Work Item Description

Title: **AGPS Minimum Performance Specification Development**

1   3GPP Work Area

X	Radio Access
	Core Network
	Services

2   Linked work items

This Work Item is not related to other Work Items.

3   Justification

A-GPS has already been standardized as one of UE location technologies supported by 3GPP in R99. Associated signalling support for A-GPS has also been completed in Release 4 and 5. However, the minimum performance requirements for A-GPS measurement are currently missing in TS 25.133 (RAN WG4). Thus, there is no active effort to pursue A-GPS performance test specification in TS 34.121 (T1-RF). As a result, the location measurement reporting accuracy from different UE vendors could be different, which makes it difficult for a network operator to use these location reports to fulfil the service requirements for location clients.

Operators have already committed to deploy A-GPS with initial release of UMTS network service. It is important to speed up the standard process on A-GPS minimum performance specification in order to meet operator's early deployment requirement.

4   Objectives

This WI is to develop A-GPS minimum performance specification for both UE based and UE assisted A-GPS with following objectives:

- The minimum performance specification shall be defined based on mature and achievable A-GPS technology to limit the inconsistency of UEs' location performance in the same operational environment, which is potentially caused by different implementations from various UE vendors

- The minimum performance specification and the test cases shall take into account of variety operational scenarios of an A-GPS receiver to prevent significant performance inconsistency from different UE vendors after a UE has passed the defined test cases, when they are operating in a different environment rather than an ideal open-air condition.

- Single performance class is preferred. However, multiple classes (one or two more classes) could be considered if the UE performance from different vendors can not be converged into one performance class that represents current maturity of A-GPS technology.

5   Service Aspects

          None.

6   MMI-Aspects

          None.

7   Charging Aspects

          None.

8　　　　　　**Security Aspects**

None.

9　　　　　　**Impacts**

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

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

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments

Affected existing specifications					
Spec No.	CR	Subject	Approved at plenary#	Comments	
25.133		Requirements for support of radio resource management (FDD)	RAN #24		
34.121		Terminal conformance specification; Radio transmission and reception (FDD)	T # 24		

11　　　　　**Work item raporteurs**

12　　　　　**Work item leadership**

3GPP TSG RAN (WG4)

13　　　　　**Supporting Companies**

AWS, Nokia, Siemens, China Mobile, Rogers Wireless, Nortel, Motorola, Ericsson and Cingular Wireless

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