3GPP RAN#23 Meeting   RP-040013
Phoenix, Arizona, USA
Wednesday 10th through Friday 12nd of March 2004

Title:	**A-GPS Minimum Performance Specification WI Update**
Document for:	Review and approval
Source:	WI Rapporteur – Donglin Shen – AT&T Wireless Services
Agenda Item	8.3.2

Status Report for WI to 3GPP TSG RAN Plenary #23

Work Item Name: "A-GPS Minimum Performance Specification"

SOURCE: Rapporteur, Donglin Shen, AT&T Wireless Services   **TSG:** RAN WG4

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Ref. to WI sheet: `ftp://ftp.3gpp.org/tsg_ran/TSG_RAN/Work_Item_sheets/`

Progress Report since the last TSG:

A-GPS performance specification work has been carried out on reflector and two RAN4 meetings after RAN #22. Based on the decision made in RAN#22, an A-GPS Ad Hoc meeting was hold from 1/28 to 1/29, 2004 in Espoo, Finland. Total 21 contributions were presented and discussed, which covers many aspects of the work item, such as test scenario, single performance class versus multiple classes and UE assisted specification requirement. There was a tendency to adapt single performance class for initial A-GPS performance specification during the discussion in the meeting. However, no final decision was made before the end of the meeting.

In RAN4 #30 meeting, 11 contributions were presented and discussed, which covers several proposals on how to handle test scenarios and the accuracy test. A consolidated operators' requirement on how to proceed the work item was presented, which were supported by 5 operators (Telecom Italia, Orange, Telefonica, 3, NTT DoCoMo, see [53], [54]). A contribution from Nokia on "Introduction of A-GPS background information to TR25.942" was presented, but it was decided to leave this background document as a Tdoc only. No any solid agreement was made in RAN4 #30 meeting.

Considering slow progress on several major issues of A-GPS performance specification and the matter of the fact that only one RAN4 meeting left before June RAN plenary meeting, the completion of the work item is facing the risk of further delay to RAN #25. In order to keep up with the schedule, 2nd A-GPS Ad Hoc meeting may need to be considered in April time frame.

List of Completed elements (for complex work items):
- ?? none

List of open issues:
- ?? Alignment of performance requirements and test conditions
- ?? UE test case and test procedure definition
- ?? Location estimate accuracy
- ?? Terminal conformance specification

Estimates of the level of completion (when possible):
- o <35%

WI completion date review resulting from the discussion at the working group:
- o RAN #24

References to WG's internal documentation and/or TRs (within this package):

[1] R4-030458   Proposed Requirement for AGPS Minimum Performance Specification Development, AWS, Nokia, China Mobile, Siemens, Ericsson, Rogers Wireless, Cingular and Nortel
[2] R4-030661   A proposal for the definition of A-GPS requirements, Telecom Italia Mobile
[3] R4-030832   UE based A-GPS performance requirements for 3GPP, Motorola, Nokia, Siemens and Ericsson
[4] R4-030800   A-GPS Minimum Performance Requirements and Testing Aspects, Qualcomm
[5] R4-030737   GPS/AGPS Variables, 3
[6] R4-030738   GPS/AGPS Classifications (discusses various classifications for GPS/AGPS), 3
[7] R4-030782   Harmonization for A-GPS performances, Nortel
[8] R4-030902   Channel model requirement for AGPS performance test, Huawei
[9] R4-030938   GPS measurement Issues, Three
[10] R4-030995   Performance Evaluation of UE-assisted A-GPS, Qualcomm
[11] R4-030996   E-Mail discussion summary of A-GPS performance specs, AWS
[12] R4-031015   Comparison of AGPS Field results and AWGN Simulation Results, Lucent
[13] R4-031017   Realistic scenarios for testing GPS in phones, Philips
[14] R4-031024   A-GPS Testing in Multipath Environment, Elektrobit Ltd.
[15] R4-031057   Performance requirements for AGPS, Ericsson
[16] R4-031082   New TS, AGPS performance requirements, Lucent, Nortel, Siemens, Nokia, Motorola
[17] R4-031083   AGPS performance requirements coversheet, Lucent, Nortel, Nokia, Siemens, Motorola
[18] R4-031139   Proposed objective and way forward on AGPS, ATT
[19] R4-031142   AGPS performance specification - talking points and next steps, SiRF Technology
[20] R4-031144   Requirements for support of AGPS; draft specification, Philips
[21] R4-031145   New TS, AGPS performance requirements, Philips
[22] R4-031152   Meeting report of AGPS performance requirements Ad Hoc, Nokia
[23] R4-031155   Proposed Objectives and Work Plan on A-GPS Performance Specification, AWS, 3, TIM, Roger and Cingular
[24] R4AH-04005   TS 25.xxx Requirements for support of A-GPS (FDD) (Revision of R4-031156), Motorola
[25] R4AH-04011   Status Report for WI to 3GPP TSG RAN4 A-GPS Ad Hoc Meeting, AWS
[26] R4AH-04018   Background for the draft specification proposed in R4-031156, Several companies
[27] R4AH-04004   Issues for Consideration in Establishing A-GPS Performance Criteria, SiGe
[28] R4AH-04006   A-GPS performance parameters, Philips
[29] R4AH-04017   Proposal for A-GPS Realistic Scenario Performance Requirements for 3GPP, Sprient
[30] R4AH-04023   A-GPS sensitivity requirement, Philips
[31] R4AH-04008   A-GPS sensitivity and node B time stamping accuracy, Ericsson
[32] R4AH-04007   Handset Classifications, Three
[33] R4AH-04009   Definition of performance classes of A-GPS capable UEs, Ericsson
[34] R4AH-04012   Information on service requirements for A-GPS Performance, DoCoMo
[35] R4AH-04013   Discussion on A-GPS performance class for 3GPP, DoCoMo
[36] R4AH-04020   A-GPS performance type, Motorola
[37] R4AH-04022   Operators proposal for A-GPS minimum requirements, TIM
[38] R4AH-04014   Proposal for required assistance data IE's in the test cases, Qualcomm
[39] R4AH-04015   Proposal for message sequence charts for UE-assisted A-GPS, Qualcomm
[40] R4AH-04016   Proposal for general measurement parameter definition, Qualcomm
[41] R4AH-04019   Text correction to R4-031156, Motorola
[42] R4AH-04024   A revision of R4AH-04005, Operators
[43] R4AH-04025   Latest draft version of TS, Editor
[44] R4AH-04026   Latest draft version of TS with additional editorial corrections, Editor
[45] R4AH-04021   LS to RAN 2 and T1 on new message and mis-alignment of satellite sequence, Adhoc
[46] R4-040008   Document list and notes from the AGPS Ad Hoc (28-29 Jan 2004), AGPS AH Chairman
[47] R4-040025   Proposal for Assistance Data IE for UE-based and UE-assisted test cases, SiGe
[48] R4-040083   Introduction of A-GPS background information to TR25.942, Nokia
[49] R4-040095   Background for the draft A-GPS specification, Philips
[50] R4-040099   Proposed way forward on A-GPS testingDiscussion, Vodafone
[51] R4-040104   TS25.XXX Requirements for support of A-GPS (FDD), Motorola
[52] R4-040107   AGPS measurements in various environments. Number of visible satellites, Globalocate
[53] R4-040114   An operator's proposal for AGPS minimum requirements, Telecom Italia
[54] R4-040115   A revision of TS on requirements for support of AGPS, Telecom Italia
[55] R4-040127   Option for testing TTFF, Ericsson
[56] R4-040133   GPS satellite signal strength measurement in different environments, Motorola