-style-type: none"> <li>NPIV allows virtual HBAs in VMs</li> <li>QoS enabled through SAN tools</li> </ul>	<p><b>Storage Vmotion</b></p> <p>Live Vmotion of .vmdk files between storage partitions without down time.</p> <p>Will be free upgrade for customers with active SNS</p> <p>Feature available in VI3.5 Enterprise only</p> <p>Can be used to relocate a VM's disk files to new array for performance increase or bottleneck reduction</p>	<p><b>Virtual Desktop Manager (VDM)</b></p> <p>Virtual Desktop Connection broker tightly integrated with VI3</p> <p>Separate licensing from VI3</p> <p>Automatic desktop provisioning</p> <p>Desktop pooling</p>
<p><b>Scalability</b></p> <p>Supports up to 128 GB of memory in ESX hosts.</p> <p>Supports up to 64 GB of memory in VMs.</p>	<p><b>HA Updates</b></p> <p>Increased ESX HA clusters to 32 nodes</p> <p>Proactive monitoring for abnormal configurations – DNS and ESX Console redundancy.</p>	<p><b>Site Recovery Manager</b></p> <p>Automation of DR site setup, fail over and recovery</p> <p>Separate licensing from VI3 and will be an add-on product.</p> <p>Integration with third party storage</p>

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	<p>VMtool heartbeat monitoring</p> <p>Now monitors both ESX hosts and VM OS. Individual VMs will be restarted if OS fails. This is guest OS agnostic.</p>	<p>replication</p> <p>Easier testing of fail over plans</p> <p>Added automated workflows for Disaster recovery process</p> <p>Not available until 2008</p>
	<p><b><u>Update Manager</u></b></p> <p>Automated patching of ESX hosts and VMs with Windows and RHEL OS.</p> <p>Available for all ESX editions starting with VC2.5</p> <p>Customers with active SNS will get feature free.</p> <p>Leverages snapshots and offline patching of VMs.</p> <p>No longer need to manually track ESX host patching.</p>	
	<p><b><u>VMware Consolidated Backup (VCB)</u></b></p> <p>Support for VMs running on iSCSI, NAS, and local storage</p> <p>Run VCB within a VM !!! The slide on page 29 looks like a Vizioncore slide. Hmmm ....</p> <p>Use VM Converter to restore VMs</p> <p>Full GUI integration with third party backup vendors</p>	