Service Oriented Datacenter

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Agenda

- CIO Challenges
- Define the Service Oriented Data Center
- Evolution of Data Center Infrastructure
- Closing the Infrastructure, Application Gap – CISCO SONA
- Virtualized Datacenter
- Value of Datacraft Portfolio
- Datacenter Consolidation Framework
- Datacraft services Continuum
CIO Challenge

Simplify for Agility
- Growth
- Customer service
- Regulatory compliance
- Device management
- Varying skill sets
- Mobility

Reduce Costs and Complexity
- Maintenance
- Server sprawl
- Legacy platforms
- Deployment and maintenance
- Identity management
- Software updates

Resilience
- Malicious attacks, viruses, spam, etc.
- Evolving threats
- Patch management, VPN, etc.
- Secure access (employees, partners and customers)

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Defining The Service Oriented Data Center

Enterprise Applications
SOA / Web Services improve efficiency and agility

Advanced Networks
Self Defending networks Improved Application response, decrease server load, improve security

Virtualization
Independence from Physical Infrastructure Increase Utilization, Efficiency and Flexibility

Optimized Storage
Centralization and Standardization to Lower Costs, Improve Efficiency and Uptime

Automated Management
Dynamic Provisioning and Information Lifecycle Management (ILM) to Enable Business Agility
How do we get there?
Using an Architectural Approach to Closing Gaps

Introducing...

Cisco’s Service-Oriented Network Architecture (SONA)

Application Integration Gap
Need:
• Application integration
• Human interaction
• Productivity and innovation
Solution:
• Application fluency in the network
• Real-time interaction and collaboration

Resource Allocation Gap
Need:
• Flexible, efficient and secure usage of IT resources
Solution:
• Infrastructure Virtualization
• Self-Defending Networks
• Integrated Manageability

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Virtualized Datacenter

**Compute Virtualization**
- Infiniband Switching
- Server I/O Virtualization
- Policy-based Server Provisioning, VFrame

**Storage Virtualization**
- SAN Fabric Virtualization – VSAN
- Network-based virtualization – e.g. EMC Invista, with MDS Storage Service Module

**Virtualized Network Services**
- Virtual LANs (VLANs)
- Virtual Firewalls
- Service Chaining and Virtualization

**Virtualized User Connectivity**
- GLB, SSL / IPSec VPN
- MPLS, VRF Mapping

**Virtualized DC Interconnect**
- DWDM, Sonet,
- InterVSAN Routing
Value of Datacraft Solution Portfolio

Security
- Security Infrastructure
- Compliance Mgmt
- Content Mgmt
- ID Mgmt

iBOSS
- Network Mgmt Svcs
- Network Performance
- Service Mgmt

Converged Comms
- Telephony Infrastructure
- Integrated Collaboration

Microsoft
- Infrastructure Mgmt
- Content Delivery

DCS
- Datacenter Infrastructure
- Backup
- Archiving
- Surveillance

CIS
- CC Infrastructure
- Workforce Optimization
- Self-service
Datacenter Consolidation Framework

Plan
- Business Justification
- Ownership agreement
- Financial Planning

Design
- Business Proc Review
- DR Plan
- Operational Analysis
- App migration plan
- Service Level Impact analysis

Freeze Changes
- Business Level Report
- Quality of Experience
- App Provisioning
- App Optimization
- App Migration
- Infra Buildout
- Infra Migration

Operate
- Serv Level Monitoring
- Tx volume Collection
- Baseline KPI Monitor
- Operational Tools

Business
- App Inventory
- App Perf

Application
- Curr Design Review
- Curr Baseline Traffic
- Baseline sys perf

Infrastructure
- New Infra Design and Validate.
- Provisioning plan

Build
- Operational Analysis

Operate
- Business Level Report
- Quality of Experience
- App Provisioning
- App Optimization
- App Migration
- Infra Buildout
- Infra Migration

Operate
- Serv Level Monitoring
- Tx volume Collection
- Baseline KPI Monitor
- Operational Tools
Datacraft services Continuum

Plan
- Discovery & Design
  - DC Uptime Req
  - Physical Security
  - Connectivity Req
  - Compliance
  - Security Req
  - Application Profile
  - Storage Req
  - System Mgt Req
- Build Datacenter
  - Build DC
  - Cabling and Power
  - N/W Infrastructure
  - Security Infra
  - Server, storage
  - Sys Monitoring
  - System Mgt Infra
- Monitoring, Uptime
  - Facility Health Check
  - System and application Monitor
  - Storage and Backup Monitoring
  - Security Checks and monitoring
  - Bandwidth Optimization
- Lifecycle Support
  - DC Residency
  - Managed Network
  - Managed Security
  - Managed Backup
  - Managed Server
  - Managed Storage
- Alignment Benchmark
  - Facility Performance Assessment
  - CXO Security and Compliance Assessment
  - Datacenter Assessment
  - Network Performance Assessment
- Commercialize new ideas
  - Quarterly Technology Updates
  - Annual Client
  - Joint venture into commercial ideas

Build
- Support
- Manage
- Improve
- Innovate

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About Datacraft

Datacraft is the leading independent IT services and solution company in Asia Pacific. The company helps clients plan, build support and manage their IT infrastructures. Datacraft combines an expertise in networking, security, converged communications, datacenter storage and contact centre technologies, with advanced skills in consulting, integration and managed services, to craft total solutions and services for business.

A member of the Dimension Data Group, Datacraft is listed on the main board of the Singapore Exchange and is a component company of the Straits Times Index. Headquartered in Singapore, Datacraft spans more than 50 offices and has over 1,200 employees across 13 Asia Pacific markets.

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