
Volte Handover With Srvcc

5G

Mobile Communications Systems Development

LTE Security

HSPA+ Evolution to Release 12

LTE Security

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Voice over LTE

An Introduction to LTE

From GSM to LTE-Advanced Pro and 5G

SAE and the Evolved Packet Core

LTE Optimization Engineering Handbook

EPC and 4G Packet Networks

Design, Deployment and Performance of 4G-LTE Networks

Diameter

Design, Deployment and Performance of 4G-LTE Networks

LTE and the Evolution to 4G Wireless

Unleashing VoLTE capabilities. Assessing the Migration from CS Voice to IMS-based Voice over LTE (VoLTE)

The LTE-Advanced Deployment Handbook

Introduction to Communication Networks

LTE-Advanced

Forensic Radio Survey Techniques for Cell Site Analysis

5G Mobile Communications

System-Level Design Methodologies for
Telecommunication
LTE Small Cell Optimization
Converged Communications
Grundkurs Mobile Kommunikationssysteme
VoLTE and ViLTE
LTE Signaling
IMS Application Developer's Handbook
The LTE / SAE Deployment Handbook
VoLTE and ViLTE
Voice over LTE
EPC and 4G Packet Networks
Voice over LTE
5G Second Phase Explained
Mobile Terminal Receiver Design
Radio Protocols for LTE and LTE-Advanced
5G NR and Enhancements
Practical Guide to LTE-A, VoLTE and IoT
5G for the Connected World

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CALI PAUL

5G John Wiley & Sons
Essential reference
providing best practice
of LTE-A, VoLTE, and
IoT
Design/deployment/Per
formance 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.

Mobile

Communications

Systems Development

John Wiley & Sons

This book provides a

clear, concise, complete and authoritative introduction to System Architecture Evolution (SAE) standardization work and its main outcome: the Evolved Packet Core (EPC), including potential services and operational scenarios. After providing an insightful overview of SAE's historical development, the book gives detailed explanations of the EPC architecture and key concepts as an introduction. In-depth technical descriptions of EPC follow, including thorough functional accounts of the different components of EPC, protocols, network entities and procedures. Case studies of deployment scenarios show how the functions described

within EPC are placed within a live network context, while a description of the services that are predicted to be used shows what EPC as a core network can enable. This book is an essential resource for professionals and students who need to understand the latest developments in SAE and EPC, the 'engine' that connects broadband access to the internet. All of the authors have from their positions with Ericsson been actively involved in GPRS, SAE and 3GPP from a business and technical perspective for many years. Several of the authors have also been actively driving the standardization efforts within 3GPP. "There is no doubt that this book, which appears

just when the mobile industry starts its transition away from legacy GSM/GPRS and UMTS networks into the future will become the reference work on SAE/LTE. There are no better qualified persons than the authors of this book to provide both communication professionals and an interested general public with insights into the inner workings of SAE/LTE. Not only are they associated with one of the largest mobile network equipment vendors in the world, they have all actively contributed to and, in some cases, been the driving forces behind the development of SAE/LTE within 3GPP." - from the foreword by Dr. Ulf Nilsson, TeliaSonera R&D,

Mobility Core and Connectivity "The authors have done an excellent job in writing this book. Their familiarity with the requirements, concepts and solution alternatives, as well as the standardization work allows them to present the material in a way that provides easy communication between Architecture and Standards groups and Planning/Operational groups within service provider organizations." - from the foreword by Dr. Kalyani Bogineni, Principal Architect, Verizon Up-to-date coverage of SAE including the latest standards development Easily accessible overview of the architecture and concepts defined by SAE Thorough

description of the Evolved Packet Core for LTE, fixed and other wireless accesses Comprehensive explanation of SAE key concepts, security and Quality-of-Service Covers potential service and operator scenarios including interworking with existing 3GPP and 3GPP2 systems Detailed walkthrough of network entities, protocols and procedures Written by established experts in the SAE standardization process, all of whom have extensive experience and understanding of its goals, history and vision *LTE Security* John Wiley & Sons Voice over LTE (Long Term Evolution) presents the

mechanisms put in place in 4G mobile networks for the transportation of IP packets containing voice data and telephone signaling, as well as the technologies used to provide a telephone service in the IMS (IP Multimedia Sub-system) network. Despite the difficulty connected to the handover of the 4G network to the 2G/3G network, a telephone communication will not be established on the 4G network. This book analyzes the technologies that have been put in place, such as CSFB (Circuit Service FallBack), an interim solution that enables a mobile connected to the 4G network to receive an alert transmitted by the 2G/3G network.

The book also goes on to develop the SIP (Session Information Protocol) on which the telephone signaling transferred by the 4G network is based, the IMS network that provides the service and defines the routing, the SRVCC (Single Radio Voice Call Continuity) mechanism that maintains communication and the TAS (Telephony Application Server) that supplies supplementary services. Contents 1. The EPS Network. 2. The LTE Interface. 3. The CSFB Function. 4. SIP and SDP Protocols. 5. The IMS Network. 6. Telephone Services. 7. The SRVCC Function. About the Authors André Perez is a consultant and teacher in networks and telecommunications.

He works with industrialists and operators regarding architecture studies and leads training on the 4G and IMS networks for NEXCOM. *HSPA+ Evolution to Release 12* John Wiley & Sons

Provides a unique focus on radio protocols for LTE and LTE-Advanced (LTE-A) Giving readers a valuable understanding of LTE radio protocols, this book covers LTE (Long-Term Evolution) Layer 2/3 radio protocols as well as new features including LTE-Advanced. It is divided into two sections to differentiate between the two technologies' characteristics. The authors systematically explain the design principles and functions of LTE radio

protocols during the development of mobile handsets. The book also provides essential knowledge on the interaction between mobile networks and mobile handsets. Among the first publications based on the 3GPP R10 specifications, which introduces LTE-A Beginning with an overview of LTE, topics covered include: Idle Mode Procedure; Packet Data Convergence Protocol and Public Warning Systems Presents the LTE radio interface protocol layers in a readable manner, to enhance the material in the standards publications From an expert author team who have been directly working on the 3GPP standards It is targeted at professionals

working or intending to work in the area and can also serve as supplementary reading material for students who need to know how theory on the most extensively used mobile radio interface today is put into practice

LTE Security John Wiley & Sons
5G NR and Enhancements: From R15 to R16 introduces 5G standards, along with the 5G standardization procedure. The pros and cons of this technical option are reviewed, with the reason why the solution selected explained. The book's authors are 3GPP delegates who have been working on 4G/5G standardization for over 10 years. Their experience with the 5G

standardization process will help readers understand the technology. Thousands of 3GPP papers and dozens of meeting minutes are also included to help explain how the 5G stand came into form. Provides a complete introduction to 5G standards, including Release 15 and 16, the essential vertical features URLLC, V2X and unlicensed spectrum access Introduces the 5G standardization procedure, along with the pros, cons and technical options Explains the “balance system design principle from the 5G standardization procedure Presents a vision of 5G R17 and 6G

Mobile and Wireless Technologies 2016

John Wiley & Sons
 Following on from the successful first edition (March 2012), this book gives a clear explanation of what LTE does and how it works. The content is expressed at a systems level, offering readers the opportunity to grasp the key factors that make LTE the hot topic amongst vendors and operators across the globe. The book assumes no more than a basic knowledge of mobile telecommunication systems, and the reader is not expected to have any previous knowledge of the complex mathematical operations that underpin LTE. This second edition introduces new material for the current state of the industry, such as the new

features of LTE in Releases 11 and 12, notably coordinated multipoint transmission and proximity services; the main short- and long-term solutions for LTE voice calls, namely circuit switched fallback and the IP multimedia subsystem; and the evolution and current state of the LTE market. It also extends some of the material from the first edition, such as inter-operation with other technologies such as GSM, UMTS, wireless local area networks and cdma2000; additional features of LTE Advanced, notably heterogeneous networks and traffic offloading; data transport in the evolved packet core; coverage and capacity estimation for LTE; and a more rigorous

treatment of modulation, demodulation and OFDMA. The author breaks down the system into logical blocks, by initially introducing the architecture of LTE, explaining the techniques used for radio transmission and reception and the overall operation of the system, and concluding with more specialized topics such as LTE voice calls and the later releases of the specifications. This methodical approach enables readers to move on to tackle the specifications and the more advanced texts with confidence.

Voice over LTE John Wiley & Sons

This book will help readers comprehend technical and policy elements of

telecommunication particularly in the context of 5G. It first presents an overview of the current research and standardization practices and lays down the global frequency spectrum allocation process. It further lists solutions to accommodate 5G spectrum requirements. The readers will find a considerable amount of information on 4G (LTE-Advanced), LTE-Advance Pro, 5G NR (New Radio); transport network technologies, 5G NGC (Next Generation Core), OSS (Operations Support Systems), network deployment and end-to-end 5G network architecture. Some details on multiple network elements (end products) such as 5G base station/small cells

and the role of semiconductors in telecommunication are also provided. Keeping trends in mind, service delivery mechanisms along with state-of-the-art services such as MFS (mobile financial services), mHealth (mobile health) and IoT (Internet-of-Things) are covered at length. At the end, telecom sector's burning challenges and best practices are explained which may be looked into for today's and tomorrow's networks. The book concludes with certain high level suggestions for the growth of telecommunication, particularly on the importance of basic research, departure from ten-year evolution cycle and having a 20-30 year plan. Explains the

conceivable six phases of mobile telecommunication's ecosystem that includes R&D, standardization, product/network/device & application development, and burning challenges and best practices Provides an overview of research and standardization on 5G Discusses solutions to address 5G spectrum requirements while describing the global frequency spectrum allocation process Presents various case studies and policies Provides details on multiple network elements and the role of semiconductors in telecommunication Presents service delivery mechanisms with special focus on IoT

An Introduction to

LTE Elsevier

This new book is an introduction to modern communications networks that now rely far less on telephone services and more on cellular and IP networks. The resource is designed to provide answers to the fundamental questions concerning telecommunications networks and services. This includes the structure and main components of a modern telecommunications network; the importance of standardization; and how cellular mobile networks operate; among many others. In addition, you are provided with problems and review questions to work through and help you master the material.

From GSM to LTE-Advanced Pro and 5G GRIN Verlag

A concise, updated guide to the 3GPP LTE Security Standardization specifications A welcome Revised Edition of the successful LTE Security addressing the security architecture for SAE/LTE, which is based on elements of the security architectures for GSM and 3G, but which needed a major redesign due to the significantly increased complexity, and different architectural and business requirements of fourth generation systems. The authors explain in detail the security mechanisms employed to meet these requirements. The specifications

generated by standardization bodies only inform about how to implement the system (and this only to the extent required for interoperability), but almost never inform readers about why things are done the way they are. Furthermore, specifications tend to be readable only for a small group of experts and lack the context of the broader picture. The book fills this gap by providing first hand information from insiders who participated in decisively shaping SAE/LTE security in the relevant standardization body, 3GPP, and can therefore explain the rationale for design decisions in this area. A concise, fully updated guide to the

3GPP LTE Security Standardization specifications Describes the essential elements of LTE and SAE Security, written by leading experts who participated in decisively shaping SAE/LTE security in the relevant standardization body, 3GPP Explains the rationale behind the standards specifications giving readers a broader understanding of the context to these specifications Includes new chapters covering 3GPP work on system enhancements for MTC, plus application layer security in ETSI TC M2M and embedded smart card in ETSI SCP; Security for Machine-type Communication, Relay Node Security, and Future Challenges, including Voice over

LTE, MTC, Home base stations, LIPA/SIPTO, and New Cryptographic Algorithms Essential reading for System engineers, developers and people in technical sales working in the area of LTE and LTE security, communication engineers and software developers in mobile communication field. *SAE and the Evolved Packet Core* John Wiley & Sons
Offers detailed insight into the Evolved Packet Core (EPC) that covers the standards and industry developments. This book describes and explains the entire EPC including architecture, features and protocols, giving you the knowledge and insight to see the potential in EPC, develop EPC products and deploy LTE/EPC

mobile broadband Networks.

LTE Optimization Engineering Handbook John Wiley & Sons

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.

EPC and 4G Packet Networks John Wiley & Sons

5G SECOND PHASE EXPLAINED A one-stop reference that offers an accessible guide to an understanding of the enhanced core technologies of 5G 5G Second Phase Explained - The 3GPP Release 16 Enhancements offers an authoritative and essential guide to the new functionalities of the Release 16 that complement the first phase of the 5G. From the author of 5G Explained comes the next step resource that includes detailed descriptions that provide a clear understanding to the full version of the 5G technologies and their impacts on the Phase 1 networks. The author—an industry

expert—not only reviews the most up-to-date functionalities of the Release 16 but includes information on the forthcoming Release 17 as well as material on future developments. The book explores the highly unique aspects of the Release 16, which can help technical personnel's efforts to deliver essential information in a practical way. The two books, 5G Explained and 5G Second Phase Explained, offer a comprehensive understanding of 5G. This important guide: Offers a summary of the newest and key features of 5G Presents a one-stop reference for an understanding of the core technologies of 5G Contains a new book that expands on

the author's 5G Explained Puts the focus on security and deployment aspects of 5G enhancements Written for technical personnel of network operators, network element and user device manufacturers, 5G Second Phase Explained offers a guide to an understanding of network deployment and device designing of 5G technologies. Design, Deployment and Performance of 4G-LTE Networks John Wiley & Sons Comprehensive Handbook Demystifies 5G for Technical and Business Professionals in Mobile Telecommunication Fields Much is being said regarding the possibilities and capabilities of the emerging 5G

technology, as the evolution towards 5G promises to transform entire industries and many aspects of our society. 5G for the Connected World offers a comprehensive technical overview that telecommunication professionals need to understand and take advantage of these developments. The book offers a wide-ranging coverage of the technical aspects of 5G (with special consideration of the 3GPP Release 15 content), how it enables new services and how it differs from LTE. This includes information on potential use cases, aspects of radio and core networks, spectrum considerations and the services primarily driving 5G

development and deployment. The text also looks at 5G in relation to the Internet of Things, machine to machine communication and technical enablers such as LTE-M, NB-IoT and EC-GSM. Additional chapters discuss new business models for telecommunication service providers and vertical industries as a result of introducing 5G and strategies for staying ahead of the curve. Other topics include: Key features of the new 5G radio such as descriptions of new waveforms, massive MIMO and beamforming technologies as well as spectrum considerations for 5G radio regarding all possible bands Drivers, motivations and overview of the new 5G

system – especially RAN architecture and technology enablers (e.g. service-based architecture, compute-storage split and network exposure) for native cloud deployments Mobile edge computing, Non-3GPP access, Fixed-Mobile Convergence Detailed overview of mobility management, session management and Quality of Service frameworks 5G security vision and architecture Ultra-low latency and high reliability use cases and enablers, challenges and requirements (e.g. remote control, industrial automation, public safety and V2X communication) An outline of the requirements and challenges imposed by

massive numbers of devices connected to cellular networks. While some familiarity with the basics of 3GPP networks is helpful, 5G for the Connected World is intended for a variety of readers. It will prove a useful guide for telecommunication professionals, standardization experts, network operators, application developers and business analysts (or students working in these fields) as well as infrastructure and device vendors looking to develop and integrate 5G into their products, and to deploy 5G radio and core networks.

Diameter John Wiley & Sons

FORENSIC RADIO
SURVEY TECHNIQUES
FOR CELL SITE

ANALYSIS Overview of the end-to-end process of planning, undertaking, and reporting of forensic radio surveying to support cell site analysis. The newly updated and revised Second Edition of Forensic Radio Survey Techniques for Cell Site Analysis provides an overview of the end-to-end process of planning, undertaking, and reporting of forensic radio surveying to support the forensic discipline of cell site analysis. It starts by recapping and explaining, in an accessible way, the theory, structure, and operation of cellular communications networks, then moves on to describe the techniques and devices employed to undertake forensic radio surveys.

Worked examples are used throughout to demonstrate the practical steps required to plan and undertake forensic radio surveys, including the methods used to analyze radio survey data and compile it into a court report. A summary section condenses the technical and practical elements of the book into a handy reference resource for busy practitioners. The Second Edition contains 25% brand new material covering 5G New Radio networks and '6G and beyond,' critical communications, mobile satellite communications, IoT networks, Cell Site Analysis Tools, and much more. Other sample topics covered in Forensic Radio Survey Techniques for

Cell Site Analysis include: Radio theory, covering RF propagation, basic terminology, propagation modes, multipath transmission, and carrying information on a radio signal Core networks, including 2G, 3G, 4G, and 5G, subscriber and device identifiers, and international and temporary mobile subscriber identities Cell access control, covering cell barring, forbidden LAC/TAC, location updating, inter- and intra-carrier handovers, and 3GPP network types Forensic radio surveys objectives, terminology, and types, along with location, static spot, and indoor surveys The Second Edition of Forensic Radio Survey Techniques for Cell Site

Analysis is an essential reference on the subject for police analysts, practitioners, technicians, investigators, and cell site experts, along with legal professionals and students/trainees in digital forensics.

Design, Deployment and Performance of 4G-LTE Networks

Academic Press

This book provides an insight into the key practical aspects and best practice of 4G-LTE network design, performance, and deployment. Design, Deployment and Performance of 4G-LTE Networks addresses the key practical aspects and best practice of 4G networks design, performance, and deployment. In addition, the book focuses on the end-to-

end aspects of the LTE network architecture and different deployment scenarios of commercial LTE networks. It describes the air interface of LTE focusing on the access stratum protocol layers: PDCP, RLC, MAC, and Physical Layer. The air interface described in this book covers the concepts of LTE frame structure, downlink and uplink scheduling, and detailed illustrations of the data flow across the protocol layers. It describes the details of the optimization process including performance measurements and troubleshooting mechanisms in addition to demonstrating common issues and case studies based on actual field results. The

book provides detailed performance analysis of key features/enhancements such as C-DRX for Smartphones battery saving, CSFB solution to support voice calls with LTE, and MIMO techniques. The book presents analysis of LTE coverage and link budgets alongside a detailed comparative analysis with HSPA+. Practical link budget examples are provided for data and VoLTE scenarios.

Furthermore, the reader is provided with a detailed explanation of capacity dimensioning of the LTE systems. The LTE capacity analysis in this book is presented in a comparative manner with reference to the HSPA+ network to benchmark the LTE network capacity. The

book describes the voice options for LTE including VoIP protocol stack, IMS Single Radio Voice Call Continuity (SRVCC). In addition, key VoLTE features are presented: Semi-persistent scheduling (SPS), TTI bundling, Quality of Service (QoS), VoIP with C-DRX, Robust Header Compression (RoHC), and VoLTE Vocoders and De-Jitter buffer. The book describes several LTE and LTE-A advanced features in the evolution from Release 8 to 10 including SON, eICIC, CA, CoMP, HetNet, Enhanced MIMO, Relays, and LBS. This book can be used as a reference for best practices in LTE networks design and deployment, performance analysis, and evolution strategy.

Conveys the theoretical background of 4G-LTE networks
 Presents key aspects and best practice of 4G-LTE networks design and deployment
 Includes a realistic roadmap for evolution of deployed 3G/4G networks
 Addresses the practical aspects for designing and deploying commercial LTE networks. Analyzes LTE coverage and link budgets, including a detailed comparative analysis with HSPA+. References the best practices in LTE networks design and deployment, performance analysis, and evolution strategy
 Covers infrastructure-sharing scenarios for CAPEX and OPEX saving. Provides key practical aspects for supporting voice services over LTE,

Written for all 4G engineers/designers working in networks design for operators, network deployment engineers, R&D engineers, telecom consulting firms, measurement/performance tools firms, deployment subcontractors, senior undergraduate students and graduate students interested in understanding the practical aspects of 4G-LTE networks as part of their classes, research, or projects.

LTE and the Evolution to 4G

Wireless John Wiley & Sons

A comparative introduction to major global wireless standards, technologies and their applications From GSM to LTE-Advanced Pro and 5G: An

Introduction to Mobile Networks and Mobile Broadband, 3rd Edition provides technical descriptions of the various wireless technologies currently in use. It explains the rationales behind their differing mechanisms and implementations while exploring the advantages and limitations of each technology. This edition has been fully updated and substantially expanded to reflect the significant evolution in mobile network technology occurring over the past several years. The chapter on LTE has been extensively enhanced with new coverage of current implementations of LTE carrier aggregation, mobility management, cell reselection and

handover procedures, as well as the latest developments in 5G radio and core networks in 3GPP. It now features additional information on the TD-LTE air interface, IPv6 in mobile networks, Network Function Virtualization (NFV) and Narrowband Internet of Things (NB-IOT). Voice-over-LTE (VoLTE) is now treated extensively in a separate chapter featuring coverage of the VoLTE call establishment process, dedicated bearer setup, header compression, speech codec and bandwidth negotiation, supplementary service configuration and VoLTE emergency calls. In addition, extensive coverage of Voice-over-Wifi and mission critical

communication for public safety organizations over LTE has been added. The WLAN chapter now provides coverage of WPA2-Professional with certificates for authentication in large deployments, such as the global Eduroam network and the new WLAN 60 GHz air interface. Bluetooth evolution has been addressed by including a detailed description of Bluetooth Low Energy (BLE) in the chapter devoted to Bluetooth. Describes the different systems based on the standards, their practical implementation and design assumptions, and the performance and capacity of each system in practice is analyzed and explained Questions at

the end of each chapter and answers on the accompanying website make this book ideal for self-study or as course material. Unleashing VoLTE capabilities. Assessing the Migration from CS Voice to IMS-based Voice over LTE (VoLTE) John Wiley & Sons IMS Application Developer's Handbook gives a hands-on view of exactly what needs to be done by IMS application developers to develop an application and take it "live" on an operator's network. It offers practical guidance on building innovative applications using the features and capabilities of the IMS network, and shows how the rapidly changing development environment is impacting on the

business models employed in the industry and how existing network solutions can be moved towards IMS. Elaborating on how IMS applies basic VoIP principles and techniques to realize a true multi-access, and multimedia network, this book ensures that developers know how to use IMS most effectively for applications. Written by established experts in the IMS core network and IMS service layer, with roots in ISDN and GSM, with experience from working at Ericsson, who have been active in standardisation and technology development and who have been involved in many customer projects for the implementation of

fixed mobile converged IMS network and service. The authors of this book bring their in-depth and extensive knowledge in the organizations involved in the IMS standardization and its architecture. Clear, concise and comprehensive view of the IMS and Rich Communication Suite (RCS) for developers. Written by established experts in the IMS services layer, who have been involved in many customer projects for the implementation of fixed mobile converged IMS network and service. Covers potential service and operator scenarios for the IMS architecture; it is significantly more than merely a description of the IMS standards

The LTE-Advanced Deployment

Handbook Springer-Verlag

Describes the technological solutions and standards which will enable the migration of voice and SMS services over to LTE/EPC networks. Main drivers for the introduction of Long Term Evolution of UTRAN (LTE) is to provide far better end user experience for mobile broadband services. However, service providers also need to have a clear strategy of how to offer voice and messaging services for consumers and enterprises. The voice service over LTE is becoming increasingly important when the smartphone penetration is increasing rapidly. Smartphones require

both good quality voice and high speed broadband data. This book provides the exhaustive view to industry-approved technologies and standards behind the Voice over LTE (VoLTE). Whether a decision maker or technology analyst, this book explains a topic of substantial global market interest. It provides a good introduction to the technology and is useful for operators who may be deploying VoLTE, product managers responsible for VoLTE products and those who work in implementation and standardization of related technologies. Provides a comprehensive overview of industry-approved technologies and standards,

providing vital information for decision makers and those working on the technology. Written by authors working at the cutting edge of mobile communications technology today, bringing a mix of standards and product background, guaranteeing in-depth practical and standards information. Covering the technical and practical elements of VoLTE, explaining the various approaches for providing voice services over LTE.

Introduction to Communication Networks John Wiley & Sons

LTE network capabilities are enhanced with small cell deployment, with optimization and with new 3GPP features. LTE networks are

getting high loaded which calls for more advanced optimization. Small cells have been discussed in the communications industry for many years, but their true deployment is happening now. New 3GPP features in Release 12 and 13 further push LTE network performance. This timely book addresses R&D and standardization activities on LTE small cells and network optimization, focusing on 3GPP evolution to Release 13. It covers LTE small cells from specification to products and field results; Latest 3GPP evolution to Release 13; and LTE optimization and learnings from the field.

LTE-Advanced

Academic Press

A practical guide to LTE design, test and measurement, this new edition has been updated to include the latest developments. This book presents the latest details on LTE from a practical and technical perspective. Written by Agilent's measurement experts, it offers a valuable insight into LTE technology and its design and test challenges. Chapters cover the upper layer signaling and system architecture evolution (SAE). Basic concepts such as MIMO and SC-FDMA, the new uplink modulation scheme, are introduced and explained, and the authors look into the challenges of verifying the designs of the receivers, transmitters and protocols of LTE

systems. The latest information on RF and signaling conformance testing is delivered by authors participating in the LTE 3GPP standards committees. This second edition has been considerably revised to reflect the most recent developments of the technologies and standards. Particularly important updates include an increased focus on LTE-Advanced as well as the latest testing specifications. Fully updated to include the latest information on LTE 3GPP standards. Chapters on conformance testing have been majorly revised and there is an increased focus on LTE-Advanced. Includes new sections on testing challenges as well as over the air MIMO

testing, protocol
testing and the most
up-to-date test
capabilities of
instruments Written

from both a technical
and practical point of
view by leading
experts in the field

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