Technical Specification Group Services and System Aspects **TSGS#25(04)0681**Meeting #25, Palm Springs, USA

Source: SA

Title: Updated WI on Toward A-GNSS concept

Document for: Approval

Agenda Item: 7.1.3

At the last meeting of GERAN, a work item was approved called Toward A-GNSS concept. There is also a WI from SA1 with the same title approved at SA #24.

This WI has appeared (or will) under the feature *Location Services enhancements 2* but for Rel-7. However, the rest of this feature is Rel-6.

Rather than hold up the rest of *Location Services enhancements 2*, which is for Rel-6, it is being proposed that the SA1 WI *A-GNSS concept to extend A-GPS to include GALILEO* is upgraded to a feature and the GERAN Building Block is placed under it.

To this end, attached is a proposed Work Item Description.

This Updated work item replaces document SP-040308 approved at SA #24.

Work Item Description

Toward A-GNSS concept

To extend A-GPS to include GALILEO and other satellite navigation systems.

1 3GPP Work Area

Х	Radio Access
Х	Core Network
Х	Services

2 Linked work items

32023 Location Services Enhancements
50548 Toward A-GNSS concept (GP-042268)

3 Justification

- The Cell-ID or E-OTD methods provide high service availability but limited service accuracy.
- The A-GPS method provides high service accuracy but service availability could be improved, especially when considering the obstacles masking the signals of part of the GPS satellites in urban environments.

Other satellite positioning systems will be developed in the near future. It has been highlighted the advantages of enlarging the Assisted GPS concept to Assisted Global Navigation Satellite Systems, and particularly to the GALILEO system, since it allows to improve the lacks mentioned here above.

It is then important for the 3GPP specifications to open the door to these other systems.

4 Objective

To include the capability of assisted GALILEO into 3GPP.

5 Service Aspects

The current work item proposes to improve the availability and the accuracy of the location services.

6 MMI-Aspects

None

7 Charging Aspects

Similar to those for A-GPS technology.

8 Security Aspects

Similar to those for A-GPS technology.

9 Impacts

Affects:	UICC apps	ME	AN	CN	Others
Yes		Χ	Χ	Χ	
No	Χ				
Don't know					

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

				New spe	ecificatio	ns			
Spec No.	Title		Prime rsp. WG	2ndary rsp. WG(s)	Presented information plenary#		pproved at lenary#	Comments	
NONE					•				
	1	Ia	Affe	cted existi					
Spec No.	CR	Subject	. ,.	1.00	Approv #25	ved at ple	enary#	Comments	
TS 22.071		Stage 1 Description LCS						S1	
TS 23.271		Functional Stage 2 Description of LCS						S2	
TS 25.331		Radio Reso - Protocol S			<u> </u>			R2	
TS 25.123		Requirem of radio re managen	rt #27			R4			
TS 25.133		Requirem of radio re managen	rt #27			R4			
TS 29.002		Mobile App Specification) #27			N4			
TS 24-080		Mobile Rad – Suppleme Specification	3 #27			N4			
TS 24-008		Mobile ra Layer 3 s Core net Stage 3	#27	#27		N1			
TS 44.031		Location Services (LCS); Mobile Station (MS) - Serving Mobile Location Centre (SMLC) Radio Resource LCS Protocol (RRLP)			C)			G2	
TS 49.031 TS 44-118		Location Services (LCS); Base Station System Application Part LCS Extension (BSSAP-LE) Mobile radio interface layer 3 specification, Radio Resource Control (RRC) protocol; lu mode						G2 G2	

11 Work item raporteurs

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12 Work item leadership

SA-1

13 Supporting Companies

FRANCE TELECOM, ALCATEL, QUALCOMM, ERICSSON

14 Classification of the WI (if known)

<u>X</u>	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

50548 Toward A-GNSS concept (GP-042268)

(list of Work Items identified as building blocks)

14b The WI is a Building Block: parent Feature

32023 Location services enhancements.

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

(one Work Item identified as a building block)

form change history: 2002-07-04: "USIM" box changed to "UICC apps"