

## How Cisco IT Migrated US WAN to Optical Edge Router Platform

Cisco 7600 Series Router provides high-speed, reliable, and economic routing for corporate backbone.

### BUSINESS BENEFITS

- Scalable for ever-increasing WAN traffic
- Excellent stability—uptime of 99.999 percent or better
- Easier IT management
- Interface compatibility for easy multisite connections
- Capable of handling next-generation applications

“The 7600 Series was mature enough so that we weren’t afraid to put it in our backbone.”

– **John Cornell, Cisco IT implementation team member**

**In 2001, the business foundation at Cisco Systems® was a WAN across North America.** It reflected the evolution of Cisco technology and product development, but could no longer support the increase in bandwidth demands resulting from Cisco’s astronomical growth, or the several new, real-time peer-to-peer applications that multiplied traffic across the WAN. There was no choice but to rethink, rebuild, and redistribute next-generation routing online in order to support Cisco’s then-current needs.

**Any solution had to also accommodate future needs, including the increased bandwidth requirements and real-time demands of collaboration, voice, video, and peer-to-peer traffic.** The new WAN needed to support connections of OC-12 (620 Mbps) speeds. Most importantly, the solution would have to standardize a routing platform across the network to lower the cost of management while providing a

predictable environment for new applications and growth.

**Cisco IT looked at its own product line and selected a foundation built on the Cisco 7600 Series,** edge routers that deliver robust, high-performance and high speed IP capabilities, including metro Ethernet aggregation, private line (high-speed and low heavy-duty) aggregation, WAN aggregation, and core routing. The Cisco 7600 Series offered a large set of interfaces, making connectivity across multiple sites much easier.

**At present, the Cisco network boasts best-in-the-business reliability.** In 2004, some months experienced no downtime at all. And as a result of standardization, the network is easier to manage and is more predictable, making the IT team more productive. It is now much easier to add capacity and to deploy advanced applications, including WAN-intensive applications such as IP telephony, IP video, supply chain, and e-working collaboration tools.

“The Cisco 7600 Series makes it easier to deliver a wide range of high-reliability, enterprise-level services over one network.”-- eWeek

A router platform that provides bandwidth for tomorrow’s IP-based solutions.

**Case Study:** [http://www.cisco.com/en/US/about/ciscoitwork/case\\_studies/routing\\_d12.html](http://www.cisco.com/en/US/about/ciscoitwork/case_studies/routing_d12.html)

## FOR MORE INFORMATION

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](http://www.cisco.com/go/ciscoit)

## NOTE

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