ETSI TS 121 201 V8.0.0 (2009-03)

Technical Specification

LTE;
Technical Specifications and Technical Reports relating to an Evolved Packet System (EPS) based 3GPP system
(3GPP TS 21.201 version 8.0.0 Release 8)

Reference
DTS/TSGS-0121201v800

Keywords
LTE

ETSI

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Sous-Préfecture de Grasse (06) N° 7803/88

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Foreword

This Technical Specification (TS) has been produced by ETSI 3rd Generation Partnership Project (3GPP).

The present document may refer to technical specifications or reports using their 3GPP identities, UMTS identities or GSM identities. These should be interpreted as being references to the corresponding ETSI deliverables.

The cross reference between GSM, UMTS, 3GPP and ETSI identities can be found under http://webapp.etsi.org/key/queryform.asp.

Contents

Foreword

This Technical Specification has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

x   the first digit:

1   presented to TSG for information;

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y   the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.

z   the third digit is incremented when editorial only changes have been incorporated in the document.

1 Scope

The present document identifies the 3GPP Technical Specifications and Technical Reports required to build a system based on the Evolved Packet System / LTE / E-UTRAN radio technology. It lists only elements peculiar to EPS / LTE, and does not mention other Specifications which might be needed but which are not specific to EPS / LTE functionality.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in TR 21.905 [1] apply.

3.2 Symbols

(Void)

3.3 Abbreviations

For the purposes of the present document, the abbreviations given in TR 21.905 [1] apply.

4 General

The numbering scheme for specifications is described in 3GPP TR 21.900 [2].

5 Specifications and Reports

NOTE 1: The "for publication?" column of the table below indicates whether or not the documents are intended for adoption by the partner Standards Development Organizations as their own publications. Those marked "no" are internal working documents of the 3GPP TSGs.

NOTE 2: "Type" indicates Technical Specification (TS) or Technical Report (TR).

Type	Number	Title	Group	For publication?
TS	21.111	USIM and IC card requirements	C6	Yes
TS	21.201	Technical Specifications and Technical Reports relating to an Evolved Packet System (EPS) based 3GPP system	S1	Yes
TS	21.202	Technical Specifications and Technical Reports relating to the Common IP Multimedia Subsystem (IMS)	SP	Yes
TR	21.801	Specification drafting rules	SP	No
TR	21.900	Technical Specification Group working methods	SP	Yes
TR	21.902	Evolution of 3GPP system	SP	Yes
TR	21.905	Vocabulary for 3GPP Specifications	S1	Yes
TS	22.003	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)	S1	No
TS	22.011	Service accessibility	S1	Yes
TS	22.016	International Mobile Equipment Identities (IMEI)	S1	Yes
TS	22.022	Personalisation of Mobile Equipment (ME); Mobile functionality specification	S3	Yes
TS	22.030	Man-Machine Interface (MMI) of the User Equipment (UE)	S1	Yes
TS	22.031	Fraud Information Gathering System (FIGS); Service description; Stage 1	S3	Yes
TS	22.032	Immediate Service Termination (IST); Service description; Stage 1	S3	Yes
TS	22.041	Operator Determined Call Barring (ODB)	S1	Yes
TS	22.042	Network Identity and Time Zone (NITZ); Service description; Stage 1	S1	Yes
TS	22.066	Support of Mobile Number Portability (MNP); Stage 1	S1	Yes
TS	22.067	enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 1	S1	Yes
TS	22.071	Location Services (LCS); Service description; Stage 1	S1	Yes
TS	22.076	Noise suppression for the AMR codec; Service description; Stage 1	S4	Yes
TS	22.101	Service aspects; Service principles	S1	Yes
TS	22.105	Services and service capabilities	S1	Yes
TS	22.115	Service aspects; Charging and billing	S1	Yes
TS	22.129	Handover requirements between UTRAN and GERAN or other radio systems	S1	Yes
TS	22.146	Multimedia Broadcast/Multicast Service (MBMS); Stage 1	S1	Yes
TS	22.173	IP Multimedia Core Network Subsystem (IMS) Multimedia Telephony Service and supplementary services; Stage 1	S1	Yes
TS	22.174	Push service; Stage 1	S1	Yes
TS	22.182	Customized Alerting Tone (CAT) requirements; Stage 1	S1	Yes
TS	22.226	Global text telephony (GTT); Stage 1: Service description	S1	Yes
TS	22.228	Service requirements for the Internet Protocol (IP) multimedia core network subsystem (IMS); Stage 1	S1	Yes
TS	22.233	Transparent end-to-end packet-switched streaming service; Stage 1	S1	Yes
TS	22.234	Requirements on 3GPP system to Wireless Local Area Network (WLAN) interworking	S1	Yes
TS	22.240	Service requirements for 3GPP Generic User Profile (GUP); Stage 1	S1	Yes
TS	22.242	Digital Rights Management (DRM); Stage 1	S1	Yes
TS	22.246	Multimedia Broadcast/Multicast Service (MBMS) user services; Stage 1	S1	Yes
TS	22.250	IP Multimedia Subsystem (IMS) Group Management; Stage 1	S1	Yes
TS	22.259	Service requirements for Personal Network Management (PNM); Stage 1	S1	Yes
TS	22.278	Service requirements for the Evolved Packet System (EPS)	S1	Yes

Type	Number	Title	Group	For publication?
TS	22.279	Combined Circuit Switched (CS) and IP Multimedia Subsystem (IMS) sessions; Stage 1	S1	Yes
TS	22.340	IP Multimedia Subsystem (IMS) messaging; Stage 1	S1	Yes
TS	23.002	Network architecture	S2	Yes
TS	23.003	Numbering, addressing and identification	C4	Yes
TS	23.007	Restoration procedures	C4	Yes
TS	23.008	Organization of subscriber data	C4	Yes
TS	23.009	Handover procedures	C1	Yes
TS	23.015	Technical realization of Operator Determined Barring (ODB)	C4	Yes
TS	23.031	Fraud Information Gathering System (FIGS); Service description; Stage 2	S3	Yes
TS	23.032	Universal Geographical Area Description (GAD)	S2	Yes
TS	23.034	High Speed Circuit Switched Data (HSCSD); Stage 2	C1	Yes
TS	23.035	Immediate Service Termination (IST); Stage 2	S3	Yes
TS	23.038	Alphabets and language-specific information	C1	Yes
TS	23.040	Technical realization of Short Message Service (SMS)	C1	Yes
TS	23.042	Compression algorithm for text messaging services	C1	Yes
TS	23.057	Mobile Execution Environment (MExE); Functional description; Stage 2	S2	Yes
TS	23.060	General Packet Radio Service (GPRS); Service description; Stage 2	S2	Yes
TS	23.067	enhanced Multi-Level Precedence and Pre-emption Service (eMLPP); Stage 2	C4	Yes
TS	23.083	Call Waiting (CW) and Call Hold (HOLD) supplementary services; Stage 2	C4	Yes
TS	23.096	Name identification supplementary services; Stage 2	C4	Yes
TS	23.101	General Universal Mobile Telecommunications System (UMTS) architecture	S2	Yes
TS	23.107	Quality of Service (QoS) concept and architecture	S2	Yes
TS	23.108	Mobile radio interface layer 3 specification, core network protocols; Stage 2	C1	Yes
TS	23.110	Universal Mobile Telecommunications System (UMTS) access stratum; Services and functions	S2	Yes
TS	23.116	Super-Charger technical realization; Stage 2	C4	Yes
TS	23.119	Gateway Location Register (GLR); Stage2	C4	Yes
TS	23.122	Non-Access-Stratum (NAS) functions related to Mobile Station (MS) in idle mode	C1	Yes
TS	23.135	Multicall supplementary service; Stage 2	C4	Yes
TS	23.141	Presence service; Architecture and functional description; Stage 2	S2	Yes
TS	23.146	Technical realization of facsimile Group 3 service - non-transparent	C3	Yes
TS	23.167	IP Multimedia Subsystem (IMS) emergency sessions	S2	Yes
TS	23.172	Technical realization of Circuit Switched (CS) multimedia service; UDI/RDI fallback and service modification; Stage 2	C3	Yes
TS	23.202	Circuit switched data bearer services	C3	Yes
TS	23.203	Policy and charging control architecture	S2	Yes
TS	23.204	Support of Short Message Service (SMS) over generic 3GPP Internet Protocol (IP) access; Stage 2	S2	Yes
TS	23.207	End-to-end Quality of Service (QoS) concept and architecture	S2	Yes
TS	23.216	Single Radio Voice Call Continuity (SRVCC); Stage 2	S2	Yes
TS	23.218	IP Multimedia (IM) session handling; IM call model; Stage 2	C1	Yes
TS	23.221	Architectural requirements	S2	Yes
TS	23.226	Global text telephony (GTT); Stage 2	S2	Yes
TS	23.228	IP Multimedia Subsystem (IMS); Stage 2	S2	Yes
TS	23.234	3GPP system to Wireless Local Area Network (WLAN) interworking; System description	S2	Yes
TS	23.236	Intra-domain connection of Radio Access Network (RAN) nodes to multiple Core Network (CN) nodes	S2	Yes
TS	23.237	IP Multimedia Subsystem (IMS) Service Continuity; Stage 2	S2	Yes
TS	23.240	3GPP Generic User Profile (GUP) requirements; Architecture (Stage 2)	S2	Yes
TS	23.246	Multimedia Broadcast/Multicast Service (MBMS); Architecture and functional description	S2	Yes

Type	Number	Title	Group	For publication?
TS	23.251	Network sharing; Architecture and functional description	S2	Yes
TS	23.259	Personal Network Management (PNM); Procedures and information flows	C1	Yes
TS	23.271	Functional stage 2 description of Location Services (LCS)	S2	Yes
TS	23.272	Circuit Switched (CS) fallback in Evolved Packet System (EPS); Stage 2	S2	Yes
TS	23.279	Combining Circuit Switched (CS) and IP Multimedia Subsystem (IMS) services; Stage 2	S2	Yes
TS	23.292	IP Multimedia System (IMS) centralized services; Stage 2	S2	Yes
TS	23.380	IMS Restoration Procedures	C4	Yes
TS	23.401	General Packet Radio Service (GPRS) enhancements for Evolved Universal Terrestrial Radio Access Network (E-UTRAN) access	S2	Yes
TS	23.402	Architecture enhancements for non-3GPP accesses	S2	Yes
TS	24.002	GSM - UMTS Public Land Mobile Network (PLMN) Access Reference Configuration	C1	Yes
TS	24.007	Mobile radio interface signalling layer 3; General Aspects	C1	Yes
TS	24.008	Mobile radio interface Layer 3 specification; Core network protocols; Stage 3	C1	Yes
TS	24.010	Mobile radio interface layer 3; Supplementary services specification; General aspects	C4	Yes
TS	24.011	Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface	C1	Yes
TS	24.022	Radio Link Protocol (RLP) for circuit switched bearer and teleservices	C3	Yes
TS	24.030	Location Services (LCS); Supplementary service operations; Stage 3	C4	Yes
TS	24.067	Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3	C4	Yes
TS	24.096	Name Identification supplementary services; Stage 3	C4	Yes
TS	24.109	Bootstrapping interface (Ub) and network application function interface (Ua); Protocol details	C1	Yes
TS	24.135	Multicall supplementary service; Stage 3	C4	Yes
TS	24.141	Presence service using the IP Multimedia (IM) Core Network (CN) subsystem; Stage 3	C1	Yes
TS	24.147	Conferencing using the IP Multimedia (IM) Core Network (CN) subsystem; Stage 3	C1	Yes
TS	24.167	3GPP IMS Management Object (MO); Stage 3	C1	Yes
TS	24.173	IMS Multimedia telephony service and supplementary services; Stage 3	C1	Yes
TS	24.182	IP Multimedia Subsystem (IMS) Customized Alerting Tones (CAT); Protocol specification	C1	Yes
TS	24.216	Communication Continuity Management Object (MO)	C1	Yes
TS	24.229	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3	C1	Yes
TS	24.234	3GPP system to Wireless Local Area Network (WLAN) interworking; WLAN User Equipment (WLAN UE) to network protocols; Stage 3	C1	Yes
TS	24.237	IP Multimedia Subsystem (IMS) Service Continuity; Stage 3	C1	Yes
TS	24.238	Session Initiation Protocol (SIP) based user configuration; Stage 3	C1	Yes
TS	24.239	Flexible Alerting (FA) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification	C1	Yes
TS	24.247	Messaging service using the IP Multimedia (IM) Core Network (CN) subsystem; Stage 3	C1	Yes
TS	24.259	Personal Network Management (PNM); Stage 3	C1	Yes
TS	24.279	Combining Circuit Switched (CS) and IP Multimedia Subsystem (IMS) services; Stage 3	C1	Yes
TS	24.285	Allowed Closed Subscriber Group (CSG) List; Management Object (MO)	C1	Yes
TS	24.292	IP Multimedia Core Network subsystem Centralized Services; Stage 3	C1	Yes
TS	24.301	Non-Access-Stratum (NAS) protocol for Evolved Packet System (EPS); Stage 3	C1	Yes
TS	24.302	Access to the Evolved Packet Core (EPC) via non-3GPP access networks; Stage 3	C1	Yes
TS	24.303	Mobility management based on Dual-Stack Mobile IPv6; Stage 3	C1	Yes
TS	24.304	Mobility management based on Mobile IPv4; User Equipment (UE) - foreign agent	C1	Yes

Type	Number	Title	Group	For publication?
		interface; Stage 3		
TS	24.305	Selective Disabling of UE Capabilities (SDoUE) Management Object (MO)	C1	Yes
TS	24.312	Access Network Discovery and Selection Function (ANDSF) Management Object (MO)	C1	Yes
TS	24.323	3GPP IP Multimedia Subsystem (IMS) service level tracing management object (MO)	C1	Yes
TS	24.341	Support of SMS over IP networks; Stage 3	C1	Yes
TS	26.071	Mandatory speech CODEC speech processing functions; AMR speech Codec; General description	S4	Yes
TS	26.073	ANSI C code for the Adaptive Multi Rate (AMR) speech codec	S4	Yes
TS	26.074	Mandatory speech codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec test sequences	S4	Yes
TS	26.077	Minimum performance requirements for noise suppresser application to the Adaptive Multi-Rate (AMR) speech encoder	S4	Yes
TS	26.090	Mandatory Speech Codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec; Transcoding functions	S4	Yes
TS	26.091	Mandatory Speech Codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec; Error concealment of lost frames	S4	Yes
TS	26.092	Mandatory speech codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec; Comfort noise aspects	S4	Yes
TS	26.093	Mandatory speech codec speech processing functions Adaptive Multi-Rate (AMR) speech codec; Source controlled rate operation	S4	Yes
TS	26.094	Mandatory speech codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec; Voice Activity Detector (VAD)	S4	Yes
TS	26.101	Mandatory speech codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec frame structure	S4	Yes
TS	26.102	Mandatory speech codec; Adaptive Multi-Rate (AMR) speech codec; Interface to Iu, Uu and Nb	S4	Yes
TS	26.104	ANSI-C code for the floating-point Adaptive Multi-Rate (AMR) speech codec	S4	Yes
TS	26.114	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	S4	Yes
TS	26.115	Echo control for speech and multimedia services	S4	Yes
TS	26.131	Terminal acoustic characteristics for telephony; Requirements	S4	Yes
TS	26.132	Speech and video telephony terminal acoustic test specification	S4	Yes
TS	26.140	Multimedia Messaging Service (MMS); Media formats and codes	S4	Yes
TS	26.141	IP Multimedia System (IMS) Messaging and Presence; Media formats and codecs	S4	Yes
TS	26.142	Dynamic and Interactive Multimedia Scenes (DIMS)	S4	Yes
TS	26.171	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; General description	S4	Yes
TS	26.173	ANSI-C code for the Adaptive Multi-Rate - Wideband (AMR-WB) speech codec	S4	Yes
TS	26.174	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec test sequences	S4	Yes
TS	26.177	Speech Enabled Services (SES); Distributed Speech Recognition (DSR) extended advanced front-end test sequences	S4	Yes
TS	26.190	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Transcoding functions	S4	Yes
TS	26.191	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Error concealment of erroneous or lost frames	S4	Yes
TS	26.192	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Comfort noise aspects	S4	Yes
TS	26.193	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Source controlled rate operation	S4	Yes
TS	26.194	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Voice Activity Detector (VAD)	S4	Yes
TS	26.201	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Frame structure	S4	Yes

Type	Number	Title	Group	For publication?
TS	26.202	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Interface to Iu, Uu and Nb	S4	Yes
TS	26.204	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; ANSI-C code	S4	Yes
TS	26.233	End-to-end transparent streaming service; General description	S4	Yes
TS	26.234	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs	S4	Yes
TS	26.235	Packet switched conversational multimedia applications; Default codecs	S4	Yes
TS	26.236	Packet switched conversational multimedia applications; Transport protocols	S4	Yes
TS	26.237	IMS based PSS and MBMS User Service; Protocols	S4	Yes
TS	26.243	ANSI C code for the fixed-point distributed speech recognition extended advanced front-end	S4	Yes
TS	26.244	Transparent end-to-end packet switched streaming service (PSS); 3GPP file format (3GP)	S4	Yes
TS	26.245	Transparent end-to-end Packet switched Streaming Service (PSS); Timed text format	S4	Yes
TS	26.246	Transparent end-to-end Packet-switched Streaming Service (PSS); 3GPP SMIL language profile	S4	Yes
TS	26.273	ANSI-C code for the fixed-point Extended Adaptive Multi-Rate - Wideband (AMR-WB+) speech codec	S4	Yes
TS	26.274	Speech codec speech processing functions; Extended Adaptive Multi-Rate - Wideband (AMR-WB+) speech codec; Conformance testing	S4	Yes
TS	26.290	Audio codec processing functions; Extended Adaptive Multi-Rate - Wideband (AMR-WB+) codec; Transcoding functions	S4	Yes
TS	26.304	Extended Adaptive Multi-Rate - Wideband (AMR-WB+) codec; Floating-point ANSI-C code	S4	Yes
TS	26.401	General audio codec audio processing functions; Enhanced aacPlus general audio codec; General description	S4	Yes
TS	26.402	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Additional decoder tools	S4	Yes
TS	26.403	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Encoder specification; Advanced Audio Coding (AAC) part	S4	Yes
TS	26.404	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Encoder specification; Spectral Band Replication (SBR) part	S4	Yes
TS	26.405	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Encoder specification; Parametric stereo part	S4	Yes
TS	26.406	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Conformance testing	S4	Yes
TS	26.410	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Floating-point ANSI-C code	S4	Yes
TS	26.411	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Fixed-point ANSI-C code	S4	Yes
TS	26.412	General audio codec audio processing functions; Source code for 3GP file format	S4	Yes
TS	27.060	Packet domain; Mobile Station (MS) supporting Packet Switched services	C3	Yes
TS	29.108	Application of the Radio Access Network Application Part (RANAP) on the E-interface	R3	Yes
TS	29.109	Generic Authentication Architecture (GAA); Zh and Zn Interfaces based on the Diameter protocol; Stage 3	C4	Yes
TS	29.118	Mobility Management Entity (MME) - Visitor Location Register (VLR) SGs interface specification	C1	Yes
TS	29.161	Interworking between the Public Land Mobile Network (PLMN) supporting packet based services with Wireless Local Area Network (WLAN) access and Packet data Networks (PDNs)	C3	Yes
TS	29.162	Interworking between the IM CN subsystem and IP networks	C3	Yes
TS	29.163	Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks	C3	Yes
TS	29.164	Interworking between the 3GPP Cs domain with BICC or ISUP as signalling	C3	Yes

Type	Number	Title	Group	For publication?
		protocol and external SIP-I networks		
TS	29.165	Inter-IMS Network to Network Interface (NNI)	C3	Yes
TS	29.168	Cell Broadcast Centre interfaces with the Evolved Packet Core; Stage 3	C4	Yes
TS	29.212	Policy and charging control over Gx reference point	C3	Yes
TS	29.213	Policy and charging control signalling flows and Quality of Service (QoS) parameter mapping	C3	Yes
TS	29.214	Policy and charging control over Rx reference point	C3	Yes
TS	29.215	Policy and Charging Control (PCC) over S9 reference point	C3	Yes
TS	29.228	IP Multimedia (IM) Subsystem Cx and Dx Interfaces; Signalling flows and message contents	C4	Yes
TS	29.229	Cx and Dx interfaces based on the Diameter protocol; Protocol details	C4	Yes
TS	29.230	Diameter applications; 3GPP specific codes and identifiers	C4	Yes
TS	29.234	3GPP system to Wireless Local Area Network (WLAN) interworking; Stage 3	C4	Yes
TS	29.235	Interworking between SIP-I based circuit-switched core network and other networks	C3	Yes
TS	29.240	3GPP Generic User Profile (GUP); Stage 3; Network	C4	Yes
TS	29.272	Evolved Packet System (EPS); Mobility Management Entity (MME) and Serving GPRS Support Node (SGSN) related interfaces based on Diameter protocol	C4	Yes
TS	29.273	Evolved Packet System (EPS); 3GPP EPS AAA interfaces	C4	Yes
TS	29.274	3GPP Evolved Packet System (EPS); Evolved General Packet Radio Service (GPRS) Tunnelling Protocol for Control plane (GTPv2-C); Stage 3	C4	Yes
TS	29.275	Proxy Mobile IPv6 (PMIPv6) based Mobility and Tunnelling protocols; Stage 3	C4	Yes
TS	29.276	Optimized Handover Procedures and Protocols between EUTRAN Access and cdma2000 HRPD Access	C4	Yes
TS	29.277	Optimized Handover Procedures and Protocols between EUTRAN Access and 1xRTT Access	C4	Yes
TS	29.279	Mobile IPv4 (MIPv4) based Mobility protocols; Stage 3	C4	Yes
TS	29.280	Evolved Packet System (EPS); 3GPP Sv interface (MME to MSC, and SGSN to MSC) for SRVCC	C4	Yes
TS	29.281	General Packet Radio System (GPRS) Tunnelling Protocol User Plane (GTPv1-U)	C4	Yes
TS	29.282	Mobile IPv6 vendor specific option format and usage within 3GPP	C4	Yes
TS	29.292	Mobile Radio Interface NAS signalling - SIP translation/conversion	C3	Yes
TS	29.303	Domain Name System Procedures; Stage 3	C4	Yes
TS	29.304	Mobile IPv4 (MIPv4) based Mobility protocols; Stage 3	S4	Yes
TS	29.305	InterWorking Function (IWF) between MAP based and Diameter based interfaces	C4	Yes
TS	29.311	Service Level Interworking for Messaging Services	C3	Yes
TS	29.328	IP Multimedia Subsystem (IMS) Sh interface; Signalling flows and message contents	C4	Yes
TS	29.329	Sh interface based on the Diameter protocol; Protocol details	C4	Yes
TS	29.364	IP Multimedia Subsystem (IMS) Application Server (AS) service data descriptions for AS interoperability	C4	Yes
TS	29.414	Core network Nb data transport and transport signalling	C3	Yes
TS	29.415	Core network Nb interface user plane protocols	C3	Yes
TR	30.531	Work Plan and Working Procedures - RAN WG3	R3	No
TS	31.101	UICC-terminal interface; Physical and logical characteristics	C6	Yes
TS	31.102	Characteristics of the Universal Subscriber Identity Module (USIM) application	C6	Yes
TS	31.103	Characteristics of the IP Multimedia Services Identity Module (ISIM) application	C6	Yes
TS	31.111	Universal Subscriber Identity Module (USIM) Application Toolkit (USAT)	C6	Yes
TS	31.112	Universal Subscriber Identity Module Application Toolkit (USAT) interpreter architecture description	C6	Yes
TS	31.113	Universal Subscriber Identity Module Application Toolkit (USAT) interpreter byte codes	C6	Yes
TS	31.114	Universal Subscriber Identity Module Application Toolkit (USAT) interpreter protocol and administration	C6	Yes

Type	Number	Title	Group	For publication?
TS	31.115	Secured packet structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	C6	Yes
TS	31.116	Remote APDU Structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	C6	Yes
TS	31.120	UICC-terminal interface; Physical, electrical and logical test specification	C6	Yes
TS	31.121	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	C6	Yes
TS	31.122	Universal Subscriber Identity Module (USIM) conformance test specification	C6	Yes
TS	31.124	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	C6	Yes
TS	31.130	(U)SIM Application Programming Interface (API); (U)SIM API for Java Card	C6	Yes
TS	31.131	C-language binding for (Universal) Subscriber Identity Module ((U)SIM) API	C6	Yes
TS	31.133	IP Multimedia Services Identity Module (ISIM) Application Programming Interface (API); ISIM API for Java Card™	C6	Yes
TS	31.213	Test specification for subscriber (U)SIM; Application Programming Interface (API) for Java Card™	C6	Yes
TS	31.220	Characteristics of the Contact Manager for 3GPP UICC applications	C6	Yes
TS	31.221	Contact Manager Application Programming Interface (API); Contact Manager API for Java Card	C6	Yes
TS	31.320	Contact Manager for 3GPP UICC applications test specifications	C6	Yes
TS	31.321	Contact Manager API for Java™ Card test specification	C6	Yes
TS	32.251	Telecommunication management; Charging management; Packet Switched (PS) domain charging	S5	Yes
TS	32.406	Telecommunication management; Performance Management (PM); Performance measurements Core Network (CN) Packet Switched (PS) domain	S5	Yes
TS	32.425	Telecommunication management; Performance Management (PM); Performance measurements Evolved Universal Terrestrial Radio Access Network (E-UTRAN)	S5	Yes
TS	32.450	Telecommunication management; Key Performance Indicators (KPI) for Evolved Universal Terrestrial Radio Access Network (E-UTRAN): Definitions	S5	Yes
TS	32.451	Telecommunication management; Key Performance Indicators (KPI) for Evolved Universal Terrestrial Radio Access Network (E-UTRAN): Requirements	S5	Yes
TS	32.761	Telecommunication management; Evolved Universal Terrestrial Radio Access Network (E-UTRAN) Network Resource Model (NRM) Integration Reference Point (IRP); Requirements	S5	Yes
TS	32.762	Telecommunication management; Evolved Universal Terrestrial Radio Access Network (E-UTRAN) Network Resource Model (NRM) Integration Reference Point (IRP): Information Service (IS)	S5	Yes
TS	32.763	Telecommunication management; Evolved Universal Terrestrial Radio Access Network (E-UTRAN) Network Resource Model (NRM) Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes
TS	32.765	Telecommunication management; Evolved Universal Terrestrial Radio Access Network (E-UTRAN) Network Resource Model (NRM) Integration Reference Point (IRP): Bulk CM eXtensible Markup Language (XML) file format definition	S5	Yes
TS	33.102	3G security; Security architecture	S3	Yes
TS	33.105	Cryptographic algorithm requirements	S3	Yes
TS	33.106	Lawful interception requirements	S3	Yes
TS	33.107	3G security; Lawful interception architecture and functions	S3	Yes
TS	33.108	3G security; Handover interface for Lawful Interception (LI)	S3	Yes
TS	33.110	Key establishment between a UICC and a terminal	S3	Yes
TS	33.141	Presence service; Security	S3	Yes
TS	33.178	Security aspects of early IP Multimedia Subsystem (IMS)	S3	Yes
TS	33.203	3G security; Access security for IP-based services	S3	Yes
TS	33.204	3G Security; Network Domain Security (NDS); Transaction Capabilities Application Part (TCAP) user security	S3	Yes
TS	33.210	3G security; Network Domain Security (NDS); IP network layer security	S3	Yes
TS	33.220	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	S3	Yes

Type	Number	Title	Group	For publication?
TS	33.221	Generic Authentication Architecture (GAA); Support for subscriber certificates	S3	Yes
TS	33.222	Generic Authentication Architecture (GAA); Access to network application functions using Hypertext Transfer Protocol over Transport Layer Security (HTTPS)	S3	Yes
TS	33.223	Generic Authentication Architecture (GAA); Generic Bootstrapping Architecture (GBA) Push function	S3	Yes
TS	33.224	Generic Authentication Architecture (GAA); Generic push layer	S3	Yes
TS	33.234	3G security; Wireless Local Area Network (WLAN) interworking security	S3	Yes
TS	33.246	3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS)	S3	Yes
TS	33.259	Key establishment between a UICC hosting device and a remote device	S3	Yes
TS	33.310	Network Domain Security (NDS); Authentication Framework (AF)	S3	Yes
TS	33.401	3GPP System Architecture Evolution (SAE); Security architecture	S3	Yes
TS	33.402	3GPP System Architecture Evolution (SAE); Security aspects of non-3GPP accesses	S3	Yes
TS	34.108	Common test environments for User Equipment (UE); Conformance testing	R5	Yes
TS	34.114	User Equipment (UE) / Mobile Station (MS) Over The Air (OTA) antenna performance; Conformance testing	R5	Yes
TS	35.201	Specification of the 3GPP confidentiality and integrity algorithms; Document 1: f8 and f9 specification	S3	Yes
TS	35.202	Specification of the 3GPP confidentiality and integrity algorithms; Document 2: Kasumi specification	S3	Yes
TS	35.203	Specification of the 3GPP confidentiality and integrity algorithms; Document 3: Implementors' test data	S3	Yes
TS	35.204	Specification of the 3GPP confidentiality and integrity algorithms; Document 4: Design conformance test data	S3	Yes
TS	35.205	3G Security; Specification of the MILENAGE algorithm set: An example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 1: General	S3	Yes
TS	35.206	3G Security; Specification of the MILENAGE algorithm set: An example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 2: Algorithm specification	S3	Yes
TS	35.207	3G Security; Specification of the MILENAGE algorithm set: An example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 3: Implementors' test data	S3	Yes
TS	35.208	3G Security; Specification of the MILENAGE algorithm set: An example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 4: Design conformance test data	S3	Yes
TS	35.215	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 1: UEA2 and UIA2 specifications	S3	Yes
TS	35.216	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 2: SNOW 3G specification	S3	Yes
TS	35.217	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 3: Implementors' test data	S3	Yes
TS	35.218	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 4: Design conformance test data	S3	Yes
TS	36.101	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception	R4	Yes
TS	36.104	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception	R4	Yes
TS	36.106	Evolved Universal Terrestrial Radio Access (E-UTRA); FDD repeater radio transmission and reception	R4	Yes
TS	36.113	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) and repeater ElectroMagnetic Compatibility (EMC)	R4	Yes
TS	36.124	Evolved Universal Terrestrial Radio Access (E-UTRA); Electromagnetic compatibility (EMC) requirements for mobile terminals and ancillary equipment	R4	Yes
TS	36.133	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management	R4	Yes

Type	Number	Title	Group	For publication?
TS	36.141	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing	R4	Yes
TS	36.143	Evolved Universal Terrestrial Radio Access (E-UTRA); FDD epeater conformance testing	R4	Yes
TS	36.201	Evolved Universal Terrestrial Radio Access (E-UTRA); Long Term Evolution (LTE) physical layer; General description	R1	Yes
TS	36.211	Evolved Universal Terrestrial Radio Access (E-UTRA); Physical channels and modulation	R1	Yes
TS	36.212	Evolved Universal Terrestrial Radio Access (E-UTRA); Multiplexing and channel coding	R1	Yes
TS	36.213	Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer procedures	R1	Yes
TS	36.214	Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer - Measurements	R1	Yes
TS	36.300	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Overall description; Stage 2	R2	Yes
TS	36.302	Evolved Universal Terrestrial Radio Access (E-UTRA); Services provided by the physical layer	R2	Yes
TS	36.304	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) procedures in idle mode	R2	Yes
TS	36.306	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio access capabilities	R2	Yes
TS	36.314	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Layer 2 - Measurements	R2	Yes
TS	36.321	Evolved Universal Terrestrial Radio Access (E-UTRA); Medium Access Control (MAC) protocol specification	R2	Yes
TS	36.322	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Link Control (RLC) protocol specification	R2	Yes
TS	36.323	Evolved Universal Terrestrial Radio Access (E-UTRA); Packet Data Convergence Protocol (PDCP) specification	R2	Yes
TS	36.331	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification	R2	Yes
TS	36.401	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Architecture description	R3	Yes
TS	36.410	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 layer 1 general aspects and principles	R3	Yes
TS	36.411	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 layer 1	R3	Yes
TS	36.412	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 signalling transport	R3	Yes
TS	36.413	Evolved Universal Terrestrial Radio Access (E-UTRA) ; S1 Application Protocol (S1AP)	R3	Yes
TS	36.414	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 data transport	R3	Yes
TS	36.420	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 general aspects and principles	R3	Yes
TS	36.421	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 layer 1	R3	Yes
TS	36.422	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 signalling transport	R3	Yes
TS	36.423	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 Application Protocol (X2AP)	R3	Yes
TS	36.424	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 data transport	R3	Yes
TS	36.444	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); M3 Application Protocol (M3AP)	R3	Yes
TS	36.445	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); M1 Data Transport	R3	Yes
TS	36.446	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); M1 User Plane protocol	R3	Yes

Type	Number	Title	Group	For publication?
TS	36.508	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Common test environments for User Equipment (UE) conformance testing	R5	Yes
TS	36.509	Evolved Universal Terrestrial Radio Access (E-UTRA); Special conformance testing function for User Equipment (UE)	R5	Yes
TS	36.521-1	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing	R5	Yes
TS	36.521-2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Implementation Conformance Statement (ICS)	R5	Yes
TS	36.521-3	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Radio Resource Management (RRM) conformance testing	R5	Yes
TS	36.523-1	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	R5	Yes
TS	36.523-2	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 2: ICS	R5	Yes
TS	36.523-3	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 3: Test suites	R5	Yes

Table is based on query " 2003-09-03_LTE_specs_list_rel-x__21-201" in the 3GPP Specifications Status database.

Annex A (informative): Change history

Change history							
Date	**TSG #**	**TSG Doc.**	**CR**	**Rev**	**Subject/Comment**	**Old**	**New**
2008-03					First draft based on SA1 request to SP-38, refined at SP-39. Spec list based on Specification Manager's whim.		0.0.0
2008-05					Rapporter's revision	0.0.0	0.1.0
2008-12	SP-42	SP-080723			Rapporter's revision prior to upgrading of specs to Rel-8 following Release freeze.	0.1.0	0.2.0
2009-01					Further rapporteur revision in the light of feedback	0.2.0	0.3.0
2009-03	CP-43 RP-43	CP-080927 RP-081048			Submission for review	0.3.0	1.0.0
2009-03	SP-43	SP-090034			Clean up of §3. To SA for information.	1.0.0	1.0.1
2009-03	SP-43	SP-090224			Major revision following clarification of scope, restricting the TS to a list of normative elements specific to EPS.	1.0.1	2.0.0
2009-03	SP-43				Approved	2.0.0	8.0.0

History

Document history		
V8.0.0	March 2009	Publication