# Acronym and Abbreviation

## 1.1 Mobile Network Evolution

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| AMPS: Advanced Mobile Phone System |
| LSI: Large Scale Integrated Circuit |
| GSM: Global System For Mobile Communications |
| CDMA: Code Division Multiple Access |
| WCDMA: Wideband Code Division Multiple Access |
| TD-SCDMA: Time Division-Synchronous Code Division Multiple Access |
| CDMA 2000: Code Division Multiple Access 2000 |
| SMS: Short Message Services |
| LTE: Long Term Evolution |
| LTE-A: Long Term Evolution-Advanced |
| 3GPP: 3rd Generation Partnership Project |
| MBB: Mobile Broadband |

## 2.1 Mobile Service Requirement Trends & Service Scenarios

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| AR: Augmented Reality |
| VR: Virtual Reality |
| IoV: Internet of Vehicles |
| MWC: Mobile World Congress |
| ITU: International Telecommunication Union |
| IMT-2020: International Mobile Telecommunications 2000 |
| eMBB: Enhanced Mobile Broadband |
| uRLLC: Ultra-Reliable and Low- Latency Communications |
| mMTC: Massive Machine-Type Communications |
| MOU: Memorandum of Understanding |

## 2.2 5G Protocol Standardization

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| NR: New Radio |
| eLTE: Evolved Lte |
| FWA: Fixed Wireless Access |
| GSA: Global Mobile Suppliers Association |

## 3.1 5G New Spectrum

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| SNR: Signal-To-Noise Ratio |
| FR: Frequency Range |

## 3.2 5G New Technologies

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| TDD: Time Division Duplex |
| gNodeB: g Node Base Station, 5G Base Station |
| LDPC: Low Density Parity Check |
| MIMO: Multiple-Input Multiple-Output |
| 64T64R: 64 Transmit, 64 Receive, Indicate the Number of Antenna |
| SDM: Space Division Multiplexing |
| D2D: Device-to-Device |
| MEC: Mobile Edge Computing |
| DC: Data Center |
| V2X: Vehicle-to-Everything |
| IoT: Internet of Things |

## 3.3 5G New Architectures

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| NGC: Next Generation Core |
| NG-RAN: Next Generation Radio Access Network |
| NG-C: NG-Control Plane |
| NG-U: NG-User Plane |
| NFV: Network Functions Virtualization |
| SDN: Software-Defined Networking |
| EPC: Evolved Packet Core, Core Network of 4G |
| IMS: Ip Multimedia Subsystem |
| ERP: Enterprise Resource Planning |
| CRM: Customer Relationship Management |
| NodeB: Node Base Station |
| RNC: Radio Network Controller |
| SGSN: Serving GPRS Support Node |
| GGSN: Gateway GPRS Support Node |
| MME: Mobility Management Entity |
| SGW: Serving Gateway |
| PGW: Packet Data Network Gateway |
| ACC: Access |
| AGG: Aggregation |
| CDR: Charging Data Record |
| QoS: Quality of Service |
| API: Application Programming Interface |
| BBU: Baseband Unit |
| CU: Centralized Unit |
| DU: Distributed Unit |
| RRC: Radio Resource Control |
| PDCP: Packet Data Convergence Protocol |
| RLC: Radio Link Control |
| MAC: Media Access Control |
| PHY-H: Physical Layer-High |
| PHY-L: Physical Layer-Low |
| RF: Radio Frequency |
| eCPRI: Enhanced Common Public Radio Interface |
| NRT: Non-Real-Time |
| RT: Real-Time |