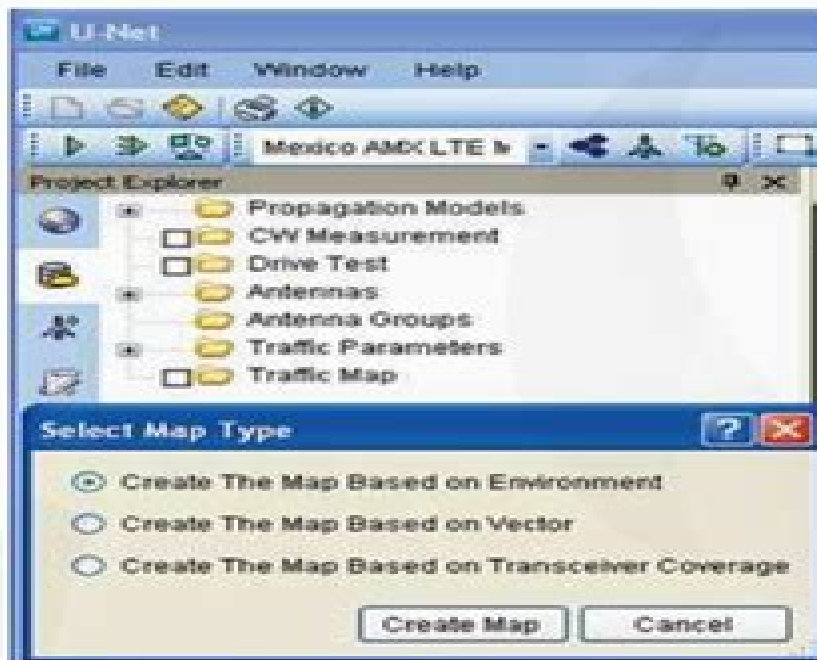


It provides a total of three types of traffic maps.



ta/Traffic Parameters/Traffic Map]

Parameter	Description
Based on Environments (Raster)	Indicates the traffic map based on environments.
Based on User Profiles (vectors)	Indicates the traffic map based on user profiles.
Based on Transceiver Coverage	Indicates the traffic map based on the coverage.

## Traffic Map

ta/Traffic Parameters/Traffic Map/New Map]

Map type and hit "Create Map"

## Environments (Raster)

Environment type (DU/U/SU/RU) as discussed in previous section for a particular Polygon chosen to create

# Lte Radio Access Network Planning Guide

**Srinivasan Balasubramanian**



## **Lte Radio Access Network Planning Guide:**

Practical Guide to LTE-A, VoLTE and IoT Ayman ElNashar, Mohamed A. El-saidny, 2018-08-27 Essential reference providing best practice of LTE A VoLTE and IoT Design deployment Performance and evolution towards 5G This book is a practical guide to the design deployment and performance of LTE A VoLTE IMS and IoT A comprehensive practical performance analysis for VoLTE is conducted based on field measurement results from live LTE networks Also it provides a comprehensive introduction to IoT and 5G evolutions Practical aspects and best practice of LTE A IMS VoLTE IoT are presented Practical aspects of LTE Advanced features are presented In addition LTE LTE A network capacity dimensioning and analysis are demonstrated based on live LTE LTE A networks KPIs A comprehensive foundation for 5G technologies is provided including massive MIMO eMBB URLLC mMTC NGCN and network slicing cloudification virtualization and SDN Practical Guide to LTE A VoLTE and IoT Paving the Way Towards 5G can be used as a practical comprehensive guide for best practices in LTE LTE A VoLTE IoT design deployment performance analysis and network architecture and dimensioning It offers tutorial introduction on LTE A IoT 5G networks enabling the reader to use this advanced book without the need to refer to more introductory texts Offers a complete overview of LTE and LTE A IMS VoLTE and IoT and 5G Introduces readers to IP Multimedia Subsystems IMS Performs a comprehensive evaluation of VoLTE CSFB Provides LTE LTE A network capacity and dimensioning Examines IoT and 5G evolutions towards a super connected world Introduce 3GPP NB IoT evolution for low power wide area LPWA network Provide a comprehensive introduction for 5G evolution including eMBB URLLC mMTC network slicing cloudification virtualization SDN and orchestration Practical Guide to LTE A VoLTE and IoT will appeal to all deployment and service engineers network designers and planning and optimization engineers working in mobile communications Also it is a practical guide for R D and standardization experts to evolve the LTE LTE A VoLTE and IoT towards 5G evolution

**Modeling the Power Consumption and Energy Efficiency of Telecommunications Networks** Kerry James Hinton, Robert Ayre, Jeffrey Cheong, 2021-10-28 This book introduces the technical foundations and tools for estimating the power consumption of internet networks and services including a detailed description of how these models are constructed and applied Modeling the Power Consumption and Energy Efficiency of Telecommunications Networks can be used to gain insight into the construction of mathematical models that provide realistic estimates of the power consumption of internet networks and services This knowledge enables forecasting the energy footprint of future networks and services to integrate sustainability and environmental considerations into network planning and design FEATURES Provides the motivation for developing mathematical models for telecommunications network and service power consumption and energy efficiency modeling Presents factors impacting overall network and service power consumption Discusses the types of network equipment and their power consumption profiles Reviews the basics of power modeling including network segmentation traffic forecasting top down and bottom up models wired and wireless networks data centers

and servers Explores the application of energy efficiency metrics for equipment networks and services This book is aimed at students and technologists as well as technology managers and policy makers This book will be of value to any organization that wishes to estimate the energy footprint of the use of information and communications technologies This book can also be integrated into a course on the sustainability of information and communications technologies Evolved Cellular Network Planning and Optimization for UMTS and LTE Lingyang Song,Jia Shen,2010-08-24 Most books on network planning and optimization provide limited coverage of either GSM or WCDMA techniques Few scrape the surface of HSPA and even fewer deal with TD SCDMA Filling this void Evolved Cellular Network Planning and Optimization for UMTS and LTE presents an accessible introduction to all stages of planning and optimizing UMTS HSPA Indoor Radio Planning Morten Tolstrup,2015-04-13 Why is high performance indoor wireless service needed and how is it best implemented As the challenge of providing better service and higher data speeds and quality for mobile applications intensifies ensuring adequate in building and tunnel coverage and capacity is increasingly important A unique single source reference on the theoretical and practical knowledge behind indoor and tunnel radio planning this book provides a detailed overview of mobile networks systems coverage and capacity solutions with 2G 3G and 4G cellular system technologies as a backdrop *Recent Trends in Data Science and Soft Computing* Faisal Saeed,Nadhmi Gazem,Fathey Mohammed,Abdelsalam Busalim,2018-09-08 This book presents the proceedings of the 3rd International Conference of Reliable Information and Communication Technology 2018 IRICT 2018 which was held in Kuala Lumpur Malaysia on July 23 24 2018 The main theme of the conference was Data Science AI and IoT Trends for the Fourth Industrial Revolution A total of 158 papers were submitted to the conference of which 103 were accepted and considered for publication in this book Several hot research topics are covered including Advances in Data Science and Big Data Analytics Artificial Intelligence and Soft Computing Business Intelligence Internet of Things IoT Technologies and Applications Intelligent Communication Systems Advances in Computer Vision Health Informatics Reliable Cloud Computing Environments Recent Trends in Knowledge Management Security Issues in the Cyber World and Advances in Information Systems Research Theories and Methods **A Network Architect's Guide to 5G** Syed Farrukh Hassan,Alexander Orel,Kashif Islam,2022-06-08 THE NETWORK PROFESSIONAL S GUIDE TO PLANNING DESIGNING AND DEPLOYING 5G TRANSPORT NETWORKS As 5G transforms mobile usage and services network professionals will need to significantly evolve their transport network architectures towards greater sophistication and stronger integration with radio networks and facilitate transition towards cloud native 5G mobile core Until now however most 5G guides have foregrounded RF radio and mobile core innovations not its implications for data networks A Network Architect s Guide to 5G fills the gap giving network architects designers and engineers essential knowledge for designing and planning their own 5G networks Drawing on decades of experience with global service providers and enterprise networks the authors illuminate new and evolving network technologies necessary for building 5G capable networks such as

segment routing network slicing timing and synchronization edge computing distributed data centers integration with public cloud and more They explain how 5G blurs boundaries between mobile core radio access and transport as well as the changes in the composition of a traditional cell site with the adoption of Open and Virtualized RAN resulting in a transition to mobile xHaul Every chapter builds on earlier coverage culminating in a big picture presentation of a complete 5G network design Understand the evolution of mobile technologies over the generation leading to 5G s foundational concepts and principles Explore 5G changes to Radio Access Networks RAN the Mobile Core Mobile Transport and the need for tighter integration between them Use Segment Routing to architect simplified SDN capable networks and enable network slicing for 5G Rethink transport design to incorporate Far Edge Edge and public cloud based data centers augmenting centralized DCs to support distributed peering and Multi access Edge Compute Provide guidance to meet the criteria and requirements for various aspects of Fronthaul Midhaul and Backhaul architecture such as transport protocol evaluation latency consideration routing design QoS modeling network device selection and more Forge a cohesive 5G network architecture by combining mobile communications principles with advanced transport technologies

Self-Organizing Networks Juan Ramiro,Khalid Hamied,2011-10-27 With the current explosion in network traffic and mounting pressure on operators business case Self Organizing Networks SON play a crucial role They are conceived to minimize human intervention in engineering processes and at the same time improve system performance to maximize Return on Investment ROI and secure customer loyalty Written by leading experts in the planning and optimization of Multi Technology and Multi Vendor wireless networks this book describes the architecture of Multi Technology SON for GSM UMTS and LTE along with the enabling technologies for SON planning optimization and healing This is presented mainly from a technology point of view but also covers some critical business aspects such as the ROI of the proposed SON functionalities and Use Cases Key features Follows a truly Multi Technology approach covering not only LTE but also GSM and UMTS including architectural considerations of deploying SON in today s GSM and UMTS networks Features detailed discussions about the relevant trade offs in each Use Case Includes field results of today s GSM and UMTS SON implementations in live networks Addresses the calculation of ROI for Multi Technology SON contributing to a more complete and strategic view of the SON paradigm This book will appeal to network planners optimization engineers technical strategy managers with operators and R D system engineers at infrastructure and software vendors It will also be a useful resource for postgraduate students and researchers in automated wireless network planning and optimization

**LTE, WiMAX and WLAN Network Design, Optimization and Performance Analysis** Leonhard Korowajczuk,2011-11-22 A technological overview of LTE and WiMAX LTE WiMAX and WLAN Network Design Optimization and Performance Analysis provides a practical guide to LTE and WiMAX technologies introducing various tools and concepts used within In addition topics such as traffic modelling of IP centric networks RF propagation fading mobility and indoor coverage are explored new techniques which increase throughput such as MIMO and

AAS technology are highlighted and simulation network design and performance analysis are also examined Finally in the latter part of the book Korowajczuk gives a step by step guide to network design providing readers with the capability to build reliable and robust data networks By focusing on LTE and WiMAX this book extends current network planning approaches to next generation wireless systems based on OFDMA providing an essential resource for engineers and operators of fixed and wireless broadband data access networks With information presented in a sequential format LTE WiMAX and WLAN Network Design Optimization and Performance Analysis aids a progressive development of knowledge complementing latter graduate and postgraduate courses while also providing a valuable resource to network designers equipment vendors reference material operators consultants and regulators Key Features One of the first books to comprehensively explain and evaluate LTE Provides an unique explanation of the basic concepts involved in wireless broadband technologies and their applications in LTE WiMAX and WLAN before progressing to the network design Demonstrates the application of network planning for LTE and WiMAX with theoretical and practical approaches Includes all aspects of system design and optimization such as dynamic traffic simulations multi layered traffic analysis statistical interference analysis and performance estimations *The LTE-Advanced Deployment Handbook* Jyrki T. J. Penttinen,2015-11-30 LTE Advanced is the new Global standard which is expected to create a foundation for the future wireless broadband services The standard incorporates all the latest technologies recently developed in the field of wireless communications Presented in a modular style the book provides an introductory description for beginners as well as practical guidelines for telecom specialists It contains an introductory module that is suitable for the initial studies of the technology based on the 3GPP Release 10 11 and beyond of LTE and SAE The latter part of the book is suitable for experienced professionals who will benefit from the practical descriptions of the physical core and radio network planning end to end performance measurements physical network construction and optimization of the system The focus of the book is in the functioning planning construction measurements and optimization of the radio and core networks of the Release 10 and beyond of the 3GPP LTE and SAE standards It looks at the practical description of the Advanced version of the LTE SAE how to demystify the LTE Advanced functionality and planning and how to carry out practical measurements of the system In general the book describes how to do it for the 4G system which is compliant with the ITU R requirements Monitoring and Analysis of 4G Mobile Networks: A Practical Guide for Telecommunications Engineering Training Baldomero Coll-Perales,Alejandro Molina-Galan, Javier Gozalvez Sempere,Miguel Sepulcre Ribes,2021-06-15 Communications Engineering Desk Reference Erik Dahlman,Ed da Silva,Luis M. Correia,Philip A Chou,Mihaela van der Schaar,Ronald Kitchen,Daniel M. Dobkin,Dan Bensky,Juanita Ellis,Charles Pursell,Joy Rahman,Stefan Parkvall,Leonidas Guibas,Feng Zhao,Johan Skold,Per Beming,Alan C. Bovik,Bruce A. Fette,Keith Jack,Farid Dowla,Casimer DeCusatis,2009-03-02 A one stop desk reference for R D engineers involved in communications engineering this book will not gather dust on the shelf It brings

together the essential professional reference content from leading international contributors in the field Material covers a wide scope of topics including voice computer facsimile video and multimedia data technologies A hard working desk reference providing all the essential material needed by communications engineers on a day to day basis Fundamentals key techniques engineering best practice and rules of thumb together in one quick reference sourcebook Definitive content by the leading authors in the field

5G Enabled Secure Wireless Networks Dushantha Nalin K. Jayakody, Kathiravan Srinivasan, Vishal Sharma, 2019-02-05 This book covers issues related to 5G network security The authors start by providing details on network architecture and key requirements They then outline the issues concerning security policies and various solutions that can handle these policies Use of SDN NFV technologies for security enhancement is also covered The book includes intelligent solutions by utilizing the features of artificial intelligence and machine learning to improve the performance of the 5G security protocols and models Optimization of security models is covered as a separate section with a detailed information on the security of 5G based edge fog and osmotic computing This book provides detailed guidance and reference material for academicians professionals and researchers Presents extensive information and data on research and challenges in 5G networks Covers basic architectures models security frameworks and software defined solutions for security issues in 5G networks Provides solutions that can help in the growth of new startups as well as research directions concerning the future of 5G networks

*System-Level Design Methodologies for Telecommunication* Nicolas Sklavos, Michael Hübner, Diana Goehringer, Paris Kitsos, 2013-09-13 This book provides a comprehensive overview of modern networks design from specifications and modeling to implementations and test procedures including the design and implementation of modern networks on chip in both wireless and mobile applications Topical coverage includes algorithms and methodologies telecommunications hardware including networks on chip security and privacy wireless and mobile networks and a variety of modern applications such as VoLTE and the internet of things

**Handbook of Communications Security** F. Garzia, 2013 Communications represent a strategic sector for privacy protection and for personal company national and international security The interception damage or lost of information during communication can generate material and non material economic damages from both a personal and collective point of view The purpose of this book is to give the reader information relating to all aspects of communications security beginning at the base ideas and building to reach the most advanced and updated concepts The book will be of interest to integrated system designers telecommunication designers system engineers system analysts security managers technicians intelligence personnel security personnel police army private investigators scientists graduate and postgraduate students and anyone that needs to communicate in a secure way

Fundamentals of Network Planning and Optimisation 2G/3G/4G Ajay R. Mishra, 2018-11-05 Updated new edition covering all aspects of network planning and optimization This welcome new edition provides comprehensive coverage of all aspects of network planning in all the technologies from 2G to 5G in radio transmission and

core aspects Written by leading experts in the field it serves as a handbook for anyone engaged in the study design deployment and business of cellular networks It increases basic understanding of the currently deployed and emerging technologies and helps to make evolution plans for future networks The book also provides an overview of the forthcoming technologies that are expected to make an impact in the future such as 5G Fundamentals of Cellular Network Planning and Optimization Second Edition encompasses all the technologies as well as the planning and implementation details that go with them It covers 2G GSM EGPRS 3G WCDMA and 4G LTE networks and introduces 5G The book also looks at all the sub systems of the network focusing on both the practical and theoretical issues Provides comprehensive coverage of the planning aspects of the full range of today s mobile network systems covering radio access network circuit and packet switching signaling control and backhaul Core transmission networks New elements in book include HSPA Ethernet 4G LTE and 5G Covers areas such as Virtualization IoT Artificial Intelligence Spectrum Management and Cloud By bringing all these concepts under one cover Fundamentals of Cellular Network Planning and Optimization becomes essential reading for network design engineers working with cellular service vendors or operators experts scientists working on end to end issues and undergraduate post graduate students

**Comprehensive Guide to Heterogeneous Networks** Kiran Ahuja, Anand Nayyar, Kavita Sharma, 2022-09-20 Comprehensive Guide to Heterogeneous Networks discusses the fundamental motivations behind this cutting edge development along with a brief discussion on the diverse definitions of HNs The future of heterogeneous wireless networks HWNs is covered including test cases cost configuration economic benefits and basic challenges Other sections cover the topology management method in context of heterogeneous sensor nodes with diverse communication and sensing range In addition an outline of the pros and cons of the clustering criteria in HWSNs and taxonomy are summarized and provide futuristic research directions Final sections discuss the future evolution of HNs and their implementations in diverse applications This is an essential reference book for advanced students on courses in wireless communications clinical engineering and networking It will also be of interest to researchers network planners technical managers and other professionals in these fields Discusses the most important problems challenges and issues which arise when designing real time heterogeneous networks for diverse scenarios Represents the unique features of heterogeneous sensor networks giving the end user a better understanding of the environment Provides an overview of real time performance issues in heterogeneous networks specifically multi tasking multi level scheduling localization and security issues Includes applications of heterogeneous networks in diverse fields and focuses on the convergence of heterogeneous wireless networks for 5G

*Cellular Communications* Nishith Tripathi, Jeffrey H. Reed, 2014-09-12 Even as newer cellular technologies and standards emerge many of the fundamental principles and the components of the cellular network remain the same Presenting a simple yet comprehensive view of cellular communications technologies Cellular Communications provides an end to end perspective of cellular operations ranging from physical layer details to call set up and from the radio



network to the core network This self contained source for practitioners and students represents a comprehensive survey of the fundamentals of cellular communications and the landscape of commercially deployed 2G and 3G technologies and provides a glimpse of emerging 4G technologies

**The Technology and Business of Mobile Communications** Mythri Hunukumbure,Justin P. Coon,Ben Allen,Tony Vernon,2021-12-03 An intuitive and insightful overview of the technical and business aspects of the telecoms industry In *The Technology and Business of Mobile Telecommunications An Introduction* a team of expert telecommunications researchers and consultants delivers a rigorous exploration of the technical and business aspects of mobile telecommunications The book offers a complete overview of an industry that has seen rapid technical and economic changes while retaining the ability to provide end users with communications coverage and capacity The authors demonstrate the technical foundations of the mobile industry and show how a communications network is deployed They detail many of the main innovations introduced over the last few years and some of the most salient challenges facing the industry today The business models of major mobile operators are examined as well from the purchasing spectrum to network deployment and customer attraction and retention The role of the regulator is also thoroughly discussed with explorations of its role in encouraging the maintenance of a competitive market in which the needs of consumers are met Readers will also enjoy Thorough introductions to the social and economic impacts of mobile communications as well as a brief history of mobile and cellular communications Comprehensive explorations of the mobile telecoms ecosystem from spectrum regulation to standardization research end users operators vendors and standard bodies Practical discussions of the business models and challenges of mobile operators including mobile virtual network operators and the implementation of international roaming In depth examinations of telecommunications standards including 5G Perfect for anyone studying mobile telecommunications technology at the undergraduate and graduate levels *The Technology and Business of Mobile Telecommunications An Introduction* is also an indispensable resource for practitioners within the telecommunications industry in a technical or business oriented role

*Cognitive Radio and Interference Management: Technology and Strategy* Ku, Meng-Lin,Lin, Jia-Chin,2012-08-31 Broadcast spectrum is scarce both in terms of our ability to access existing spectrum and as a result of access rules created by governments An emerging paradigm called cognitive radio however has the potential to allow different systems to dynamically access and opportunistically exploit the same frequency band in an efficient way thereby allowing broadcasters to use spectrum more efficiently *Cognitive Radio and Interference Management Technology and Strategy* brings together state of the art research results on cognitive radio and interference management from both theoretical and practical perspectives It serves as a bridge between people who are working to develop theoretical and practical research in cognitive radio and interference management and therefore facilitate the future development of cognitive radio and its applications

**Mobile Communication Systems for Private Networks** Srinivasan Balasubramanian,2025-01-22 Understand the role of network communications in the private sector with this timely guide 4G

and 5G wireless communication technologies have come to dominate network communications in recent years and their expansion is only continuing. Most existing treatments of this key subject however deal with large scale public networks not the private networks whose deployment constitutes one of the major current growth areas in wireless technology. There is an urgent need for a guide to network communication deployment specifically for private enterprises. Mobile Communication Systems for Private Networks meets this need with a cutting edge but accessible overview of the subject. Alerting to the specific needs of the private enterprise network and the disruption potential of cellular network operations it surveys the early lessons of the global private network rollout for the benefit of future operations. With an eye towards future challenges and developments this essential text is suitable for professionals in the network communications industry and its partners. Readers will also find the background required to design, deploy and manage enterprise private networks driven by 4G and 5G technologies. Detailed discussion of topics including fundamentals of 4G/5G standards bodies and their role in defining specifications for private networks, layer 3 concepts, IP connectivity and many more. Solutions to the urgent need for ubiquitous 5G connectivity both indoor and outdoor. Mobile Communication Systems for Private Networks is an ideal reference for end user devices, network operators, chip manufacturers, researchers and all other professionals and stakeholders with roles in the information and operational technology industries.

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