Source:	**Nokia, Hutchison 3G**
Title:	**Work Item Description for an Open SMLC-SRNC Interface within the UTRAN to support UTRAN Rel'4 positioning methods**
Document for:	**Approval**
Agenda Item:	**6.11**

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 1/11/01and 1/12/01 it was agreed standalone SMLC could be specified for A-GPS method and other positioning methods should be also considered for standalone SMLC.

4 Objective

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

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		Add new Iux 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.

Note 1 : There exists (not yet RAN appoved) a WI for A-GPS only, and in this case intention is to use the defined A-GPS call flows/messages/protocols when applicaple assuming the interface is done with consideration for extending to other 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 raporteurs

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