Intelligent Wan Technology Design Guide Cisco

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What is Cisco IWAN (Intelligent WAN)? Cisco Intelligent WAN Introduction and Overview ~~Cisco Intelligent WAN IWAN Networking Technology~~ ~~LiveAction Intelligent WAN Management~~ ~~CCDE (Cisco Certified Design Expert) Study Resources Discussion~~ WAN Technologies - CompTIA Network+ N10-007 - 2.5 *Cisco Intelligent WAN and Akamai Connect Overview DMVPN QoS for Intelligent WAN* **Getting Started with PfRv3** ~~The Art Of Network Maintenance: A Practical Guide (Tom Ammon)~~ ~~Hub, Switch, \u0026 Router Explained - What's the difference?~~ ~~Cisco Intelligent WAN with Akamai Connect~~ PoE or power over ethernet explained ¦ CCNA 200-301 *What Is Power Over Ethernet? POE+? POE++? - Part 1* **What is SD-WAN? say GOODBYE to MPLS, DMVPN, iWAN... w/ SDN, Cisco and Viptela**

What is Ethernet?~~MPLS vs. SD-WAN~~

How to Become a Network Design NinjaIP Surveillance 101

How I read and annotate ML papers **1 Page Marketing Plan by Allan Dib ¦ Book Summary and Review** *Dragon Age - An Entire Series Retrospective and Analysis* Cisco Intelligent WAN Demonstration **IP Video Surveillance Smart Guide Cisco ACI : Tutorial-01: Basic Connection \u0026 Initial setup** ~~Computer Networking Complete Course - Beginner to Advanced~~ ~~WAN Technologies: Ethernet as a WAN Technology~~ *Top 10 Computer Science Journals ¦ Scopus Indexed¦ Fast Publication ¦SCI journals #fastpublicationjo SD-WAN Design Intelligent Wan Technology Design Guide*

Intelligent WAN Technology Design Guide February 2016. Table of Contents ... ing to deploy wide area network (WAN) transport with a transport-independent design, intelligent path control, application optimization, and secure encrypted communications between branch locations while reducing the

Intelligent WAN Technology Design Guide

The Cisco Intelligent WAN (IWAN) solution provides design and implementation guidance for organizations looking to deploy wide area network (WAN) transport with a transport-independent design (TID), intelligent path control, application optimization, and secure encrypted communications between branch locations while

Intelligent WAN Technology Design Guide - January 2015

The Cisco IWAN solution provides design and implementation guidance for organizations looking to deploy WAN transport with a transport-independent design (TID), intelligent path control, application optimization, and secure encrypted communications between branch locations while reducing the operating cost of the WAN.

Intelligent WAN Design Guide (CVD) – September 2017

Cisco Intelligent WAN Technology Design Guide. Download Now Provided by : Cisco ... Cisco® Validated Designs provide the foundation for systems design based on common use cases or current ...

Cisco Intelligent WAN Technology Design Guide - TechRepublic

Intelligent WAN Technology Design Guide The Cisco Intelligent WAN (IWAN) solution provides design and implementation guidance for organizations looking to deploy wide area network (WAN) transport ...

Intelligent WAN Technology Design Guide ¦ IT World Canada ...

DESIGN OVERVIEW The Cisco Intelligent WAN Design Guide provides a design that enables highly available, secure, and optimized connectivity for multiple remote-site local area networks (LANs). Transport-Independent WAN Design A transport-independent design simplifies the WAN deployment by using a GRE/IPsec VPN overlay over all WAN

REFERENCE NETWORK ARCHITECTURE

maker who wants to compare Cisco ' s wide-area network (WAN) offerings and learn more about the best prac-tices for each technology. This guide should be used as a roadmap for how to use the companion IWAN deploy-ment guides. Reader Tip For more information about deploying the Intelligent WAN, see the Design Zone for Branch WAN.

Intelligent WAN Design Summary (CVD) March 2017

Application Optimization using Cisco Wide Area Application Services (WAAS) is an essential component of the Cisco Intelligent WAN (IWAN). Cisco IWAN delivers an uncompromised user experience over any connection, allowing an organization to right-size their network with operational simplicity and lower costs.

IWAN Application Optimization Using Cisco WAAS and Akamai ...

Design Zone for Enterprise Networks Design Zone for Branch, WAN, and Internet Edge Design Zone for Branch, WAN, and the Internet Edge - Guide Archive These archived guides may be useful when referencing technologies used in previously deployed designs.

Design Zone for Branch, WAN, and the Internet Edge - Guide ...

make good design choices for an organization ' s Cisco SD-WAN implementation. This design guide is a companion guide to the associated prescriptive deployment guides for SD-WAN, which provide details on deploying the most common SD-WAN use cases. The guide is based on vManage version 19.2.1 and below. The topics in this guide are not exhaustive.

Cisco SD-WAN Design Guide

2015 Guide to WAN Architecture and Design June 2015 Page 1 Executive Summary The wide area network (WAN) is a critically important topic for number of reasons. Those reasons include: • The latency, jitter and packet loss that is associated with the WAN often cause the ... The technology used to build the Internet began to be

The 2015 Guide to WAN Architecture & Design

SD-WAN provides seamless connectivity for multicloud environments. Get a highly secure, cloud-delivered wide-area network that is simple to manage and easy to deploy and that delivers a great user experience. Deliver applications on time, on any platform, anywhere, with Cisco SD-WAN.

SD-WAN - Software-Defined WAN - Cisco

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• IWAN Remote Site 4G LTE Deployment Guide For design details, see Intelligent WAN Design Summary. For configuration details, see the Intelligent WAN Configuration Files Guide. For an automated way to deploy IWAN, use the APIC-EM IWAN Application. For more information, see the Cisco IWAN Application on APIC-EM User Guide.

CVD - Intelligent WAN (IWAN) Deployment Guide April 2017

This guide is intended to provide design and deployment guidance to onboard Cisco SD-WAN WAN Edge devices into the enterprise SD-WAN Infrastructure. The guide focuses on the step-by-step procedures to configure each of the onboarding options available, along with the use cases specific to WAN Edge deployment using default pre-installed ...

Design Zone - Branch, WAN, and Internet Edge - Cisco

Speed Hybrid WAN Deployment with the New Cisco Intelligent WAN Design Guide - April 22, 2015 1. Presenter: Joe August, Product Manager Date: Wednesday 22nd April 2015, 10am PDT Enabling the Hybrid WAN Webinar Series Host: Robb Boyd, Techwise TV Speed Hybrid WAN Deployment with the New Cisco Intelligent WAN Design Guide 2.

Speed Hybrid WAN Deployment with the New Cisco Intelligent ...

Design Overview This guide, the MPLS WAN Technology Design Guide, provides a design that enables highly available, secure, and optimized connectivity for multiple remote-site LANs. The WAN is the networking infrastructure that provides an IP-based interconnection between remote sites that are separated by large geographic distances.

MPLS WAN Technology Design Guide December 2013

Cisco Intelligent WAN Design Guide and Summary. Download Now ... Cisco® Validated Designs provide the foundation for systems design based on common use cases or current engineering system ...

Cisco Intelligent WAN Design Guide and Summary - TechRepublic

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.

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

Best-practice QoS designs for protecting voice, video, and critical data while mitigating network denial-of-service attacks Understand the service-level requirements of voice, video, and data applications Examine strategic QoS best practices, including Scavenger-class QoS tactics for DoS/worm mitigation Learn about QoS tools and the various interdependencies and caveats of these tools that can impact design considerations Learn how to protect voice, video, and data traffic using various QoS mechanisms Evaluate design recommendations for protecting voice, video, and multiple classes of data while mitigating DoS/worm attacks for the following network infrastructure architectures: campus LAN, private WAN, MPLS VPN, and IPSec VPN Quality of Service (QoS) has already proven itself as the enabling technology for the convergence of voice, video, and data networks. As business needs evolve, so do the demands for QoS. The need to protect critical applications via QoS mechanisms in business networks has escalated over the past few years, primarily due to the increased frequency and sophistication of denial-of-service (DoS) and worm attacks. End-to-End QoS Network Design is a detailed handbook for planning and deploying QoS solutions to address current business needs. This book goes beyond discussing available QoS technologies and considers detailed design examples that illustrate where, when, and how to deploy various QoS features to provide validated and tested solutions for voice, video, and critical data over the LAN, WAN, and VPN. The book starts with a brief background of network infrastructure evolution and the subsequent need for QoS. It then goes on to cover the various QoS features and tools currently available and comments on their evolution and direction. The QoS requirements of voice, interactive and streaming video, and multiple classes of data applications are presented, along with an overview of the nature and effects of various types of DoS and worm attacks. QoS best-practice design principles are introduced to show how QoS mechanisms can be strategically deployed end-to-end to address application requirements while mitigating network attacks. The next section focuses on how these strategic design principles are applied to campus LAN QoS design. Considerations and detailed design recommendations specific to the access, distribution, and core layers of an enterprise campus network are presented. Private WAN QoS design is discussed in the following section, where WAN-specific considerations and detailed QoS designs are presented for leased-lines, Frame Relay, ATM, ATM-to-FR Service Interworking, and ISDN networks. Branch-specific designs include Cisco® SAFE recommendations for using Network-Based Application Recognition (NBAR) for known-worm identification and policing. The final

section covers Layer 3 VPN QoS design-for both MPLS and IPSec VPNs. As businesses are migrating to VPNs to meet their wide-area networking needs at lower costs, considerations specific to these topologies are required to be reflected in their customer-edge QoS designs. MPLS VPN QoS design is examined from both the enterprise and service provider's perspectives. Additionally, IPSec VPN QoS designs cover site-to-site and teleworker contexts. Whether you are looking for an introduction to QoS principles and practices or a QoS planning and deployment guide, this book provides you with the expert advice you need to design and implement comprehensive QoS solutions.

The new version (0.91) of Delite is now available for downloading. As the cost of building and upgrading complex, large-scale networks skyrockets, carefully crafted network designs become critical- a savings of as little as 5% in your network can amount to tens of thousands of dollars per month. Wide Area Network Design: Concepts and Tools for Optimization provides the information you need to tackle the challenges of designing a network that meets your performance goals within the cost constraints of your organization. If you are considering public service alternatives such as frame relay, designing your own network with the tools provided in this book will empower you to estimate cost savings and evaluate bids from competing carriers. Intended for network designers, planners, and architects, this book enables you to estimate traffic flows and requirements in your network and explains how to use various algorithms to design a network which must meets these requirements. The accompanying design tool, Delite, offers you the opportunity for hands-on experience with the design process. * Presents underlying design principles to help you understand emerging and future networking protocols and technologies * Provides cost and traffic generators for estimating these parameters in your network * Introduces the unique IncreMENTOR algorithm which can help avert disaster when the traffic flows in your network have changed

End-to-End QoS Network Design Quality of Service for Rich-Media & Cloud Networks Second Edition New best practices, technical strategies, and proven designs for maximizing QoS in complex networks This authoritative guide to deploying, managing, and optimizing QoS with Cisco technologies has been thoroughly revamped to reflect the newest applications, best practices, hardware, software, and tools for modern networks. This new edition focuses on complex traffic mixes with increased usage of mobile devices, wireless network access, advanced communications, and video. It reflects the growing heterogeneity of video traffic, including passive streaming video, interactive video, and immersive videoconferences. It also addresses shifting bandwidth constraints and congestion points; improved hardware, software, and tools; and emerging QoS applications in network security. The authors first introduce QoS technologies in high-to-mid-level technical detail, including protocols, tools, and relevant standards. They examine new QoS demands and requirements, identify reasons to reevaluate current QoS designs, and present new strategic design recommendations. Next, drawing on extensive experience, they offer deep technical detail on campus wired and wireless QoS design; next-generation wiring closets; QoS design for data centers, Internet edge, WAN edge, and branches; QoS for IPsec VPNs, and more. Tim Szigeti, CCIE No. 9794 is a Senior Technical Leader in the Cisco System Design Unit. He has specialized in QoS for the past 15 years and authored Cisco TelePresence Fundamentals. Robert Barton, CCIE No. 6660 (R&S and Security), CCDE No. 2013::6 is a Senior Systems Engineer in the Cisco Canada Public Sector Operation. A registered Professional Engineer (P. Eng), he has 15 years of IT experience and is primarily focused on wireless and security architectures. Christina Hattingh spent 13 years as Senior Member of Technical Staff in Unified Communications (UC) in Cisco ' s Services Routing Technology Group (SRTG). There, she spoke at Cisco

conferences, trained sales staff and partners, authored books, and advised customers. Kenneth Briley, Jr., CCIE No. 9754, is a Technical Lead in the Cisco Network Operating Systems Technology Group. With more than a decade of QoS design/implementation experience, he is currently focused on converging wired and wireless QoS. n Master a proven, step-by-step best-practice approach to successful QoS deployment n Implement Cisco-validated designs related to new and emerging applications n Apply best practices for classification, marking, policing, shaping, markdown, and congestion management/avoidance n Leverage the new Cisco Application Visibility and Control feature-set to perform deep-packet inspection to recognize more than 1000 different applications n Use Medianet architecture elements specific to QoS configuration, monitoring, and control n Optimize QoS in rich-media campus networks using the Cisco Catalyst 3750, Catalyst 4500, and Catalyst 6500 n Design wireless networks to support voice and video using a Cisco centralized or converged access WLAN n Achieve zero packet loss in GE/10GE/40GE/100GE data center networks n Implement QoS virtual access data center designs with the Cisco Nexus 1000V n Optimize QoS at the enterprise customer edge n Achieve extraordinary levels of QoS in service provider edge networks n Utilize new industry standards and QoS technologies, including IETF RFC 4594, IEEE 802.1Q-2005, HQF, and NBAR2 This book is part of the Networking Technology Series from Cisco Press®, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers.

Go beyond layer 2 broadcast domains with this in-depth tour of advanced link and internetwork layer protocols, and learn how they enable you to expand to larger topologies. An ideal follow-up to Packet Guide to Core Network Protocols, this concise guide dissects several of these protocols to explain their structure and operation. This isn't a book on packet theory. Author Bruce Hartpence built topologies in a lab as he wrote this guide, and each chapter includes several packet captures. You'll learn about protocol classification, static vs. dynamic topologies, and reasons for installing a particular route. This guide covers: Host routing—Process a routing table and learn how traffic starts out across a network Static routing—Build router routing tables and understand how forwarding decisions are made and processed Spanning Tree Protocol—Learn how this protocol is an integral part of every network containing switches Virtual Local Area Networks—Use VLANs to address the limitations of layer 2 networks Trunking—Get an indepth look at VLAN tagging and the 802.1Q protocol Routing Information Protocol—Understand how this distance vector protocol works in small, modern communication networks Open Shortest Path First—Discover why convergence times of OSPF and other link state protocols are improved over distance vectors

Objectives The purpose of Top-Down Network Design, Third Edition, is to help you design networks that meet a customer's business and technical goals. Whether your customer is another department within your own company or an external client, this book provides you with tested processes and tools to help you understand traffic flow, protocol behavior, and internetworking technologies. After completing this book, you will be equipped to design enterprise networks that meet a customer's requirements for functionality, capacity, performance, availability, scalability, affordability, security, and manageability. Audience This book is for you if you are an internetworking professional responsible for designing and maintaining medium- to large-sized enterprise networks. If you are a network engineer, architect, or technician who has a working knowledge of network protocols and technologies, this book will provide you with practical advice on applying your knowledge to internetwork design. This book also includes useful information for consultants, systems

engineers, and sales engineers who design corporate networks for clients. In the fast-paced presales environment of many systems engineers, it often is difficult to slow down and insist on a top-down, structured systems analysis approach. Wherever possible, this book includes shortcuts and assumptions that can be made to speed up the network design process. Finally, this book is useful for undergraduate and graduate students in computer science and information technology disciplines. Students who have taken one or two courses in networking theory will find Top-Down Network Design, Third Edition, an approachable introduction to the engineering and business issues related to developing real-world networks that solve typical business problems. Changes for the Third Edition Networks have changed in many ways since the second edition was published. Many legacy technologies have disappeared and are no longer covered in the book. In addition, modern networks have become multifaceted, providing support for numerous bandwidth-hungry applications and a variety of devices, ranging from smart phones to tablet PCs to high-end servers. Modern users expect the network to be available all the time, from any device, and to let them securely collaborate with coworkers, friends, and family. Networks today support voice, video, high-definition TV, desktop sharing, virtual meetings, online training, virtual reality, and applications that we can ' t even imagine that brilliant college students are busily creating in their dorm rooms. As applications rapidly change and put more demand on networks, the need to teach a systematic approach to network design is even more important than ever. With that need in mind, the third edition has been retooled to make it an ideal textbook for college students. The third edition features review questions and design scenarios at the end of each chapter to help students learn top-down network design. To address new demands on modern networks, the third edition of Top-Down Network Design also has updated material on the following topics: ¿ Network redundancy ¿ Modularity in network designs ¿ The Cisco SAFE security reference architecture ¿ The Rapid Spanning Tree Protocol (RSTP) ¿ Internet Protocol version 6 (IPv6) ¿ Ethernet scalability options, including 10-Gbps Ethernet and Metro Ethernet ¿ Network design and management tools

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

This is Cisco's authorized, self-paced, foundation learning tool for the latest version of the Cisco Designing Network Service Architectures (ARCH 300-301) exam, now required for CCDP certification. It presents a structured and modular approach to designing networks that are scalable, resilient, offer outstanding performance and availability, and have well-defined failure domains. In this entirely new Third Edition, Sean Wilkins guides you through

performing the conceptual, intermediate, and detailed design of a modern network infrastructure. You'll learn how to create designs that support a wide variety of high-value network solutions over intelligent network services. Closely following the newest CCDP ARCH exam requirements, Wilkins discusses routing and switching designs of campus and enterprise networks in detail, including data center and wireless networks. Coverage includes: Enterprise IGP and BGP connectivity Wide Area Network (WAN) design Enterprise network to data center integration Designing enterprise security services Designing QoS for enterprise networks Designing large-scale IPv6 networks Designing IP Multicast for the enterprise Software Defined Networking (SDN) for the enterprise As an Authorized Self-Study Guide, this book fully reflects the content of the newest Cisco CCDP ARCH course. Real-world scenarios illustrate key concepts; chapter learning objectives and summaries help focus study; and review questions help readers assess their knowledge.

IBM® defines a smarter city as one that makes optimal use of all available information to better understand and control its operations and optimize the use of resources. There is much information available from different sources. However, city officials often lack the holistic view of the city's operations that is required to respond to the citizens' needs in a timely manner and use the city resources wisely. IBM Intelligent Operations Center delivers a unified view of city agencies, providing three primary elements for successful management of cities: use information, anticipate problems, and coordinate actions and resources. Chapter 1 of this IBM Redbooks® publication introduces the IBM Intelligent Operations Center solution. The chapter provides a high-level overview of its features, benefits, and architecture. This information is intended for city officials and IT architects that must understand the business value of IBM Intelligent Operations Center and its architecture. The remaining chapters of this book focus on information that help IBM Intelligent Operations Center administrators perform daily administration tasks. This book describes commands and tools that IBM Intelligent Operations Center administrators must use to keep the solution running, troubleshoot and diagnose problems, and perform preventive maintenance. This book includes preferred practices, tips and techniques, and general suggestions for administrators of IBM Intelligent Operations Center on-premises deployments. For related information about this topic, refer to the following IBM Redbooks publications: IBM Intelligent Operations Center for Smarter Cities Redpaper, REDP-4939 IBM Intelligent Operations Center for Smarter Cities Solution Guide

*** *Up-to-date coverage of BGP features like performance tuning, multiprotocol BGP, MPLS VPN, and multicast BGP. *In-depth coverage of advanced BGP topics to help design a complex BGP routing architecture *Practical design tips proven in the field with large-scale networks *Extensive configuration examples and case studies**