

**Source:** Siemens AG  
**Title:** Work Item Description 'Support of Location Services in UTRA TDD'  
**Document for:** Decision

---

**Work Item Description**

**Title**

Support of Location Services in UTRA TDD

**1 3GPP Work Area**

X	Radio Access
	Core Network
	Services

**2 Linked work items**

*none*

**3 Justification**

LoCation Services provide the mechanisms to support mobile location services for operators, subscribers and third party service providers. Currently, in UTRA TDD LoCation Services (LCS) are supported only based on the CellID or on external system assisted methods.

In order to fulfill higher requirements with respect to the accuracy of the positioning methods, 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.

The following time schedule is considered for TSG RAN:

<b>Task</b>	<b>Planned Start</b>	<b>Planned Finish</b>
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**

<b>Affects:</b>	<b>USIM</b>	<b>ME</b>	<b>AN</b>	<b>CN</b>	<b>Others</b>
<b>Yes</b>		X	X		
<b>No</b>	X			X	
<b>Don't know</b>					

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

<b>New specifications</b>						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
<b>Affected existing specifications</b>						
Spec No.	CR	Subject		Approved at plenary#	Comments	
25.123		Requirements for Support of Radio Resource Management (TDD)		RAN #9		
25.224		Physical Layer Procedures (TDD)		RAN #9		
25.225		Physical layer – Measurements (TDD)		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 raporteurs**

yet to be decided

**12 Work item leadership**

to be decided at RAN

**13 Supporting Companies**

Interdigital Communications, Nokia, NTT DoCoMo, Siemens

**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)