. . | . . . | . . CISCO

Data Center 3.0 Infrastructure Transformation



"Le Datacenter au centre de la strategy de l'entreprise"

Emmanuel SCHUPP Middle East & Africa, Business Development Mgr La continuité des affaires ...

Qu'auriez vous fait si :

- Le siège social et le data center étaient détruits ?
- Le réseau qui supportait plus de 5000 desktops et serveurs était hors d'usage ?
- Tous les employés du siège social étaient déplacés ?
- Toutes les communications des PBX étaient coupés?
- 45 agences distantes n'avaient plus accès aux applications informatiques de la compagnie ?

Le résultat d'une constante réflexion de son Systeme d'Information ..

Lehman Bros. Reopened for Business the Next Day

Recovering Applications and Data

Synchronized data centers across a metro network ensured fast recovery of data and applications

Continuous Communications

IP telephony network enabled continuous voice communications

Voice traffic rerouted over IP to alternate PSTN gateways in Europe, enabled communications with customers

Ensuring Continuous Access

Data and communications secured over public networks using VPN technology provided continued access

Instant offices in hotel rooms, using wireless and VPN technologies allowed key personnel to get back to work

Les coûts versus les Services : Quel Equilibre?



Bay Bridge:

- Original cost in 1936: \$1.1 billion (adjusted for today's \$)
- Estimated cost to expand: \$6.2 billion... and climbing

A Poorly Planned Architecture

Golden Gate Bridge:

 Original cost to in 1937: \$446 million (adjusted for today's \$)

A Well Planned Architecture

Deux types de réflexion pour les dirigants

Those that view the value that information technology can bring to their business as strategic

OR

Those that see IT as a cost center



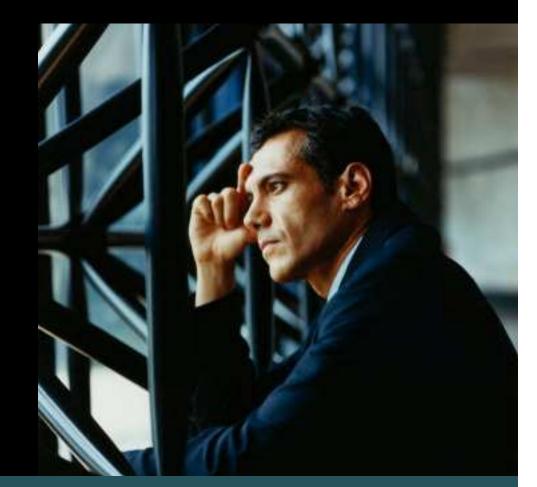
Le besoin Business : Flexibilité & Optimisation

- Economics: Globalization demands flexibility
 - Business processes: The only constant is change
 - -> New products & services
 - -> New customer expectations
- Information: Greater availability tented
 Compliance is a loss in the second secon Sarbanes-Oxley, RAPIRIOT Act, Basel II, HIPAA
- Reusable assets an cut costs

Services Oriented Architecture is #1 on CIO's List

64% of CIO respondents plan to implement serviceoriented architectures in the coming year.

Talking about how Services from the Network contribute to their SOA plans makes IT leaders relevant to the CIO



And no need to be intimidated!! ".... interest persists even though many Executives have been unclear about the precise meaning of the term 'SOA'"

Etendre le rôle du réseau dans le business de l'entreprise



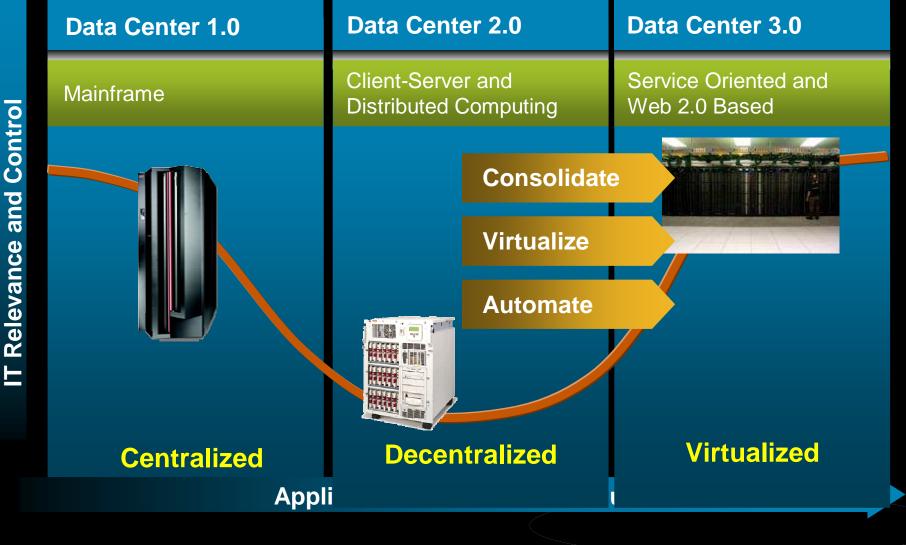
Où est CISCO dans ce model SOA ?

Data Centers under Increasing Pressure

New Business Pressures



Data Center Evolution



The Applications Landscape Is Evolving (Need Agility)



- **Client-to-Server** \bullet
- Data only ightarrow
- Delays are OK ightarrow
- Server-Centric
- Static documents •
- Static repository
- Wired devices \bullet







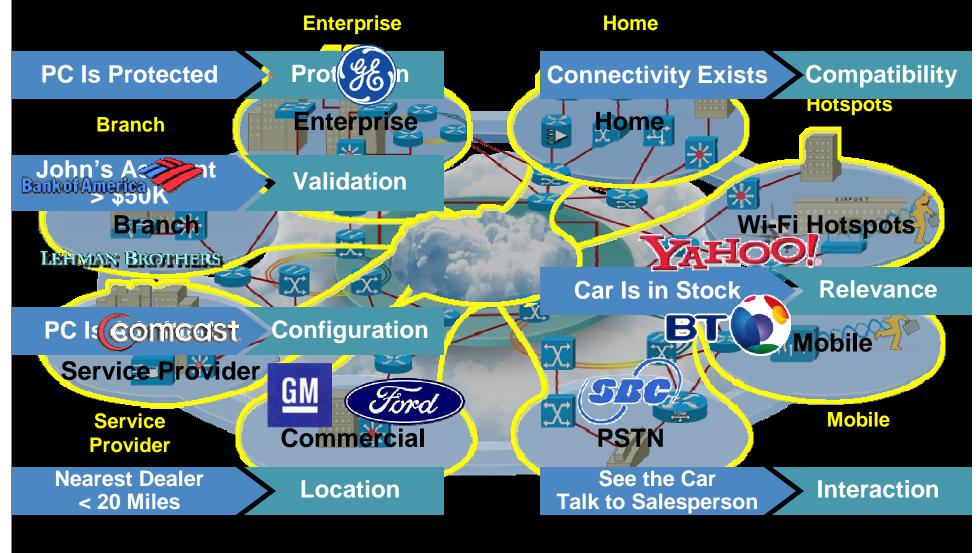
ZŐNF

Collaborative

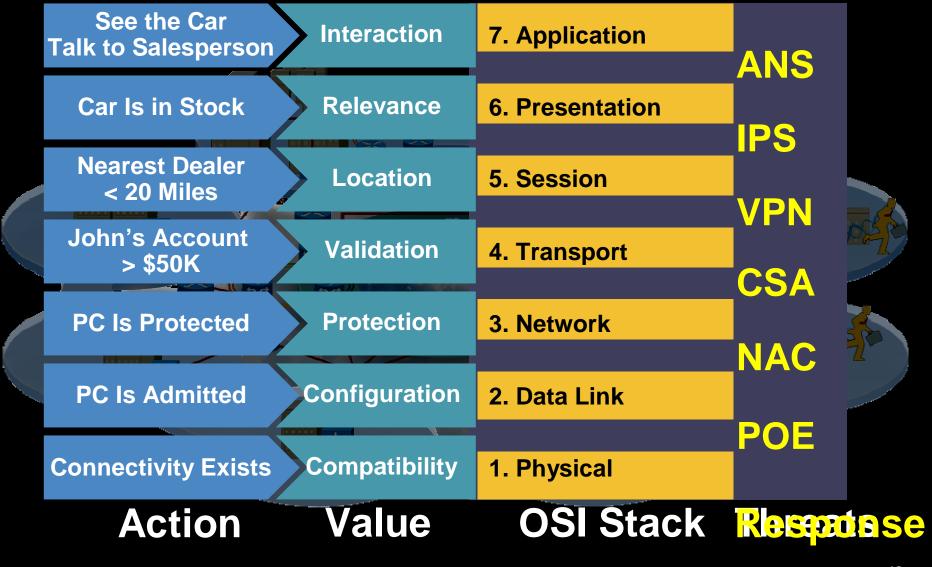
Busines Agility

- Any-to-Any \bullet
- Multimedia ightarrow
- **Real-time** \bullet
- Server-Less or \bullet Server-Assisted
- Shared information
- Dynamic sharing
- Wired and Wireless devices

Why Integrated Architecture Matters...



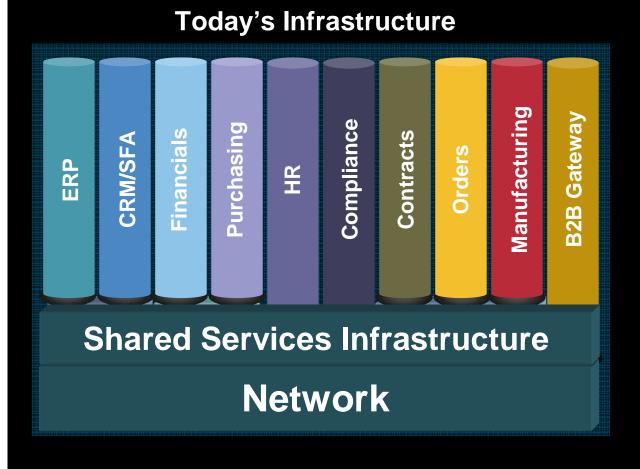
Le réseau est présent dans toutes les couches



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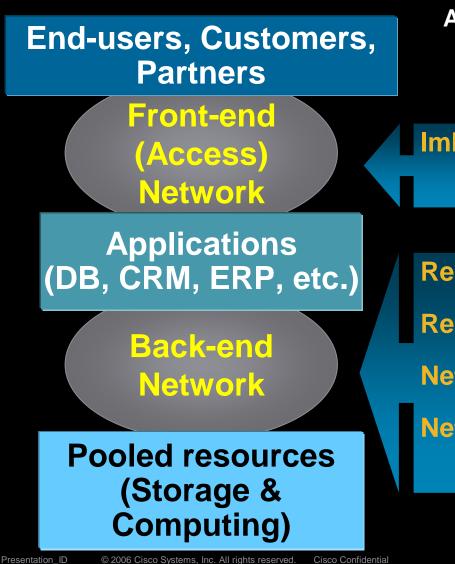
The Expanding Role of the Network

The Logical Place To Begin To Build **Extended Shared Services Infrastructure**



- Extensions for common, shared application and
- resource services Siloed applications not and protocols designed for integration
- Extend Cisco's industry leadership in protocol design, integration, and optimization Multiple application
- platforms Extend the network's
- tegramoa, ssaared, vibilitationventabler (connected)

Cisco Data Centre Network Architecture

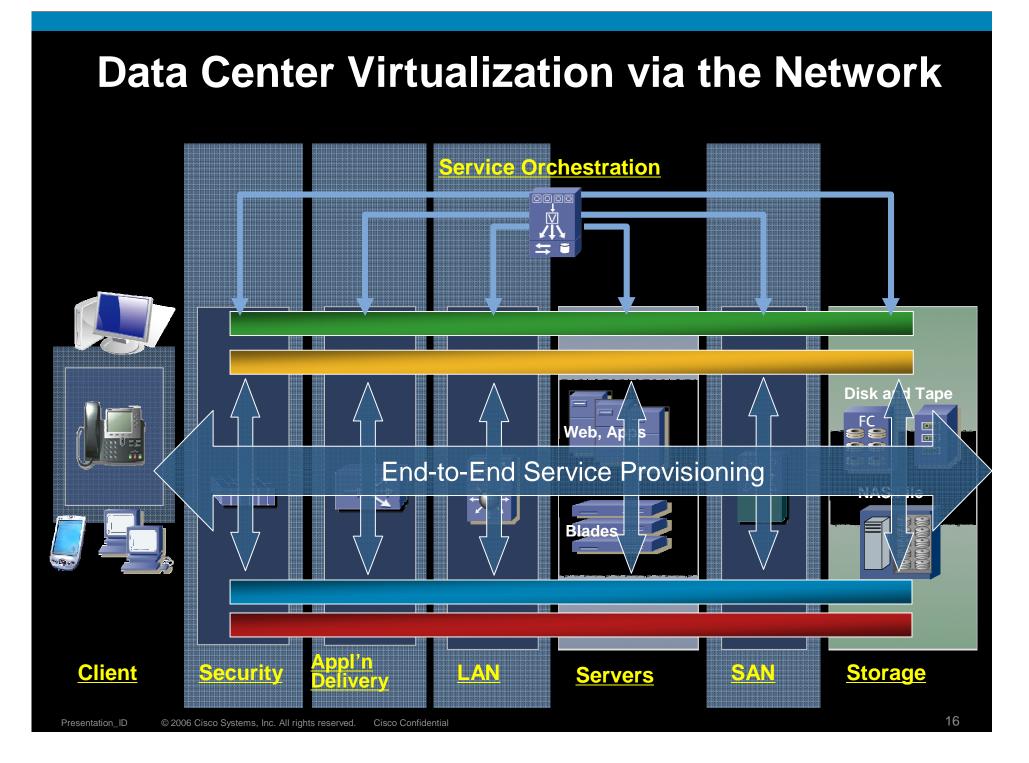


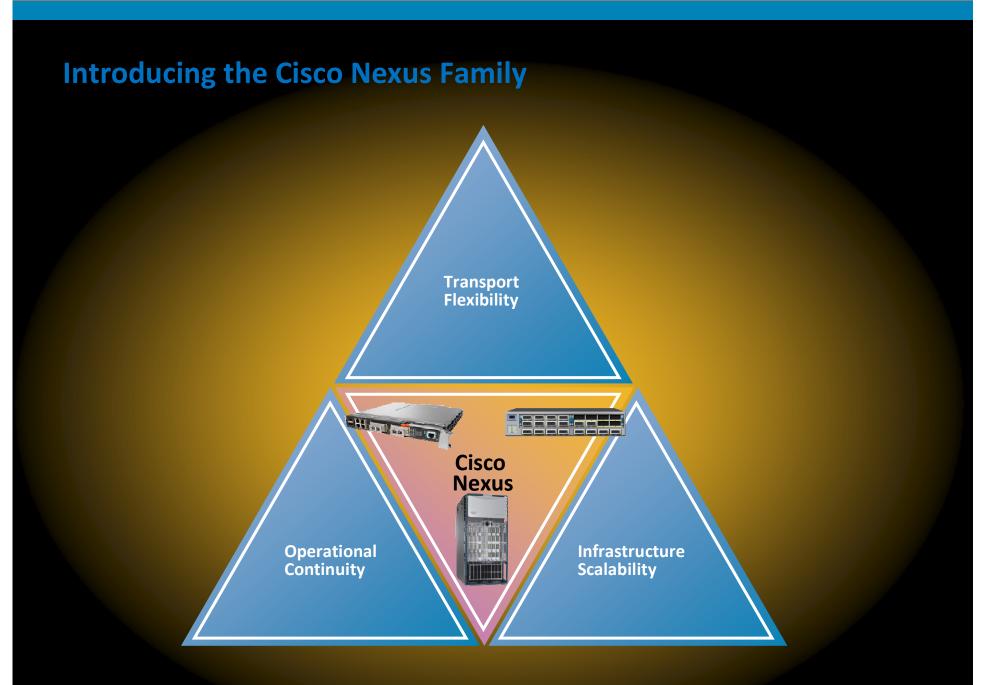
Amélioration Risques de migration

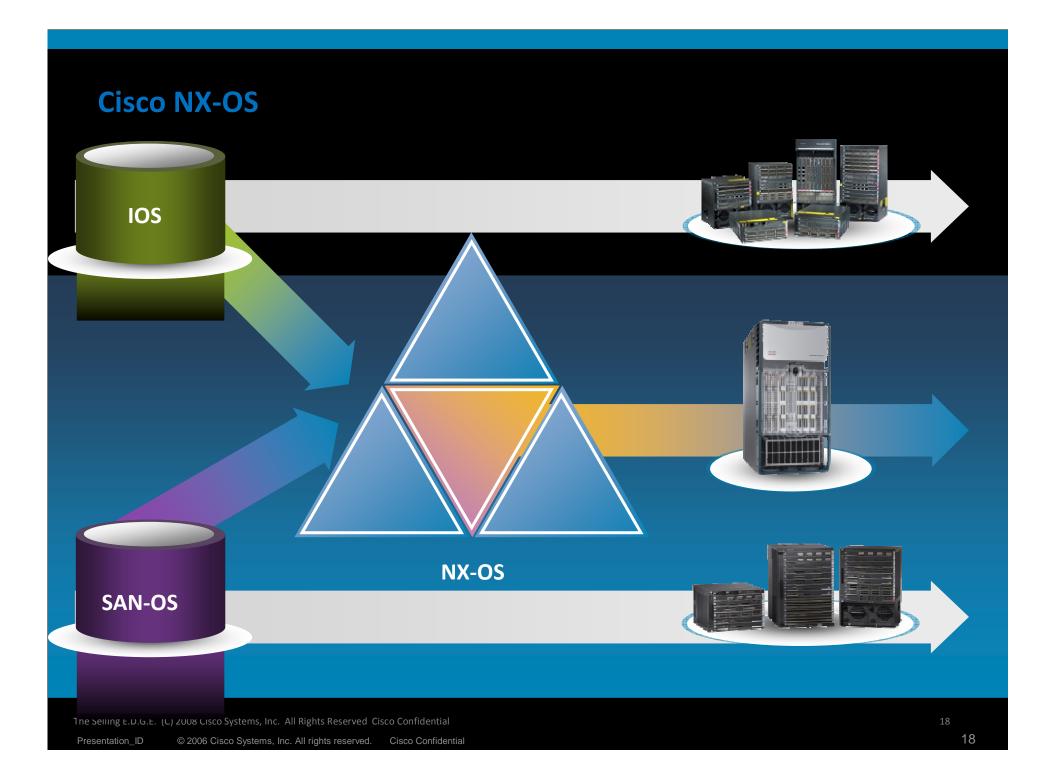
- Temps de réponse
- Contrôle des coûts

Imbedded Network Services Application, Security Resilient Access

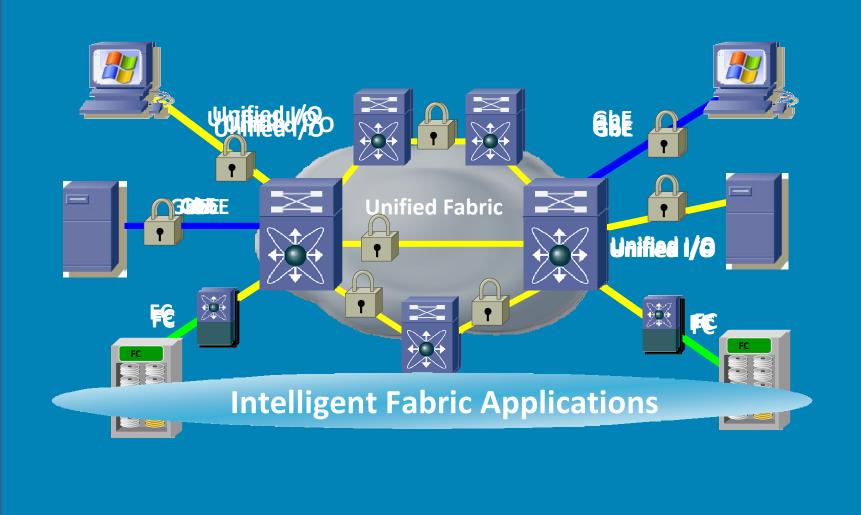
Resources Consolidation Network, Server, & Storage Resources Virtualization Network, Server, & Storage Network Services Integration Security, Storage, & Compute Network Services Automation Application offload, Provisioning Services orchestration



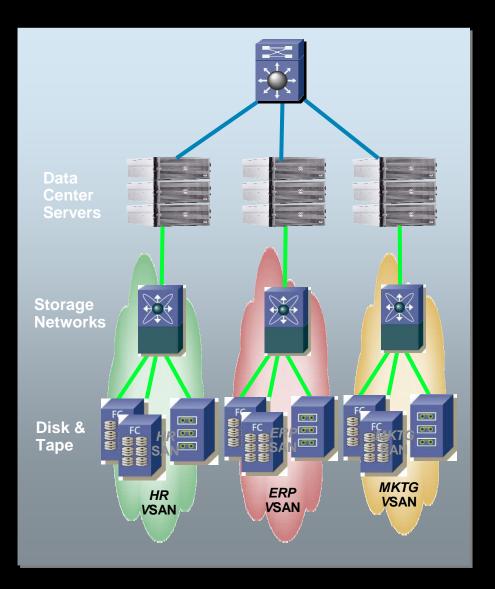




The Cisco Data Center Revolution

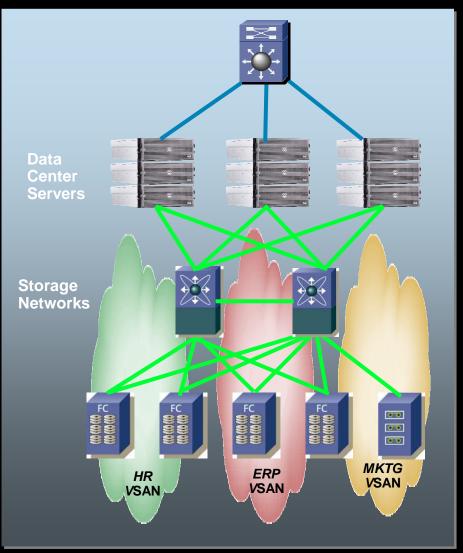


SAN Storage Consolidation & Virtualization



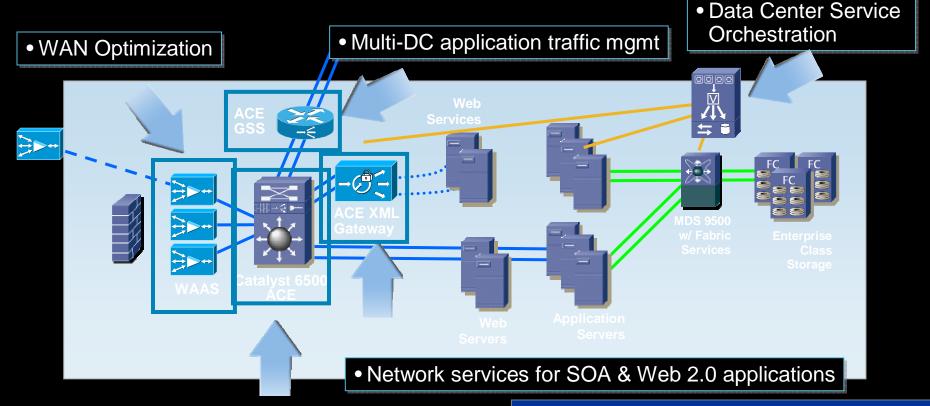
- Storage Networks allow sharing and Consolidation of Disc & Tape across multiple servers
- Utilization increased to ~50%
- Leads to SAN Proliferation and 'Islands' based on capacity

SAN Storage Consolidation & Virtualization Solution: Intelligent Storage Services



- Storage Networks allow sharing and Consolidation of Disc & Tape across multiple servers
- Utilization increased to ~50%
- Leads to SAN Proliferation and 'Islands' based on capacity
- Virtual SANs (VSANs) allow the further consolidation and virtualization of SAN islands into a large common resource pool
- Utilization increases to ~70%

Addressing Critical Challenges Cisco Application Networking Solutions

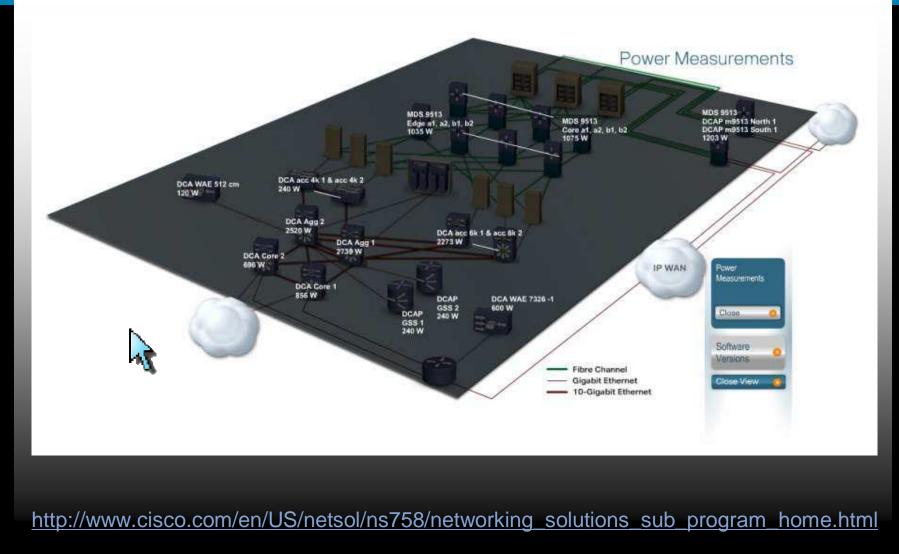


- Virtualized application services
- Application Switching and Server Offload
- Application Acceleration
- Application and Server Farm Security

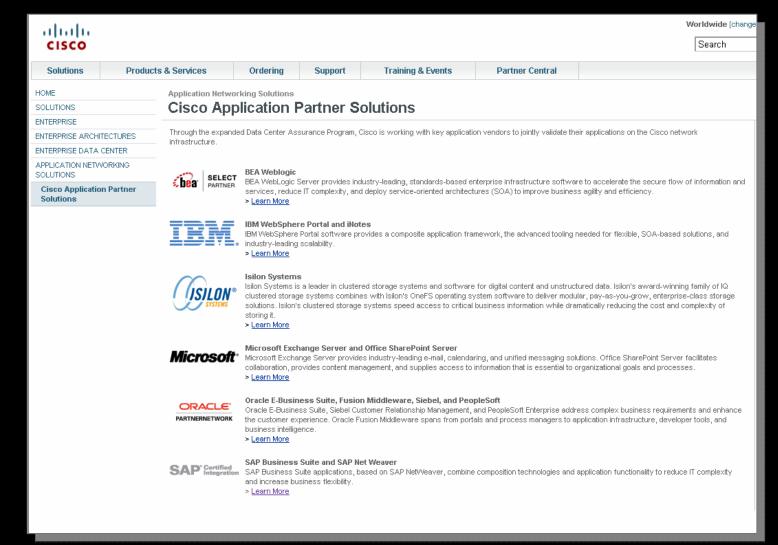
Solution Benefits:

- Faster application deployment/scale
- Maximum availability & performance
- Comprehensive security
- Ready for SOA evolution
- Fully integrated into the network

Data Center Assurance: Tested Models, Best Practices

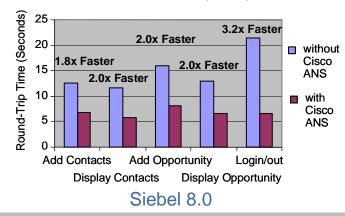


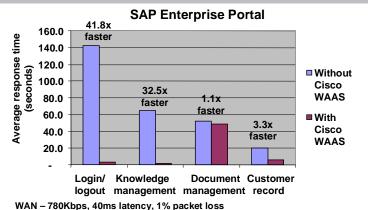
Data Center Assurance Program (DCAP) A Range of Selling Resources



...and Real Results for Your Customers

Siebel 8.0 over T1, 80ms latency, .1% packet loss

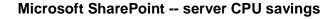


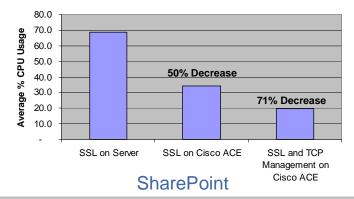


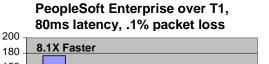
Enterprise Portal & NetWeaver

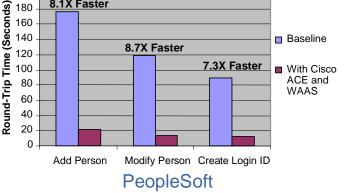
ORACLE











Microsoft

In Summary



- Data Center consolidation and virtualization
- Web 2.0 and SOA
- Continued branch office growth

New customer requirements include:

- Simplifying deployment of Web2.0 and SOA
- Dynamic provisioning of DC infrastructure
- WAN Optimization maintaining security & visibility

To meet these requirements you need solutions, not point products

Cisco ANS solutions extend application awareness end-to-end. Any application, anytime, anywhere