

1. Record Nr.	UNINA9910134863503321
Autore	Perez Andre
Titolo	VoLTE and ViLTE : voice and conversational video services over the 4G mobile network / / Andre Perez
Pubbl/distr/stampa	London, England ; ; Hoboken, New Jersey : , : ISTE : , : Wiley, , 2016 ©2016
ISBN	1-119-31847-5 1-119-31846-7 1-119-31845-9
Descrizione fisica	1 online resource (339 p.)
Collana	Networks and Telecommunications Series
Disciplina	621.380413
Soggetti	Digital communications Cell phone systems - Standards
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Title Page; Copyright; Contents; Preface; List of Abbreviations; 1: Network Architecture; 1.1. EPS network; 1.1.1. Functional architecture; 1.1.1.1. eNB entity; 1.1.1.2. MME entity; 1.1.1.3. SGW entity; 1.1.1.4. PGW entity; 1.1.2. Protocol architecture; 1.1.3. Bearers; 1.1.3.1. Bearer structure; 1.1.3.2. Quality of Service; 1.2. IMS network; 1.2.1. Functional architecture; 1.2.1.1. P-CSCF entity; 1.2.1.2. I-CSCF entity; 1.2.1.3. S-CSCF entity; 1.2.1.4. E-CSCF entity; 1.2.1.5. Application servers; 1.2.1.6. Media processing; 1.2.2. Protocol architecture; 1.3. Databases 1.3.1. Functional architecture1.3.2. Protocol architecture; 1.4. Charging associated with IMS network; 1.4.1. Functional architecture; 1.4.1.1. Offline charging; 1.4.1.2. Online charging; 1.4.2. Protocol architecture; 1.5. PCC function; 1.5.1. Functional architecture; 1.5.2. Protocol architecture; 1.6. DIAMETER routers; 1.7. ENUM system; 1.8. IPX network; 2: Signaling Protocols; 2.1. NAS protocol; 2.1.1. EMM messages; 2.1.1.1. Attachment and detachment; 2.1.1.2. Authentication; 2.1.1.3. Security mode; 2.1.1.4. Tracking area update; 2.1.1.5. Service request; 2.1.2. ESM messages 2.2. RRC protocol2.2.1. System information; 2.2.2. Control of RRC

connection; 2.2.3. Measurement report; 2.3. S1-AP protocol; 2.3.1. Context management; 2.3.2. Bearer management; 2.3.3. Mobility management; 2.3.4. S1-MME interface management; 2.4. X2-AP protocol; 2.4.1. Mobility management; 2.4.2. Load management; 2.4.3. X2 interface management; 2.5. GTPv2-C protocol; 2.5.1. Bearer management; 2.5.2. Mobility management; 2.6. SIP protocol; 2.6.1. Requests; 2.6.1.1. REGISTER method; 2.6.1.2. INVITE method; 2.6.1.3. ACK method; 2.6.1.4. BYE method; 2.6.1.5. CANCEL method; 2.6.1.6. PRACK method; 2.6.1.7. UPDATE method; 2.6.1.8. SUBSCRIBE method; 2.6.1.9. NOTIFY method; 2.6.1.10. REFER method; 2.6.1.11. MESSAGE method; 2.6.2. Responses; 2.7. SDP protocol; 2.8. DIAMETER protocol; 2.8.1. Application to EPS network; 2.8.2. Application to IMS network; 2.8.3. Application to PCC function; 3. Basic Procedures; 3.1. Attachment; 3.2. Registration; 3.3. Deregistration; 3.4. Detachment; 3.5. Establishment of VoLTE session; 3.5.1. Originating side; 3.5.2. Terminating side; 3.6. Termination of VoLTE session; 3.6.1. Initiated side; 3.6.2. Received side; 3.7. Establishment of ViLTE session; 3.8. Termination of ViLTE session; 3.9. Emergency call; 4. Radio Interface Procedures; 4.1. Radio interface; 4.1.1. Data link sub-layer; 4.1.1.1. PDCP protocol; 4.1.1.2. RLC protocol; 4.1.1.3. MAC protocol; 4.1.2. Logical channels; 4.1.3. Transport channels; 4.1.3.1. Downlink; 4.1.3.2. Uplink; 4.1.4. Physical layer; 4.1.4.1. Transmission chain; 4.1.4.2. Frequency-division multiplexing; 4.1.4.3. Time-division multiplexing; 4.1.4.4. Spatial multiplexing; 4.1.5. Physical signals; 4.1.5.1. Downlink; 4.1.5.2. Uplink; 4.1.6. Physical channels; 4.1.6.1. Downlink; 4.1.6.2. Uplink; 4.2. Procedures; 4.2.1. Access control
