Understanding Business Value of Life Cycle Management

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Technical feasibility and market demand will affect final delivery.

Pricing and packaging for any new technologies or features discussed or presented have not been determined.

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Agenda

- VMware Management capabilities
- Challenges for life cycle management
- Life Cycle Manager Overview
- Demo
- LCM Underlying Platform
Virtual Datacenter OS from VMware

vCenter

VMware Infrastructure -> Virtual Datacenter OS

Application vServices
Availability
Security
Scalability

Infrastructure vServices
vCompute
vStorage
vNetwork

Cloud vServices

On-premise Infrastructure

Off-premise Cloud

.VNet
.Windows
.Linux
.J2EE
.Grid
.Web 2.0
.SaaS
Management vServices with vCenter

- Lab Manager
- Stage Manager
- AppSpeed

- Lifecycle Manager
- ConfigControl
- Orchestrator
- CapacityIQ
- Chargeback
- Site Recovery Manager

Virtualization Forum 2008
Challenges for Life Cycle Management
Pain Points for the Administrator

**Lack of Visibility and Tracking**
- Who owns what?
- What virtual machines have been created?
- What virtual machines have changed; who changed them?
- How long will virtual machines be in use?

**Hard to Maintain Control**
- Who can deploy what into the environment?
- Are random virtual machines being deployed without approval?
- Are virtual machines being placed in the appropriate places?
- Are we removing virtual machines that are no longer needed?

**Wasting Time on Manual and Repetitive Tasks**
- Is time spent adding business value?
- Are lots of manual steps leading to errors?
- What is your defined process if you have one-off deployments?
Lifecycle Manager Enables the Automated Datacenter

Faster IT response time for deploying infrastructure resources

Provides stable infrastructure environment through standardization & automation of best practice procedures

Ensures Tracking and Control of Resources

Automate repetitive and manual VM build and provisioning tasks

Automatically place and configure VMs for use in the infrastructure

Enforce configuration consistency and standardization for VMs

Codify best practices so tasks can be delegated to more members of the team

Provide accountability of VM usage & ownership

Enable proactive decommissioning of VMs
Lifecycle Manager’s Overview
Lifecycle Manager Overview

Task Management → Automated Provisioning → Intelligent Deployment → VM Tracking → Decommissioning
- Provide centralized web interface for VM requests
- Drive lifecycle information into the request process
Lifecycle Manager

1. Task Management
2. Automated Provisioning
3. Intelligent Deployment
4. VM Tracking
5. Decommissioning
- Pre-determine VM configuration based on request type
- Customize amount of VM resources automatically at time of deployment
Lifecycle Manager

Task Management
  Automated Provisioning
  Intelligent Deployment
  VM Tracking
  Decommissioning
- Map infrastructure elements to request parameters
- System automatically knows appropriate resources to use
- Administrator assisted placement of VM’s
- Allows admin to manually determine VM placement
Out-of-the-box reports for tracking requests, decommissioning, approvals, etc

Track VM's across multiple VC instances
Lifecycle Manager

Task Management → Automated Provisioning → Intelligent Deployment → VM Tracking → Decommissioning
- Set decommissioning date as part of every VM request
- System tracks to this date, notifies owner, and gives ability to extend date
Demo
Lifecycle Manager’s Underlying Platform
Lifecycle Manager – Orchestration Platform

Lifecycle Manager is built on top of a powerful Orchestration Platform that enables:

- **Flexibility** – ability to enhance Lifecycle Manager to fit with unique deployment procedures
- **Integration** – tie into existing management tools to align processes or drive further automation
- **Process Improvement** – move from manual/script-based processes to drag-n-drop workflow automation
- **Event Driven Infrastructure** – advanced automation to enable predictive infrastructure
Summary
### What drives Lifecycle Manager ROI?

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<th>Source of ROI</th>
<th>Lifecycle Manager Capabilities</th>
<th>Typical Results</th>
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<tr>
<td>Reduce capital expenses</td>
<td>Track and implement decommissioning of virtual machines based on estimated lifespan</td>
<td>Cost savings from decommissioning over 1 year pays for initial LCM investment</td>
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<td>Requests for VMs always use the correct resources (datastores, networks, templates, etc.)</td>
<td>Optimize use of existing compute, storage, network, and OS resources</td>
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<td>Reduce operational expenses</td>
<td>Remove manual and repetitive administrative tasks</td>
<td>Provisioning time per VM is cut by 80% (source - Qualcomm case study)</td>
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<td>Setup end to end provisioning once and manage by exception</td>
<td>Reduce admin time spent on provisioning tasks by 90%</td>
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<td>Users or administrators only select VMs from existing and known template configurations</td>
<td>Eliminate rogues configurations that lead to wasting or limiting available resources</td>
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<td>established by IT</td>
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Lifecycle Manager – Key Benefits

Task Management
- Sort, prioritize, delegate, & manage tasks in the team work queue

Automated Provisioning
- Deploy based on defined standards
- Configure automation criteria once

Intelligent Deployment
- Utilize proper infrastructure based on VM type and purpose
- Create consistent process for where VM’s get placed

VM Tracking
- Understand VM Ownership & Purpose
- Authorize and Implement VM Changes When Necessary

Decommissioning
- Reclaim resources consumed by unused VMs
- Archive retired VMs to secondary storage
Q&A

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