



# Virtual Tunnel Interface (VTI) Design Guide

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This design guide is written for systems engineers and support engineers to provide guidelines and best practices for deploying virtual tunnel interfaces (VTIs).

This design guide defines the comprehensive functional components required to build an enterprise virtual private network (VPN) solution that can transport IP telephony and video. It identifies the individual hardware requirements and their interconnections, software features, management needs, and partner dependencies. This helps a customer deploy a manageable and maintainable enterprise VPN solution. It is assumed that the reader has a basic understanding of IP Security (IPsec).

This design guide is part of an ongoing series that addresses VPN solutions, using the latest VPN technologies from Cisco, and based on practical, tested designs.

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# Virtual Tunnel Interface Vti Design Guide

**Sean Wilkins**



## **Virtual Tunnel Interface Vti Design Guide:**

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 Designing Cisco Network Service Architectures (ARCH) (Authorized Self-Study Guide) Keith T. Hutton, Mark D. Schofield, Diane Teare, 2008-12-24 Authorized Self Study Guide Designing Cisco Network Service Architectures ARCH Second Edition Foundation learning for ARCH exam 642 873 Keith Hutton Mark Schofield Diane Teare Designing Cisco Network

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**Designing Cisco Network Service Architectures (ARCH)** John Tiso,Keith T. Hutton,2012

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**Implementing Cisco IOS Network Security (IINS 640-554) Foundation Learning Guide** Catherine Paquet, 2012-11-29 Implementing Cisco IOS

Network Security IINS Foundation Learning Guide Second Edition Foundation learning for the CCNA Security IINS 640 554 exam Implementing Cisco IOS Network Security IINS Foundation Learning Guide Second Edition is a Cisco authorized self paced learning tool for CCNA Security 640 554 foundation learning This book provides you with the knowledge needed to secure Cisco networks By reading this book you will gain a thorough understanding of how to develop a security infrastructure recognize threats and vulnerabilities to networks and mitigate security threats This book focuses on using Cisco IOS routers to protect the network by capitalizing on their advanced features as a perimeter router firewall intrusion prevention system and site to site VPN device The book also covers the use of Cisco Catalyst switches for basic network security the Cisco Secure Access Control System ACS and the Cisco Adaptive Security Appliance ASA You learn how to perform basic tasks to secure a small branch office network using Cisco IOS security features available through web based GUIs Cisco Configuration Professional and the CLI on Cisco routers switches and ASAs Whether you are preparing for CCNA Security certification or simply want to gain a better understanding of Cisco IOS security fundamentals you will benefit from the information provided in this book Implementing Cisco IOS Network Security IINS Foundation Learning Guide 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) Develop a comprehensive network security policy to counter threats against information security Secure borderless networks Learn how to use Cisco IOS Network Foundation Protection NFP and Cisco Configuration Professional CCP Securely implement the management and reporting features of Cisco IOS devices Deploy Cisco Catalyst Switch security features Understand IPv6 security features Plan threat control strategies Filter traffic with access control lists Configure ASA and Cisco IOS zone based firewalls Implement intrusion prevention systems IPS and network address translation NAT Secure connectivity with site to site IPsec VPNs and remote access VPNs This volume is in the Foundation Learning Guide Series offered by Cisco Press 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 Category Cisco Certification Covers CCNA Security IINS exam 640 554 **CCNA Certification Study Guide** Todd Lammle, 2020-02-11 Cisco expert Todd Lammle prepares you for the NEW Cisco CCNA certification exam Cisco the world leader in network technologies has released the new Cisco Certified Network Associate CCNA exam This consolidated certification exam tests a candidate s ability to implement and administer a wide range of modern IT networking technologies The CCNA Certification Study Guide Volume 2 Exam 200 301 covers every exam objective including network components IP connectivity and routing network security virtual networking and much more Clear and accurate chapters provide you with real world examples hands on activities in depth explanations and numerous review questions to ensure that you re fully



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A Virtual Reality Interface Design (VRID) Model and Methodology Tanriverdi. Vildan,2001 Virtual reality VR interfaces need to support a richer variety and more complex types of human computer interactions objects behaviors and communications than those observed in conventional interfaces Therefore design and development of VR interfaces is a challenging process that is currently more of an art than a science There is need for design models and methodologies that can guide designers in a thinking comprehensively about the overall design of the VR interface b decomposing the design task into smaller conceptually distinct and easier tasks and c communicating the structure of the design to software developers In this dissertation we introduce a virtual reality interface design VRID model and an associated VRID methodology to guide design of virtual reality interfaces The VRID model aims to provide guidance to designers as to what they should be doing in the design and why while the VRID methodology provides procedural steps and guidelines as to how the design model can be applied methodically The model uses a multi component object architecture to help designers specify graphical features behaviors interactions and communication mechanisms of interface objects The methodology guides designers in generating design specifications at high and low levels of abstraction and facilitates iterations and refinements between the two levels until a conceptually sound and practically implementable design emerges

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