

Cisco Advanced Services Network Availability Improvement Support

Prepared for XX

Agenda

Cisco.com



Market Conditions Today



Network Availability Improvement Support



The Cisco Advantage



Next Steps



Cisco Advanced Services Overview

Business Drivers Influencing Network Performance



The Importance of Network Solutions



Features Enterprise Customers Want Most

Cisco.com

High availability tops the list of features desired for building WANs, VPNs, and Internet access

- 1. High availability/automatic failover
- 2. Manageability
- 3. Ease of use
- 4. Integrated security
- **5. Standards based**

Sustaining Availability— Continual Process Improvement



Factors Affecting Network Availability

Cisco.com



Not scaled to user group

What is High Availability?

- Network path availability
- Device availability

End-user service availability

Percent Availability	No. of Nines	Downtime Minutes per Year	Description
99%	2 nines	5000	
99.9%	3 nines	500	Well-managed
99.99%	4 nines	50	Highly available
99.999%	5 nines	5	Carrier class
99.9999%	6 nines	.5	

The High Cost of Network Downtime

- Loss of productivity, overtime, rework
- Ability to meet service-level agreements
- Effect on customer commitments, deadlines
- Decline in customer satisfaction
- Weakened market position, business image

Potential Loss of Revenue by Industry Sector

Cisco.com

Industry Sector	Revenue/Hour	Revenue/Employee/Hour
Financial institutions	\$1.49 M	\$1079
Banking	\$997 K	\$131
Healthcare	\$636 K	\$143
Telecommunication	\$2.06 M	\$169
Retail	\$1.11 M	\$244

Source: Meta, Feb 5, 2002

- Cisco[®] can help you assess costs for network investment as well as your return on investment
- Network Availability Improvement Support has demonstrated return on investment for Fortune 250 companies worldwide

Cisco Services Portfolio

Cisco.com

Accelerate Customer Success

Networked Virtual Organization	Advisory Services	Vision to Reality
Speed of Migration Investment Optimization	Advanced Services	Network to Application
Investment Protection	Technical Support Services	Device to Network

Network Availability Improvement Support Services

Cisco.com

Standard Packaged Subscription Services	Subscription Options	A-La-Carte Services
Network Analysis Support	Onsite Program Management	Curriculum Planning Service
Gap Resolution Support	Onsite Gap Resolution Support	Functional Area Analysis
	Software Management Process Analysis*	Network Reliability Improvement Analysis
	Software Management Process Analysis Implementation*	Operational Readiness Assessment

* Software Management Process Analysis and Software Management Process Analysis Implementation are subscription options from Network Availability Improvement Support that require the purchase of the Software Strategy service from Network Optimization Support

Standard Packaged Subscription Services

Service	Value
Network Analysis Support	Helps you achieve network health and availability targets
	Analyzes your environment for conformance to leading operational practices
	Identifies gaps, recommends changes
Gap Resolution Support	Helps you implement gap resolution projects recommended through Network Analysis Support

Subscription Options

Cisco.com

Service	Value
Onsite Program Management	Work with a Cisco [®] Advanced Services <u>program</u> <u>manager</u> to implement gap-resolution projects
Onsite Gap Resolution Support	Work with a Cisco Advanced Services <u>engineer</u> to implement gap-resolution projects
Software Management Process Analysis*	Identifies critical conformance gaps in your software management processes Recommends improvements
Software Management Process Analysis Implementation*	Helps reduce the time to implement recommendations and improve network performance
	Augments your staff's knowledge and experience through ongoing consultation

* Software Management Process Analysis and Software Management Process Analysis Implementation are subscription options for Network Availability Improvement Support that require the purchase of the Software Strategy service from Network Optimization Support.

A-La-Carte Services

Service	Value
Curriculum Planning Service	Helps increase your network-support staff's skill and experience by providing a roadmap for training or informal knowledge transfer
Functional Area Analysis	Delivers a targeted, in-depth analysis that identifies conformance gaps in critical areas Recommends improvements
Network Reliability Improvement Analysis	Help you improve resiliency and availability by assessing areas of your network design, operational processes, and operational readiness to identify gaps Provides recommendations
Operational Readiness Assessment	Helps you to avoid costly errors that could contribute to downtime and outages by analyzing your network management and operational methods for conformance to leading practices

Customer Case Study—EDS

Cisco.com

Profile

- A recognized global leader in delivering quality service to its business and government clients
- EDS' global IT infrastructure is unmatched in the services industry
- EDS has operated a global service delivery base for more than a decade, enabling delivery of services around-the-clock or from specific countries or time zones to better serve clients

Concerns

- Achieving maximum value from its global IT infrastructure
- Continuously improving service quality
- Aggressive delivery-time schedules
- Increased need for high-availability networks



Customer Case Study—EDS (continued)

Cisco.com

Services Engaged

Operational Readiness Assessments

Results

- Improved network availability
- Improved network change management
- Network management and operational methods aligned with leading industry practices



Customer Testimonial—EDS

Cisco.com

"The support that we're receiving from Cisco Advanced Services enables EDS to provide a higher level of service across our network than we could provide without Cisco Advanced Services. I can get Cisco resources when I need them, where I need them, and I can have access to their expertise that enables me to blend it with the EDS team so that ultimately we can provide a better end deliverable to the EDS clients."

Tom Egan
President, Global Services Delivery
EDS

CISCO CONFIDENTIAL



Network Availability Improvement Support Customers



Cisco Services Sustainable Differentiators

Cisco.com

People

- Cisco® certifications (2400+ CCIE® certified engineers)
- Industry-recognized experts
- Received several patents
- Authored numerous technical books

Processes

- Cisco Advanced Services knowledge database
- Operational leading practices
- High-availability methods and procedures
- Close alignment with development engineering

Tools

- NATKit
- Audits
- TAC Web
- Cisco Net Collector

Partners

- Globally scalable
- Specialized
- Use leading practices











- Maintain high availability of your network and minimize the effects of outages
- Decrease operating expenses and increase the return on your network investment
- Manage network consolidation, network security threats, software updates, and new solution deployments
- Maintain an optimized, high-performance network



- Gap analysis
- Operational services mapping
- ROI analysis

CISCO SYSTEMS

Presentation_ID

High Availability—Outline of Approach

Cisco.com

Phase I

Set up data collection and analysis methodology

Establish network availability baseline

Set high availability targets

Phase II

Regular measurement and tracking of network availability (DPM/MTTR)

Conversions to defects per million (DPM)

Set up core team and subteams

Phase III

Track network and application impact for each ticket/MTTR

Categorize DPM by root cause and begin trending

Jointly identify key initiatives or areas of focus to eliminate defects

Carry out key assessments as needed (for example, Operational Readiness Assessment)

Identify requirements for network monitoring and data collection

Data Collection and Analysis Process

- Understand current data collection methodology
 - Customer internal ticket database
 - Manual
- Collect and provide to Cisco[®] the following network performance data monthly:
 - Outage start time (date and time)
 - Service restore time (date and time)
 - **Problem description**
 - Root cause
 - Resolution
 - Number of customers affected
 - Equipment model
 - **Component or part**
 - Planned maintenance activity and unplanned activity
 - Total customers and ports on network

Cisco Advanced Services Return on Investment

- Cost displacement such as reduced investment due to network optimization services, or reduced training expenses due to knowledge transfer support
- Cost avoidance such as reduced network outages as a result of critical problem resolution services
- Revenue gain such as faster time to market from Cisco[®] design reviews and implementation support services