

Source: Lucent Technologies
Title: Work Item Description "Support of Location Services in UTRA FDD"
Document for: Approval

Work Item Description

Title

"Support of Location Services in UTRA FDD"

1 3GPP Work Area

X	Radio Access
	Core Network
	Services

2 Linked work items

"Support of Location Services in UTRA TDD"

3 Justification

"Support of Location Services in UTRA FDD" provides the necessary UTRAN functionality to support standard location services for operators, subscribers and third party service providers. Standard location services are defined as the:

- cell coverage based positioning method;
- OTDOA method with network configurable idle periods; and
- network assisted GPS method.

It is essential to fulfil: higher requirements with respect to the accuracy of the positioning methods and lower UTRAN complexity. Consequently, additional capabilities to determine the (geographic) location of the user equipment (UE) mobile station, e.g. by making use of the UTRAN radio signals, have to be provided.

4 Objective

The purpose of this work item is to define the signal measurements, protocol elements and operations both in UTRAN and UE to support location methods with increased accuracy and reduced UTRAN complexity.

The following time schedule is considered for TSG RAN:

Task	Planned Start	Planned Finish
Work Item Creation	3/2000	3/2000
Work Item Approval		3/2000
Drafting and discussion, updates of specifications	4/2000	9/2000
Submission to TSG RAN for approval		9/2000
Possible remaining corrections and clarifications	09/2000	12/2000

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	X		
No	X			X	
Don't know					

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 information at plenary#	Approved at plenary#	Comments
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#	Comments	
25.133		Requirements for support of RRM (FDD)		RAN #9		
25.141		Base Station Conformance Testing (FDD)		RAN #9		
25.215		Physical layer – Measurements (FDD)		RAN #9		
25.301		Radio Interface Protocol Architecture		RAN #9		
25.302		Services provided by the physical layer		RAN #9		
25.303		Interlayer procedures in connected mode		RAN #9		
25.304		UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode		RAN #9		
25.305		Stage 2 Functional Specification of Location Services in UTRAN		RAN #9		
25.321		MAC Protocol Specification		RAN #9		
25.331		RRC Protocol Specification		RAN #9		

25.401		UTRAN Overall Description	RAN #9	
25.420		UTRAN Iur Interface: General Aspects and Principles	RAN #9	
25.423		UTRAN Iur Interface RNSAP Signalling	RAN #9	
25.430		UTRAN Iub Interface: General Aspects and Principles	RAN #9	
25.433		UTRAN Iub Interface NBAP Signalling	RAN #9	

11 Work item rapporteur

Ian Corden (Lucent Technologies): icorden@lucent.com

12 Work item leadership

To be decided by TSG RAN

13 Supporting Companies

ERICSSON, LUCENT TECHNOLOGIES, NOKIA, NORTEL

14 Classification of the WI (if known)

	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

(list of Work Items identified as building blocks)

14b The WI is a Building Block: parent Feature

(one Work Item identified as a feature)

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

(one Work Item identified as a building block)