

Work Item Description

Title: Uplink TDOA location determination for GSM/GPRS

1 3GPP Work Area

X	Radio Access
	Core Network
	Services

2 Linked work items

This Work Item Request is not linked to other work items

3 Justification

U-TDOA provides Location Services to all mobiles, including unmodified, legacy and roaming MS.

4 Objective

The objective of this Work Item is to include Uplink TDOA as a location determination method for GSM/GPRS in the 3GPP specifications. Priority for this work item is on achieving the US FCC's E911 October 2003 location accuracy requirements for network-based location methods. These requirements are 100m (67%) and 300m (95%) levels of accuracy.

5 Service Aspects

None

6 MMI-Aspects

None

7 Charging Aspects

None

8 Security Aspects

None

9 Impacts

Affects:	USIM	ME	AN	CN	Others
Yes			X		
No	X	X			X
Don't know				X	

10 Expected Output and Time scale (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for endorsement at plenary#	Approved at plenary#	Comments
Affected existing specifications						
Spec No.	CR	Subject			Approved at plenary#	Comments
43.059		Functional Stage 2 Description of Location Services in GERAN (addition of U-TDOA in CS domain)			GERAN#13	
48.071		Location Services (LCS); Serving Mobile Location Centre - Base Station Subsystem (SMLC-BSS) interface Layer 3 specification			GERAN#13	
49.031		Location Services (LCS); Base Station System Application Part LCS Extension (BSSAP-LE)			GERAN#13	
44.071		Mobile Radio Interface Layer 3 Location Services Specification (LCS); (includes LLP)			GERAN#14	
48.031		Location Services (LCS); Serving Mobile Location Centre - Serving Mobile Location Centre (SMLC-SMLC) SMLCPP specification			GERAN#14	
43.059		Functional Stage 2 Description of Location Services in GERAN (addition of U-TDOA in PS domain)			GERAN#16	
23.060		General Packet Radio Service (GPRS); Service Description; Stage 2			GERAN#16	
48.016		General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN) interface; Network Service			GERAN#17	
48.018		General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN) interface; BSS GPRS Protocol (BSSGP)			GERAN#17	

Note: Priority for this work item is on achieving the US FCC's E911 October 2003 location accuracy requirements network-based location methods (100m/300m).

11 Work item rapporteurs

Mr. Bob Gross, TruePosition, Inc.
Mr. Rhys Robinson, TruePosition, Inc.

12 Work item leadership

TSG GERAN

13 Supporting Companies

Cingular Wireless, AWS, SBC Technology Resources, Motorola, TruePosition

14 Classification of the WI (if known)

X	Feature (go to 14a)
	Building Block (go to 14b)
	Work Task (go to 14c)

14a The WI is a Feature: List of building blocks under this feature

None

14b The WI is a Building Block: parent Feature

None

14c The WI is a Work Task: parent Building Block

None