
Fundamentals Of Le Data Networks

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Introduction to LTE

LTE: Key Features 1 Long Term Evolution 3GPP Release 8, 2009 2 Initially developed as 3G (Pre-4G) cellular technology Now sold as 4G 3 Many different bands: 700/1500/1700/ 2100 /2600 MHz 4 Flexible Bandwidth: 14/3/5/10/15/20 MHz 5 Frequency Division Duplexing (FDD) and Time Division Duplexing (TDD) Both paired and unpaired

Evolution of Cellular Technologies

application, it is abundantly clear that wireless data applications will drive its future growth In the past two decades, the Internet transformed from being a curious academic tool to an indispensable global information network providing a vast array of services and applications—from e-mail to social networking and e-commerce to entertainment

Introduction

16-1 ©2016 Raj Jain <http://www.cse.wustledu/~jain/cse574-16/> Washington University in St Louis Introduction to LTE Raj Jain Washington University in Saint Louis

Long Term Evolution (LTE): An Introduction, rev A

Figure 3 Standardization timeline for 3GPP Long Term Evolution Fact box: Summary of the 3GPP original LTE requirements * Increased peak data rates: 100Mbit/s downlink and 50Mbit/s uplink * Reduction of Radio Access Network (RAN) latency to 10ms * Improved spectrum efficiency (2 to 4 times compared with HSPA Release 6)

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LTE - A Technical Overview

5 IEEE802 • IEEE80216 - IEEE standard that defines a wireless network on a metropolitan area (WMAN) - Original goal to support fixed and nomadic users (16a~d) - Evolved to mobility (vehicular speeds) and increased data rates (16e) - 16m under development • IEEE80220 - Spin off from 80216 to support high mobility applications - For whatever reasons, it lost momentum

LTE in the Unlicensed Spectrum - Keysight

LTE WLAN Aggregation (LWA): Fundamentals LTE in the Unlicensed Spectrum 28 • When non-co-located, eNB and WLAN need to support a new interface (Xw -control and data) • WLAN nodes assumed to be deployed by Operators/Partners • User plane split/switch between LTE/WLAN is at PDCP level • WLAN traffic direction is DL only

The Magic of Mobile: Wireless Fundamentals

3 Download peak data rate with 2 x 2 MIMO, 64-QAM Modulation, and 2x 20 MHz carrier; 300 Mbps announced as of November 2013 Mobile 2G Voice plus Messaging CDMA, GSM, GPRS/EDGE Mobile 3G Mobile Broadband WCDMA/HSPA, EV-DO Mobile 3G+/4G Faster and Better HSPA+, LTE, LTE Advanced ≈□ • • - h □

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LTE/EPC Fundamentals 2 Agenda data rates < 1 Gbps mobility GSM/IS95 AMPS WCDMA/cdma2000 HSPA LTE 80211a/b/g 80211n 80216a/d 80216e < 200 kbps < 1 Mbps < 10 Mbps < 50 Mbps < 100 Mbps time 1990 2000 2005 2010 HIGH LOW 2G

Fundamentals of Mobile Data Networks

Fundamentals of Mobile Data Networks This unique text provides a comprehensive and systematic introduction to the theory and practice of mobile data networks Covering basic design principles as well as analytical tools for network performance evaluation, and with a focus on system-level resource management, you will learn how

Quality of Service (QoS) and Quality of Experience (QoE ...

The LTE technology is designed to be capable of transmitting data at high speeds, giving low-latency response, and supporting large amounts of data simultaneously, even behind business success LTE Manuscript received February 12, 2016; revised April 27, 2016 The authors are with the National Broadcasting and Telecommunications

UMTS Long Term Evolution (LTE) - Technology Introduction ...

Requirements for UMTS Long Term Evolution 4E Rohde & Schwarz LTE Technology Introduction 8 Figure 1: PING test (about 12 ms) using Data Application Unit (DAU) in R&S® CMW500 Wideband Radio Communication Tester while doing data end-to-end (E2E) testing for UMTS LTE (FDD) Bandwidth: LTE supports a subset of bandwidths of 14, 3, 5, 10, 15 and 20