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DOCSIS defines a CMTS-to-CM, PHY-to-PHY distance of 100 miles (160 km) for DOCSIS 3.0 and 50 miles (80 km) for DOCSIS 3.1. Remote PHY maintains these distances. Because Remote PHY separates the DOCSIS MAC and PHY, there is an additional distance specification. That is the MAC-to-MAC, CMTS Core to CM distance.

[Remote PHY for Converged DOCSIS, Video, and OOB ... - Cisco](#)

[DOCSIS Remote PHY Modular Headend Architecture \(MHA v2\) A Technical Paper prepared for the Society of Cable Telecommunications Engineers By John T. Chapman CTO Cable Access BU & Cisco Fellow Cisco 170 W Tasman Drive San Jose, CA 92677 408.526.7651 jchapman@cisco.com](#)

DOCSIS Remote PHY - Cisco

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The Cisco Remote-PHY solution provides a cost-effective digital fiber-based DOCSIS solution that uses Ethernet PON (EPON), Gigabit-capable Passive Optical Networks (GPON), or Metro Ethernet (MetroE) as the transmission network between the Cisco CMTS and CM. Both the PON technology and DOCSIS is used in the same network.

What is Cisco Remote-PHY Solution - Cisco

Cisco - InRemote PHY, the RF portion of the network is moved from the CCAP to a Remote PHY Device (RPD) in the remote node, and with Remote MACPHY, the DOCSIS MAC Layer 2 digital portion, many control plane functions, and the RF portion are relocated to a Remote MAC Device (RMD) in the remote node Read Online Sis Remote Phy Cisco Phy Cisco ...

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Cable Remote PHY is simply another service overlaid onto the existing Converged SDN Transport network architecture. We will cover all aspects of connectivity between the Cisco cBR-8 and the RPD device.

Cisco Remote PHY Converged Interconnect Network Design ...

In fact, John Chapman, Cisco Fellow and Cable CTO, played a central role in the creation and ongoing development of the RPHY DOCSIS standard and invented the primary technologies that were the foundation for DOCSIS 3.0 and DOCSIS 3.1.

Advantage Remote PHY White Paper - Cisco

One of those technologies with lots of buzz right now is Remote PHY (RPHY). It is one of a few competing technologies that live in the arena of cable Distributed Access Architectures (DAA). At its most basic, root definition, RPHY takes the QAM modulation/demodulation portion of the CMTS and separates it to a location outside of the CMTS.

Putting the “ Why ” in Remote PHY - Cisco Blogs

All of the Remote PHY Devices Cisco is bringing to the market are full DOCSIS 3.1 hardware capable, offer low power consumption and are compliant to the Remote PHY specification. Remote PHY is the only distributed CCAP architecture that is CableLabs specified and as such an open standard.

Innovation in the Cable Access Market – DOCSIS 3.1, Remote ...

Just over two years ago, CableLabs announced the release of a new series of specifications known as “ Remote PHY ” in the blog “ CableLabs® New Remote PHY Specifications expand DOCSIS® Network Deployment Options ” authored by CableLabs principal architect Karthik Sundaresan.

Remote PHY is a Reality - CableLabs

After digitizing their access network with Remote PHY, cable operator Midco has taken the next step in their network transformation

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journey and begun virtualizing their headend functions. Using the Cisco Cloud Native Broadband Router (cnBR), Midco is harnessing the agility of DevOps and web-scale while reducing hardware, space, power, and maintenance requirements.

### Cable Network Transformation - Cisco

The cable broadband access network is extremely complex. Hybrid fiber/coax (HFC), fiber-to-the-[feeder, building, curb, home, premises, tap], passive optical networks (PONs), digital video, DOCSIS®, remote PHY, quadrature amplitude modulation (QAM), orthogonal frequency division multiplexing (OFDM) – all of these technologies have their own technical information.

### Handy eGuide for Broadband Cable Technologists: Cisco ...

Cisco, meanwhile, launched “ Infinite Broadband, ” a remote PHY solution for cable operators that builds on its cBR-8 CCAP and GS7000 node products, noting that the combo establishes the “ foundation ” for virtualization and Full Duplex DOCSIS, an emerging annex to DOCSIS 3.1 that will enable symmetrical gigabit speeds on the HFC network.

### ‘ Remote PHY ’ Rising | Multichannel News

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### Sis Remote Phy Cisco - reliefwatch.com

John Chapman, Cisco ’ s CTO for the cable industry explores new technology that builds on a cable operators current HFC network. He covers the business opportunity, provides a definition of mobile backhaul over DOCIS and shows how the business value of using existing plant for mobile backhaul.

### docsis - Cisco Blogs

Remote PHY for Infrastructure Automation: Why It Matters and Where It ’ s Headed . Occasionally, when in the middle of a vast and highly complex architectural transition, it makes sense to pull up and survey the situation. This is one of those times.

### remote phy - Cisco Blogs

What is the Intersection of Drag Racing, Weather Spotting and Remote PHY? Today's blog features an interview with John Downey, Senior CMTS Technical Leader, and Ron Hranac, Technical Marketing Engineer, both with the Cisco Cable Access Business Unit, for a look at this year's virtual Cable-Tec Expo.

### remote phy - Cisco Blogs

At the SCTE/ISBE Cable-Tec Expo in Denver, Cisco (NASDAQ:CSCO) is highlighting its Infinite Broadband Remote PHY solution (RPHY) for

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cable access networks, a standards-based distributed access architecture (DAA) solution. Remote PHY refers to moving the physical "PHY" circuit layer out of a headend device such as a converged cable access platform (CCAP) and putting it into a distributed device ...

Cisco Highlighting Remote PHY Solution | Broadband ...

Putting the “ Why ” in Remote PHY . Data demands are on the rise and Service Providers are looking for functional, cost-effective options. Enter Remote PHY to the scene. Learn more about why a rural operator chose Remote PHY.

Trust the best-selling Official Cert Guide series from Cisco Press to help you learn, prepare, and practice for exam success. They are built with the objective of providing assessment, review, and practice to help ensure you are fully prepared for your certification exam. Master Cisco CCNP SWITCH 300-115 exam topics Assess your knowledge with chapter-opening quizzes Review key concepts with exam preparation tasks This is the eBook edition of the CCNP Routing and Switching SWITCH 300-115 Official Cert Guide. This eBook does not include the companion CD-ROM with practice exam that comes with the print edition. CCNP Routing and Switching SWITCH 300-115 Official Cert Guide from Cisco Press enables you to succeed on the exam the first time and is the only self-study resource approved by Cisco. Expert engineer David Hucaby shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. This complete, official study package includes A test-preparation routine proven to help you pass the exam Do I Know This Already? quizzes, which enable you to decide how much time you need to spend on each section Chapter-ending exercises, which help you drill on key concepts you must know thoroughly The powerful Pearson IT Certification Practice Test software, complete with hundreds of well-reviewed, exam-realistic questions, customization options, and detailed performance reports More than 60 minutes of personal video mentoring from the author on important exam topics A final preparation chapter, which guides you through tools and resources to help you craft your review and test-taking strategies Study plan suggestions and templates to help you organize and optimize your study time Well regarded for its level of detail, study plans, assessment features, challenging review questions and exercises, this official study guide helps you master the concepts and techniques that ensure your exam success. CCNP Routing and Switching SWITCH 300-115 Official Cert Guide 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](http://www.cisco.com). The official study guide helps you master topics on the CCNP R&S SWITCH 300-115 exam, including: Enterprise campus design Switch operation Switch port configuration VLANs, Trunks, and VLAN Trunking Protocol (VTP) Spanning Tree Protocol (STP), RSTP, and MSTP Protecting the STP topology Aggregating switch links Multilayer switching Configuring DHCP Logging switch activity and managing switches with SNMP Monitoring performance and traffic High availability Securing switched networks

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JUNOS Enterprise Switching is the only detailed technical book on Juniper Networks' new Ethernet-switching EX product platform. With this book, you'll learn all about the hardware and ASIC design prowess of the EX platform, as well as the JUNOS Software that powers it. Not only is this extremely practical book a useful, hands-on manual to the EX platform, it also makes an excellent study guide for certification exams in the JNTCP enterprise tracks. The authors have based JUNOS Enterprise Switching on their own Juniper training practices and programs, as well as the configuration, maintenance, and troubleshooting guidelines they created for their bestselling companion book, JUNOS Enterprise Routing. Using a mix of test cases, case studies, use cases, and tangential answers to real-world problems, this book covers: Enterprise switching and virtual LANs (VLANs) The Spanning tree protocol and why it's needed Inter-VLAN routing, including route tables and preferences Routing policy and firewall filters Switching security, such as DHCP snooping Telephony integration, including VLAN voice Part of the Juniper Networks Technical Library, JUNOS Enterprise Switching provides all-inclusive coverage of the Juniper Networks EX product platform, including architecture and packet flow, management options, user interface options, and complete details on JUNOS switch deployment.

This book is a concise one-stop desk reference and synopsis of basic knowledge and skills for Cisco certification prep. For beginning and experienced network engineers tasked with building LAN, WAN, and data center connections, this book lays out clear directions for installing, configuring, and troubleshooting networks with Cisco devices. The full range of certification topics is covered, including all aspects of IOS, NX-OS, and ASA software. The emphasis throughout is on solving the real-world challenges engineers face in configuring network devices, rather than on exhaustive descriptions of hardware features. This practical desk companion doubles as a comprehensive overview of the basic knowledge and skills needed by CCENT, CCNA, and CCNP exam takers. It distills a comprehensive library of cheat sheets, lab configurations, and advanced commands that the authors assembled as senior network engineers for the benefit of junior engineers they train, mentor on the job, and prepare for Cisco certification exams. Prior familiarity with Cisco routing and switching is desirable but not necessary, as Chris Carthern, Dr. Will Wilson, Noel Rivera, and Richard Bedwell start their book with a review of the basics of configuring routers and switches. All the more advanced chapters have labs and exercises to reinforce the concepts learned. This book differentiates itself from other Cisco books on the market by approaching network security from a hacker ' s perspective. Not only does it provide network security recommendations but it teaches you how to use black-hat tools such as oclHashcat, Loki, Burp Suite, Scapy, Metasploit, and Kali to actually test the security concepts learned. Readers of Cisco Networks will learn How to configure Cisco switches, routers, and data center devices in typical corporate network architectures The skills and knowledge needed to pass Cisco CCENT, CCNA, and CCNP certification exams How to set up and configure at-home labs using virtual machines and lab exercises in the book to practice advanced Cisco commands How to implement networks of Cisco devices supporting WAN, LAN, and data center configurations How to implement secure network configurations and configure the Cisco ASA firewall How to use black-hat tools and network penetration techniques to test the security of your network

Break down the misconceptions of the Internet of Things by examining the different security building blocks available in Intel Architecture (IA) based IoT platforms. This open access book reviews the threat pyramid, secure boot, chain of trust, and the SW stack leading up to defense-in-depth. The IoT presents unique challenges in implementing security and Intel has both CPU and Isolated Security Engine

capabilities to simplify it. This book explores the challenges to secure these devices to make them immune to different threats originating from within and outside the network. The requirements and robustness rules to protect the assets vary greatly and there is no single blanket solution approach to implement security. Demystifying Internet of Things Security provides clarity to industry professionals and provides an overview of different security solutions. What You'll Learn Secure devices, immunizing them against different threats originating from inside and outside the network. Gather an overview of the different security building blocks available in Intel Architecture (IA) based IoT platforms. Understand the threat pyramid, secure boot, chain of trust, and the software stack leading up to defense-in-depth. Who This Book Is For Strategists, developers, architects, and managers in the embedded and Internet of Things (IoT) space trying to understand and implement the security in the IoT devices/platforms.

This book will highlight the motivation for coherent optics in access and introduce digital coherent optical system in detail, including advanced modulation formats, architecture of modulation and detection, and DSP flow for both transmitter and receiver. This book will also demonstrate potential approaches to re-design and re-engineer the digital coherent concept from long-haul and metro solutions to the access network, leveraging reduction in complexity and cost as well as the benefits of capacity increases and operational improvements. This book will illustrate the details on optimization of the digital, optical, and electrical complexity and standardization and interoperability.

Here is the first book to focus solely on Cisco network hacking, security auditing, and defense issues. Using the proven Hacking Exposed methodology, this book shows you how to locate and patch system vulnerabilities by looking at your Cisco network through the eyes of a hacker. The book covers device-specific and network-centered attacks and defenses and offers real-world case studies.

Nowadays, the Internet plays a vital role in our lives. It is currently one of the most effective media that is shifting to reach into all areas in today's society. While we move into the next decade, the future of many emerging technologies (IoT, cloud solutions, automation and AI, big data, 5G and mobile technologies, smart cities, etc.) is highly dependent on Internet connectivity and broadband communications. The demand for mobile and faster Internet connectivity is on the rise as the voice, video, and data continue to converge to speed up business operations and to improve every aspect of human life. As a result, the broadband communication networks that connect everything on the Internet are now considered a complete ecosystem routing all Internet traffic and delivering Internet data faster and more flexibly than ever before. This book gives an insight into the latest research and practical aspects of the broadband communication networks in support of many emerging paradigms/applications of global Internet from the traditional architecture to the incorporation of smart applications. This book includes a preface and introduction by the editors, followed by 20 chapters written by leading international researchers, arranged in three parts. This book is recommended for researchers and professionals in the field and may be used as a reference book on broadband communication networks as well as on practical uses of wired/wireless broadband communications. It is also a concise guide for students and readers interested in studying Internet connectivity, mobile/optical broadband networks and concepts/applications of telecommunications engineering.

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Provides an in-depth, objective guide to Arista's lineup of hardware, and explains why its network switches and Extensible Operating System (EOS) are so effective.

This handbook is an authoritative, comprehensive reference on optical networks, the backbone of today ' s communication and information society. The book reviews the many underlying technologies that enable the global optical communications infrastructure, but also explains current research trends targeted towards continued capacity scaling and enhanced networking flexibility in support of an unabated traffic growth fueled by ever-emerging new applications. The book is divided into four parts: Optical Subsystems for Transmission and Switching, Core Networks, Datacenter and Super-Computer Networking, and Optical Access and Wireless Networks. Each chapter is written by world-renown experts that represent academia, industry, and international government and regulatory agencies. Every chapter provides a complete picture of its field, from entry-level information to a snapshot of the respective state-of-the-art technologies to emerging research trends, providing something useful for the novice who wants to get familiar with the field to the expert who wants to get a concise view of future trends.

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