



Cisco IT
Executive
Presentation
Virtual Private
Networks



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Produced by the Cisco on Cisco team within Cisco IT

Access at Cisco

- Worldwide mobility in the office, at home, and on the road—
Global, scalable, and secure
- Every employee has seamless IP VPN access to Cisco via Internet
- Broadband access at home expensed back to Cisco wide VPN Infrastructure deployed
 - 13 VPN concentrator locations
 - 12,000 concurrent VPN connections
 - Cisco VPN clients on laptops



Executive Summary

Two Clients:

Software VPN Client

- Global VPN remote access (Windows and Linux) to support our employees, partners, and suppliers
- **On average 12,000 concurrent connections at any given time**



Hardware VPN Client

- Standardized home router solution
- “Touchless” deployment, security monitoring and management



VPN Concentrator Points of Presence

Managing 12,000 Concurrent Connections



Networked Home

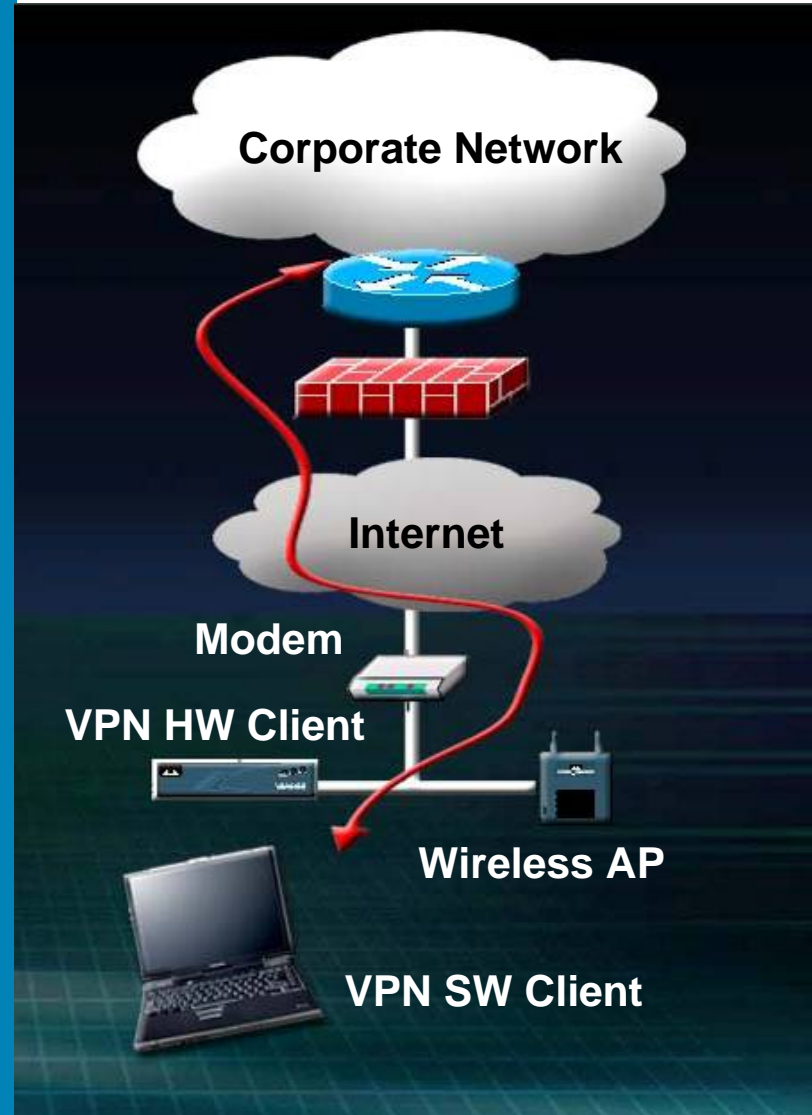
- The “Cisco Virtual Office”— Full office functionality to employees connecting from a home office
- Providing secure end-to-end connectivity via dynamic multipoint VPN
 - Enterprise managed
 - Stateful firewall
 - Network-Based Application Recognition (NBAR)
 - Intrusion detection
- QoS enabled



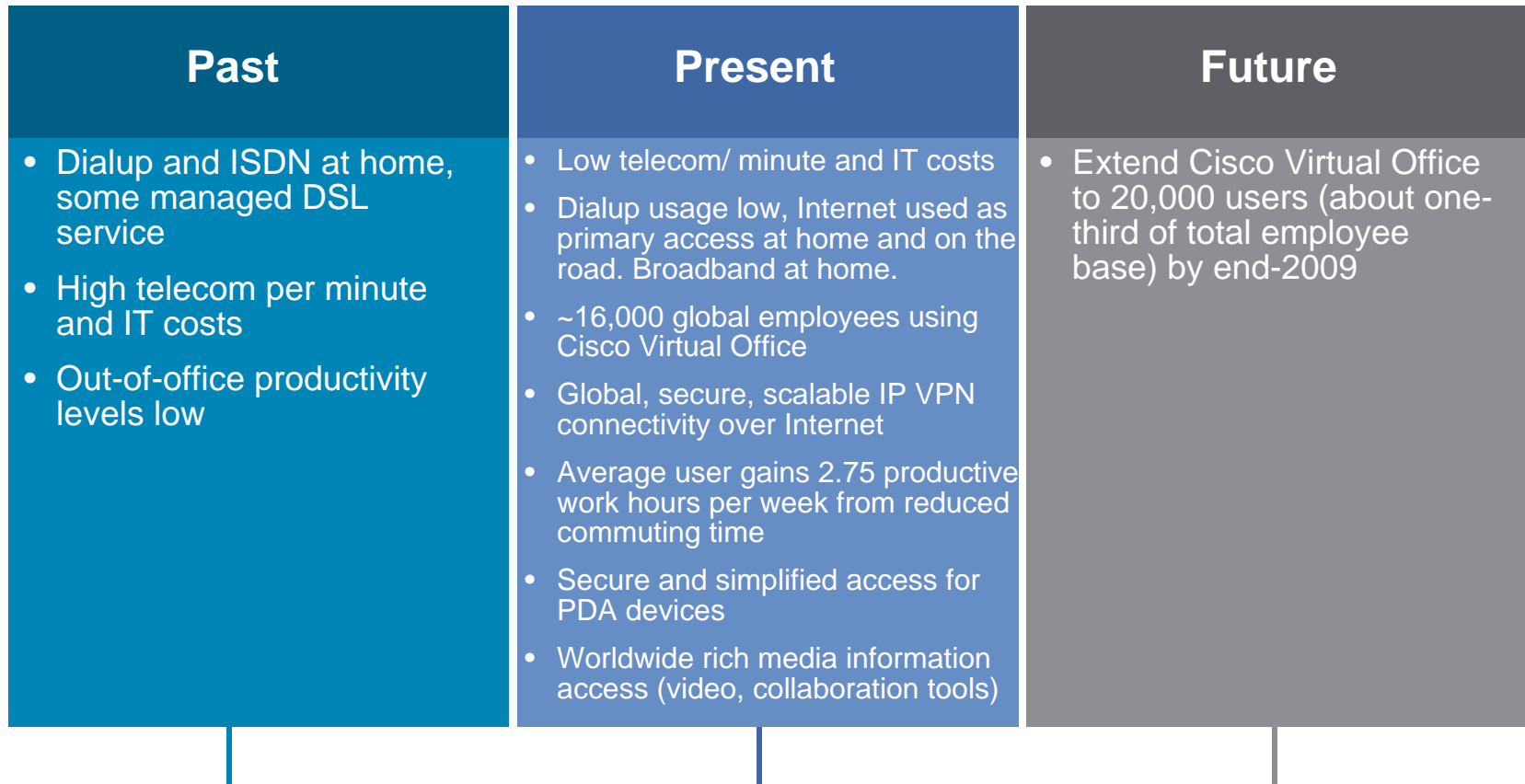
Securing the Home

- Providing standardized configurations
- Insisting on ease of use
- Just another mobile client
- Teaching our employees how to be safe at home

Understanding the risks they face by using the Internet



Remote Access: Past, Present and Future



VPN – Business Value Snapshot

Productivity

- Employees typically work 3 days at home and are 28% more productive
- Average user gains 2.75 productive work hours per week from reduced commuting time



Quality/End User Experience

- ~16,000 employees use Cisco Virtual Office solution in 70 different countries
- At any time, Cisco has over 12,000 VPN connections



Cost Avoidance

- Reduction of auto emissions by Cisco users save more than \$168,561 per year in re-forestation project costs necessary to offset the automobile carbon footprint



Green

- Cisco users avoid an average of 36.4 commuting miles per day working at home – i.e. 62,899,200 driving miles avoided a year
- Cisco users reduce auto emissions by 30,435 tons of CO2 annually,



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