

Telecom, Datacom and Networking for Non-Engineers

The Broadband Converged
IP Telecommunications Network
Wireless Telecommunications
Fundamentals of Voice Over IP
The PSTN, DSL and Cable Modems
OSI Layers and Protocol Stacks
LANs, VLANs And Optical Ethernet
IP Networks, Routers And Addresses
MPLS and Carrier Networks

Eric C. Coll, M.Eng.

Second Edition 2023

Telecom Datacom And Networking For Non Engineers

By Eric Coll

Eric Coll



Telecom Datacom And Networking For Non Engineers By Eric Coll:

Telecom, Datacom and Networking for Non-Engineers Eric Coll, 2023-01-31 Eight in One Telecom Datacom and Networking for Non Engineers is a subset of the 550 page Telecom 101 stripped down to the core eight chapters corresponding to the eight CTNS courses key chapters delivering the core telecommunications and telecom network knowledge needed by anyone serious in telecom today in plain English 1 Introduction to Broadband Converged IP Telecom 2 Wireless Telecommunications 3 Fundamentals of Voice over IP 4 The PSTN 5 OSI Layers and Protocol Stacks 6 LANs VLANs Wireless and Optical Ethernet 7 IP Addresses Packets and Routers 8 MPLS and Carrier Networks Based on the world renowned TCO CTNS certification courses training developed refined and tuned over many years the selection of material its order and emphasis is proven and field tested to bring you the knowledge you need Our approach can be summed up with a simple philosophy Start at the beginning Progress in a logical order Build one concept on top of another Finish at the end Avoid jargon Bust the buzzwords demystify jargon and cut through doubletalk Fill in the gaps build a solid base of knowledge put a structure in place and show how everything fits together knowledge and understanding that lasts a lifetime Understanding what everything does and how it all works together allows you to be more accurate eliminates frustration with buzzwords being left out of discussions giving you confidence to make meaningful contributions You have the added advantage of knowing what someone is talking about even if you re not familiar with the exact details of the variation they re discussing Telecom Datacom and Networking for Non Engineers is ideal for anyone needing a book covering the essential core knowledge in telecommunications in plain English In one book you get consistency completeness and unbeatable value a wealth of clear concise organized knowledge impossible to find in one place anywhere else Telecom Datacom and Networking for Non Engineers has two parts first a deep dive into Telecom Introduction to Broadband Converged IP Telecom Wireless Telecommunications Fundamentals of Voice over IP and The PSTN then a deep dive into Datacom and Networking OSI Layers and Protocol Stacks LANs VLANs Wireless and Optical Ethernet IP Addresses Packets and Routers and MPLS and Carrier Networks Let s get started Telecommunications for Non-engineers : a Comprehensive Two-day Overview and Update on Telecommunications, Data Communications and Networking Geared to the Non-engineering Professional Eric Coll, 2001 **Course 101** Eric Coll, 2020-05-12 Course 101 Telecom Datacom and Networking for Non Engineers Course Workbook Teracom Training Institute BOOT CAMP Days 1 3 The in class course workbook for Course 101 our core training an intensive three day course designed for non engineering professionals to get you up to speed on virtually all aspects of telecom datacom and networking from fundamentals and jargon to the latest technologies Course 101 is the first three days of Teracom s famous week long instructor led telecommunications training BOOT CAMP Tuned and refined over more than 20 years and totally updated for 2020 with broadband Internet the converged IP telecom network cloud computing web services and data centers in the front seat the topics in this course represent the core knowledge set necessary for anyone

serious in telecom today Part 1 Fundamentals1 Introduction to Telecommunications2 Telecom Fundamentals3 Network Fundamentals4 The Internet Cloud Computing Web Services and Data Centers5 Telecom Services Overview6 Digital Media Voice Video Images Quantities TextPart 2 Telecom Technologies7 Wireless8 Fiber Optics9 CopperPart 3 Equipment Carriers and Interconnect10 Telecom Equipment11 Carriers and InterconnectPart 4 Networking12 The OSI Layers and Protocol Stacks13 Ethernet LANs and VLANs14 IP Networks Routers and Addresses15 MPLS and Carrier Networks16 Wrapping Up Course 101This is the exact course workbook used in Teracom instructor led training It is in a fixed 8 5 x 11 format usually printed and spiral bound so it opens flat The eBook is the same 8 5 x 11 pages not reflowable to fit small screens If you need a reflowable eBook that adapts to small screens please see the Telecom 101 companion reference textbook which is reflowable and has similar content <https://www.amazon.com/dp/B086TYYCJ8> *Legacy Datacom Technology: X.25, Frame Relay and ATM* Eric Coll,2023-02-09 Legacy Datacom Technology X 25 Frame Relay and ATM This module describes data communication and networking technologies that were formerly mainstream but no longer in wide use if at all The idea of a virtual circuit called a Forwarding Equivalence Class in MPLS lingo goes all the way back to the 1960s and X 25 data packet networks which all telephone companies built and sold services on Envoy 100 email from Bell Canada ran over Datapac parts of the Internet ran over TymeNet in the very early days both were commercial X 25 networks Access speeds to X 25 were 1 2 kb s dial up modem or for the institutional customer 56 kb s data circuit The latency i e delay caused by the network was outlandishly long compared to today s networks Frame Relay was a speed improvement over X 25 mostly running at 1 5 Mb s but did not come with a guarantee of maximum latency and maximum packet loss necessary to be able to guarantee voice quality when communicating phone calls in packets over Frame Relay Asynchronous Transfer Mode ATM was supposed to be the answer to all of our problems carrying phone calls television data and Internet traffic together with suitable guarantees for each But it got so ridiculously complicated and expensive it got thrown away and replaced with what we have today IP packets with MPLS to implement virtual circuits In this module are the three predecessors to IP MPLS And lest we forget Asynchronous Ports on PCs to connect modems and mice communicating one byte at a time start bits stop bits and parity checking Telecom 101 Module 19 Detailed Outline 19 Legacy Datacom Technology X 25 Frame Relay and ATM 19 1 Asynchronous Start Stop Parity 19 1 1 Asynchronous Communications 19 1 2 Framing Start and Stop Bits 19 1 3 Parity Checking 19 2 X 25 Packet Switching using Virtual Circuits 19 2 1 X 25 Network Structure and Operation 19 2 2 Reliable Network Service Guaranteed Delivery 19 2 3 Connection Oriented vs Connectionless Network Service 19 3 Frame Relay 19 3 1 Elimination of a Layer of Software 19 3 2 Unreliable Service 19 3 3 Network Structure and Operation 19 3 4 No Guarantees for Voice 19 4 ATM 19 4 1 Future Proof Technology Not 19 4 2 ATM Cells 19 4 3 Service Classes [Telecom 101](#) Eric Coll,2022-04-27 Packed with information authoritative up to date covering all major topics and written in plain English Telecom 101 is an invaluable textbook and day to day reference on telecommunications for non engineers Telecom

101 covers the technologies the players the products and services jargon and buzzwords and most importantly the underlying ideas and how it all fits together This is the best comprehensive book on telecommunications available anywhere based on the course materials for Teracom s famous instructor led Course 101 Broadband Telecom Datacom and Networking for Non Engineers the selection of content its order timing and pacing has been tuned and refined over years to effectively define and deliver the core set of technical knowledge needed by anyone serious in the telecom business today In one book you get consistency completeness and unbeatable value a wealth of clear concise organized knowledge impossible to find in one place anywhere else Our approach can be summed up with a simple philosophy Start at the beginning Progress in a logical order Build one concept on top of another Finish at the end Avoid jargon Speak in plain English Bust the buzzwords demystify jargon and cut through doubletalk Fill in the gaps build a solid base of knowledge put a structure in place and show how everything fits together knowledge and understanding that lasts a lifetime Many chapters of Telecom 101 are like self contained reference books on specific topics get all of these topics bound in one volume for one low price Compare this to hunting down and paying for multiple books by different authors that may or may not cover what you need to know and you ll agree this is a very attractive deal Telecom 101 is your go to telecom resource covering all major topics The modern Broadband Converged IP Telecom Network Telecom fundamentals modems and multiplexing Network fundamentals packets and frames TCP ports MPLS Internet fundamentals ISPs DNS cloud computing web services data centers Telecom services residential business wholesale Digital media digitized voice video images quantities text VoIP fundamentals system components voice in packets SIP softswitches gateways Wireless spectrum mobile networks LTE 5G broadband wireless Wi Fi satellite Fiber fundamentals wavelengths DWDM Optical Ethernet fiber to the premise Copper the PSTN analog POTS DSL Hybrid Fiber Coax LAN cables Equipment routers Layer 2 switches call managers softswitches legacy CO switches and PBXs gateways The OSI Model the Layers their purpose implementation how protocol stacks work Ethernet LANs and VLANs MAC addresses MAC frames Layer 2 switches VLANs IP public and private IP addresses subnets routers DHCP NAT IPv6 MPLS and Carrier Networks Service Level Agreements virtual circuits business VPNs Class of Service Wrapping up Technology deployment steps analysis design implementation The Future Telecom 101 is the course materials for Course 101 allowing study and review of topics before attending a course and a valuable desk reference after Telecom 101 is also the course book and study guide for the TCO Certified Telecommunications Analyst CTA telecommunications certification Telecom 101 is also an economical and convenient way to self study these are the materials to an instructor led course that costs 1895 to attend Written by our top instructor Eric Coll M Eng Telecom 101 contains decades of knowledge and learning distilled and organized into an invaluable study guide and practical day to day reference for non engineers career and productivity enhancing training an investment in life long knowledge that will be repaid many times over Join thousands of satisfied customers Get your copy today Best Book on the Market for Telecom 6 stars Amazon Customer review amazon com gp

customer reviews RPXAC8JZL8Y6D **VoIP 101** Eric Coll,2023-01-31 VoIP 101 is designed for the non engineering professional needing an overview and update and for those new to the business needing to get up to speed quickly VoIP 101 covers all major topics in Voice over IP in plain English From fundamentals to softswitches and SIP trunking we ll explain the jargon and the technologies and more importantly the underlying ideas Based on training courses developed refined and tuned over many years the selection of material its order and emphasis in VoIP 101 is proven and field tested to bring you the knowledge of Voice over IP you need Understanding what everything does and how it all works together allows you to be more accurate eliminates frustration with buzzwords and gives you confidence to make meaningful contributions You have the added advantage of knowing what someone is talking about even if you re not familiar with the exact details of the variation they re discussing Don t be the one person in the room who isn t up to speed Your employer or prospective employer will be interested to hear you have this solid foundation of knowledge that project and product specific knowledge can be built on getting you up to speed quickly then having the versatility to subsequently work on different projects VoIP 101 has six chapters covering all aspects of Voice over IP including all the different ways VoIP is implemented how calls are set up with softswitches and SIP how voice is packetized the factors affecting sound quality connecting to carriers and SIP trunking and network quality with MPLS Service Level Agreements and Class of Service 1 Fundamentals of Voice over IP A complete introduction to everything Voice over IP You ll learn the fundamental ideas and principles of a VoIP telephone system the jargon and buzzwords and how it all works together 2 VoIP Architectures and Implementation Choices Next is a comprehensive overview of the many flavors of VoIP comparing and contrasting the various implementation and architecture choices 3 Softswitches SIP Call Setup and SIP Trunking This chapter is all about SIP and how it is used to set up phone calls what SIP is how it works jargon like proxy server and location server how SIP fits in with softswitches and call managers and trace the establishment of a VoIP phone call using SIP and DNS step by step 4 Voice Packetization Codecs and Voice Quality The nuts and bolts of Voice over IP how the voice is digitized and coded time stamps applied with the RTP protocol and how the result is carried in UDP IP packets and MAC frames 5 SIP Trunking Carrier Connections This chapter is all about connecting to carriers to communicate VoIP phone calls both carrier to carrier connections and business to carrier SIP trunking 6 IP Network Quality CoS QoS MPLS and SLAs The last chapter in VoIP 101 focuses on the network service provided by carriers to move VoIP packets and how network traffic is identified managed and prioritized resulting in Class of Service offerings to meet Service Level Agreements VoIP 101 is intended to be read sequentially building ideas on top of ideas The detailed Table of Contents makes it also useful as a day to day reference handbook Our goal is to explain the big picture the jargon and buzzwords and put in place a very solid base of VoIP knowledge spanning fundamentals to the latest technologies and how they are deployed in plain English Let s get started **Wireless 101** Eric Coll,2023-01-31 Wireless 101 delivers the core technical knowledge needed by anyone serious in the wireless business today A great deal of Wireless

101 is devoted to mobile communications because one of the great things about wireless is you can move around while communicating and people are willing to pay cold hard cash for it If you added up all of the industry associated with mobile communications everything from selling handsets and providing customer service all of the people who work for the carrier the trucks they buy people getting jobs as riggers installing equipment on towers the insurance they have to pay for the mobile communications industry shows up as part of the gross domestic product of every country in the world Bluetooth and Wi Fi are now an indispensable part of everyday life including in building Internet access and connecting your phone to your car as soon as you get close to it In July 2022 Starlink was delivering download rates bursting up towards 1 Gb s to remote areas for 120 per month This brings Broadband To The Remote Masses in one fell swoop and will surely boost the quality of life and economic activity worldwide So that s covered too

Part 1 Wireless Fundamentals The first part of Wireless 101 is Wireless Fundamentals five chapters that set the foundation with radio fundamentals and spectrum how modems are used to move bits and radio penetration propagation and fading

Part 2 Mobile Communications The second part of Wireless 101 is Mobile Communications fourteen chapters on mobility and mobile communications from A Z beginning with the ideas of cellular radio handoffs how PSTN phone calls Voice minutes are implemented and how Mobile Internet Data plan is implemented We ll explain the technologies FDMA TDMA CDMA OFDMA the generations and LTE and 5G New Radio including millimeter wave Ultra Broadband and low bit rate 5G services for IoT

Part 3 Fixed Wireless In the third part of Wireless 101 we ll cover other radio systems primarily fixed wireless where the question of continuous communications while driving down the highway doesn t come into play so much We ll cover Wi Fi wireless LANs standards and security Bluetooth broadband wireless home Internet point to point Low Power Wide Area Networks and finish with satellite communications and Starlink

TCO CVA Certified VoIP Analyst Study Guide Eric Coll,2022-12-02 Certification study guide and companion reference textbook for the TCO Certified VoIP Analyst CVA courses and exams The CVA Study Guide corresponds directly to the CVA online courses and exams For each lesson detailed text notes are provided along with the main graphic Many people find they learn better with a companion book Printed in color Get a complete understanding of Voice over IP and SIP with CVA Certification to prove it CVA covers all aspects of Voice over IP including all the different ways VoIP is implemented how calls are set up with softswitches and SIP how voice is packetized and the factors affecting sound quality connecting to carriers and SIP trunking and network quality with MPLS Service Level Agreements and Class of Service The Certified VoIP Analyst Certification includes six online courses and exams 2221 Fundamentals of Voice over IP 2222 VoIP Architectures and Implementation Choices 2223 Softswitches SIP Call Setup and SIP Trunking 2224 Voice Packetization Codecs and Voice Quality 2225 SIP Trunking and Carrier Connections 2226 IP Network Quality CoS QoS MPLS AND SLAs This knowledge enables a CVA to stand out from the rest with demonstrated broad and deep vendor agnostic knowledge of VoIP systems and best practices This kind of knowledge enables higher paying positions performing analysis writing reports making

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Telecom 101 : Telecommunications for Non-engineers Eric C. Coll, Teracom Training Institute, 2001

Telecom 101 Eric Coll, 2022-04-29 Packed with information authoritative up to date covering all major topics and written in plain English Telecom 101 is an invaluable textbook and day to day reference on telecommunications for non engineers Telecom 101 covers the technologies the players the products and services jargon and buzzwords and most importantly the underlying ideas and how it all fits together This is the best comprehensive book on telecommunications available anywhere based on the course materials for Teracom's famous instructor led Course 101 Broadband Telecom Datacom and Networking for Non Engineers the selection of content its order timing and pacing has been tuned and refined over years to effectively define and deliver the core set of technical knowledge needed by anyone serious in the telecom business today In one book you get consistency completeness and unbeatable value a wealth of clear concise organized knowledge impossible to find in one place anywhere else Our approach can be summed up with a simple philosophy Start at the beginning Progress in a logical order Build one concept on top of another Finish at the end Avoid jargon Speak in plain English Bust the buzzwords demystify jargon and cut through doubletalk Fill in the gaps build a solid base of knowledge put a structure in place and show how everything fits together knowledge and understanding that lasts a lifetime Many chapters of Telecom 101 are like self contained reference books on specific topics get all of these topics bound in one volume for one low price Compare this to hunting down and paying for multiple books by different authors that may or may not cover what you need to know and you'll agree this is a very attractive deal Telecom 101 is your go to telecom resource covering all major topics The modern Broadband Converged IP Telecom Network Telecom fundamentals modems and multiplexing Network fundamentals packets and frames TCP ports MPLS Internet fundamentals ISPs DNS cloud computing web services data centers Telecom services residential business wholesale Digital media digitized voice video images quantities text VoIP fundamentals system components voice in packets SIP softswitches gateways Wireless spectrum mobile networks LTE 5G broadband wireless Wi-Fi satellite Fiber fundamentals wavelengths DWDM Optical Ethernet fiber to the premise Copper the PSTN analog POTS DSL Hybrid Fiber Coax LAN cables Equipment routers Layer 2 switches call managers softswitches legacy CO switches and PBXs gateways The OSI Model the Layers their purpose implementation how protocol stacks work

Ethernet LANs and VLANs MAC addresses MAC frames Layer 2 switches VLANs IP public and private IP addresses subnets routers DHCP NAT IPv6 MPLS and Carrier Networks Service Level Agreements virtual circuits business VPNs Class of Service Wrapping up Technology deployment steps analysis design implementation The Future Telecom 101 is the course materials for Course 101 allowing study and review of topics before attending a course and a valuable desk reference after Telecom 101 is also the course book and study guide for the TCO Certified Telecommunications Analyst CTA telecommunications certification Telecom 101 is also an economical and convenient way to self study these are the materials to an instructor led course that costs 1895 to attend Written by our top instructor Eric Coll M Eng Telecom 101 contains decades of knowledge and learning distilled and organized into an invaluable study guide and practical day to day reference for non engineers career and productivity enhancing training an investment in life long knowledge that will be repaid many times over Join thousands of satisfied cust

Who's Who in Science and Engineering 2008-2009 Who's Who Marquis, Marquis Who's Who, 2007-12 Scientific and Technical Books and Serials in Print, 1984 **Telecom 101** Eric C. Coll, 2020 *Telecom 101 - 3rd edition* Eric C. Coll, 2008 **Telecom 101** Eric Coll, 2016 **Telecommunications and Data Communications Handbook** Ray Horak, 2007-10-16 For an accessible and comprehensive survey of telecommunications and data communications technologies and services consult the Telecommunications and Data Communications Handbook which includes information on origins evolution and meaningful contemporary applications Find discussions of technologies set in context with details on fiber optics cellular radio digital carrier systems TCP IP and the Internet Explore topics like Voice over Internet Protocol VoIP 802.16 Passive Optical Network PON 802.11g Multiple Input Multiple Output MIMO in this easily accessible guide without the burden of technical jargon *Fundamentals of Telecom* Eric Coll, Teracom Training Institute, 2003 Telecom 101 : Understanding Telecommunications Eric Coll, Teracom Technologies Inc, 2002 *Introduction to Telecommunications Network Engineering, Second Edition* Tarmo Anttalainen, 2003 Whether you are an executive or sales manager in a networking company a data communications engineer or a telecommunications professional you must have a thorough working knowledge of the ever growing and interrelated array of telecom and data communications technologies From protocols and operation of the Internet IP TCP HTTP and its access systems such as ADSL and GSM to the basics of transmission and switching this newly revised resource delivers an up to date introduction to a broad range of networking technologies clearly explaining the networking essentials you need to know to be a successful networking professional Moreover the book explores the future developments in optical wireless and digital broadcast communications **Introduction to Communications Technologies** Stephan Jones, Ron Kovac, 2003 This book is a quick read tutorial on telecommunications for graduate and undergraduate students in management information systems and telecommunications management courses While dealing with the engineering aspects of communication the book provides a basic understanding of how things work not how to design systems Topics include

systems electricity signalling telephony switching wireless CTI and video

Embracing the Track of Phrase: An Emotional Symphony within **Telecom Datacom And Networking For Non Engineers By Eric Coll**

In some sort of used by monitors and the ceaseless chatter of instantaneous transmission, the melodic elegance and psychological symphony developed by the written word often fade into the backdrop, eclipsed by the persistent noise and interruptions that permeate our lives. But, located within the pages of **Telecom Datacom And Networking For Non Engineers By Eric Coll** a wonderful fictional value brimming with organic feelings, lies an immersive symphony waiting to be embraced. Crafted by an elegant musician of language, that charming masterpiece conducts readers on a mental trip, well unraveling the concealed songs and profound influence resonating within each cautiously constructed phrase. Within the depths of this touching evaluation, we shall discover the book is key harmonies, analyze their enthralling writing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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