Technical Specification Group Services and System Aspects Meeting #24, Seoul, Korea, 07-10 June 2004

Source:	SA1
Title:	New WI on A-GNSS concept to extend A-GPS to include GALILEO
Document for:	Approval
Agenda Item:	7.1.3

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

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		Х	Х	Х	
No	Х				
Don't know					

				New spe	cification	S	
Spec No.	Title		Prime rsp. WG	2ndary rsp. WG(s)	Presented for information plenary#		Comments
NONE							
			A.66 -				
Spec No.	CR	Subject	Affe	cted existi		ed at plenary#	Comments
TS 22.071		Stage 1 De	scription	LCS	#25	ou at picitary#	S1
TS 23.271		Functional of LCS					S2
TS 25.331		Radio Reso - Protocol S			C) #27		R2
TS 25.123		Requirem of radio re managem	esourc	e	rt #27		R4
TS 25.133		Requirements for support of radio resource management (FDD)			rt #27		R4
TS 29.002		Mobile Application Part (MAP) Specification) #27		N4
TS 24-080		Mobile Radio Interface Layer 3 – Supplementary Services Specification			3 #27		N4
TS 24-008		Mobile radio interface Layer 3 specification; Core network protocols; Stage 3			#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 Se Base Static Application LCS Extens Mobile ra layer 3 sp Radio Re (RRC) pre	n Syster Part sion (BS dio inte pecifica source	m SAP-LE) erface tion, Control			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)

	Feature (go to 14a)
Х	Building Block (go to 14b)
	Work Task (go to 14c)

14a The WI is a Feature: List of building blocks under this feature

(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"