



Scalable VPN Remote Access

How Cisco IT Provides Remote Access for Small Offices and Telecommuters



A Cisco on Cisco Case Study: Inside Cisco IT

Overview

- **Challenge**

Increase functionality of home-based network services while making deployment and ongoing management simpler, more secure, and less labor intensive

- **Solution**

Hardware-based solution with end-to-end connectivity, deployment, management, and security

- **Results**

Enhanced network access, reduced support costs, increased employee productivity and satisfaction, and reduced environmental impact

- **Next Steps**

Support for small offices and user mobility as well as increased deployment automation and VPN resilience

Challenge:

Ease of Use, Ease of Provisioning

- Many Cisco employees need to work from home on a full-time, part-time, or occasional basis
- Software VPN solution presented functional limitations and management challenges
- Needed a way to increase functionality of home-based network services while making deployment and ongoing management simpler, more secure, and less labor-intensive

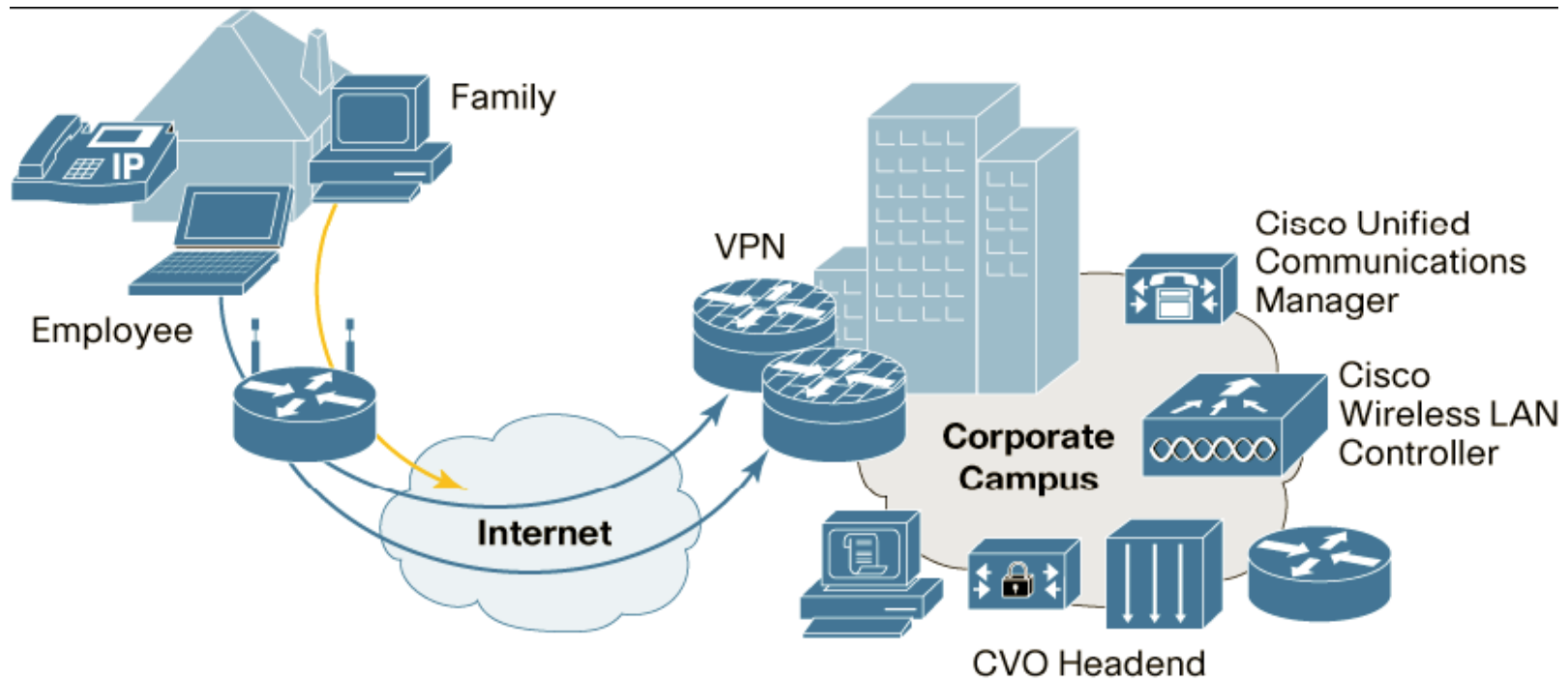


Solution: Cisco Virtual Office

- Combines a Cisco 800 Series Router with a high-speed broadband connection at employees' homes
- Cisco Unified IP phones for voice over the VPN
- Cisco Catalyst 6500 Series Switch and Cisco 7206VXR Routers terminate the VPN tunnels at headend
- Cisco enterprise management system monitors routers across the Cisco worldwide network
- Cisco Security Manager generates and maintains router configurations and policies
- Cisco Configuration Engine automates downloads to remote routers



Solution: Cisco Virtual Office



Results: Sustainable Global Deployment and Support Model

- Enhanced reliability, availability, and security of VPN access
- 20 percent TCO reduction from zero-touch deployment
- Cisco IT able to support 30,000 expected VPN users



Results: Work Improvements

- 29 percent overall productivity improvement for users
- Reduced commuting:
 - 2.81 hours per week saved per employee
 - 257 gallons reduced annual gasoline consumption per employee
 - 2.5 tons reduced CO2 emissions per employee per year
- 90 percent of surveyed employees indicated higher job satisfaction from ability to work at home
- 4.7 satisfaction ranking (out of 5) by Cisco Virtual Office solution users



Next Steps: Phased Rollout

- Extend Cisco Virtual Office solution to small offices
- Support user mobility with VPN access from PDAs and selected mobile phones
- Support more applications such as Cisco TelePresence in employee homes
- Increase VPN resilience with a fully redundant VPN design
- Extend zero-touch deployment to other Cisco products and network services

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

www.cisco.com/go/ciscoit



Americas Headquarters

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 527-0883

Asia Pacific Headquarters

Cisco Systems, Inc.
168 Robinson Road
#28-01 Capital Tower
Singapore 068912
www.cisco.com
Tel: +65 6317 7777
Fax: +65 6317 7799

Europe Headquarters

Cisco Systems International BV
Haarlerbergpark
Haarlerbergweg 13-19
1101 CH Amsterdam
The Netherlands
www-europe.cisco.com
Tel: +31 0 800 020 0791
Fax: +31 0 20 357 1100

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco Website at www.cisco.com/go/offices.



©2007 Cisco Systems, Inc. All rights reserved. CCVP, the Cisco logo, and the Cisco Square Bridge logo are trademarks of Cisco Systems, Inc.; Changing the Way We Work, Live, Play, and Learn is a service mark of Cisco Systems, Inc.; and Access Registrar, Aironet, BPX, Catalyst, CCDA, CCDP, CCIE, CCIP, CCNA, CCNP, CCSF, Cisco, the Cisco Certified Internetwork Expert logo, Cisco IOS, Cisco Press, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Cisco Unity, Enterprise/Solver, EtherChannel, EtherFast, EtherSwitch, Fast Step, Follow Me Browsing, FormShare, GigaDrive, HomeLink, Internet Quotient, IOS, iPhone, IP/TV, iQ Expertise, the iQ logo, iQ Net Readiness Scorecard, iQuick Study, LightStream, Linksys, MeetingPlace, MGX, Networking Academy, Network Registrar, Packet, PIX, ProConnect, RateMUX, ScriptShare, SlideCast, SMARTnet, StackWise, The Fastest Way to Increase Your Internet Quotient, and TransPath are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries.

All other trademarks mentioned in this document or Website are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (0704R)