
Source: MCC
Title: New WI as umbrella for Rel-7 LCS WIs
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, together with a WI on a different subject (LCS for 3GPP Interworking WLAN).

Now all these WIs have appeared (or will) under the feature *Location Services enhancements 2* but for Rel-7. However, the rest of this feature is Rel-6.

Now it is unlikely that *Location Services enhancements 2* will be allowed to remain in Rel-6 with Rel-7 work items in it, and it is unlikely that people will want the whole of the Feature to be moved to Rel-7 when so much has been completed.

Therefore, it is being proposed that a Rel-7 WI feature *Location Services enhancements Rel-7* be elaborated and all the Rel-7 BBs be moved into it. To this end, attached is a proposed Work Item Description.

It should be noted that this WI is purely for management purposes. Nonetheless, it does not contain the requisite supporting companies. It is left to SA to identify if this is appropriate.

Work Item Description

Title: Location Services enhancements Rel-7 (LCS-R7)

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

1 3GPP Work Area

X	Radio Access
X	Core Network
X	Services

2 **Linked work items**

Toward A-GNSS concept (SP-040308)

Toward A-GNSS concept (GP-042268)

LCS for 3GPP Interworking WLAN (SP-040309)

3 **Justification**

It is anticipated that there will be several independent enhancements in the field of LCS in Rel-7. This feature is created to group these enhancements together.

4 **Objective**

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

4.1 **Toward A-GNSS concept**

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.

There are currently two WIs related to this work; SP-040308 from SA1 and GP-042268 from GERAN.

4.2 **LCS for 3GPP Interworking WLAN**

The 3GPP has developed and continues to develop Location Services (LCS) requirements and standards for GSM and UMTS. To further the advancement of LCS within the 3GPP, LCS requirements and standards may be extended for 3GPP WLAN interworking to support the same location-based services that have been deployed today for GSM and UMTS. LCS with 3GPP WLAN Interworking system is considered to enlarge the area of location service.

This work item proposes that a feasibility study be performed to outline the technical

requirements, scope of work required, and perform a gap analysis to determine whether existing 3GPP specifications can support LCS requirements for 3GPP WLAN interworking. If it is determined that providing for this service is feasible, then this work item will continue forward to encompass future work.

5 Service Aspects

Refer to SA1 WIs.

6 MMI-Aspects

7 Charging Aspects

8 Security Aspects

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
		Toward A-GNSS concept (SP-040308)		SA #27		Refer to SP-040308
		Toward A-GNSS concept (GP-042268)		TSG GERAN # 26		Refer to GP-042268
		LCS for 3GPP Interworking WLAN (SP-040309)		SA #27		Refer to GP-040309

11 Work item rapporteurs

Michael Clayton (MCC)

12 Work item leadership

TSG SA WG 1.

13 Supporting Companies

14 Classification of the WI (if known)

X	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

31051 Toward A-GNSS concept (SP-040308)
Toward A-GNSS concept (GP-042268)
31052 LCS for 3GPP Interworking WLAN (SP-040309)

14b The WI is a Building Block: parent Feature

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