

# STATE OFFICE OF EDUCATION

## NETWORK DESIGN PROPOSAL

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### FEASIBILITY STUDY

***Situation in which the Project Exists:*** This proposal is for a data communication network to serve the Maryland public education system. The Maryland legislature recently approved funding sufficient to pay for the development of this proposal. Pending proposal acceptance by the Maryland State Public Education Office of Technology (a department within the state Office of Education), funding will be sought to implement the proposal.

***Network Scope:*** The proposed network is designed to serve the state Office of Education and two of its school district offices. The state office, located in Kensington, contains five departments to be served by this network. Each district office contains four departments to be served. The North School District is located in Ricksville, 25 miles from the state office. The South School District is located in Albantons, about 40 miles from the state office. Note that this network does not serve instructional needs of students; other resources have been allocated for that purpose. This network is for administrative purposes and is specifically designed to be independent of student computing facilities.

***Objectives of the Network:*** The network is designed to achieve several specific business/operational objectives:

1. ***Secure Service:*** The main objective of this network is to provide secure administrative computing service to the State Office and two districts. It is designed to be functionally and physically isolated from access by people not employed by the Maryland public education system so as to minimize the risk of unauthorized use.
2. ***Integration and Update:*** Presently there are many LANs in the Maryland public education system, but much of the equipment is out of date, many of the LANs are incompatible with each other, and not connected in a system-wide network. This proposal describes a WAN that integrates and updates these LANs to support productive collaboration across the system.
3. ***Versatile Information Processing:*** The network will enable users to retrieve, process, and store ASCII and non-ASCII text, still graphics, audio, and video from any connected computer.
4. ***Collaboration:*** The network will combine the power and capabilities of diverse equipment across the state to provide a collaborative medium that helps users combine their skills regardless of their physical location. A network for this educational community will enable people to share information and ideas easily so they can work more efficiently and productively.
5. ***Scalability:*** The design is scalable so that more district offices can be added as funding becomes available without having to redo the installed network.

# Sample Network Design Document

**Doug Lowe**



## **Sample Network Design Document:**

**Top-down Network Design** Priscilla Oppenheimer, 2004 A systems analysis approach to enterprise network design Master techniques for checking the health of an existing network to develop a baseline for measuring performance of a new network design Explore solutions for meeting QoS requirements including ATM traffic management IETF controlled load and guaranteed services IP multicast and advanced switching queuing and routing algorithms Develop network designs that provide the high bandwidth and low delay required for real time applications such as multimedia distance learning and videoconferencing Identify the advantages and disadvantages of various switching and routing protocols including transparent bridging Inter Switch Link ISL IEEE 802.1Q IGRP EIGRP OSPF and BGP4 Effectively incorporate new technologies into enterprise network designs including VPNs wireless networking and IP Telephony Top Down Network Design Second Edition is a practical and comprehensive guide to designing enterprise networks that are reliable secure and manageable Using illustrations and real world examples it teaches a systematic method for network design that can be applied to campus LANs remote access networks WAN links and large scale internetworks You will learn to analyze business and technical requirements examine traffic flow and QoS requirements and select protocols and technologies based on performance goals You will also develop an understanding of network performance factors such as network utilization throughput accuracy efficiency delay and jitter Several charts and job aids will help you apply a top down approach to network design This Second Edition has been revised to include new and updated material on wireless networks virtual private networks VPNs network security network redundancy modularity in network designs dynamic addressing for IPv4 and IPv6 new network design and management tools Ethernet scalability options including 10 Gbps Ethernet Metro Ethernet and Long Reach Ethernet and networks that carry voice and data traffic Top Down Network Design Second Edition has a companion website at <http://www.topdownbook.com> which includes updates to the book links to white papers and supplemental information about design resources 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

**Cisco Network Design Solutions for Small-medium Businesses** Peter Rybaczyk, 2005 Master the design and deployment of small and medium sized business networks *Designing for Cisco Internetwork Solutions (DESGN) (Authorized CCDA Self-Study Guide) (Exam 640-863)* Diane Teare, 2007-10-12 Authorized Self Study Guide Designing for Cisco Internetwork Solutions DESGN Second Edition Foundation learning for CCDA exam 640-863 Designing for Cisco Internetwork Solutions DESGN Second Edition is a Cisco authorized self paced learning tool for CCDA foundation learning This book provides you with the knowledge needed to design enterprise networks By reading this book you will gain a thorough understanding of designing routed and switched network infrastructures and services within a modular architecture In Designing for Cisco Internetwork Solutions DESGN Second Edition you will study a broad range of

network design principles and guidelines You will learn about network design in the context of the Cisco Service Oriented Network Architecture SONA framework and the Cisco Enterprise Architecture Specific topics include campus and data center infrastructure remote connectivity IP addressing design routing protocol selection voice network design wireless network design and including security in your designs An ongoing case study plus chapter ending review questions illustrate and help solidify the concepts presented in the book Whether you are preparing for CCDA certification or simply want to gain a better understanding of network design principles you will benefit from the foundation information presented in this book

Designing for Cisco Internetwork Solutions DESGN Second Edition is part of a recommended learning path from Cisco that includes simulation and hands on training from authorized Cisco Learning Partners and self study products from Cisco Press To find out more about instructor led training e learning and hands on instruction offered by authorized Cisco Learning Partners worldwide please visit [www.cisco.com/go/authorizedtraining](http://www.cisco.com/go/authorizedtraining) Diane Teare is a professional in the networking training and e learning fields She has more than 20 years of experience in designing implementing and troubleshooting network hardware and software and has also been involved in teaching course design and project management She has extensive knowledge of network design and routing technologies and is an instructor with one of the largest authorized Cisco Learning Partners

Understand the Cisco vision of intelligent networks and the SONA framework Learn how to structure and modularize network designs within the Cisco Enterprise Architecture Design basic campus and data center networks Build designs for remote connectivity with WAN technologies Create IPv4 addressing schemes Understand IPv6 design Select the appropriate routing protocol for various modules in the Cisco Enterprise Architecture Design basic VoIP and IP telephony networks Understand wireless design principles Build security into your network designs This volume is in the Certification Self Study Series offered by Cisco Press Books in this series provide officially developed self study solutions to help networking professionals understand technology implementations and prepare for the Cisco Career Certifications examinations Category Cisco Press Network Design Covers CCDA Exam 640 863

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Designing for Cisco Internetwork Solutions (DESGN) Foundation Learning Guide Sean Wilkins, 2011-07-25 Designing for Cisco Internetwork Solutions DESGN Foundation Learning Guide Third Edition Sean Wilkins Foundation learning for the CCDA DESGN 640 864 exam Designing for Cisco Internetwork Solutions DESGN Foundation Learning Guide Third Edition is a Cisco authorized self paced learning tool for CCDA foundation learning This book provides you with the knowledge needed to design enterprise networks By reading this book you will gain a thorough understanding of designing routed and switched network infrastructures and services involving LAN WAN and broadband access for businesses and organizations Designing for Cisco Internetwork Solutions DESGN Foundation Learning Guide Third Edition teaches you how to gather internetworking requirements identify solutions and design the network infrastructure and services to ensure basic functionality using the principles of hierarchical network design to structure and modularize a converged enterprise network design Specific topics include understanding the design methodology structuring and modularizing the network design designing the Enterprise Campus Enterprise Data Center Enterprise Edge and remote modules as needed designing an addressing plan and selecting suitable routing protocols designing basic voice transport across the network designing a basic

wireless solution and evaluating security solutions Chapter ending review questions illustrate and help solidify the concepts presented in the book Whether you are preparing for CCDA certification or simply want to gain a better understanding of network design principles you will benefit from the foundation information presented in this book Designing for Cisco Internetwork Solutions DESGN Foundation Learning Guide Third Edition is part of a recommended learning path from Cisco that includes simulation and hands on training from authorized Cisco Learning Partners and self study products from Cisco Press To find out more about instructor led training e learning and hands on instruction offered by authorized Cisco Learning Partners worldwide please visit [www.cisco.com/go/authorizedtraining](http://www.cisco.com/go/authorizedtraining) Understand network design methodologies and the lifecycle of a network Learn how to structure and modularize network designs within the Cisco Network Architectures for the Enterprise Design basic campus and data center networks Build designs for remote connectivity with WAN technologies Examine IPv4 and IPv6 addressing schemes Select the appropriate routing protocols for various modules in the enterprise architecture Evaluate security solutions for the network Identify voice and video networking considerations Understand design technologies and considerations when implementing a controller based wireless network This book is in the Foundation Learning Guide Series These guides are developed together with Cisco as the only authorized self paced learning tools that help networking professionals build their understanding of networking concepts and prepare for Cisco certification exams

*CCNP Routing and Switching Official Certification Library* Wendell Odom, David Hucaby, Kevin Wallace, 2010-02-23 Master CCNP exam topics with the official study guides Assess your knowledge with chapter opening quizzes Review key concepts with exam preparation tasks Practice with realistic exam questions on the CD ROMs CCNP Routing and Switching Official Certification Library is a comprehensive review and practice package for the three CCNP Routing and Switching exams ROUTE SWITCH and TSHOOT The three books contained in this package CCNP ROUTE 642 902 Official Certification Guide CCNP SWITCH 642 813 Official Certification Guide and CCNP TSHOOT 642 832 Official Certification Guide present complete reviews and ample opportunity to test your knowledge of CCNP Routing and Switching exam topics These authorized CCNP Routing and Switching study guides are written by CCIE certified experts bringing years of teaching and consulting experience together in an ideal test preparation format CCNP ROUTE 642 902 Official Certification Guide teaches you how to use advanced IP addressing and routing to implement enterprise level router networks connected to LANs and WANs CCNP SWITCH 642 813 Official Certification Guide ensures that you have the skills necessary to implement scalable multilayer switched networks CCNP TSHOOT 642 832 Official Certification Guide helps you master the troubleshooting methodologies tools and tasks needed to effectively monitor and maintain large enterprise networks Each of these official study guides provides you with an organized test preparation routine through the use of proven series elements and techniques Do I Know This Already quizzes open each chapter and enable you to decide how much time you need to spend on each section Exam topic lists make referencing easy Chapter ending Exam Preparation Tasks sections help you drill on key

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**Upgrading and Repairing Networks** Terry William Ogletree,2004 Now in its fourth edition this industry classic networking reference gives readers real world in depth explanations of confusing networking architectures and protocols and helps them track down and repair costly networking problems

**VMware vSphere 5.x Datacenter Design Cookbook** Hersey Cartwright,2014-01-24 A practical guide packed with step by step recipes to design a virtual datacenter using VMware 5 x This book is a guide for anyone interested in designing virtualized datacenters using VMware vSphere 5 x and the supporting components Current administrators of VMware vSphere environments will find this book useful when interested in becoming a vSphere Architect or are interested in learning more about the virtual datacenter design process Knowledge of vSphere installation configuration and administration is a prerequisite

*The NuneX Method ,*

**VMware vSphere 6.x Datacenter Design Cookbook** Hersey Cartwright,2016-06-28 Over 75 practical recipes to confidently design an efficient virtual datacenter with VMware vSphere 6 x About This Book Get the first book on the market

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**Data Network Design Strategies** Daniel Gonneau,Data Communications Magazine Staff,Communications Data,1990 *FCS Data Communication and Networking L4* ,2009 **Design of Water Quality Monitoring Systems** Robert C. Ward,Jim C. Loftis,Graham B. McBride,1991-01-16 Design of Water Quality Monitoring Systems Design of Water Quality Monitoring Systems presents a state of the art approach to designing a water quality monitoring system that gets consistently valid results It seeks to provide a strong scientific basis for monitoring that will enable readers to establish cost effective environmental programs The book begins by reviewing the evolution of water quality monitoring as an information system and then defines water quality monitoring as a system following the flow of

information through six major components sample collection laboratory analysis data handling data analysis reporting and information utilization The importance of statistics in obtaining useful information is discussed next followed by the presentation of an overall approach to designing a total water quality information system This sets the stage for a thorough examination of the quantification of information expectations data analysis network design and the writing of the final design report Several case studies describe the efforts of various organizations and individuals to design water quality monitoring systems using many of the concepts discussed here A helpful summary and final system design checklist are also provided Design of Water Quality Monitoring Systems will be an essential working tool for a broad range of managers environmental scientists chemists toxicologists regulators and public officials involved in monitoring water quality The volume will also be of great interest to professionals in government industry and academia concerned with establishing sound environmental programs

**Oversight of U.S. Progress Under the Great Lakes Water Quality Agreement** United States. Congress. Senate. Committee on Governmental Affairs. Subcommittee on Oversight of Government Management,1990

**Water-resources Investigations Report** ,2003 *EPA-600/4* ,1977-08 **Network Architecture and Design** J. F. DiMarzio,2001 Network Architecture and Design takes readers through every phase of a new project from client meetings site surveys data collection and interpretation documentation to actually designing and implementing the network according to spec The discussion includes An overview of LAN and WAN topologies Coverage of NOS Novell Operating System Integration of the client operating system this 50% of network architecture is often overlooked in similar titles Protocols Connectivity Devices Implementing Remote Access Security Internet connectivity Network Monitoring In addition the author has prepared a sample of client documentation a glossary of terms and a trouble shooting quick reference guide **Quality Assurance Handbook for Air Pollution Measurement Systems** ,1988 *Networking All-in-One Desk Reference For Dummies* Doug Lowe,2008-03-31 10 books in 1 your key to networking success Your one stop guide to the latest updates on networking Packed with new and updated material on Windows Server 2008 the latest Red Hat r Fedora r Vista and Office 2007 and the most up to date wireless standards this solitary reference contains everything you need to manage both large and small networks With these ten minibooks you ll discover how to make your network share information in the most efficient way possible Discover how to Manage Macs in a Windows environment Handle mobile devices on a network Configure Windows r XP and Vista clients Back up and protect your data Set up a wireless network **Building a Workforce for the Information Economy** National Research Council,Office of Scientific and Engineering Personnel,Board on Science, Technology, and Economic Policy,Board on Testing and Assessment,Computer Science and Telecommunications Board,Committee on Workforce Needs in Information Technology,2001-03-19 A look at any newspaper s employment section suggests that competition for qualified workers in information technology IT is intense Yet even experts disagree on not only the actual supply versus demand for IT workers but also on whether the nation should take any action on this economically

important issue Building a Workforce for the Information Economy offers an in depth look at IT workers where they work and what they do and the policy issues they inspire It also illuminates numerous areas that have been questioned in political debates Where do people in IT jobs come from and what kind of education and training matter most for them Are employers and workers experiences similar or different in various parts of the country How do citizens of other countries factor into the U S IT workforce What do we know about IT career paths and what does that imply for IT workers as they age And can we measure what matters The committee identifies characteristics that differentiate IT work from other categories of high tech work including an informative contrast with biotechnology The book also looks at the capacity of the U S educational system and of employer training programs to produce qualified workers

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