TSG GERAN #1 Seattle, WA, U.S.A 28-1, August/September 2000

Source: Nokia

Title: Work Item Description for Building block: LCS interoperability

aspects to GERAN

Document for: Decision

Work Item Description

Title

LCS interoperability aspects to GERAN

1 3GPP Work Area

	X	Radio Access
Ī	X	Core Network
Ī	X	Services

2 Linked work items

LCS work items for R2000 in TSG-SA, TSG-CN, TSG-RAN

3 Justification

LoCation Services provide the mechanisms to support mobile location services for operators, subscribers and third party service providers. In order to provide same services for LCS, it should be a co-ordinated development effort for both GSM LCS Phase 2 and UMTS LCS. The alignment of GSM LCS R'00 with UMTS LCS in Release 2000 is required due to the common Core Network. [3GPP TS 23.171]

4 Objective

- Co-ordinated development of GSM LCS Phase 2 and UMTS LCS, S2 and GERAN

5 Service Aspects

- Provision of Velocity
- Privacy Control
- Location of All Mobiles in Geographical Area (LAMGA). This means that an LCS application can request locations and possibly identities of all mobiles in a certain geographical area. More exact definition of LAMGA is FFS.
- The Common LCS Stage 1 mentions Defined Geographical Areas (DEGA). For example it may be possible to identify and report when the user's terminal enters or leaves a specified geographic area. Also certain services might be available to mobiles within specified areas. Defined Geographical Areas should be specified in more detail in Stage 1 first. (FFS)
- Event Based Location Request FFS

6 MMI-Aspects

MMI of LCS privacy handling (July S1 meeting)

7 Charging Aspects

None

8 Security Aspects

None

9 Impacts

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

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

New specifications						
Specification No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
43.059	Functional Stage 2 Description of Location Services in GERAN	GERAN				This specification describes the LCS support in GERAN for both Circuit Switched and Packet Switched services.
23.271	Functional stage 2 description of LCS [based on 23.171 and System and core network aspects from 03.71 +new features]					This specification describes the system and core network aspects of LCS and is common to GSM and UMTS
	Affects		!6!			
On a differentian Ma		ed existing	specific		at along : "	C
Specification No. 03.41	CR Subject Short Message	Sarvina C	all Brand		at plenary#	Comments
03.71	GSM 03.71: " telecommunica 2+); Location 9 (Functional des	Digital cel tions syste Services (L	lular em (Phase .CS);	e		GSM 03.71 exists in Release 97 and release 98. It is replaced by 43.059 and 23.271 in Release 2000.
04.18	Mobile radio in specification, F			ntrol		
04.31	Mobile Station Location Centr Resource LCS	e (SMLC)	Radio	vile		
04.35	Broadcast Netv Enhanced Obse Difference (E-Opositioning Systems) Positioning Me	erved Time OTD) and stem (GPS	e Global			
04.60	Radio Link Co Control	ntrol/ Med	ium Acc	ess		
04.64	LLC specificat					
04.71	Mobile radio in Location Servi specification;		yer 3			
05.05	Radio transmis					
05.08	Radio subsyste					
05.10		Radio subsystem synchronization				
05.50	Background fo (RF) requirement	ents				
08.08	MSC-BSS inte A i/f		er 3			
08.18	BSS GPRS pro	otocol				

09.02	Mobile Application Part (MAP) Specification	
09.31	Base Station System Application Part LCS Extension (BSSAP-LE)	
22.071	3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Location Services (LCS); Service description, Stage 1	This specification is common to GSM and UMTS (/GERAN and UTRAN)
23.171	3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Functional stage 2 description of location services in UMTS	23.171 exists only in Release 1999 and is replaced by 23.271 in Release 00
24.008	Mobile Radio Interface Layer 3 Specification	

Work item raporteurs

 $Nokia-Margaret\ Livingston$

Work item leadership

GERAN

13 Supporting Companies

Nokia, Motorola, Ericsson, T-Mobil

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

14b The WI is a Building Block: parent Feature

Location Service (UMTS)

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

(one Work Item identified as a building block)