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**enhancements for Evolved Universal Terrestrial**  
**Radio Access Network (E-UTRAN) access**  
**(3GPP TS 23.401 version 13.14.0 Release 13)**

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# Contents

Intellectual Property Rights .....	2
Legal Notice .....	2
Modal verbs terminology.....	2
Foreword.....	11
1 Scope .....	12
2 References .....	12
3 Definitions and abbreviations.....	15
3.1 Definitions .....	15
3.2 Abbreviations .....	16
4 Architecture model and concepts .....	18
4.1 General concepts .....	18
4.2 Architecture reference model .....	18
4.2.1 Non-roaming architecture .....	18
4.2.2 Roaming architecture .....	19
4.2.3 Reference points .....	21
4.2.4 Warning System architecture .....	22
4.3 High level functions .....	22
4.3.1 General.....	22
4.3.2 Network access control functions .....	23
4.3.2.1 General .....	23
4.3.2.2 Network/Access network selection .....	23
4.3.2.3 Authentication and authorisation function .....	23
4.3.2.4 Admission control function .....	23
4.3.2.5 Policy and Charging Enforcement Function .....	23
4.3.2.6 Lawful Interception .....	23
4.3.2a Support for Dual Connectivity.....	23
4.3.3 Packet routing and transfer functions.....	24
4.3.3.1 General .....	24
4.3.3.2 IP header compression function .....	24
4.3.3.3 Packet screening function .....	25
4.3.3.4 IP Multicast Forwarding between a network accessed by LIPA and a UE .....	25
4.3.4 Security functions .....	25
4.3.5 Mobility management functions .....	25
4.3.5.1 General .....	25
4.3.5.2 Reachability Management for UE in ECM-IDLE state.....	25
4.3.5.3 Tracking Area list management .....	26
4.3.5.4 Inter-eNodeB mobility anchor function .....	27
4.3.5.5 Inter-3GPP mobility anchor function .....	27
4.3.5.6 Idle mode signalling reduction function.....	27
4.3.5.7 Mobility Restrictions.....	29
4.3.5.8 IMS voice over PS Session Supported Indication.....	29
4.3.5.8A Homogenous Support of IMS Voice over PS Sessions Indication.....	29
4.3.5.9 Voice domain preference and UE's usage setting.....	30
4.3.5.10 Preferred and Supported Network Behaviour .....	30
4.3.6 Radio Resource Management functions .....	31
4.3.7 Network management functions .....	32
4.3.7.1 General .....	32
4.3.7.1a GTP-C signalling based Load and Overload Control.....	32
4.3.7.1a.1 GTP-C Load Control .....	32
4.3.7.1a.2 GTP-C Overload Control.....	33
4.3.7.2 Load balancing between MMEs.....	34
4.3.7.3 Load re-balancing between MMEs .....	34
4.3.7.4 MME control of overload.....	36
4.3.7.4.1 General .....	36

4.3.7.4.1a	Throttling of Downlink Data Notification Requests.....	37
4.3.7.4.1b	Throttling of NIDD Submit Requests.....	37
4.3.7.4.2	NAS level congestion control.....	38
4.3.7.5	PDN GW control of overload.....	42
4.3.8	Selection functions.....	42
4.3.8.1	PDN GW selection function (3GPP accesses).....	42
4.3.8.2	Serving GW selection function.....	44
4.3.8.3	MME selection function.....	45
4.3.8.4	SGSN selection function.....	46
4.3.8.5	Selection of PCRF.....	46
4.3.9	IP network related functions.....	47
4.3.9.1	Domain Name Service function.....	47
4.3.9.2	DHCP function.....	47
4.3.9.3	Explicit Congestion Notification.....	47
4.3.10	Functionality for Connection of eNodeBs to Multiple MMEs.....	47
4.3.11	E-UTRAN Sharing Function.....	47
4.3.12	IMS Emergency Session Support.....	48
4.3.12.1	Introduction.....	48
4.3.12.2	Architecture Reference Model for Emergency Services.....	49
4.3.12.3	Mobility and Access Restrictions for Emergency Services.....	49
4.3.12.3a	Reachability Management for UE in ECM-IDLE state.....	49
4.3.12.4	PDN GW selection function (3GPP accesses) for Emergency Services.....	50
4.3.12.5	QoS for Emergency Services.....	50
4.3.12.6	PCC for Emergency Services.....	50
4.3.12.7	Load re-balancing between MMEs for Emergency Services.....	50
4.3.12.8	IP Address Allocation.....	51
4.3.12.9	Handling of PDN Connections for Emergency Bearer Services.....	51
4.3.12.10	ISR function for Emergency Bearer Services.....	51
4.3.13	Closed Subscriber Group functions.....	51
4.3.14	Location Service functions.....	51
4.3.15	Selected IP Traffic Offload (SIPTO) function.....	52
4.3.15a	Selected IP Traffic Offload (SIPTO) at the Local Network.....	52
4.3.15a.1	General.....	52
4.3.15a.2	SIPTO at the Local Network with stand-alone GW (with S-GW and L-GW collocated) function.....	53
4.3.15a.3	SIPTO at the Local Network with L-GW function collocated with the (H)eNB.....	54
4.3.16	Local IP Access (LIPA) function.....	54
4.3.17	Support for Machine Type Communications (MTC).....	55
4.3.17.1	General.....	55
4.3.17.2	Overview of protection from Potential MTC Related Overload.....	55
4.3.17.3	Optimizing periodic TAU Signalling.....	57
4.3.17.4	UE configuration and usage of indicators.....	57
4.3.17.5	Void.....	59
4.3.17.6	Support of UEs configured for low access priority, Extended Access Barring and permission for override.....	59
4.3.17.7	High latency communication.....	59
4.3.17.8	Support for Non-IP Data Delivery (NIDD).....	60
4.3.17.8.1	General.....	60
4.3.17.8.2	ESM Procedures.....	60
4.3.17.8.3	Delivery mechanism.....	60
4.3.18	Multimedia Priority Service.....	62
4.3.18.1	General.....	62
4.3.18.2	IMS-based Multimedia Priority Services.....	63
4.3.18.2.1	Originating IMS-based MPS Session.....	63
4.3.18.2.2	Terminating IMS-based MPS Session.....	63
4.3.18.3	Priority EPS Bearer Services.....	63
4.3.18.4	CS fallback.....	64
4.3.18.5	Network Congestion Controls for MPS.....	64
4.3.18.6	Load Re-balancing between MMEs for MPS.....	64
4.3.19	Core Network node resolution.....	64
4.3.19.1	General.....	64
4.3.19.2	MSB in LAC and MME Group ID.....	64
4.3.19.3	Explicit Indication.....	64

4.3.20	Relaying function.....	65
4.3.20.1	General.....	65
4.3.20.2	RN startup and attach procedure.....	65
4.3.20.2.1	General.....	65
4.3.20.2.2	Attach for RN preconfiguration.....	66
4.3.20.2.3	Attach for RN operation.....	66
4.3.20.3	DeNB E-RAB activation/modification.....	67
4.3.21	Core Network assisted eNodeB parameters tuning.....	68
4.3.21.1	CN Assistance Information.....	68
4.3.21.2	Void.....	68
4.3.21.3	Core Network Assistance Procedures.....	68
4.3.22	UE Power Saving Mode.....	69
4.3.23	Access network selection and traffic steering based on RAN-assisted WLAN interworking.....	70
4.3.23a	Access network selection and traffic steering based on RAN-Controlled WLAN interworking.....	71
4.3.24	RAN user plane congestion management function.....	71
4.3.24.1	General.....	71
4.3.24.2	RAN user plane congestion mitigation in the RAN.....	71
4.3.24.3	RAN user plane congestion mitigation in the CN.....	71
4.3.25	Dedicated Core Networks (DCNs).....	72
4.3.25.1	General.....	72
4.3.25.2	Considerations for Roaming.....	73
4.3.25.3	Considerations for Network Sharing.....	73
4.3.26	Support for Monitoring Events.....	74
4.3.27	Paging Enhancements.....	74
4.3.27.1	Paging for Enhanced Coverage.....	74
4.3.27a	Restriction of use of Enhanced Coverage for voice centric UE.....	74
4.4	Network elements.....	74
4.4.1	E-UTRAN.....	74
4.4.2	MME.....	74
4.4.3	Gateway.....	75
4.4.3.1	General.....	75
4.4.3.2	Serving GW.....	76
4.4.3.3	PDN GW.....	76
4.4.4	SGSN.....	77
4.4.5	GERAN.....	77
4.4.6	UTRAN.....	78
4.4.7	PCRF.....	78
4.4.7.1	General.....	78
4.4.7.2	Home PCRF (H-PCRF).....	78
4.4.7.3	Visited PCRF (V-PCRF).....	78
4.4.8	PDN GW's associated AAA Server.....	78
4.4.9	HeNB subsystem.....	78
4.4.10	DeNB.....	79
4.4.11	CSG Subscriber Server.....	80
4.4.12	RAN Congestion Awareness Function.....	80
4.5	Void.....	81
4.6	EPS Mobility Management and Connection Management states.....	81
4.6.1	General.....	81
4.6.2	Definition of main EPS Mobility Management states.....	81
4.6.2.1	EMM-DEREGISTERED.....	81
4.6.2.2	EMM-REGISTERED.....	81
4.6.3	Definition of EPS Connection Management states.....	82
4.6.3.1	ECM-IDLE.....	82
4.6.3.2	ECM-CONNECTED.....	83
4.6.4	State transition and functions.....	83
4.7	Overall QoS concept.....	84
4.7.1	PDN connectivity service.....	84
4.7.2	The EPS bearer.....	85
4.7.2.1	The EPS bearer in general.....	85
4.7.2.2	The EPS bearer with GTP-based S5/S8.....	87
4.7.2.3	The EPS bearer with PMIP-based S5/S8.....	88
4.7.3	Bearer level QoS parameters.....	88

4.7.4	Support for Application / Service Layer Rate Adaptation .....	90
4.7.5	Application of PCC in the Evolved Packet System .....	90
4.7.6	Bearer Control Mode in EPC .....	91
4.7.7	Support of rate control of user data using CIoT EPS optimisation .....	91
4.7.7.1	General .....	91
4.7.7.2	Serving PLMN Rate Control .....	91
4.7.7.3	APN Rate Control .....	92
4.8	Compatibility Issues .....	92
4.8.1	Network Configuration for Interaction with UTRAN/GERAN .....	92
4.9	Paging Policy Differentiation .....	93
4.10	Introduction of CIoT EPS Optimisations .....	93
4.11	User Plane CIoT EPS Optimization .....	94
5	Functional description and information flows .....	94
5.1	Control and user planes .....	94
5.1.0	General .....	94
5.1.1	Control Plane .....	95
5.1.1.1	General .....	95
5.1.1.2	eNodeB - MME .....	95
5.1.1.3	UE - MME .....	96
5.1.1.4	SGSN - MME .....	96
5.1.1.5	SGSN - S-GW .....	97
5.1.1.6	S-GW - P-GW .....	97
5.1.1.7	MME - MME .....	98
5.1.1.8	MME - S-GW .....	98
5.1.1.9	MME - HSS .....	99
5.1.1.10	MME - EIR .....	99
5.1.1.11	Void .....	99
5.1.1.12	MME - CSS .....	100
5.1.1.13	MME - RCAF .....	100
5.1.2	User Plane .....	101
5.1.2.1	UE - P-GW user plane with E-UTRAN .....	101
5.1.2.2	eNodeB - S-GW .....	101
5.1.2.3	UE - PDN GW user plane with 2G access via the S4 interface .....	102
5.1.2.4	UE - PDN GW user plane with 3G access via the S12 interface .....	103
5.1.2.5	UE - PDN GW user plane with 3G access via the S4 interface .....	104
5.1.2.6	UE - P-GW user plane with Control Plane CIoT Optimisations .....	105
5.2	Identities .....	105
5.2.1	EPS bearer identity .....	105
5.2.2	Globally Unique Temporary UE Identity .....	105
5.2.3	Tracking Area Identity (TAI) .....	106
5.2.4	eNodeB S1-AP UE Identity (eNodeB S1-AP UE ID) .....	106
5.2.5	MME S1-AP UE Identity (MME S1-AP UE ID) .....	106
5.2.6	Closed Subscriber Group ID .....	106
5.3	Authentication, security and location management .....	106
5.3.1	IP address allocation .....	106
5.3.1.1	General .....	106
5.3.1.2	IP address allocation, renewal and release mechanisms for GTP based S5/S8 .....	109
5.3.1.2.1	IPv4 address allocation via default bearer activation and release via PDN connection release .....	109
5.3.1.2.2	Allocation, renewal and release of the IPv6 default prefix via IPv6 stateless address autoconfiguration .....	109
5.3.1.2.3	IPv6 parameter configuration via stateless DHCPv6 .....	110
5.3.1.2.4	IPv4 address allocation, renewal and release and IPv4 parameter configuration via DHCPv4 .....	110
5.3.1.2.5	Void .....	111
5.3.1.2.6	IPv6 Prefix Delegation via DHCPv6 .....	111
5.3.2	Attach procedure .....	111
5.3.2.1	E-UTRAN Initial Attach .....	111
5.3.2.2	UTRAN/GERAN Initial Attach .....	125
5.3.3	Tracking Area Update procedures .....	125
5.3.3.0	Triggers for tracking area update .....	125
5.3.3.0A	Provision of UE's TAI to MME in ECM-CONNECTED state .....	127
5.3.3.1	Tracking Area Update procedure with Serving GW change .....	128

5.3.3.1A	Tracking Area Update procedure with Serving GW change and data forwarding .....	136
5.3.3.2	E-UTRAN Tracking Area Update without S-GW Change .....	138
5.3.3.3	Routing Area Update with MME interaction and without S-GW change .....	146
5.3.3.4	Void.....	153
5.3.3.5	Void.....	153
5.3.3.6	Routing Area Update with MME interaction and with S-GW change .....	153
5.3.4	Service Request procedures .....	160
5.3.4.1	UE triggered Service Request .....	160
5.3.4.2	Handling of abnormal conditions in UE triggered Service Request.....	163
5.3.4.3	Network Triggered Service Request .....	164
5.3.4A	Connection Suspend procedure.....	169
5.3.4B	Data Transport in Control Plane CIoT EPS optimisation .....	170
5.3.4B.1	General .....	170
5.3.4B.2	Mobile Originated Data Transport in Control Plane CIoT EPS optimisation with P-GW connectivity .....	171
5.3.4B.3	Mobile Terminated Data Transport in Control Plane CIoT EPS optimisation with P-GW connectivity .....	174
5.3.4B.4	Establishment of S1-U bearer during Data Transport in Control Plane CIoT EPS optimisation .....	179
5.3.5	S1 release procedure .....	181
5.3.5A	Connection Resume procedure .....	182
5.3.6	Void .....	184
5.3.6A	PDN GW Pause of Charging procedure .....	184
5.3.7	GUTI Reallocation procedure.....	186
5.3.8	Detach procedure .....	186
5.3.8.1	General .....	186
5.3.8.2	UE-initiated Detach procedure.....	187
5.3.8.2.1	UE-initiated Detach procedure for E-UTRAN .....	187
5.3.8.2.2	UE-initiated Detach procedure for GERAN/UTRAN with ISR activated.....	188
5.3.8.3	MME-initiated Detach procedure.....	190
5.3.8.3A	SGSN-initiated Detach procedure with ISR activated.....	192
5.3.8.4	HSS-initiated Detach procedure.....	193
5.3.9	HSS User Profile management function procedure .....	195
5.3.9.1	General .....	195
5.3.9.2	Insert Subscriber Data procedure .....	195
5.3.9.3	Purge function .....	196
5.3.10	Security Function.....	196
5.3.10.1	General .....	196
5.3.10.2	Authentication and Key Agreement.....	197
5.3.10.3	User Identity Confidentiality.....	197
5.3.10.4	User Data and Signalling Confidentiality .....	197
5.3.10.4.1	AS security mode command procedure .....	197
5.3.10.4.2	NAS Security Mode Command procedure .....	197
5.3.10.5	ME identity check procedure .....	198
5.3.11	UE Reachability procedures .....	198
5.3.11.1	General .....	198
5.3.11.2	UE Reachability Notification Request procedure .....	198
5.3.11.3	UE Activity Notification procedure .....	199
5.3.12	Update CSG Location Procedure.....	199
5.3.13	CSS subscription data management function procedure.....	200
5.3.13.1	General .....	200
5.3.13.2	Insert CSG Subscriber Data procedure .....	200
5.3.14	UE Radio Capability Match Request .....	200
5.4	Session Management, QoS and interaction with PCC functionality .....	202
5.4.1	Dedicated bearer activation.....	202
5.4.2	Bearer modification with bearer QoS update.....	204
5.4.2.1	PDN GW initiated bearer modification with bearer QoS update.....	204
5.4.2.2	HSS Initiated Subscribed QoS Modification.....	206
5.4.3	PDN GW initiated bearer modification without bearer QoS update.....	208
5.4.4	Bearer deactivation .....	210
5.4.4.1	PDN GW initiated bearer deactivation.....	210
5.4.4.2	MME Initiated Dedicated Bearer Deactivation.....	214
5.4.5	UE requested bearer resource modification .....	215



5.4.6	Void .....	217
5.4.7	E-UTRAN initiated E-RAB modification procedure .....	217
5.4.8	E-UTRAN initiated UE Context Modification procedure .....	219
5.5	Handover .....	219
5.5.1	Intra-E-UTRAN handover .....	220
5.5.1.1	X2-based handover .....	220
5.5.1.1.1	General .....	220
5.5.1.1.2	X2-based handover without Serving GW relocation .....	220
5.5.1.1.3	X2-based handover with Serving GW relocation .....	223
5.5.1.2	S1-based handover .....	225
5.5.1.2.1	General .....	225
5.5.1.2.2	S1-based handover, normal .....	226
5.5.1.2.3	S1-based handover, Reject .....	232
5.5.1.2.4	S1-based handover, Cancel .....	233
5.5.2	Inter RAT handover .....	233
5.5.2.0	General .....	233
5.5.2.1	E-UTRAN to UTRAN Iu mode Inter RAT handover .....	234
5.5.2.1.1	General .....	234
5.5.2.1.2	Preparation phase .....	234
5.5.2.1.3	Execution phase .....	238
5.5.2.1.4	E-UTRAN to UTRAN Iu mode Inter RAT handover Reject .....	241
5.5.2.2	UTRAN Iu mode to E-UTRAN Inter RAT handover .....	241
5.5.2.2.1	General .....	241
5.5.2.2.2	Preparation phase .....	242
5.5.2.2.3	Execution phase .....	245
5.5.2.2.4	UTRAN Iu mode to E-UTRAN Inter RAT handover reject .....	248
5.5.2.3	E-UTRAN to GERAN A/Gb mode Inter RAT handover .....	248
5.5.2.3.1	General .....	248
5.5.2.3.2	Preparation phase .....	249
5.5.2.3.3	Execution phase .....	253
5.5.2.3.4	E-UTRAN to GERAN A/Gb mode Inter RAT handover reject .....	256
5.5.2.4	GERAN A/Gb mode to E-UTRAN Inter RAT handover .....	257
5.5.2.4.1	General .....	257
5.5.2.4.2	Preparation phase .....	258
5.5.2.4.3	Execution phase .....	261
5.5.2.4.4	GERAN A/Gb mode to E-UTRAN Inter RAT handover reject .....	263
5.5.2.5	Inter RAT handover Cancel .....	264
5.5.2.5.1	General .....	264
5.5.2.5.2	Source RAN to Target RAN Inter RAT handover Cancel .....	265
5.6	Network Assisted Cell Change .....	266
5.6.1	Architecture Principles for E-UTRAN to GERAN NACC .....	266
5.6.2	Void .....	267
5.7	Information storage .....	267
5.7.1	HSS .....	268
5.7.2	MME .....	272
5.7.3	Serving GW .....	276
5.7.4	PDN GW .....	279
5.7.5	UE .....	282
5.7.6	Handling of Wild Card APN .....	283
5.7.7	CSS .....	284
5.7A	Charging .....	284
5.8	MBMS .....	285
5.9	Interactions with other services .....	285
5.9.1	Location Reporting Procedure .....	285
5.9.2	Location Change Reporting Procedure .....	285
5.9.2.1	General .....	285
5.9.2.2	Reporting at Presence Reporting Area entering and leaving .....	288
5.9.3	IMSI and APN information retrieval procedure .....	288
5.10	Multiple-PDN support and PDN activation for UEs supporting "Attach without PDN connectivity" .....	289
5.10.1	General .....	289
5.10.2	UE requested PDN connectivity .....	289
5.10.3	UE or MME requested PDN disconnection .....	297

5.10.4	MME triggered Serving GW relocation.....	299
5.11	UE Capability Handling .....	300
5.11.1	General.....	300
5.11.2	UE Radio Capability Handling .....	300
5.11.3	UE Core Network Capability.....	302
5.11.4	UE Radio Capability for Paging Information .....	302
5.12	Warning message delivery .....	303
5.12.1	General.....	303
5.12.2	Void .....	303
5.12.3	Void .....	303
5.13	Discontinuous Reception and UE Specific DRX Parameter handling .....	303
5.13a	Extended Idle mode Discontinuous Reception (DRX).....	304
5.14	Configuration Transfer procedure .....	304
5.14.1	Architecture Principles for Configuration Transfer .....	304
5.14.2	Addressing, routing and relaying.....	305
5.14.2.1	Addressing .....	305
5.14.2.2	Routing.....	305
5.14.2.3	Relaying .....	306
5.14.2.4	Applications using the Configuration Transfer procedures.....	306
5.15	RAN Information Management (RIM) procedures .....	306
5.15.1	General.....	306
5.15.2	Addressing, routing and relaying.....	306
5.15.2.1	Addressing .....	306
5.15.2.2	Routing.....	306
5.15.2.3	Relaying .....	307
5.15.3	Applications using the RIM Procedures .....	307
5.16	MME-initiated procedure on UE's CSG membership change .....	307
5.17	Home eNodeB Multicast Packet Forwarding Function.....	307
5.18	HPLMN Notification with specific indication due to MME initiated Bearer removal.....	307
5.19	Procedures to support Dedicated Core Networks .....	308
5.19.1	NAS Message Redirection Procedure.....	308
5.19.2	Attach, TAU and RAU procedure for Dedicated Core Network .....	308
5.19.2a	Impacts to Handover Procedures .....	311
5.19.3	MME/SGSN or HSS initiated Dedicated Core Network Reselection.....	312
<b>Annex A (informative):</b>	<b>Void .....</b>	<b>314</b>
<b>Annex B (informative):</b>	<b>Void .....</b>	<b>315</b>
<b>Annex C (informative):</b>	<b>Void.....</b>	<b>316</b>
<b>Annex D (normative):</b>	<b>Interoperation with Gn/Gp SGSNs .....</b>	<b>317</b>
D.1	General Considerations .....	317
D.2	Interoperation Scenario .....	317
D.2.1	Roaming interoperation scenario.....	317
D.2.2	Non-roaming interoperation scenario.....	318
D.3	Interoperation procedures.....	318
D.3.1	General .....	318
D.3.2	Void.....	319
D.3.3	MME to 3G SGSN combined hard handover and SRNS relocation procedure .....	319
D.3.4	3G SGSN to MME combined hard handover and SRNS relocation procedure .....	324
D.3.5	Routing Area Update.....	330
D.3.6	Gn/Gp SGSN to MME Tracking Area Update.....	335
D.3.7	E-UTRAN to GERAN A/Gb mode Inter RAT handover.....	342
D.3.7.1	General.....	342
D.3.7.2	Preparation phase .....	343
D.3.7.3	Execution phase .....	346
D.3.8	GERAN A/Gb mode to E-UTRAN Inter RAT handover.....	348
D.3.8.1	General.....	348
D.3.8.2	Preparation phase .....	349

D.3.8.3	Execution phase .....	351
<b>Annex E (normative):</b>	<b>Mapping between EPS and Release 99 QoS parameters.....</b>	<b>354</b>
<b>Annex F (normative):</b>	<b>Dedicated bearer activation in combination with the default bearer activation at Attach and UE requested PDN connectivity procedures ...</b>	<b>357</b>
<b>Annex G (informative):</b>	<b>Void .....</b>	<b>360</b>
<b>Annex H (normative):</b>	<b>Mapping between temporary and area identities .....</b>	<b>361</b>
<b>Annex I (informative):</b>	<b>Guidance for contributors to this specification.....</b>	<b>362</b>
<b>Annex J (informative):</b>	<b>High Level ISR description .....</b>	<b>363</b>
J.1	General description of the ISR concept.....	363
J.2	Usage of the TIN .....	364
J.3	ISR activation.....	364
J.4	Downlink data transfer .....	365
J.5	ISR deactivation .....	366
J.6	Handling of special situations .....	366
<b>Annex K (informative):</b>	<b>Isolated E-UTRAN Operation for Public Safety.....</b>	<b>368</b>
K.1	General description of the IOPS concept .....	368
K.2	Operation of isolated public safety networks using a Local EPC .....	368
K.2.1	General Description.....	368
K.2.2	UE configuration .....	368
K.2.3	IOPS network configuration.....	369
K.2.4	IOPS network establishment/termination.....	369
K.2.5	UE mobility .....	372
<b>Annex L (Informative):</b>	<b>Optimized EPS Architecture option for CIoT .....</b>	<b>374</b>
L.1	Introduction .....	374
L.2	Non-Roaming Architecture .....	374
L.3	Roaming architecture .....	375
L.4	C-SGN.....	375
<b>Annex M (informative):</b>	<b>Functions and procedures over NB-IoT RAT .....</b>	<b>376</b>
<b>Annex N (informative):</b>	<b>Change history .....</b>	<b>379</b>
History .....		385

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# 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:

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# 1 Scope

The present document defines the Stage 2 service description for the Evolved 3GPP Packet Switched Domain - also known as the Evolved Packet System (EPS) in this document. The Evolved 3GPP Packet Switched Domain provides IP connectivity using the Evolved Universal Terrestrial Radio Access Network (E-UTRAN).

The specification covers both roaming and non-roaming scenarios and covers all aspects, including mobility between E-UTRAN and pre-E-UTRAN 3GPP radio access technologies, policy control and charging, and authentication.

The Radio Access Network functionality is documented only to the extent necessary to describe the overall system. TS 36.300 [5] contains the overall description of the Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN).

ITU-T Recommendation I.130 [3] describes a three-stage method for characterisation of telecommunication services, and ITU-T Recommendation Q.65 [4] defines Stage 2 of the method.

TS 23.402 [2] is a companion specification to this specification.

An Evolved Packet System architecture optimised for the support of Cellular IoT (Internet of Things) applications is also defined in this document.

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# 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".
- [2] 3GPP TS 23.402: "Architecture enhancements for non-3GPP accesses".
- [3] ITU-T Recommendation I.130: "Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN".
- [4] ITU-T Recommendation Q.65: "The unified functional methodology for the characterization of services and network capabilities".
- [5] 3GPP TS 36.300: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Overall description; Stage 2".
- [6] 3GPP TS 23.203: "Policy and charging control architecture".
- [7] 3GPP TS 23.060: "General Packet Radio Service (GPRS); Service description; Stage 2".
- [8] 3GPP TS 43.129: "Packet-switched handover for GERAN A/Gb mode; Stage 2".
- [9] 3GPP TS 23.003: "Numbering, addressing and identification".
- [10] 3GPP TS 23.122: "Non-Access-Stratum (NAS) functions related to Mobile Station in idle mode".
- [11] 3GPP TS 43.022: "Functions related to MS in idle mode and group receive mode".
- [12] 3GPP TS 25.304: "UE procedures in idle mode and procedures for cell re-selection in connected mode".