Status Report for SI to TSG

Study Item Name: Improvement of Inter-frequency and inter-system measurement for 1.28Mcps TDD

SOURCE: Rapporteur   **TSG: RAN**   **WG: WG1**

E-mail address rapporteur: xqli@samsung.co.kr

Ref. to SI sheet: RAN_Study_Items.doc

Progress Report since the last TSG (for all involved WGs):

RAN1:

RAN1#33

Two contributions [1][2] were presented in this RAN1 meeting. TdocR1-03716 [1] explicitly listed the scenarios to be improved for the study as the response to the question raised from previous RAN1#32 meeting. As followings, one new method named as RNC based implementation method was proposed and analysed in [1]. By now, three methods were discussed to improve the 4 listed scenarios during measurement procedure in this study item. Based on the analysis and discussion of the first two methods -- asymmetric pattern and pattern combination scheme, it was thought that both of them had impact on power control and UL synchronisation functions, although they can obtain improvement of reduced synchronisation time and increased synchronization probability. In order to compromise on the impact and performance improvement, the third method -- RNC based implementation method without modification on the current specification was recommended. In a conclusion, RNC based implementation method can improve IF/IS measurement for handling the 4 scenarios in TR25.888 section 5 with no change of the current specification and can be the best option for improvement.

TdocR1-03717 [2] gave update TR25.888 based on the agreement reached in RAN1. The update TR25.888 was then approved in RAN1 and will be presented next in this plenary meeting for final approval. In consequence, this R6 SI was suggested to complete.

RAN2: There is no need of further progress.

RAN3: There is no need of further progress.

RAN4: There is no need of further progress.

List of Completed elements (for complex work items):

RAN1:

Agreement on the study areas of the SI

Completion of the performance evaluation and simulation for the asymmetric time slot allocation pattern to all the possible scenarios with configuration 4 DL, 3 UL time slot.

Completion of the performance evaluation and simulation for the combination of different time slot allocation pattern with configuration 4 DL, 3 UL time slot.

Conclusion to the study item: RNC based implementation method is recommended to improve IF/IS measurement for handling the 4 scenarios listed in TR section 5 with no change of the current specification and can be the best option for improvement.

RAN2: Clarification of the SI.

RAN3: Completion of internal skeleton TR for signalling support.

RAN4: Agreement on the impact to the WG4 related specifications

List of open issues:

- TR25.888 with final version needs to be presented in RAN plenary meeting for approval.

Estimates of the level of completion (when possible):

100 %

SI completion date review:

TSG RAN #21 (Sep. 2003)

References to WG's internal documentation and/or TRs:

[1] 3GPP TSG R1-030716 "Scenarios for improvement and RNC based implementation method for Rel 6 SI: Improvement of IF/IS measurement for 1.28Mcps TDD", Samsung& Siemens, Aug. 2003

[2] 3GPP TSG R1-030717 "Updated TR25.888", Samsung& Siemens, Aug. 2003