



Cisco Data Center Best Practice – Enterprise:

DC Migration - On Line Trading



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Beyond Consolidation
Build **Virtualization**
Complete Automation
On the Network Architecture

Cisco Datacenter Day

Customer Challenges

- Customer experiences a “huge” spike in user activity every January, after the spike the traffic remains at an elevated level
- The belief is the current Data Center will not withstand the upcoming January traffic spike
- Current Data Center design can no longer scale
- Current Data Center can not support new services

Customer Business Requirements

- Low Latency Infrastructure
- Scalable Design (5 + Years)
- High Availability
- Secure Environment

DCN Engagement Specifications

- High Level Design: Low Latency solution that can scale in environment for 5+ years
- Solution: 6500 3-Tier 10Gig Infrastructure Design
- HW: 50+ - Layer 2 Switches (65), Core Routers (3), SLB (15), Cisco Guards (3), Cisco Detectors (4)
- Services: DC Network Planning and Design, DC Network Configuration and Testing, DC Network Migration, DC Network Management Review and Design, DC Network Knowledge Transfer
- Time Table: June 2006 through January 2007

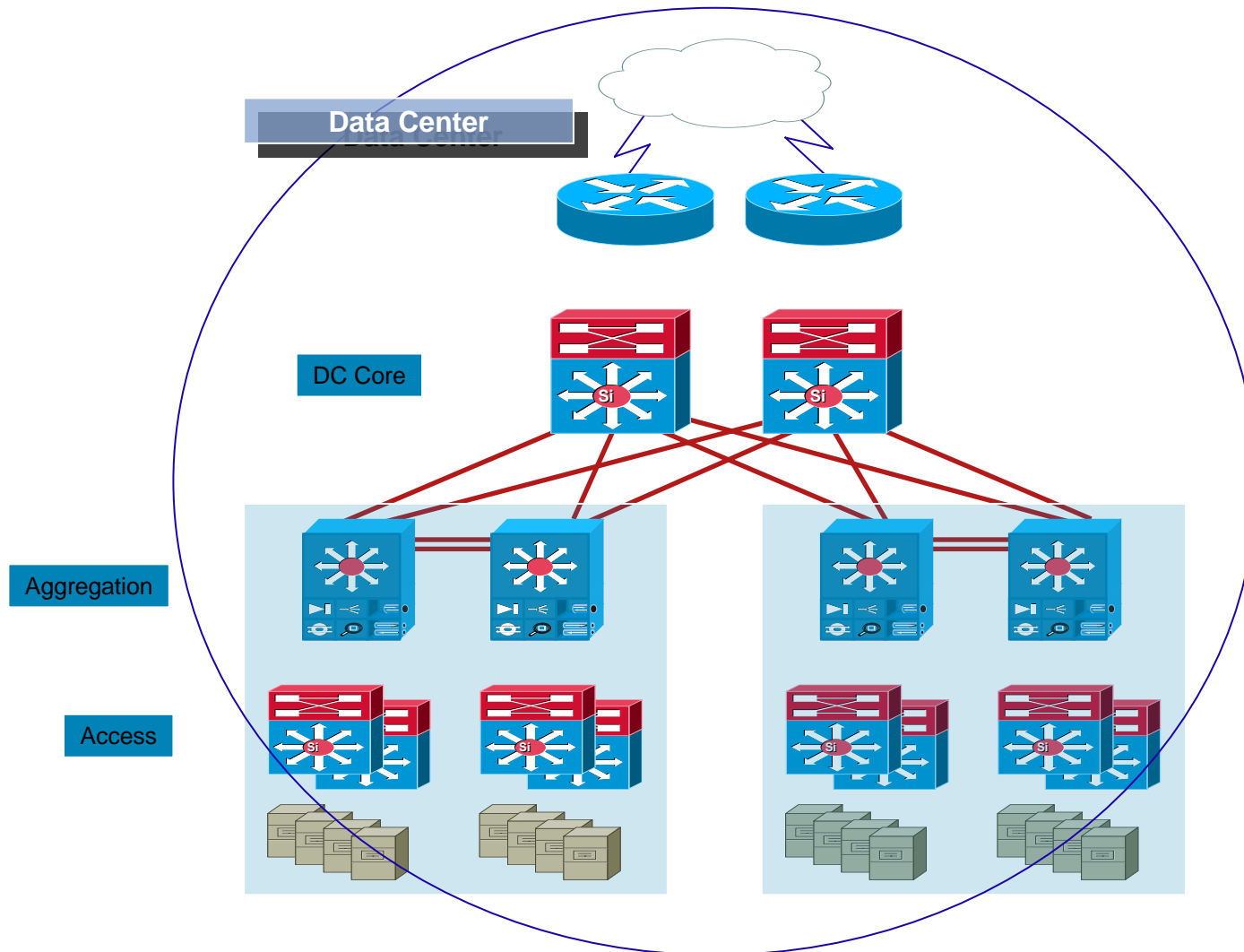
Cisco DCN Engagement Activities

- High-Level Design Generated
- Final Cisco Project Plan
- Final DC Design Review
- Low-Level Design Generated
- Initial NMS Architecture Review
- Managed Network Equipment Delivery
- Network Test Plan Development
- Device Software Codes Selection

Cisco DCN Engagement Activities

- Cisco HW Staging and Burn-in
- Device Configuration
- Device Connectivity Validation
- Test Plan Execution (Partnered w/Spirent Comm.)
- Initial NMS Deployments (CiscoWorks,TACACS)
- Migration Planning
- Migration Support
- Design Knowledge Transfer
- On Site Support (2 Engineers, 4 Months)

Physical Architecture Best Practices



Integrated DCN Solutions Best Practices

- Several Design Approaches Available – Chosen architecture is the one best for the Applications in the Data Center

