Delivering Enterprise-Class Converged Infrastructure With Mid-Market Pricing and Packaging

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According to IDC, the Integrated Infrastructure market will grow by over 40% annually through 2017. This growth is fueled by the need for greater agility in IT. Hitachi Unified Compute Platform is an industry-leading, enterprise-class converged system with a single pane of glass for managing virtual and physical infrastructure and for accessing hybrid cloud services. With the introduction of Unified Compute Platform 4000E, these capabilities are now available in single-rack packaging and at mid-market prices.

Attend this WebTech and learn how to:

• Automate your entire physical and virtual infrastructure from a single pane of glass.

• Easily deploy private or hybrid clouds.

• Lower your operating costs by 25% or more.
Flexibility and Control

Flexibility to expand to cloud with control from a familiar single pane of glass
Capitalize on Emerging Needs

EXTEND BUSINESS AGILITY

- Control and manage physical and virtual infrastructure from a single pane of glass
- Gain flexibility with native integration with VMware vCenter OR Microsoft System Center
- Optimize your investment with access to VMware vCloud Air OR Microsoft Azure
- Adapt to changing business needs
Extend the Reach of the Tools You Use Today

**DO MORE WITH VMWARE VCENTER**

- Monitor, provision, protect, and remediate virtual and physical private cloud
- Access vCloud Air for bursting or specific uses like disaster recovery

Unified Compute Platform Director
Extend the Reach of the Tools You Use Today

**DO MORE WITH MICROSOFT SYSTEM CENTER**

- Manage virtual and physical private cloud
- Access Azure for bursting or specific uses like DevOps
Making the Best Even Better

- Accelerates infrastructure deployment
- Delivers predictable performance
- Achieves higher utilization on clusters and storage pools
- One platform for all workloads
- Single point of support by Hitachi Data Systems
- Deploy in 5 days or less

Unified Compute Platform Director

HUS VM, or HUS130 storage
Hitachi Compute Blades 500 with VMware vSphere
Cisco networking
CR 210 management server(s)
UCP with Unified Compute Platform Director

ON-DEMAND SERVERS
with Greater VM Density

ON-DEMAND STORAGE
with Greater Pool Utilization

ON-DEMAND NETWORKS
with Greater Efficiency

AUTOMATION
for Operational Agility
Unified Compute Platform Director Overview

Single pane of glass for virtual and physical infrastructure
Unified view of the entire converged stack
Native VMware vCenter AND Microsoft System Center integration
Complete Visibility: VMware vCenter or Microsoft System Center

- Health and status information is aggregated in a consistent manner
- Simple drill-down for inspection and health status
- Viewable within VMware vCenter OR Microsoft System Center
Visibility Across Multiple Data Centers

Unified Compute Platform Director Operations Center:
Operate multiple data centers

Consistent views and user interface
Native Integration with VMware and Microsoft

- Deep integration with VMware vCenter and Microsoft System Center
- Manage virtual and physical DIRECTLY from vCenter or System Center

You are in vCenter or System Center. You don't need to learn new tool

Native integration
Automation and Inspection

- Automation increases business agility and removes the risk of human errors
- Inspection with consistent user interface accelerates problem detection
- Automation and inspection drive Business-Defined IT
Easy inspection of the entire system

- Accessible inventory for the entire converged system
- Inspection of each element
  - Compute
  - Storage
  - Switches
  - … And more
Server Profiles and Service Templates

- Server Profiles capture server identities and configurations (IO, BIOS, MAC, S/N numbers and more) for replication and transport
- Service Templates are OS or application replicas designed for easy deployment
- Combined, they enable rapid deployment and recovery of new and existing services
Nondisruptive firmware updates

- Automated chassis, blade, and switch firmware updates
- Pre-tested and validated patches and updates – delivered as update packs

- Simplified baseline compliance
- Eliminate firmware update down time and guesswork
Monitoring and Remediation

- Easy detection at element and component levels
- Fast mean time to resolution
- More agile IT
Monitoring and Remediation

Easy problem detection

- Health status aggregation
- Problem detection
- Drill-down
Provisioning

- Dynamic business demands responsive IT services
- Highly automated provisioning of new clusters, storage, and switches
- New services deployed in minutes
Provisioning New Host Clusters

Using service templates

Service templates automate and speed up deployment and remove risk of human errors
Select a template with preconfigured ESXi image
Deploying New Services

- New service gets deployed by applying service template to hosts
- … And is available in minutes, instead of hours or days

2 servers deployed
Provisioning Bare Metal Workloads

Rapid, error-free bare metal deployment

- Deploying bare metal workloads is simple
- Existing service templates can be cloned or edited
- ... then applied for automated and error-free provisioning
Provisioning Storage

Rapid storage provisioning driven by automation

- You can provision storage directly from vCenter or System Center
- Select storage configuration parameters
- Deploy!
Data Protection With Zero Worry

- Unified monitoring and automation for easy and reliable setup and recovery
- Comprehensive protection utilizing backup, snapshots, and replication in a single integrated system
Protection group setup is simple

- Federated view of multiple sites
- Only a few steps to set up site pairing and remote replication
Data Protection

Easy to plan, test, verify, and recover

Dashboard with vital indicators for easy testing and verification
SRM integration for robust planning and automated recovery
One-click recovery
# UCP Family Overview

<table>
<thead>
<tr>
<th>Model</th>
<th>4000E</th>
<th>4000</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>VMware vCenter OR Microsoft System Center</td>
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- **Model**: 4000E and 4000
- **Networking**: Cisco converged, Brocade Fibre Channel; Cisco or Brocade IP
- **Storage**: HUS 130 or HUS VM, HUS-150, HUS-VM, VSP
- **Management**: UCP Director, CB500 (2–128)
- **Server**: CB500 (2–16), CB500 (2–128)

**New**
UCP 4000E – Entry-Level UCP System

Enterprise-class converged for the mid-market

Manage virtual and physical infrastructure from VMware vCenter or Microsoft System Center with Unified Compute Platform Director

Enterprise-class density, availability, and performance
On-demand compute and storage

Deploy in 5 days or less

Mid-market pricing and packaging
UCP 4000E – Entry-Level UCP System

- **Lower cost and faster deployment**
  - Compute, network, and initial storage fit in 1 rack
  - More storage can be installed on additional racks as needed

- **System components**
  - Unified Compute Platform Director (for VMware or Microsoft)
  - Hitachi Compute Blade 500 (up to 16 blades)
  - Choice of modular or enterprise storage
    - HUS VM or HUS 130; VSP bolt-on
  - Converged networks
    - Cisco Nexus 5548
  - Non-HA management server (HA cluster is optional)
Summary
Do More
Hitachi Unified Compute Platform

More Productive
More Streamlined
More Resources
Questions and Discussion
Upcoming WebTechs

- **WebTechs**, 9 a.m. PT, 12 p.m. ET
  - *Top 10 Business Trends Driving IT in 2015*, December 10

- **Check** [www.hds.com/webtech](http://www.hds.com/webtech) for
  - Links to the recording, the presentation, and Q&A (available next week)
  - Schedule and registration for upcoming WebTech sessions

Questions will be posted in the HDS Community: [http://community.hds.com/groups/webtech](http://community.hds.com/groups/webtech)
Thank You