3GPP RAN#25 Meeting

RP-040267

Palm Spring, CA USA

Tiesday 2nd through Thursday 4th of September 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	8.4.2

Status Report for WI to 3GPP TSG RAN Plenary #25

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:

According to the agreement made in RAN RP#24, few conference calls had been scheduled in June for the purpose to avoid a physical Ad Hoc meeting in summer season. Don Zelmer from Cingular Wireless was appointed as the chairman for conference calls. In order to speed up the progress of the work, 4 very effective long conference calls(4 to 5 hours) were actually hold on June 22, 29, 30 and Aug 5 respectively. New text proposal and inputs to 25.171 V.0.1.0 were discussed and agreed. Following text proposals to 25.171, such as R4-04043, R4-04048, R4AH-04049, R4AH-04050 and R4AH-04052, have been agreed and included in 25.171 V0.2.0 that was later approved in RAN4 #32 meeting.

RAN4 #32 meeting is the only RAN4 meeting after RAN plenary #24. Because of the progress achieved in conference calls, during RAN4 #32, most of remaining issues for A-GPS minimum performance specification have been successfully resolved and new version of 25.171 V0.3.0 was prepared and approved. It will be submitted to RAN #25 as 25.171 V.1.0.0 for information and approval.

List of Completed elements (for complex work items):
- Alignment of performance requirements and test conditions
- UE test case and test procedure definition
- Location estimate accuracy
- Response time/TTFF/TTSF requirements
- 25.171v0.3.0 A-GPS minimum performance specification
- Minimum performance specification for Cell_PCH and URA_PCH are agreed for further study and they will be added to the specification later through CR process

List of open issues:
- Terminal conformance specification (T1)

Estimates of the level of completion (when possible):
- 100%

WI completion date review resulting from the discussion at the working group:
- RAN #25

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 testing Discussion, 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
[57] R4-040221   A-GPS Minimum Performance Spec Ways Forward, SiRF
[58] R4-040233   A-GPS specification update to R4-040169, Motorola
[59] R4-040234   Operators requirement for A-GPS performance specification, AWS & Others
[60] R4-040235   Proposed Solution to Accuracy test with operational scenarios, AWS
[61] R4-040253   Some Vodafone A-GPS test results and comments, Vodafone
[62] R4-040268   Performance Evaluation for UE-assisted A-GPS, Qualcomm Europe
[63] R4-040269   Assistance Data IEs for the A-GPS test cases, Qualcomm Europe
[64] R4-040284   Mapping of A-GPS specifications, Philips
[65] R4-040285   Update of indoor measurement results, Philips
[66] R4-040305   Requirement for AGPS performance in different states, Ericsson, Motorola, Nokia, Siemens
[67] R4-040308   Examples of GPS signal power measurements, Nokia
[68] R4-040310   GPS satellite strength measurements in indoor environment, Motorola
[69] R4-040313   Proposal for minimum set for assistance data in the AGPS test cases: UE based case, Nortel, Nokia, Ericsson, Lucent, Siemens, Motorola
[70] R4-040361   Progressing towards an agreed A-GPS specification, AWS
[71] R4-040362   A-GPS specification structure update to R4-040233, AWS
[72] R4-040363   A-GPS specification structure and content update to R4-040233, Philips
[73] R4-040364   Minimum assistance data set for AGPS test, Nortel
[74] R4-040378   Objectives of the AGPS specification tests, Philips
[75] R4-040386   A-GPS specification structure update to R4-040233, AWS
[76] R4-040387   A-GPS specification structure update to R4-040233, Philips
[77] R4AH-04028 TS 25.171 v0.1.0, AWS
[78] R4AH-04029 Comparison of test cases in R4-040233 and R4-040363, Nokia
[79] R4AH-04030 Text proposal about the definition of the 2D position error, Nortel
[80] R4AH-04032 Clarification for purposes of AGPS test cases inTS25.171, Lucent
[81] R4AH-04033 Comparison of the two AGPS proposals in R4-040233 and R4-040363, Lucent
[82] R4AH-04034 Performance Evaluation for UE-assisted A-GPS, Qualcomm
[83] R4AH-04035 Comments on TS25.171 v0.1.0, NTT DoCoMo
[84] R4AH-04036 Meaning of "Time to Fix", Philips
[85] R4AH-04037 Objectives for the A-GPS specification tests (Rev of R4-040378), Philips
[86] R4AH-04038 Assistance Data IEs for UE-Assisted Test Cases (draft CR to 25.171), SiGe
[87] R4AH-04039 Unified Performance Requirements - UE assisted and UE based, SiRF
[88] R4AH-04041 Text proposal to TS25.171 on purposes of AGPS test cases, Lucent
[89] R4AH-04042 Comparison of the two AGPS proposals in R4-040233 and R4-040363 (Revision 1), Lucent
[90] R4AH-04043 Text proposal about the definition of the 2D position error, Nortel
[91] R4AH-04044 Revised Moving scenario and periodic update test case, Nokia
[92] R4AH-04045 Comparison of Sensitivity Test Cases in Proposal 1 (R4-040233) and Proposal 2 (R4-040363), Nokia
[93] R4AH-04047 Draft CR to 25.171, Assistance Data IEs Available for UE-Assisted Test Cases, SiGe
[94] R4AH-04048 Performance evaluation for UE-assisted A-GPS, Qualcomm
[95] R4AH-04049 Text proposal to TS25.171 on purposes of AGPS test cases (Revision of doc 41), Lucent
[96] R4AH-04050 Revised Moving scenario and periodic update test case (Revision of doc 44), Nokia
[97] R4AH-04051 Draft CR to 25.171, Assistance Data IEs Available for UE-Assisted Test Cases (Revision of doc 47), SiGe
[98] R4AH-04042r2 Comparison of the two AGPS proposals in R4-040233 and R4-040363 (Revision 2), Lucent
[99] R4AH-04055 Comparison of the two AGPS proposals in R4-040233 and R4-040363 (Revision 3), Lucent

[100] R4AH-04052   Assistance Data IEs Available for UE-Assisted Test Cases (Revision of doc 47), SiGe

[101] R4AH-04053   Clarification on removing error messages in the moving scenario test, Nokia

[102] R4-040397   A-GPS Ad Hoc Meeting Report to RAN 4, AGPS Ad Hoc Chairman

[103] R4-040411   25.171 Section 4, Annex B.2 and related change, Spirent

[104] R4-040452   Clarifications for AGPS multipath test case   Nokia

[105] R4-040453   Clarification on removing error messages in the moving scenario test, Nokia

[106] R4-040465   25.171 v.0.2.0. A-GPS minimum performance specification, AWS

[107] R4-040469   Comparison of the two AGPS proposals in R4-040233 and R4-040363 (Revision 5), Lucent

[108] R4-040470   Text proposal to TS25.171 on test scenarios and performance requirements of AGPS test cases, Lucent

[109] R4-040535   Text proposal to TS25.171 on test scenarios and performance requirements of AGPS test cases (Revision 1), Lucent

[110] R4-040563   AGPS bis meeting report, Cingular

[111] R4-040564   25.171 v.0.3.0. A-GPS minimum performance specification, AWS