



# Cisco Intelligent WAN (IWAN) (Networking Technology)

*By Brad Edgeworth, David Prall, Jean Marc Barozet, Anthony Lockhart, Nir Ben-Dvora*

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**Cisco Intelligent WAN (IWAN) (Networking Technology)** By Brad Edgeworth, David Prall, Jean Marc Barozet, Anthony Lockhart, Nir Ben-Dvora

## **The complete guide to Cisco® IWAN: features, benefits, planning, and deployment**

Using Cisco Intelligent WAN (IWAN), businesses can deliver an uncompromised experience, security, and reliability to branch offices over any connection. Cisco IWAN simplifies WAN design, improves network responsiveness, and accelerates deployment of new services. Now, there's an authoritative single-source guide to Cisco IWAN: all you need to understand it, design it, and deploy it for maximum value.

In Cisco Intelligent WAN (IWAN), leading Cisco experts cover all key IWAN technologies and components, addressing issues ranging from visibility and provisioning

to troubleshooting and optimization. They offer extensive practical guidance on migrating to IWAN from your existing WAN infrastructure.

This guide will be indispensable for all experienced network professionals who support WANs, are deploying Cisco IWAN solutions, or use related technologies such as DMVPN or PfR.

- Deploy Hybrid WAN connectivity to increase WAN capacity and improve application performance
- Overlay DMVPN on WAN transport to simplify operations, gain transport independence, and improve VPN scalability
- Secure DMVPN tunnels and IWAN routers
- Use Application Recognition to support QoS, Performance Routing (PfR), and application visibility
- Improve application delivery and WAN efficiency via PfR
- Monitor hub, transit, and branch sites, traffic classes, and channels
- Add application-level visibility and per-application monitoring to IWAN routers

- Overcome latency and bandwidth inefficiencies that limit application performance
- Use Cisco WAAS to customize each location's optimizations, application accelerations, and virtualization
- Smoothly integrate Cisco WAAS into branch office network infrastructure
- Ensure appropriate WAN application responsiveness and experience
- Improve SaaS application performance with Direct Internet Access (DIA)
- Perform pre-migration tasks, and prepare your current WAN for IWAN
- Migrate current point-to-point and multipoint technologies to IWAN

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### **Editorial Review**

#### About the Author

**Brad Edgeworth, CCIE No. 31574 (R/S & SP)**, Cisco Systems Engineer and Technical Leader, and author of IP Routing on Cisco IOS, IOS XE, and IOS XR. A Distinguished Speaker at Cisco Live, he has architected networks for multiple Fortune® 500 companies. He has nearly 20 years of IT experience, specializing in routing for enterprise and service provider environments.

**Jean-Marc Barozet** is a Principal Engineer with the Intelligent WAN (IWAN) product management team, helping to architect and lead the Cisco SD-WAN solution. He has more than 25 years of enterprise and service provider networking experience, and has been with Cisco for more than 19 years.

**David Prall, CCIE No. 6508 (R/S, SP, and Security)**, is a Communications Architect on the Enterprise Networks Technical Strategy Team for Cisco. He previously held system engineering positions supporting US federal agencies. Prall's primary focus is complex routing and switching, including design, deployment, and troubleshooting of large-scale networks.

**Anthony Lockhart**, Technical Marketing Engineer at Cisco, has 15 years of experience with Cisco technologies, network infrastructure, architecture, and the design and implementation of datacenters and call centers. As POC Engineer at HCL America, he provided design and pre-sales engineering for Cisco WAAS products.

**Nir Ben-Dvora**, Senior Technical Leader at Cisco, technically leads architecture for the Application Visibility and Control (AVC) solution for Cisco, collaborating with teams worldwide. He has 17 years of Cisco management and architecture experience.

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