

Virtualization

Total Cost of Ownership

**Reducing the Cost of
Virtual Device Management
Using Altiris**

Michael Hopkin
Product Manager

Presentation Summary

- Solution Overview
- Key Messages
- Altiris/VMware management scenarios
- Demonstration

Altiris Complete Product Offering



Client & Mobile	Asset Management	Server Management
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Client & Mobile Devices

Windows Mac PocketPC Palm



Corporate Assets

Fixed Assets Contracts etc.



Servers

Windows Linux UNIX Switches

Common Services		
LAN	WAN	Mobile
Policies	Alerts	Reporting

Web Infrastructure		Microsoft Foundation	
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Connectors			
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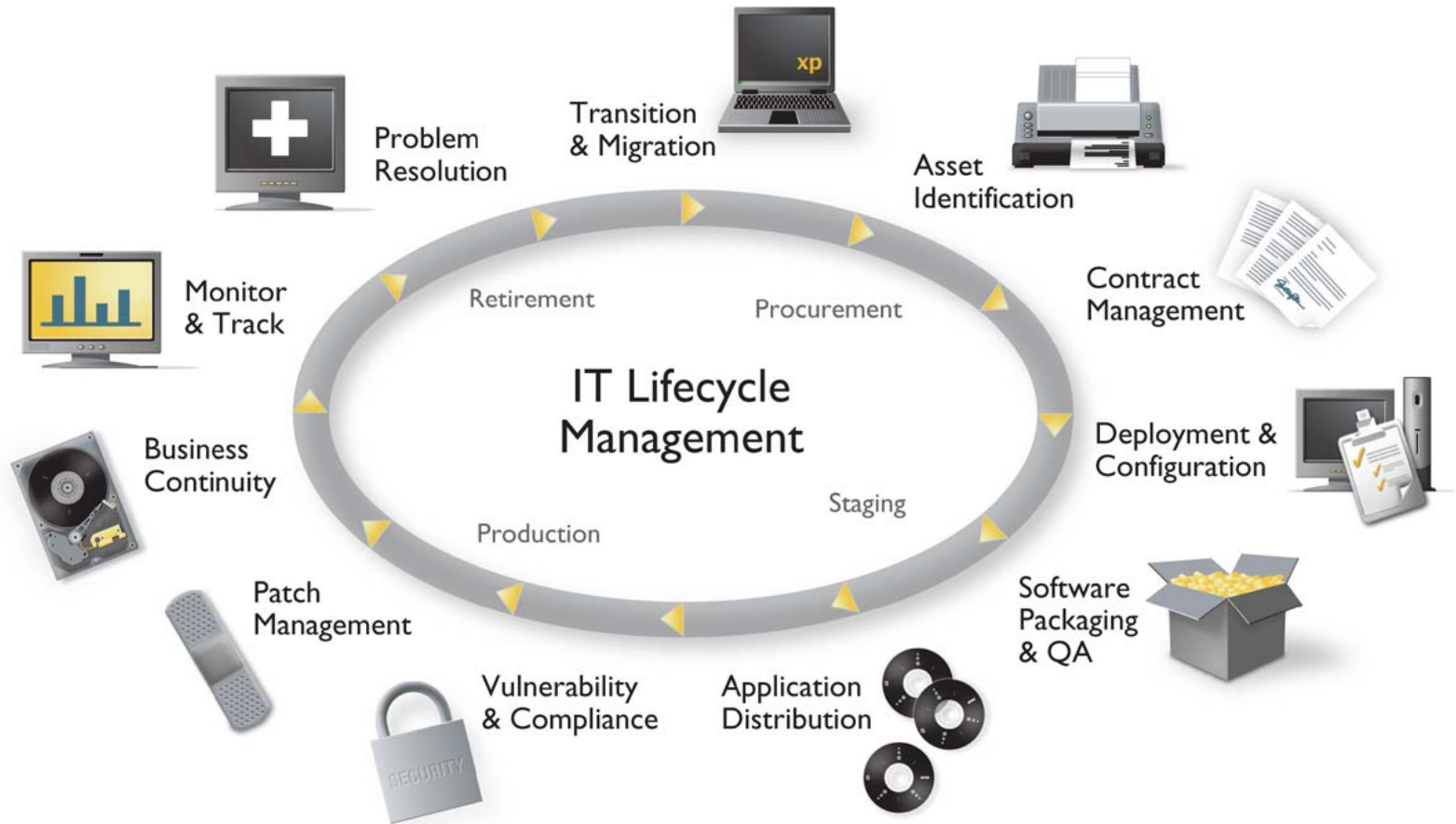
Over 40 solutions

Managing heterogeneous environments

Built on a single, open platform

Capable of leveraging existing tools

Altiris Solutions Overview



Suite Feature Sets

Asset Management

- Service requests
- Procurement
- Lease hardware
- Contract management
- Software licenses
- Depreciation
- Financial systems
- Fixed assets
- Inventory
- History
- Reporting
- TCO management
- Retirement
- SLA management
- Receiving / physical audit



Server Management

- Deployment
- Patch management
- Software delivery
- Application management
- Web administration
- Remote control
- Server recovery
- Server inventory
- Site monitor
- Network topology
- Software packaging

Client and Mobile

- Deployment
- Patch management
- Software delivery
- Application management
- Application metering
- Web administration
- Remote control
- Backup & recovery
- Comprehensive inventory
- OS and personality migration
- Wise software packaging

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Deployment

OS Deployment and Configuration

- Supports Windows and Linux platforms
 - Hands-free network boot
 - Hardware and network configuration
 - Image-based or scripted OS install
 - Application install and script launch
 - On-going updates/re-provisioning
- Includes virtual blade views
- Support for virtual servers



Deployment Solution will allow MSN to reduce the number of man hours needed to deploy and rebuild servers by 75 percent.

Senior Systems Engineer
MSN Operations
Microsoft Corporation

Benefits

- ✓ Standard processes are defined and automated
- ✓ Server configurations are reliable and consistent
- ✓ Server build times decrease by an average of 70%

Inventory

Asset Discovery and Inventory

- Rapid assessment of hardware, operating system, application and service pack/patch level
- Scalable, extensible data model
- Customizable inventory capture
- Dozens of out-of-the-box web reports with summary and detailed drill-down options



Full discovery and accountability of our hardware and software inventory is now available to us in real-time in a matter of minutes as opposed to spending weeks to get a partial and often inaccurate report.

Systems Architect
Global Data Center
Deloitte Consulting

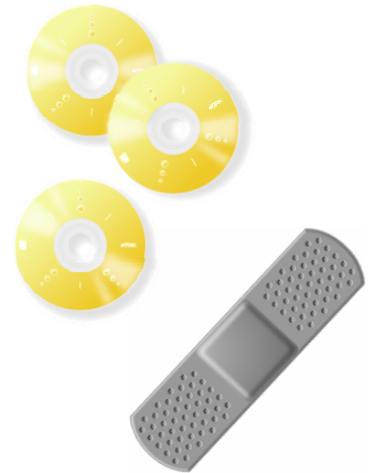
Benefits

- ✓ Quickly determine which systems are out of compliance with corporate standards
- ✓ Ability to aggregate data across the environment in real-time

Software Management

Software Delivery and Patch Management

- Distribute applications, updates, code, files to target servers
- Open packaging standards
- Automatically scans and reports on missing security updates
- Automates patch distribution with one-click creation of collections and policies *



Altiris solutions played a key role in overall threat response resulting in zero business impact due to SQL Slammer.

IT Manager
Global Networking Company

Benefits

- ✓ Implements policy-based software management
- ✓ Proactively manage software updates to minimize security risks

* Supported on Windows only.

Altiris' Seven-Point Security Audit

SYSTEM UPTIME



Ensures systems are able to remove viruses, worms and spy ware

Mitigates common software defects

Identifies security flaws in commonly exploited elements

Protects systems from theft and DOS attacks

UNAUTHORIZED ACCESS TO INFORMATION



Ensures configurations set to common standards

Curbs network abuse

Mitigates avenues of information theft

AuditExpress Overview

- Audits for all seven system security areas, including the most recent and most critical vulnerabilities
- Takes a system based approach when determining the security status
- Provides a non-invasive approach to auditing systems without introducing risk to the network
- Completely software based and no additional appliances required

Key Messages

- Altiris provides comprehensive management of physical and virtual environments
 - Altiris solutions have managed virtual machines for some time
 - Altiris 6.5 product version requires specific virtualization management functions before release
 - Deployment Server 6.5 is the first of these
- VMware Strategic Partnership
 - Comprehensive Support Statement
 - <http://www.altiris.com/dap/Portals/0/Altiris%20VMware%20Statement.pdf>
 - New integration with VMware extends the management reach

Managed Virtualization

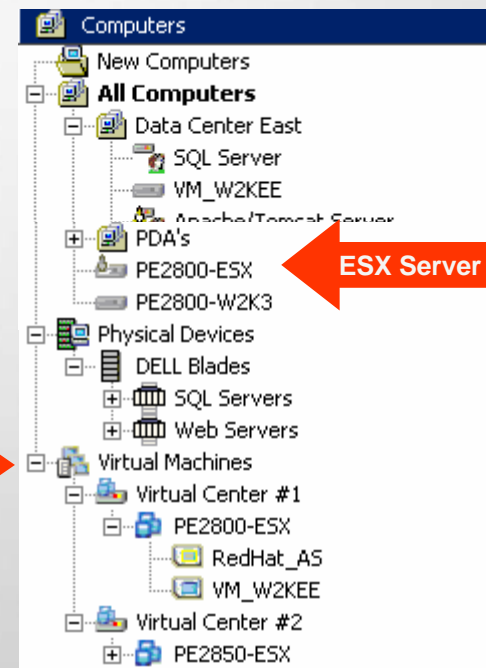
5 VMware management scenarios:

- Altiris server components can exist in a virtual machine
- Altiris agent installed in virtual machines
- Virtual Center integration in Altiris Deployment Server 6.5
- ESX Server deployment and host management
- Virtual machine specific management via VMware interfaces (no Altiris agent)



Altiris® 6

Deployment Solution™



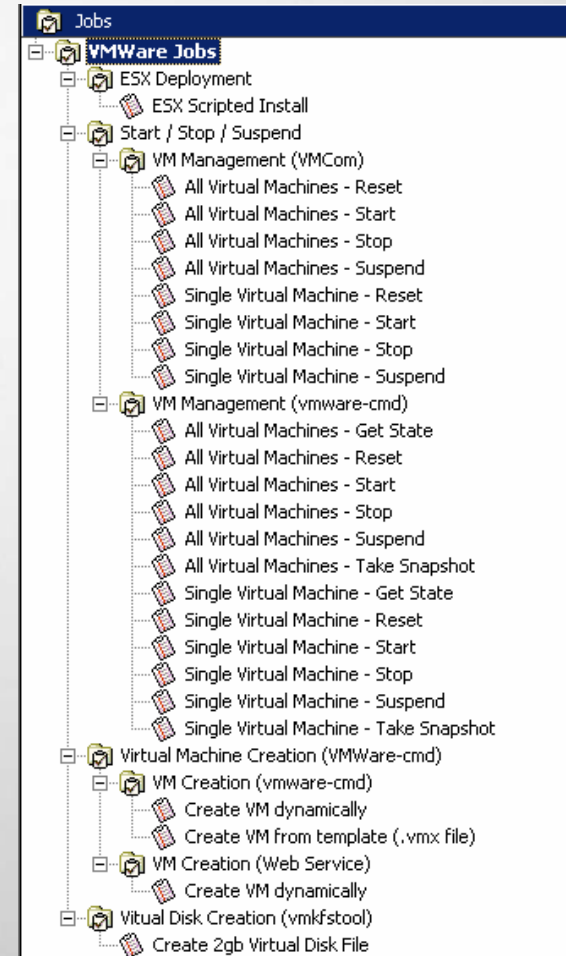
Virtual machines

ESX Server

Virtual Machine Mgmt. Samples via Four Different VMware Interfaces

Sample jobs leverage different VMware interfaces.

1. Scripting APIs
 - A. VmCOM
 - B. VmPerl
2. Virtual Center Web Services
3. Vmware-cmd – on ESX Servers
4. Vmkfstools –ESX Servers in the (VMFS create/manage)

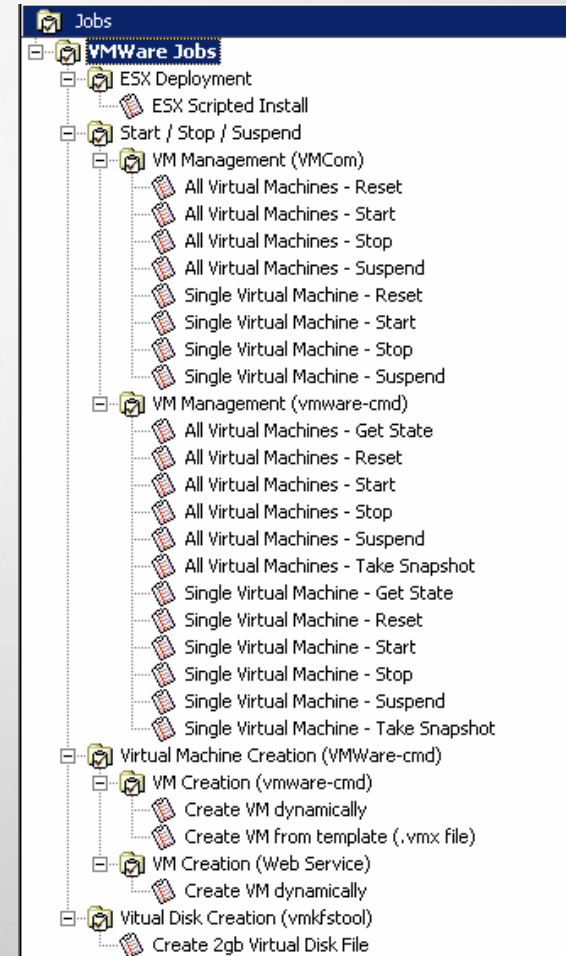


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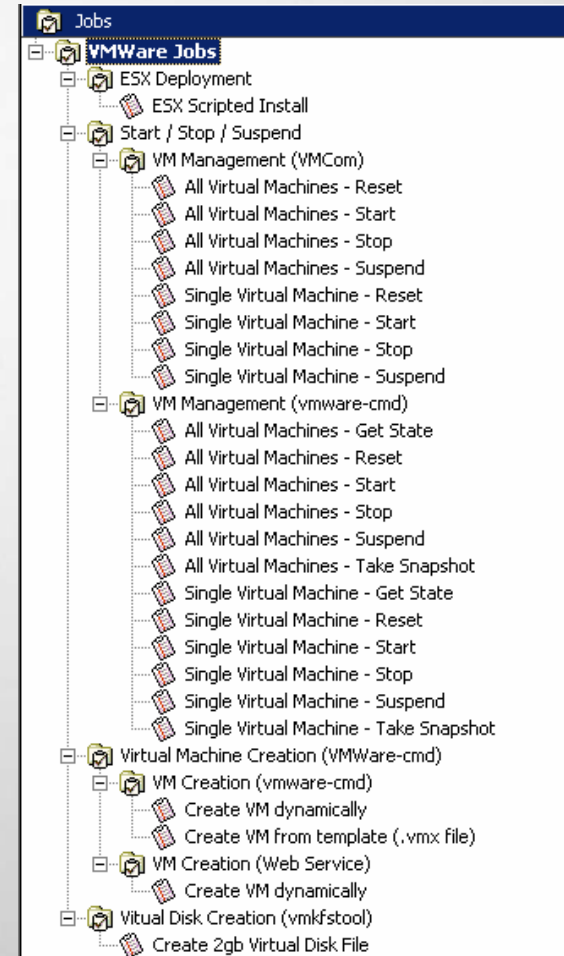
Why?



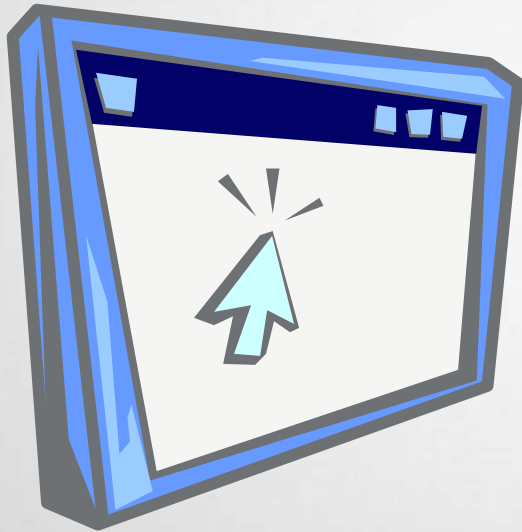
Virtual Machine Mgmt. Samples via Four Different VMware Interfaces

Why?

- Flexibility
 - Different management scenarios need different points of control
 - Some customers are more comfortable with different scripting environments than others (shell scripting vs. COM vs. Perl)
- VM-specific management
 - Workflow continuity – need for management before an Altiris agent is available
 - Non-Altiris functionality - virtual machine creation, start/stop/resume, etc. -



Solution Demonstration



- Altiris server components can exist in a virtual machine
- Altiris agent installed in virtual machines
- Virtual center integration in Altiris Deployment Server 6.5
- ESX Server deployment (video) and host management
- Sample jobs for VM-specific management via VMware interfaces

Questions?

Thanks

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vmworld2005

virtualize^{now}

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