

Title: **Revision of WID "Open interface between the SMLC and the SRNC within the UTRAN to support Rel-4 positioning methods"**

Source: **Nokia**

Document for: **Approval**

Agenda Item: **9.4.4**

~~It is proposed to agree the revised Work Item description regarding the open interface between SMLC and RNC. The original WID was last distributed as RP-010210. The Work Plan Unique ID of this WI is 2475.~~

Work Item Description

Title: **Open interface between ~~the~~ SMLC and ~~the~~ SRNC ~~within the UTRAN~~ to support Rel-4 positioning methods**

1 3GPP Work Area

X	Radio Access
	Core Network
	Services

2 Linked work items

None identified.

3 Justification

At the 3GPP LCS Work Shop held in London on 1/11/01 and 1/12/01 it was agreed to standardize a standalone SMLC ~~could be specified~~ for the Assisted-GPS method and ~~also to consider the support for~~ other positioning methods ~~should be also considered for~~ in the standalone SMLC.

4 Objective

The objective of this work item is to provide ~~for~~ support for an open interface between ~~the~~ SMLC and ~~the~~ SRNC within ~~the~~ UTRAN to ~~for the~~ support ~~of Rel-4~~ the positioning methods defined in Rel-4 positioning, i.e. Cell ID based, OTDOA based and A-GPS.

It shall be transparent for UE, w~~Whether standalone SMLC is used or not~~ needs to be transparent for the UE and will only impact the SRNC which supports standalone SMLC.

In UTRAN is shall be also transparent to other network elements besides SRNC, whether standalone SMLC or integrated SMLC is supported.

5 Service Aspects

None identified.

6 MMI-Aspects

None identified.

7 Charging Aspects

None identified.

8 Security Aspects

None identified.

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)

This is a Release 5 Work Item

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
New TR	SRNC—SMLC Location Protocol	RAN 2	RAN 3	RAN #12	RAN #13	See Note 1.
Affected existing specifications						
Spec No.	CR	Subject	Approved at plenary#		Comments	
25.401		UTRAN architecture description; Stage 2	RAN #14		Make necessary modifications to related definitions. Add new lux interface and new SMLC network entity.	
25.305		UTRAN Stage 2	RAN #14		Modify Network Reference Model, add stage 2 call flows for Cell ID based, OTDOA and A-GPS positioning methods.	
<u>25.450</u>			RAN #14			
<u>25.452</u>			RAN #14			
<u>25.453</u>			RAN #14			

Note 1: There exists (~~not yet RAN approved~~) a WI for A-GPS only and the intention is to use the defined A-GPS call flows/messages/protocols, when applicable, assuming that the interface can be extended to support other positioning methods. It may be necessary to change the functional split between RNC and SMLC to support all positioning methods.

~~Whether the same specification can be extended or whether a new one needs to be created is to be evaluated once the needed signalling elements are concluded. To allow for a stand-alone SMLC, a new interface is required between the SMLC and the SRNC. The SMLC principle will be such that the SRNC without intergrated SMLC can query the standalone SMLC for the position of the UE. The measurement in support for LCS defined in Rel'99/Rel'4 for UE/LMU are usable for the SMLC and can be relayed by the SRNC to the standalone SMLC for UE location calculation purposes.~~

11 Work item rapporteurs

Antti Toskala, Nokia, Finland

12 Work item leadership

RAN 2

13 Supporting Companies

Hutchison3g, Nokia, Siemens, Vodafone Group

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