Cisco Design Guide Summary: Cisco Intelligent WAN

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This design guide summary provides you with an overview of the Cisco Intelligent WAN Design Guide, the key technology, the use cases it provides, and additional and related resources.

Cisco Intelligent WAN Technology

The Cisco Intelligent WAN (IWAN) solution provides design and implementation guidance for organizations looking to deploy WAN transport with intelligent path control, application optimization, and secure encrypted communications between branch locations while reducing the operating cost of the WAN. IWAN takes full advantage of cost-effective Internet services to increase bandwidth capacity without compromising performance, reliability, or security of collaboration or cloud-based applications.

Figure 1 shows an overview of the IWAN design models.

Figure 1. IWAN Design Models
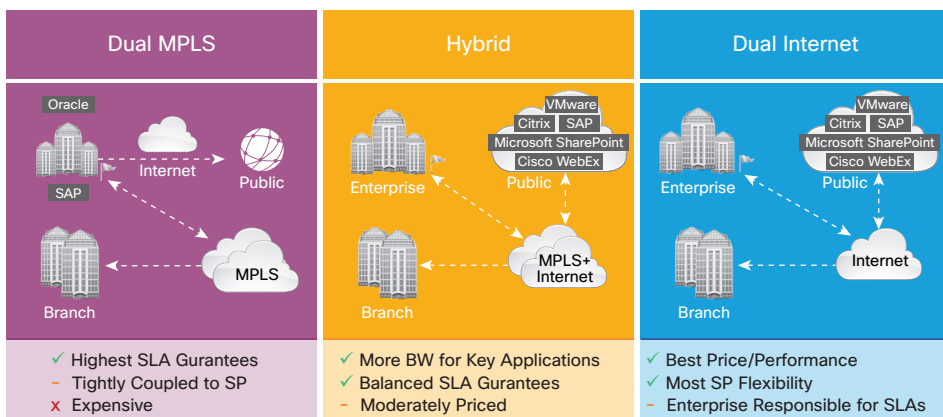
The Guide at a Glance

See how to deliver an uncompromised user experience over any connection with an Intelligent WAN.

Review use cases and design models to determine how you want to implement.

Deploy with confidence using tested designs.

Intelligent WAN Design Overview

The Cisco Intelligent WAN design provides a design that enables highly available, secure, and optimized connectivity for multiple remote-site LANs. Two IWAN design models are documented in this design guide:

- Hybrid WAN
- Dual Internet WAN

Use Cases

Organizations require the WAN to provide sufficient performance and reliability for the remote-site users to be effective in supporting the business. Although most of the applications and services that the remote-site worker uses are centrally located, the WAN design must provide the workforce with a common resource-access experience, regardless of location. This design guide covers the following use cases:

Security

Privacy and security for business transactions and employee and customer data are essential. Secure, encrypted communications help ensure that any data traveling over trusted or untrusted networks is protected from unauthorized access or malicious threats.

High Availability

Ensure maximum uptime for business continuity. Provide high availability using a secondary connection in a backup or active status in addition to single or dual routers in remote locations.

Cloud

Simplify and secure data moving to the public cloud. Smoothly extend your network to the cloud and simplify the movement of data between public clouds.

Application Performance

Maintain application performance across the network and to the cloud. Advanced quality of service (QoS) and application optimization helps ensure that business and collaboration applications are given the appropriate priority.

Voice and Video Traffic

Ensure that voice and video traffic moving across the network does not consume all available bandwidth – and maintain a high-quality user experience – while allowing business applications and noncritical traffic to pass uninterrupted.

IWAN Essentials

Transport-independent design helps you right-size WAN connections and lower costs.

Intelligent path control dynamically offloads traffic and improves app performance.

Application optimization improves app response times while reducing WAN bandwidth requirements.

Secure connectivity protects against threats and enables direct Internet access.

Get the Full Guide

For the full Cisco Validated Design Guide, which details Intelligent WAN design and use cases for hybrid and dual Internet WAN, download it here:

View Full Design Guide

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