

CSFB Call Flow



Procedures defined for redirecting an UE from LTE to 3G or 2G:

1. Inter-RAT cell changer order to 2G (used only when target RAT is 2G)
2. Inter RAT PS HO from 4G to 3G/2G
3. RRC connection release with redirection

Csfb Lte Call Flow

**Miikka Poikselkä, Harri Holma, Jukka
Hongisto, Juha Kallio, Antti Toskala**

Csfb Lte Call Flow:

Practical Guide to LTE-A, VoLTE and IoT Ayman ElNashar, Mohamed A. El-saidny, 2018-06-19 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

Mobile Communications Systems Development Rajib Taid, 2021-04-20 Provides a thorough introduction to the development operation maintenance and troubleshooting of mobile communications systems Mobile Communications Systems Development A Practical Introduction for System Understanding Implementation and Deployment is a comprehensive how to manual for mobile communications system design deployment and support Providing a detailed overview of end to end system development the book encompasses operation maintenance and troubleshooting of currently available mobile communication technologies and systems Readers are introduced to different network architectures standardization protocols and functions including 2G 3G 4G and 5G networks and the 3GPP standard In depth chapters cover the entire protocol stack from the Physical PHY to the Application layer discuss theoretical and practical considerations and describe software implementation based on the 3GPP standardized technical specifications The book includes figures tables and sample computer code to help readers thoroughly comprehend the functions and underlying concepts of a mobile communications network Each chapter includes an introduction to the topic and a chapter summary A full list of references

and a set of exercises are also provided at the end of the book to test comprehension and strengthen understanding of the material. Written by a respected professional with more than 20 years experience in the field, this highly practical guide provides detailed introductory information on GSM GPRS UMTS and LTE mobile communications systems and networks. Describes the various aspects and areas of the LTE system air interface and its protocol layers. Covers troubleshooting and resolution of mobile communications systems and networks issues. Discusses the software and hardware platforms used for the development of mobile communications systems network elements. Includes 5G use cases enablers and architectures that cover the 5G NR New Radio and 5G Core Network Mobile Communications Systems Development. Is perfect for graduate and postdoctoral students studying mobile communications and telecom design, electronic engineering, undergraduate students in their final year research and development, engineers and network operation and maintenance personnel.

Business Intelligence and Mobile Technology Research Sean B. Eom, Mohamed Ridda Laouar, 2014-03-25 All business organizations strive for increasing their growth by seizing new opportunities, reducing enterprise costs, attracting new customers and retaining old customers. In doing so, business intelligence and analytics allow business organizations to make better plans, informed decisions and monitor their progress towards planned goals and objectives. The more disruptive power of IT technologies comes synergistically. Individual IT technologies do not work in isolation. Business intelligence systems are built on other digital technologies such as mobile and collaborative technologies, cloud computing, virtualization and enterprise resource planning and enterprise information systems. This volume presents sixteen of the most insightful research papers amongst the various contributions accepted for presentations at the International Conference on Information Systems and Technologies ICIST 2013 and the International Conference on Software Engineering and New Technologies ICSSENT 12 held in Tangier, Morocco and Hammamet, Tunisia respectively. These papers truly represent what today's CIOs see as the top priority disruptive IT technologies that will help business organizations seize digital opportunities to increase their growth and reduce operating costs.

Fundamentals of Network Planning and Optimisation 2G/3G/4G Ajay R. Mishra, 2018-07-24 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 subsystems 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

Fundamentals of 5G Communications: Connectivity for Enhanced Mobile Broadband and Beyond Wanshi Chen, Peter Gaal, Juan Montojo, Haris Zisimopoulos, 2021-07-23 Explore the foundations and applications of 5G technology This comprehensive guide contains practical information from telecommunications experts working at the forefront of 5G innovation The authors discuss the foundations of 5G technology not just the new standards but the reasons and stories behind them Fundamentals of 5G Communications features coverage of all major vertical domains with a focus on practical commercial applications This book serves both as an essential reference for telecom professionals and as a textbook for students learning about 5G Coverage includes 5G versus 4G What's new Deployment scenarios and architecture options The evolution of 5G architecture Numerology and slot structure Initial access and mobility Downlink control and data operation Uplink control and data operation Coexistence of 4G and 5G 5G in unlicensed and shared spectra Vertical expansion URLLC MTC V2X Vertical expansion broadcast and multicast Typical 5G commercial deployments A look toward the future of 5G

Design, Deployment and Performance of 4G-LTE Networks Ayman ElNashar, Mohamed A. El-saidny, Mahmoud Sherif, 2014-03-13 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 Vcoders 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

Voice over LTE André Pérez, 2013-09-03 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 Andr Pérez 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

Voice over LTE Miikka Poikselkä, Harri Holma, Jukka Hongisto, Juha Kallio, Antti Toskala, 2012-01-30 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

EPC and 4G Packet Networks Magnus Olsson, Catherine Mulligan, 2018-11-13 Get a comprehensive and detailed insight into the Evolved Packet Core EPC with this clear concise and authoritative guide a fully updated second edition that covers the latest standards and industry developments The latest additions to the Evolved Packet System EPS including e.g. Positioning User Data Management eMBMS SRVCC VoLTE CSFB A detailed description of the nuts and bolts of EPC that are required to really get services up and running on a variety of operator networks An in depth overview of the EPC architecture and its connections to the wide variety of network accesses including LTE LTE Advanced WCDMA HSPA GSM WiFi etc The most common operator scenarios of EPS and the common issues faced in their design The reasoning behind many of the design decisions taken in EPC in order to understand the full details and background of the all IP core

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VoLTE and ViLTE André Pérez, 2016-06-20 This book presents the architecture of two networks that make up the backbone of the telephone service VoLTE and video service ViLTE The 4G mobile network makes it possible to construct bearers through which IP packets containing either telephone signals SIP SDP or voice or video media RTP stream are transported The IMS

network performs the processing of the telephone signal to provide VoLTE and ViLTE services including call routing and the provision of additional services Different procedures are described the set up and termination of a session interconnection with third party networks roaming and intra system handover The inter system handover PS CS is a special case that occurs when the mobile loses 4G network coverage over the course of a session The e SRVCC mechanism enables continuity of the service during the switch of the telephone communication to the 2G or 3G networks The SMS service for short messages which is a special telephone service in itself is provided by two structures one relying on the IMS network and a second on the CSFB functionality

Validating VoLTE James Rankin,Alexandru Costaiche,Joseph Zeto,2013-08-07 This book outlines a VoLTE Voice over Long Term Evolution test plan that ensures a correct stable and effective VoLTE deployment These scenarios cover major functional and characterization requirements of a VoLTE network Each test provides a description test steps and expected results The test plan provides significant benefits when executed before deployment and also as part of an ongoing regression environment as network elements are upgraded and expanded over the network lifetime This book is a collection of input gathered from our work with leading equipment vendors and mobile operators globally

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