Deploying the Cisco Intelligent WAN

OVERALL IWAN ARCHITECTURE DESIGN GOALS

Overlay Transport (DMVPN)

All remote-site traffic must be encrypted when transported over public IP networks such as the Internet. This design also encrypts traffic over private IP networks such as MPLS and 4G LTE. It is recommended that you enable encryption on DMVPN over all paths in order to ensure consistency in data privacy and operations.

The use of encryption should not limit the performance or availability of a remote-site application and should be transparent to end users.

IP Routing (EIGRP)

The design has the following IP routing goals:

- Provide optimal routing connectivity from primary WAN-aggregation sites to all remote locations

- Isolate WAN routing topology changes from other portions of the network

- Ensure active/standby symmetric routing when multiple paths exist, for ease of troubleshooting and to prevent oversubscription of IP telephony call admission control (CAC) limits

- Provide a solid underlying IP routed topology in order to support the Intelligent Path Control provided by Cisco Performance Routing.

- Provide site-site remote routing via the primary WAN-aggregation site (hub-and-spoke model)

- Permit dynamic optimal direct site-to-site remote routing provided by NHRP (spoke-to-spoke model)

- Support IP Multicast sourced from the primary WAN-aggregation site

At the WAN remote sites, there is no local Internet access for web browsing or cloud services. This model is referred to as a *centralized Internet model*. It is worth noting that sites with Internet/DMVPN could potentially provide local Internet capability; however, for this design, only encrypted traffic to other DMVPN sites is permitted to use the Internet link. In the centralized Internet model, a default route is advertised to the WAN remote sites in addition to the internal routes from the data center and campus.

The use of local Internet access is covered separately from this guide.

The network must tolerate single failure conditions including the failure of any single WAN transport link or any single network device at the primary WAN-aggregation site.

Quality of Service

The network must ensure that business applications perform across the WAN during times of network congestion. Traffic must be classified and queued and the WAN connection must be shaped to operate within the capabilities of the connection. When the WAN design uses a service provider offering with QoS, the WAN edge QoS classification and treatment must align to the service provider in order to ensure consistent end-to-end QoS treatment of traffic.

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Todd Lammle

Intelligent Wan Technology Design Guide Cisco:

   Software Defined Networks Paul Goransson,Chuck Black,Timothy Culver,2016-10-25 Software Defined Networks A Comprehensive Approach Second Edition provides in depth coverage of the technologies collectively known as Software Defined Networking SDN The book shows how to explain to business decision makers the benefits and risks in shifting parts of a network to the SDN model when to integrate SDN technologies in a network and how to develop or acquire SDN applications In addition the book emphasizes the parts of the technology that encourage opening up the network providing treatment for alternative approaches to SDN that expand the definition of SDN as networking vendors adopt traits of SDN to their existing solutions Since the first edition was published the SDN market has matured and is being gradually integrated and morphed into something more compatible with mainstream networking vendors This book reflects these changes with coverage of the OpenDaylight controller and its support for multiple southbound protocols the Inclusion of NETCONF in discussions on controllers and devices expanded coverage of NFV and updated coverage of the latest approved version 1 5 1 of the OpenFlow specification Contains expanded coverage of controllers Includes a new chapter on NETCONF and SDN Presents expanded coverage of SDN in optical networks Provides support materials for use in computer networking courses
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Intelligent Wan Technology Design Guide Cisco Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has be much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Intelligent Wan Technology Design Guide Cisco**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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