

Status Report for SI to TSG RAN

Study Item Name: Status Report for Feasibility Study (FS) on Evolved UTRA and UTRAN

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TSG: RAN Plenary

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

RAN1

LTE was discussed for two days at the RAN1#40bis meeting in April, and during two days at the RAN1#41 meeting in May

- RAN1#40bis
 - Presentations on the proposals for the physical layer multiple access for Uplink and Downlink and Q&A were treated for mutual understanding of commonalities and differences.
 - Creation of RAN1 specific TR was agreed
 - ✧ TR skeleton has been endorsed in RAN1 and submitted to RAN#28 for information^[1].
 - ✧ TR number needs to be assigned.
 - ✧ Editor is Mr. Sadayuki Abeta (NTT DoCoMo)
 - A simplified simulation approach within RAN1 was agreed.
 - It was agreed that new multiple access scheme proposals should be proposed for inclusion in the RAN1 TR latest at the Ad Hoc meeting 20-21 June.
- RAN1#41
 - Proposals for the physical layer multiple access for Uplink and Downlink were presented and discussed in detail.
 - It was found that clear majority for downlink is OFDM based, and FDMA based proposals have the largest support for uplink.
 - The document summarizing the common view points on basic principles for uplink and downlink multiple access was presented^[2] to form the basis for consolidated text proposals to the RAN1 TR.
 - The document describing the simulation assumptions was agreed to be included in the RAN1 TR.

RAN2

No LTE discussion so far except for joint meeting with RAN3 and SA2.

RAN3

No LTE discussion so far except for joint meeting with RAN3 and SA2.

RAN4

Two contributions were treated in RAN4#35 in May, however, no decision was made.

RAN2, RAN3 and SA2 joint meeting

For the SI, Evolved UTRA and UTRAN, it is believed that RAN WGs and SA WG2 initially need to explore the overall 3GPP System Architecture Evolution(SAE) in order to understand the role of evolved UTRAN from an overall perspective.

In the afternoon on 11th May in Athens, RAN2, RAN3 and SA2 joint meeting was held during regular SA2 and RAN WG meeting week. The goal of this meeting was to identify the list of topics and key issues to be addressed during the joint sessions.

- 17 companies presented their proposals on overall architecture and shortly discussed.
- The key issue list was presented by chairmen^[3].

- How much effort should be spent on making the legacy system benefits from SAE/LTE ? It was concluded that this should be discussed on TSG level.
- The meeting schedule was reviewed and endorsed (Montreal, London, Tallin)

E-mail discussion

In the previous LTE meeting in Tokyo, it was agreed to establish a new reflector for LTE. The requirements of LTE were aggressively discussed on this reflector until the LTE meeting in Quebec.

- The TR of requirements for LTE, TR25.913 was drafted according to the e-mail discussion and provided to the LTE meeting in Quebec by the rapporteur^[4].
- Summary of the e-mail discussion was also provided to the LTE meeting by the rapporteur, also^[5].

Joint RAN WGs meeting

On 30-31 May, the joint RAN WGs meeting for LTE was held in Quebec prior to RAN#28. According to the agreed milestone, the meeting focused on the requirements of LTE in order to complete the requirement TR 25.913.

- The open issues in the summary of the e-mail discussion^[5] and the contributions concerning the draft TR^[4] were discussed.
- Going through many drafting sessions, the text proposal for each section were agreed and most of open issues were fixed.
- It was found that the requirement on migration is a very difficult issue to reach consensus in this meeting. No text proposal for it was agreed in the meeting and this is the only remaining issue for the requirement TR.
- The TR will be revised to capture the agreed text proposals and submitted to RAN#28 for approval^[6].

List of Completed elements (for complex work items):

Simulation assumptions in RAN1

TR25.913 containing most of requirements

List of open issues:

Requirements on migration

Feasibility study

Estimates of the level of completion (when possible): 20%

SI completion date review resulting from the discussion at the working group: RAN 32 (June 2006)

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

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| [1] RP-050372 | TR of Physical Layer Aspects for Evolved UTRA endorsed by RAN1, NTT DoCoMo |
| [2] R1-050386 | Views on OFDM Parameter Set for Evolved UTRA Downlink, Ericsson, NTT DoCoMo, Fujitsu, Mitsubishi Electric, NEC, Nortel, Panasonic, Texas Instruments |
| [3] SRJ050026 | Merged list of topics identified during the Joint RAN2 – RAN3 – SA2 meeting, RAN2, RAN3 and SA2 Chairmen and Rapporteur |
| [4] REV-05083 | TR25.913 v0.0.3, Rapporteur |
| [5] REV-05087 | Revised summary of e-mail discussion for LTE requirements, Rapporteur |
| [6] RP-050371 | TR 25.913 v2.0.0 Requirements for Evolved UTRA and UTRAN, Rapporteur |