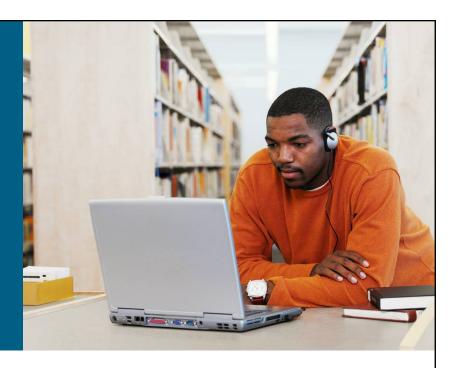


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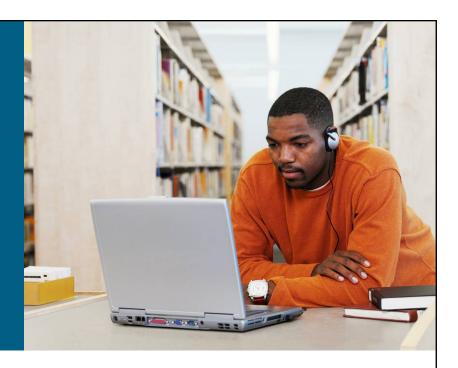
Applying a Methodology to Network Design



Designing for Cisco Internetwork Solutions (DESGN) v2.0

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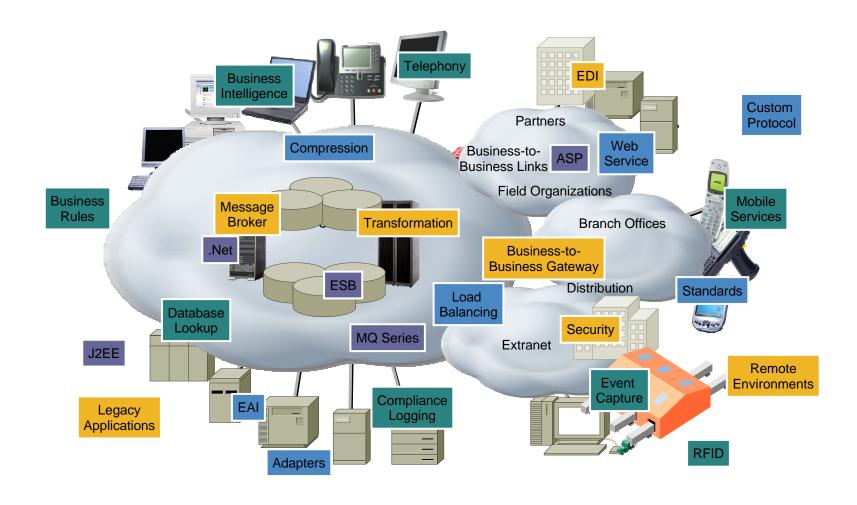
Applying a Methodology to Network Design



Introducing the Cisco Service-Oriented Network Architecture

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Growth of Applications



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IT Evolution— From Connectivity to Intelligent Systems

Real-Time Infrastructure

New Network Architecture

Intelligent Information **Network**

Applications Work Together as an **Integrated System** (Messages)

The Network and

Mainframe **Proprietary** Network **Integrated System** for Terminal to Mainframe

Client-Server **Packet Networks**

> Demand for Networks to Connect Multivendor **Devices** (Packets)

Pervasive, Open **Networks Enable** Client-Server to **Extend Beyond** Corporate **Boundaries** (TCP/IP)

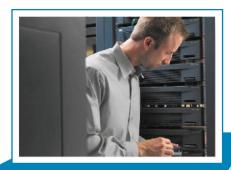
Internet

Network of **Networks**

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Connectivity (VTAM)

New Business Requirements







Evolve from Connectivity to Intelligent Systems Participate Actively in Delivery of Applications and Network Services

Provide the Foundation for Transforming Business Processes

304P_017



The Network Touches Everything

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Intelligence in the Network

Network Intelligence

Integrated Applications



Network-Enabled Applications

Phase 3

Integrated Services



Virtualized Resources and Services

Phase 2

Integrated Transport



Intelligent Movement of Data/Voice/Video Across a System of Networks

Phase 1

Time

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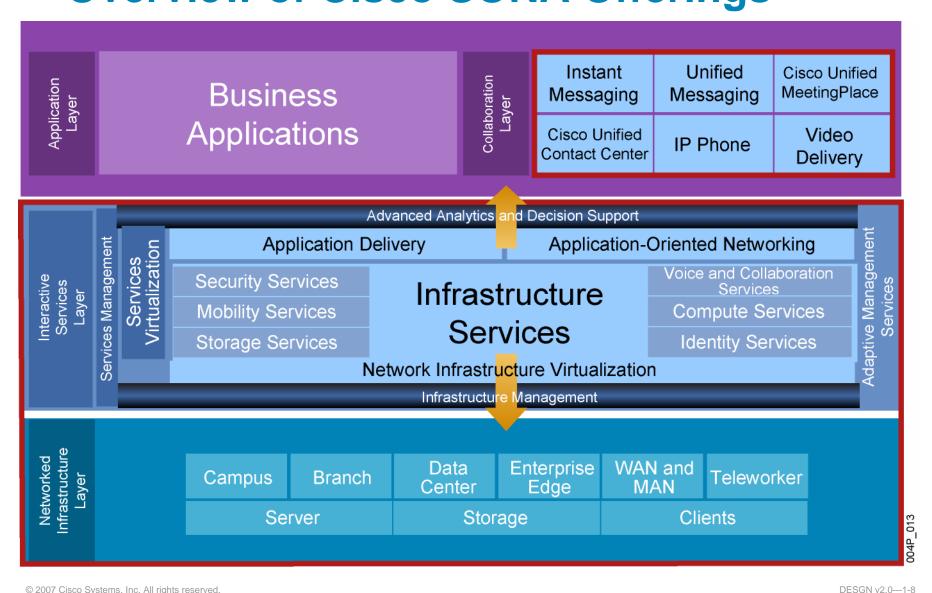
Cisco Service-Oriented Network Architecture Framework

- SONA is an architectural framework.
- SONA brings several advantages to enterprises:
 - Outlines how enterprises can evolve toward a more intelligent network
 - Illustrates how to build integrated systems across a fully converged intelligent infrastructure
 - Improves flexibility and increases efficiency

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Cisco SONA Layers Collaboration Application Collaboration Business **Applications Applications Application Networking Services** Adaptive Management nteractive Services Infrastructure Services nfrastructure Places in the Network Networked Clients Server Storage 004P_001 © 2007 Cisco Systems, Inc. All rights reserved DESGN v2.0-1-7

Overview of Cisco SONA Offerings



Benefits of SONA

	Description
Functionality	Supports organizational requirements
Scalability	Supports growth and expansion of organizational tasks
Availability	Provides necessary services reliably, anywhere, anytime
Performance	Provides responsiveness, throughput, and utilization on a per-application basis
Manageability	Provides control, performance monitoring, and fault detection
Efficiency	Provides network services with reasonable operational costs and appropriate capital investment

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Summary

- Drivers for a new network architecture include these factors:
 - Growth of applications
 - IT evolution from connectivity to intelligent systems
 - Increased business expectations for networks
- Cisco's vision of intelligence in the network aligns network and business requirements in three phases:
 - Phase 1 is integrated transport.
 - Phase 2 is integrated services.
 - Phase 3 is integrated applications.
- Cisco SONA is the enterprise framework for building intelligence in the network:
 - Layer 1 is the integrated infrastructure layer.
 - Layer 2 is the interactive services layer.
 - Layer 3 is the application layer.

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