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**Universal Mobile Telecommunications System (UMTS);
Stage 2 functional specification of User Equipment (UE)
positioning in UTRAN
(3GPP TS 25.305 version 12.1.0 Release 12)**



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Contents

Intellectual Property Rights	2
Foreword.....	2
Modal verbs terminology.....	2
Foreword.....	6
1 Scope	7
2 References	7
2.1 Normative references	7
2.2 Informative references.....	8
3 Definitions and abbreviations.....	8
3.1 Definitions.....	8
3.2 Abbreviations	8
4 Main concepts and requirements.....	10
4.1 Assumptions	11
4.2 UE Positioning Methods	11
4.3 Standard UE Positioning Methods	11
4.3.1 Cell ID and Enhanced Cell ID Based Methods.....	12
4.3.2 OTDOA-IPDL Method with network configurable idle periods	12
4.3.3 Network-assisted GNSS Methods.....	12
4.3.4 U-TDOA Method.....	12
5 UTRAN UE Positioning Architecture.....	13
5.1 UE Positioning Operations.....	13
5.1.1 Co-ordination, Measurement and Calculation Functions.....	14
5.2 Functional Description of UTRAN UE Positioning related elements	15
5.2.1 Radio Network Controller (RNC).....	15
5.2.1.1 Serving RNC	15
5.2.1.1.1 RNC Centric Mode.....	15
5.2.1.1.2 SAS Centric Mode.....	15
5.2.1.2 Other RNC	16
5.2.1.2.1 Controlling RNC	16
5.2.1.2.2 Drift RNC.....	17
5.2.2 Node B.....	17
5.2.3 Location measurement unit (LMU)	17
5.2.4 User Equipment (UE)	18
5.2.5 Stand-alone SMLC	19
6 Signalling protocols and interfaces	19
6.1 LCS signalling between SRNC and MSC/SGSN	19
6.2 SRNC signalling to a target UE.....	19
6.3 Controlling RNC signalling to a standalone LMU	19
6.4 Controlling RNC signalling to an associated LMU.....	19
6.5 RNC-to-RNC signalling for UE Positioning support	19
6.5a SAS to RNC signalling for PCAP	20
6.6 Interfaces	20
6.6.1 Iu Interface.....	20
6.6.2 Iur Interface	20
6.6.2.1 Signalling between SRNC and DRNC.....	20
6.6.2.2 Signalling between SRNC and CRNC	20
6.6.3 Iub Interface.....	21
6.6.3.1 Signalling between CRNC and associated LMU	21
6.6.4 Uu Interface	21
6.6.4.1 Signalling between SRNC and Target UE	21
6.6.4.1.1 Assistance Data Delivery to UE	23

6.6.4.1.2	Error Handling.....	23
6.6.4.1.3	Broadcast of Assistance Data	23
6.6.4.1.4	Signalling Flow for Assistance Data Broadcast Using the Common UTRAN Broadcast Service	23
6.6.4.1.5	UE Positioning Assistance Data Ciphering	24
6.6.4.1.6	UE Positioning Assistance Data Ciphering Algorithm.....	24
6.6.4.2	Signalling between RNC and stand-alone LMU	25
6.6.5	Iupc Interface	26
6.6.5.1	Signalling between RNC and SAS.....	26
6.6.5.1.1	PCAP Position Calculation.....	26
6.6.5.1.2	PCAP Information Exchange	27
6.6.5.1.3	PCAP for SAS based Positioning Method Selection.....	28
7	General UTRAN UE Positioning procedures.....	29
7.1	General procedures in UTRAN for UE Positioning	29
7.2	Common procedures supporting UE Positioning interaction between RNCs	30
7.2.1	Signalling in case of SRNS relocation.....	30
7.3	Exception procedures	30
7.3.1	Procedures in the SRNC	30
7.3.1.1	RNC Centric Mode	30
7.3.1.2	SAS Centric Mode	31
7.3.2	Procedures in a LMU.....	32
7.3.3	Procedures in the target UE	32
7.3.4	Procedures in the SAS	32
7.3.4.1	RNC Centric Mode	32
7.3.4.2	SAS Centric Mode	32
7.4	Radio interface timing procedures.....	33
7.4.1	LMU Functions.....	33
7.4.2	CRNC Functions.....	33
7.4.3	LMU-CRNC Interactions	33
8	Cell ID and Enhanced Cell ID based positioning methods	34
8.1	Cell ID determination.....	37
8.1.1	UE Cell ID is not known.....	37
8.1.2	UE Cell ID is known.....	37
8.1.2.1	UE not in Soft handover.....	37
8.1.2.2	UE in Soft handover.....	37
8.2	Mapping the Cell ID to Geographic Co-ordinates or a Service Area.....	38
8.3	Enhanced Cell ID Methods	38
8.3.1	Cell-ID with RTT	39
8.3.2	Cell-ID with Pathloss and Related Measurements.....	39
8.3.2.1	RF Pattern Matching (RFPM).....	39
8.3.3	Cell-ID with Angle of Arrival.....	39
9	OTDOA positioning method	39
9.1	Use of Idle Periods	41
9.2	Relative Time Difference (RTD).....	41
9.3	Time of Day (ToD).....	42
9.4	Node B Synchronisation.....	42
9.5	OTDOA-IPDL and OTDOA Modes	42
9.5.1	Information to be transferred between UTRAN elements	42
9.6	OTDOA network positioning procedures.....	44
9.6.1	RNC based selection of OTDOA	44
9.6.2	SAS based selection of OTDOA.....	46
10	Network-assisted GPS positioning method	49
10.1	Timing calibration	50
10.2	Timing assistance	50
10.3	GPS assistance data	50
10.4	UE search	51
10.5	Position determination.....	51
10.5.1	Information to be transferred between UTRAN elements	51
10.5.1.1	Almanac data.....	52

10.5.1.2	DGPS corrections.....	53
10.5.1.3	Ionospheric corrections	53
10.5.1.4	Ephemeris data and clock correction	53
10.5.1.5	Real Time integrity monitor function.....	53
10.5.1.6	GPS reference time	54
10.5.1.7	UTC.....	54
10.5.1.8	Reference Location	54
10.5.1.9	Additional non-GPS related information	54
10.6	RNC based Network Assisted GPS positioning Procedure.....	55
10.7	SAS initiated Network Assisted GPS positioning Procedure.....	56
11	Information storage	58
12	Uplink-Time Difference Of Arrival (U-TDOA) positioning method	58
12.1	General	58
12.2	U-TDOA SAS architecture.....	61
12.3	RNC based U-TDOA positioning for Cell_DCH and Cell_FACH RRC states	61
12.3.1	UE in CELL_DCH state	61
12.3.2	UE in CELL_FACH state	62
12.4	Optional SAS initiated U-TDOA positioning for Cell_DCH and Cell_FACH RRC states	64
12.4.1	UE in CELL_DCH state	64
12.4.1.1	Message Flow	64
12.4.2.	UE in CELL_FACH state	66
12.4.2.1	Message flow	66
13	Network-assisted GNSS positioning method	68
13.1	Network-assisted GPS positioning method	69
13.2	Network-assisted Galileo positioning method.....	69
13.3	Network-assisted GLONASS positioning method	69
13.4	Network-assisted Satellite Based Augmentation Systems (SBAS).....	69
13.5	Network-assisted Quasi-Zenith Satellite System (QZSS)	69
13.6	Network-assisted BeiDou Navigation Satellite System (BDS) positioning method	69
Annex A (informative):	Definitions and Terms	70
Annex B (informative):	Reference Model of Functional Entities for UTRAN UE Positioning.....	72
B.1	Internal Client Group.....	74
B.1.1	Internal UTRAN Location Client Function (U-LCF)	74
B.2	UTRAN System Handling group	74
B.2.1	UTRAN Location System Control Function (U-LSCF)	74
B.2.2	UTRAN Location System Operations Function (U-LSOF).....	75
B.2.3	UTRAN Location Information Relay Function (U-LIRF).....	75
B.2.4	UTRAN Location System Control Function in SAS (U-LSCFS).....	75
B.2.5	UTRAN Location System Assistance Data Function (U-LSADF).....	76
B.3	Positioning group	76
B.3.1	UTRAN Position Radio Co-ordination Function (U-PRCF)	76
B.3.2	UTRAN Position Calculation Function (U-PCF)	76
B.3.3	UTRAN Position Signal Measurement Function (U-PSMF).....	76
B.3.4	UTRAN Position Radio Resource Management (U-PRRM).....	77
B.3.5	UTRAN Position Related Communication Function (U-PRComF)	77
B.4	Assignment of LCS Functional Entities to UTRAN Elements.....	77
Annex C (informative):	Location Services Categories	79
Annex D (informative):	Change history	80
History		82

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1 Scope

The present document specifies the stage 2 of the UE Positioning function of UTRAN, which provides the mechanisms to support the calculation of the geographical position of a UE. UE position knowledge can be used for example in support of Radio Resource Management functions, location-based services for operators, subscribers and third party service providers. The purpose of this stage 2 specification is to define the UTRAN UE Positioning architecture, functional entities and operations to support positioning methods. This description is confined to the UTRAN Access Stratum. It does not define nor describe how the results of the UE position calculation can be utilised in the Core Network (e.g. LCS) or in UTRAN (e.g. RRM).

UE Positioning may be considered as a network provided enabling technology consisting of standardised service capabilities, which enable the provision of location applications. The application(s) may be service provider specific. The description of the numerous and varied possible location applications which are enabled by this technology are outside the scope of the present document. However, clarifying examples of how the functionality being described may be used to provide specific location services may be included.

This stage 2 specification covers the UTRAN positioning methods, state descriptions, and message flows to support UE Positioning.

2 References

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2.1 Normative references

- [1] Void.
- [2] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [3] Void.
- [4] 3GPP TS 23.271: "Location Services (LCS); (Functional description) - Stage 2".
- [5] 3GPP TS 22.071: "Location Services (LCS); Service description, Stage 1".
- [6] 3GPP TS 22.100: "UMTS phase 1".
- [7] 3GPP TS 22.101: "Services aspects; Service principles".
- [8] 3GPP TS 22.105: "Services and Service Capabilities".
- [9] 3GPP TS 22.115: "Services aspects; Charging and Billing".
- [10] 3GPP TS 22.121: "Services aspects; The Virtual Home Environment; Stage 1".
- [11] 3GPP TS 23.032: "Universal Geographical Area Description (GAD)".
- [12] 3GPP TS 23.110: "UMTS Access Stratum; Services and Functions".
- [13] 3GPP TS 23.171: "Functional stage 2 description of location services in UMTS".