

**TSG-RAN Meeting #9**  
**Oahu, HI, USA, 20 - 22 September 2000**

***RP-000509***

**Source: Nortel Networks**

**Title: new Work Item sheets related to UE Positioning**

1. Iub/Iur interfaces for UE positioning methods supported on the radio interface release 99
2. UE positioning enhancements

# 1. Iub/Iur interfaces for UE positioning methods supported on the radio interface release 99

## Work Item Description

### Title

Iub/Iur interfaces for UE positioning methods supported on the radio interface release 99

#### 1 3GPP Work Area

X	Radio Access
	Core Network
	Services

#### 2 Linked work items

none

#### 3 Justification

Currently, the UE positioning is a function of UTRAN where several methods are supported on the radio interface:

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

Nevertheless, only the cell coverage based positioning method is supported on the Iub and Iur interface of release 99.

#### 4 Objective

The purpose of this work item is to add on the Iub and Iur protocols the necessary support for the positioning methods defined for release 99.

#### 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					

**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	
25.401		UTRAN Overall Description		RAN #10		
25.420		UTRAN Iur Interface: General Aspects and Principles		RAN #10		
25.423		UTRAN Iur Interface RNSAP Signalling		RAN #10		
25.430		UTRAN Iub Interface: General Aspects and Principles		RAN #10		
25.433		UTRAN Iub Interface NBAP Signalling		RAN #10		

**11 Work item raporteurs**

to be decided by RAN WG3

**12 Work item leadership**

RAN WG3

**13 Supporting Companies**

Nortel Networks, Ericsson, Siemens, Lucent Technologies

**14 Classification of the WI (if known)**

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

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

14b The WI is a Building Block: parent Feature

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

UE positioning

## 2. UE positioning enhancements

### Work Item Description

#### 1. Title

UE positioning enhancements

1                    **3GPP Work Area**

X	Radio Access
	Core Network
	Services

2                    **Linked work items**

none

3                    **Justification**

UE positioning is a function of UE and UTRAN (Access Stratum) which can be utilised for a number of purposes:

- Radio Resource Management
- Support for location based services (LCS)

Different accuracy can be requested when positioning a UE for these purposes.

4                    **Objective**

The purpose of this work item are to increase the accuracy of the UE positioning or define methods allowing UE positioning with less complexity for a given accuracy.

Examples of planned enhancements are:

- Addition of IPDL for UE positioning in TDD

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	
25.305		Stage 2 Functional Specification of Location Services in UTRAN		RAN #11		
25.123		Requirements for Support of Radio Resource Management (TDD)		RAN #11		
25.224		Physical Layer Procedures (TDD)		RAN #11		
25.225		Physical layer – Measurements (TDD)		RAN #11		
25.302		Services provided by the physical layer		RAN #11		
25.303		Interlayer procedures in connected mode		RAN #11		
25.304		UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode		RAN #11		
25.331		RRC Protocol Specification		RAN #11		

25.420		UTRAN Iur Interface: General Aspects and Principles	RAN #11	
25.423		UTRAN Iur Interface RNSAP Signalling	RAN #11	
25.430		UTRAN Iub Interface: General Aspects and Principles	RAN #11	
25.433		UTRAN Iub Interface NBAP Signalling	RAN #11	

**11 Work item rapporteur**

Mark Beckmann, Siemens AG

**12 Work item leadership**

RAN WG2

**13 Supporting Companies**

Nortel Networks, Ericsson, Siemens, Lucent Technologies

**14 Classification of the WI (if known)**

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

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

14b The WI is a Building Block: parent Feature

UE positioning

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