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Technical Specification Group Services and System Aspects  
Meeting #19, Birmingham, U.K., 17~20 March 2003

***TSGS#19(03)0127***

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**Source:** TSG SA WG2 (S2-030985)  
**Title:** Updated and revised LCS2 Work Item Description  
**Agenda Item:** 7.2.3

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### Introduction

This document contains an updated and revised Work Item Description for location services, i.e. WI LCS2, for e-mail approval in SA2.

The original version of this LCS2 Work Item was approved in SA Plenary as SP-020384 in June 2002. The changes from that version can be made visible by activating the "Track changes" functionality in Word.

### Attachment

- Updated and revised Work Item Description: "Location Services enhancements 2, System and Core Network aspects (LCS2)"

## Work Item Description

### **Title: Location Services enhancements 2, System and Core Network aspects (LCS2)**

This Work Item covers the enhancements of location services in 3GPP from the system and core network viewpoints

#### **1 3GPP Work Area**

	Radio Access
X	Core Network
	Services

#### **2 Linked work items**

*The 3GPP Generic User Profile (GUP)*  
*Specification for the Le Interface (SP-010180)*  
*Support of the Presence Service Architecture (PRESNC)*  
*Security aspects of enhanced support for user privacy in location services (SA3)*  
*GMLC - GMLC interface (SA2)*  
*Location services enhancements (~~pending in SA1~~)*

#### **3 Justification**

This Work Item is needed in order to align between LCS specifications of 3GPP and other forums and to enhance the network support for user privacy in location services. Also the ~~relationship between~~ privacy functions in LCS ~~and Presence~~ and ~~the new types of area event~~ triggered ~~and periodic~~ location reports are covered.

#### **4 Objective**

The purpose of this work is to handle the following issues:

##### **4.1 Standardization of the Le interface, alignment of LCS specifications**

The task is to improve the Le interface section in TS23.271. The task is also to have alignment between LCS specifications belonging to other forums and the 3GPP LCS specifications and to liaise with the corresponding forums.

##### **4.2 Enhanced ~~network~~ support for ~~anonymity and~~ user privacy ~~and subscriber data handling~~**

The task is to make the network support ~~anonymous target mobile users and to enhance the codeword functionality~~ for enhanced user privacy more flexible, e.g. to allow different settings depending on ~~location or time of day, etc, if such requirements are defined by SA1.~~

##### **4.3 ~~Relationship between~~ Location Services ~~support for IMS public identities~~ and ~~Presence service~~**

The task is to ~~enable~~ the LCS client to use ~~IMS public~~ user identities e.g. when services like presence request location information ~~study and define the inter-working between location and presence services.~~

##### **4.4 New ~~area~~ events for ~~triggered~~ location ~~service triggering~~ reports**

The task is to develop ~~network support~~ the functionality to generate location ~~service triggering~~ reports ~~for when the mobile is within, enters or leaves a defined area, new trigger events, if such are defined in SA1.~~

**5 Service Aspects**

See the SA1 WID *Location services enhancements*.

**6 MMI-Aspects**

**7 Charging Aspects**

**8 Security Aspects**

See the SA3 WID *Security aspects of enhanced support for user privacy in location services*.

**9 Impacts**

Affects:	USIM	ME	AN	CN	Others
Yes		x		x	
No					
Don't know	x		X		

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

New specifications						
Specification No.	Title	Prime resp. WG	2ndary resp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
Affected existing specifications						
Specification No.	CR	Subject	Approved at plenary#		Comments	
23.002		Network Architecture	SA#2148			
23.271		Functional stage 2 description of LCS	SA#2148			

**11 Work item rapporteurs**

Jan Käll, Nokia

**12 Work item leadership**

TSG SA WG 2.

**13 Supporting Companies**

Nokia, Elisa Communications, Siemens, Ericsson, Vodafone, NTT DoCoMo, NEC, Lucent, TeleCommunication Systems, -Signalsoft

**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

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