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example scenario; 4.2 Base standards; 5 An example IMS registration; 5.1 Overview; 5.2 Signalling PDP context establishment; 5.3 P-CSCF discovery; 5.4 Transport protocols 5.5 SIP registration and registration routing aspects 5.6 Authentication; 5.7 Access security-IPsec SAs; 5.8 SIP Security Mechanism Agreement; 5.9 Compression negotiation; 5.10 Access and location information; 5.11 Charging-related information during registration; 5.12 User identities; 5.13 Re-registration and re-authentication; 5.14 De-registration; 6 An Example IMS Session; 6.1 Overview; 6.2 Caller and callee identities; 6.3 Routing; 6.4 Compression negotiation; 6.5 Media negotiation; 6.6 Resource reservation; 6.7 Controlling the media; 6.8 Charging-related information for sessions 6.9 Release of a session 7 Routing of PSIs; 7.1 Scenario 1: routing from a user to a PSI; 7.2 Scenario 2: routing from a PSI to a user; 7.3 Scenario 3: routing from a PSI to another PSI; PART III: PROTOCOLS; 8 SIP; 8.1 Background; 8.2 Design principles; 8.3 SIP architecture; 8.4 Message format; 8.5 The SIP URI; 8.6 The tel URI; 8.7 SIP structure; 8.8 Registration; 8.9 Dialogs; 8.10 Sessions; 8.11 Security; 8.12 Routing requests and responses; 8.13 SIP extensions; 9 SDP; 9.1 SDP message contents; 9.2 SDP message format; 9.3 Selected SDP lines; 10 The Offer/Answer Model with SDP; 10.1 The offer 10.2 The answer 10.3 Offer/Answer processing; 11 RTP; 11.1 RTP for real-time data delivery; 11.2 RTCP; 11.3 RTP profile and payload format specifications; 11.4 RTP profile and payload format specification for audio and video (RTP/AVP); 12 DNS; 12.1 DNS resource records; 12.2 The naming authority pointer (NAPTR) DNS RR; 12.3 ENUM - the E.164 to URI Dynamic Delegation Discovery System (DDD) application; 12.4 Service records (SRVs); 13 GPRS; 13.1 Overview; 13.2 Packet Data Protocol (PDP); 13.3 Access points; 13.4 PDP context types; 14 TLS; 14.1 Introduction; 14.2 TLS Record Protocol 14.3 TLS Handshake Protocol

Sommario/riassunto

We have telephony to talk to each other, messaging to dispatch mail or instant messages, browsing to read published content and search engines to locate content sites. However, current mobile networks do not provide the possibility for one application rich terminal to communicate with another in a peer-to-peer session beyond voice calls. Mobile telephony with the current technology has been hugely successful and shows that there is immense value in communicating with peers while being mobile, and with increasingly available smarter multimedia terminals the communication experience will be some
