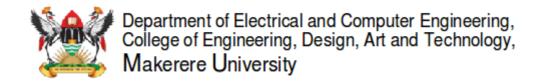
BSc in Computer Engineering

CMP4204 Wireless Technologies

Annex 01
Table of Abbreviations

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2.5G Between Second and Third Generation

2G Second Generation

3GPP2 3rd Generation Partnership Project 2 3GPP 3rd Generation Partnership Project

3G Third Generation5GC 5G Core Network

5G-ElR 5G-Equipment Identity Register

802.11 IEEE Working Group for the development of WLAN
802.15 IEEE Working Group for the development of WPAN
802.16 IEEE Working Group for the development of WiMAX

802.2 IEEE Working Group for the development of Logical Link Control

AAA Authentication, authorisation, and Accounting

ACK Acknowledgement

ACL Asynchronous ConnectionLess
ADSL Asymmetric Digital Subscriber Line

AF Application Function
AMA Active Member Address

AM Amplitude Modulation

AMF Access and Mobility Management Function

AMPS Advanced Mobile Phone System

ANSI American National Standards Institute

AP Access Point

APN Access Point Name

ARA Access Request Address

ASIC Application Specific Integrated Circuit

ASN.1 Abstract Syntax Notation One
ATM Asynchronous Transfer Mode

AuC Authentication Centre

AUSF Authentication Server Function

B2B Basestation to Basestation

B2D Basestation to Device
BCE Binding Cache Entry

BNEP Bluetooth Network Encapsulation Protocol

BS Base Station

BSC Base Station Controller
BSS 802.11 Basic Service Set
BSS Base Station Sub-system

BTS Base Transceiver Station

CA Collision Avoidance

CCK Complementary Code Keying

CDMA2000 Code division multiple access 2000

CDMA Code division multiple access

CDMAone CDMA one

CDR Call Detail Record

CGF Charging Gateway Function

CN Core Network

CN Correspondent Node

CPC Continuous Packet Connectivity

CP Control Plane

CRC Cyclic Redundancy Check
CSCF Call Session Control Function
CSMA Carrier Sense Multiple Access

D2B Device to Basestation

D2D Device 2 Device

DAC Device Access Code

dB decibels

DIFS Distributed Inter Frame Space

DL Downlink

DSSS Direct Sequence Spread Spectrum

EAP Extensible Authentication Protocol

EDGE Enhanced Data rates for GSM Evolution

EGPRS Enhanced GPRS eGTP Evolved GTP

EIA Electronic Industries Alliance

EIGRP Enhanced Interior Gateway Routing Protocol

ELF Extremely Low Frequency

eMBB enhanced Mobile BroadBand

EMF Electro Magnetic
EMF Electro Motive Force

EPC Evolved Packet Core

E-UTRAN Evolved UTRAN

EV-DO Evolution-Data Optimised

FBWA Fixed Broadband Wireless Access

FCC Federal Communications Commission

FDD Frequency Division Duplex

FDMA Frequency Division Multiple Access

FDM Frequency Division Multiplex FEC Forward Error Correction

FHS Frequency Hop Synchronisation

FHSS Frequency Hopping Spread Spectrum

FM Frequency Modulation

GEPON Gigabit Ethernet Passive Optical Network

GFSK Gaussian Frequency Shift Keying
GGSN Gateway GPRS Support Node

GHz Giga-Hertz

gNB-CU gNB Central Unit

gNB-DU gNB Distributed Units gNB Next Generation NodeB

GPON Gigabit Passive Optical Network
GPRS General Packet Radio Services
GRE Generic Routing Encapsulation

GSM Groupe Spécial Mobile
GTP GPRS Tunnelling Protocol

GTPv2 GTP version 2

HCI Host Controller Interface

HF High Frequency

HiperLAN ETSI standard for Wireless LAN similar to IEEE 802.11
HiperMAN ETSI standard for Wireless MAN similar to IEEE 802.16

HLR Home Location Register

HSDA+ High-Speed Packet Access + HSDA High-Speed Packet Access

HSDPA High-Speed Downlink Packet Access

HSS Home Subscriber Server

I-CSCF Interrogating-CSCF

IEEE Institute of Electrical and Electronics Engineers

IGP Interior Gateway Protocol

IMSI International Mobile Subscriber Identity

IMT-2000 International Mobile Telecommunications - 2000IMT-2020 International Mobile Telecommunications - 2020

IMT-Adv International Mobile Telecommunications - Advanced

IoT Internet of Things
IP Internet Protocol

IrDA Infrared Data Association

IS-136 Interim Standard 136 (Digital AMPS)
IS-2000 Interim Standard 2000 (Cdma2000)
IS-856 Interim Standard 8560 (CDMA EV-DO)

IS-95 Interim Standard 95 (cdmaOne)
ISM Industrial, Scientific and Medical

ISP Internet Service Provider

ITS Intelligent Transportation Systems

ITU International Telecommunication Union

ITU-R International Telecommunication Union - Radiotelecommunications
ITU-T International Telecommunication Union - Telecommunications

JPEG Joint Photographic Experts Group

kHz kilo Hertz

L2CAP Logical Link Control Applications Protocol

L2TP Layer 2 Tunnelling Protocol

LMA Logical Link Control
LMA Local Mobility Anchor

LM Link Manager

LMP Link Manager Protocol
LNS L2TP Network Server

LocDev Service discovery application

LOS Line of Sight

LTE Long Term Evolution

MAC Media Access Control

MAC Medium Access Control

MAG Mobile Access Gateway

MAN Metropolitan Area Network

Mc/s Megacycles per second

MHz Mega Hertz

MIDI Musical Instrument Digital Interface

MIMO Multiple-Input Multiple-Output Antennas

MME Mobility Management Entity

mMIMO massive MIMO

mMTC massive Machine Type Communications

MN Mobile Node

MPEG Moving Pictures Experts Group

MS Mobile Station
MU-MIMO Multi User MIMO

NEF Network Exposure Function

NFV Network Functions Virtualisation

NG-RAN Next Generation - Radio Access Network

NIC Network Interface Card

nLOS Near Line of Sight NLOS Non Line of Sight

NMS Network Management Subsystem

Node-B A BTS in WCDMA

NOMA Non Orthogonal Multiple Access

NRF Network Function Repository Function

NR New Radio

NSSF Network Slice Selection Function
NSS Network Switching Sub-system

OBEX OBject EXchange

OFDM Orthogonal Frequency Division Multiplexing

OSPF Open Shortest Path First

OUI Organisation Unique Identifier

PAN Personal Access Network

PAPR Peak to Average Power Ratio

PBA Proxy Binding ACK
PBU Proxy Binding Update
PCF Policy Control Function

P-CSCF Proxy-CSCF

PDA Personal Digital Assistant

PDP Packet Data Protocol

PDSN Packet Data Serving Node

PGW Packet Data Network Gateway

PHY Physical Layer

PLMN Public Land Mobile Network
PMA Parked Member Address

PMIP Proxy Mobile IP

PNAC Port-based Network Access Control – 802.1x

PN Pseudo Noise

PPP Point-to-Point Protocol

Technologies

PTM Point to Multipoint

PTP Point to Point

PVC Poly Vinyl Chloride

QAM Quadrature Amplitude Modulation

QoS Quality of Service

QPSK Quadrature Phase Shift Keying

RADIUS Remote Access Dial-up User Service

RAN Radio Access Network

RFCOMM RF COMMunications protocol

RF Radio Frequency

RIP Routing Internet Protocol
RNC Radio Network Controller
RPC Remote Procedure Call

RS Repeater Station

RTT Radio Transmission Technology
SAE System Architecture Evolution

SBC Session Border Controller

SC-FDMA Single Carrier Frequency Division Multiple Access

SCO Synchronous Connection Oriented

S-CSCF Serving-CSCF

SC Superposition Coding

SCTP Stream Control Transmission Protocol

SDM Spatial Division Multiplexing
SDN Software Defined Networking
SDP Service Discovery Protocol

SEPP Security Edge Protection Proxy SGSN Serving GPRS Support Node

SGW Serving Gateway

SHF Super High Frequency

SIC Successive Interference Cancellation

SIM Subscriber Identity Module
SIP Session Initiation Protocol

SISO Single In, Single Out

SMF Session Management Function

SMS Short Messaging Service
SQL Structured Query Language

SRD Short Range Device

SSB Single Side Band

SSID 802.11 Service Set IDentifier

SS Subscriber Station
STA 802.11 Station
SU-MIMO Single User MIMO
SWR Standing Wave Ratio

TCP Transmission Control Protocol
TCS-AT ATtention modem commands

TCS-BIN Bluetooth Telephony Control protocol

TCS Telephony Control Protocol

TDD Time Division Duplex

TDMA Time Division Multiple Access
TDM Time Division Multiplexing

TIA Telecommunications Industry Association

TIFF Tagged Image File Format
UDM Unified Data Management
UDP User Datagram Protocol
UDR Unified Data Repository

UDSF Unstructured Data Storage Function

UE User Equipment

UHF Ultra High Frequency

UL Uplink

UMB Ultra Mobile Broadband

UMTS Universal Mobile Telecommunications System

UPF User Plane Function
UPF User Plane Functions

UP User Plane

URLLC Ultra Reliable Low Latency Communications

USA United States of America

UTRAN Universal Terrestrial Radio Access Network

VHF Very High Frequency
VLF Very Low Frequency

VoLTE Voice over LTE

WAP Wireless Application Protocol

W-CDMA Wideband Code Division Multiple Access

WEP Wired Equivalent Privacy
WiFi Wireless Fidelity (802.11)

WiMAX Worldwide Interoperability for Microwave Access (802.16)

WISP Wireless Internet Service Providers

WLAN Wireless Local Area Network

WPA2 Wi-Fi Protected Access 2

WPAN Wireless Personal Access Network

WPA Wi-Fi Protected Access