



Enterprise Network Building Security

How Cisco IT Controls Building
Security over the Enterprise
WAN



A Cisco on Cisco Case Study: Inside Cisco IT

Overview

- Challenge

Defining corporate physical-security philosophy, design standard, and support model

- Solution

Centralized Server Architecture & WAN, SOC, and Outsourcing Systems Integration

- Results

Efficient Database, Cost Savings using WAN, and Centralizing using IP network

- Next Steps

STS team monitoring the evolution of IP-based security applications

Challenge: Defining corporate physical-security philosophy, design standard, and support model

- Defining and developing a corporate physical-security philosophy
 - Primary goal of providing 24-hour access to all Cisco employees
- Defining and developing a corporate physical-security design standard
 - Developing an enterprise wide security system with centralized management
- Building a global systems-integration support model
 - Most challenging issue because numerous complex systems in various locations worldwide must be supported

Solution: Centralized Server Architecture & WAN, SOC, and Outsourcing Systems Integration

- Centralized Server Architecture and WAN

 - Based on a single set of equipment standards, supported by regional security servers worldwide

 - Standardized access-control and alarm systems at every site & supports them with a single set of software tools

- Security Operations Centers (SOC)

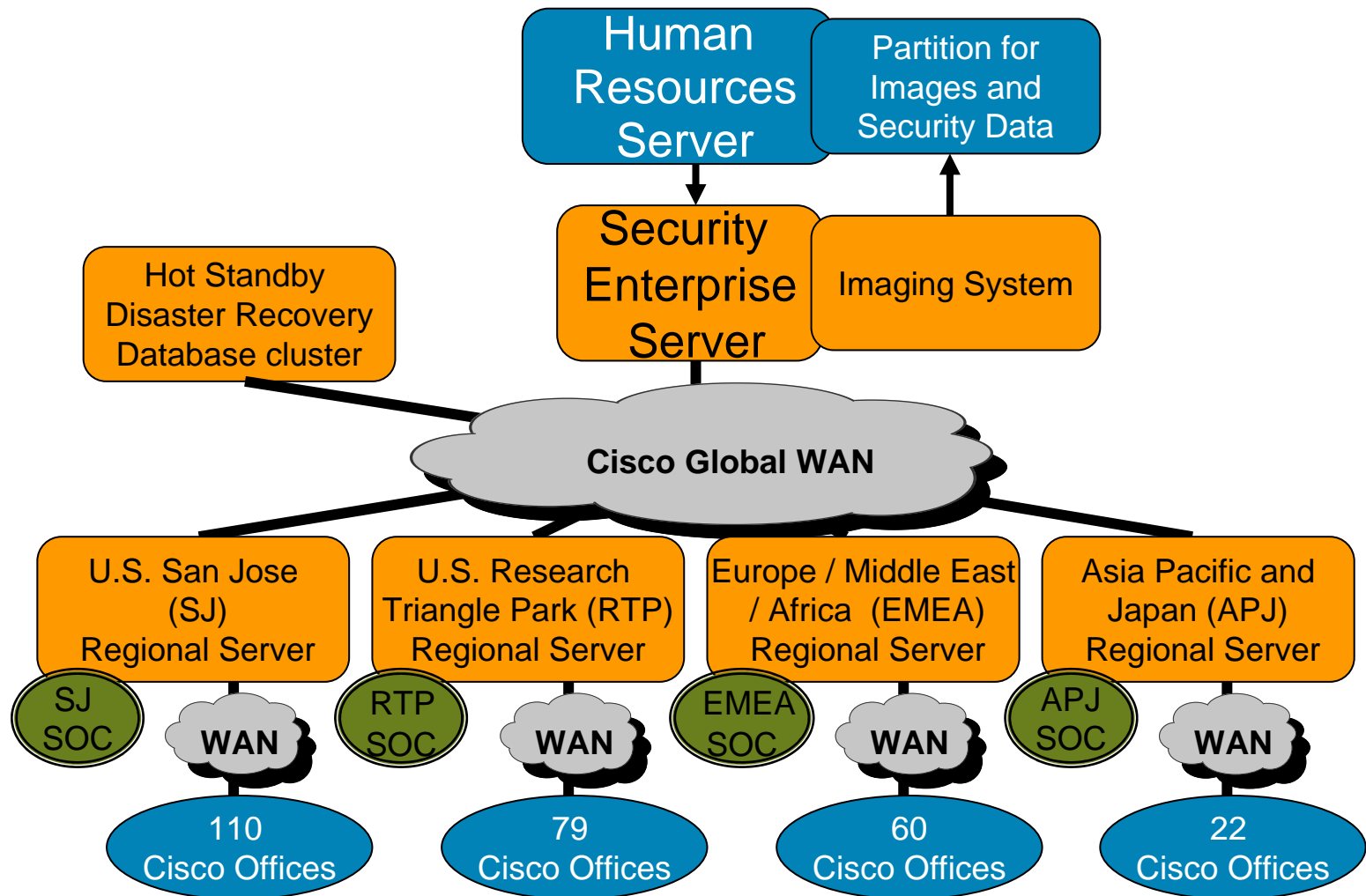
 - Focal points for alarm management and response programs

 - Central emergency call center for Cisco employees

- Outsourcing Systems Integration

 - Single points of contact for each major integration component: program management, project management, and service coordination.

Solution: Present Day Cisco Enterprise Security System



Solution: Comparing Employee Picture to a Video Camera Output

The screenshot displays the 'Alarm Monitoring - SA' software interface. The main window shows a list of alarm events. A 'Video Verification' window is open, showing a 'Live Video' feed and a 'Stored Image' of an employee. The 'Stored Image' is a photograph of a woman with dark hair, wearing a white top. A red arrow points from the 'Live Video' area to the 'Stored Image' area. The 'Video Verification' window also includes a 'Photograph' section with a 'Stored Image' of the same woman. A red arrow points from the 'Stored Image' to the 'Photograph' section. The 'Video Verification' window also includes a 'Selected readers' list and a table of alarm events.

Alarm Description	Time/Date	Device	Input/Output	Card
Communications Restored	3:45:41 PM 10/24/2001	LDVS-1 Camera-1	None	
Communications Restored	3:45:52 PM 10/24/2001	LDVS-1 Camera-1	None	
Communications Lost	3:47:18 PM 10/24/2001	LDVS-1 Camera-1	None	
Granted Access	3:52:58 PM 10/24/2001	LNL-2005	None	Bill Mykins (533)

Alarm Description	Cardholder	Time/Date	Reader
Granted Access	Kari Karweick (...)	3:53:40 PM 1...	HID ProxPro

Viewing: all Active count: 0 Offline count: 56 Mask count: 0

Ready Connection errors: 0 Offline controllers: 1 Offline readers: 7 Offline alarm panels: 2 3:55 PM

Solution: Present-Day Security Operations Center



Solution: Proximity Badge Reader



Results: Efficient Database, Cost Savings using WAN, and Centralizing using IP network

- Integrated system allows immediate adding or removal of people from its database
 - Global model allows employees to travel & work at any location
- Cost savings by using corporate WAN for low-bandwidth alarm information
 - WAN allows necessary IP video information
 - Gives SOC live, real-time information about local events & alarms
- Centralizing, automating, and using IP network
 - Eliminated 300 security officers to 3 people working from each region's centralized SOC

Next Steps: STS team monitoring the evolution of IP-based security applications

- Develop IP card readers & IP door-control modules
 - Appliances connected to the local IP network
- Linking local police department to its closed-circuit video systems over the Internet
 - Reduce the number of false alarms
- Currently running a pilot program where a patrol vehicle is equipped with a wireless tablet PC running its security management and video applications
- Smartcard technology is being considered

To read the entire case study, or for additional Cisco IT case studies on a variety of business solutions, visit Cisco on Cisco: Inside Cisco IT

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