

1. Record Nr.	UNINA9910792281603321
Autore	Krzanowski Roman
Titolo	Metro Ethernet services for LTE backhaul // Roman Krzanowski
Pubbl/distr/stampa	Boston : , : Artech House, , [2013] [Piscataqay, New Jersey] : , : IEEE Xplore, , [2013]
ISBN	1-60807-686-5
Descrizione fisica	1 online resource (205 p.)
Collana	Artech House mobile communications series
Disciplina	621.38216
Soggetti	Ethernet (Local area network system) Metropolitan area networks (Computer networks) Long-Term Evolution (Telecommunications) Mobile communication systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	""Contents""; ""Acknowledgments""; ""1 Introduction""; ""1.1a ?Why This Book""; ""1.2a ?MEN and MEBH Service ""; ""1.3a ?LTE Architecture Overview""; ""1.4a ?The Road to Ethernet""; ""1.5a ?Outline of the Book""; ""Endnotes""; ""2 Constructing MEBH Service""; ""2.1a ?Design Processa ?Perspectives""; ""2.2a ?Common Concepts""; ""2.2.1a ? Ethernet Frame""; ""2.2.2a ?UNI and EVC""; ""2.2.3a ?ENNI and OVC""; ""2.3a ?Providera ?s View""; ""2.3.1a ?Reference Models""; ""2.3.2a ?UNI and EVC Attributes""; ""2.3.3a ?ENNI and OVC Attributes""; ""2.3.4a ?QoS Profiles ""; ""2.4a ?Customera ?s View"" ""2.4.1a ?Reference Model""""2.4.2a ?Service Functional Groups""; ""2.4.3a ?MEBH Service Requirements""; ""2.5a ?Common Grounds""; ""Endnotes""; ""3 Service Functions Technology Overview""; ""3.1a ? Service Logic""; ""3.1.1a ?E-Line Service""; ""3.1.2a ?E-LAN Service""; ""3.1.3a ?E-Tree Service""; ""3.1.4a ?Services in Multiprovider Architecture""; ""3.1.5a ?Layer 2 Control Protocol (L2CP) ""; ""3.2a ? Service Transport ""; ""3.2.1a ?Ethernet Technology""; ""3.2.2a ? Transport Technologies""; ""3.2.3a ?Comparison of Different Technologies ""; ""3.3a ?Service Protection "" ""3.3.1a ?Terminology""""3.3.2a ?Concepts""; ""3.3.3a ?Estimating Availability""; ""3.3.4a ?Protected Service Architectures""; ""3.3.5a ?

Implementation"; "3.3.6a ?Measuring Resiliency"; "3.4a ?Quality of Service"; "3.4.1a ?Bandwidth Concepts"; "3.4.2a ?Bandwidth Enforcement"; "3.4.3a ?Bandwidth Profiles"; "3.4.4a ?Estimating Throughput"; "3.4.5a ?QoS ?End-to-End View"; "3.4.6a ?CoS Classes"; "3.5a ?Service Performance"; "3.5.1a ?Metrics"; "3.5.2a ?Estimating Latency"; "3.5.3a ?MEF Performance Metrics"; "3.5.4a ?Multipoint Metrics"; "3.6a ?Service Verification"  
"3.6.1a ?SOAM"; "3.6.2a ?Service Level Assurance"; "3.7a ?Service Interconnectivity (Engineering Requirements)"; "3.7.1a ?Transport Media"; "3.7.2a ?Interfaces"; "3.7.3a ?Physical Aspects";  
"Endnotes"; "4 MEBH Service Design"; "4.1a ?MEBH Service Logic";  
"4.1.1a ?MEBH Using E-Line Service"; "4.1.2a ?MEBH Using E-LAN";  
"4.1.3a ?MEBH Using E-Tree"; "4.1.4a ?MEBH ?Mixed Solutions";  
"4.1.5a ?Multiservice Area MEBH Architecture"; "4.1.6a ?L2CP Filtering"; "4.2a ?MEBH Transport"; "4.3a ?MEBH Service Protection"; "4.3.1a ?Protection Design"  
"4.3.2a ?SRG Analysis"; "4.4a ?MEBH Quality of Service"; "4.4.1a ?Bandwidth"; "4.4.2a ?Policing and Shaping"; "4.4.3a ?CoS Class Selection and Signaling"; "4.5a ?MEBH Service Performance"; "4.6a ?MEBH Service Verification"; "4.6.1a ?Monitoring Overlay"; "4.6.2a ?Monitoring Method"; "4.6.3a ?SOAM Support"; "4.7a ?MEBH Service ?Interconnectivity"; "Endnotes"; "5 MEBH Service: A Use Case"; "5.1a ?Use Case Assumptions"; "5.2a ?Use Case Requirements"; "5.3a ?Use Case EVC UNI Attribute Table"; "5.4a ?Conclusions and Final Thoughts"; "Endnote"

---

## Sommario/riassunto

"The backhaul portion of the network is comprised of intermediate links between the core network and the small sub-networks at the "edge" of the entire hierarchical network. This is a critical area because it is the side of the network that communicates with the global Internet. This practical resource serves as a comprehensive guide to designing mobile Ethernet backhauling (MEBH) services in metro areas using carrier Ethernet (CE) architecture. For the first time in any book, you find detailed advice on how to put together the many elements of the CE toolbox to create a coherent working design for a specific MEBH service. Like solving a difficult jigsaw puzzle, you learn how all the CE components and standards interact and gain knowledge of their interdependencies. You also gain insight into the tradeoffs and consequences associated with selection of specific components for a particular project."--

---