3GPP TSG SA #28 SP-050373
Quebec, Canada, 6 — 8 June 2005

TSG-RAN #28 meeting Report

Source

TSG-RAN Chairman

Change Request Overview

- Number of CRs on Release '99 :
  - 2 CRs approved. (TSG-RAN #27: 2)
- Number of CRs on Release 4 only (non Cat A):
  - 2 CRs approved (TSG-RAN #27: 2).
- Number of CRs on Release 5 only (non Cat A):
  - 343 CRs approved (TSG-RAN #27: 42).
- Number of CRs on Release 6 only (non Cat A):
  - 315 CRs approved (TSG-RAN #27:128).
- Number of CRs on Release 7 only (non Cat A):
  - 13 CRs approved (TSG-RAN #27:0).
- Total number of CRs in RAN including Category A:
  - 704 CRs approved (TSG-RAN #27: 211)

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Old Releases

- Load due to CRs on Release 99 remains extremely low, only a few CRs were approved because of tests development.
- The situation in Rel-4 is very similar (2 non Cat. A CRs approved)
- Release 5: 315 CRs (non Cat. A) have been approved.
  - This figure includes 221 CRs from RAN WG5. The test specifications in this group exist only in Release 5
  - As a result of the discussion hold during the last meeting on optional features removal, the CRs for Release 5 and 6 has been approved. This represents most of the Release 5 CRs for WG1, WG2, WG3 & WG4 specifications approved during this meeting.
  - Stability is now achieved.

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Release 6

- 315 CRs (non Cat. A) have been approved on Release 6
- TEI6 was decided to be closed at this meeting.
- 2 work items have been finished:
  - Improved minimum performance requirements for HSDPA UE categories 7 & 8
  - RAB support enhancement was finalised following completion of the work for theRAB support for IMS in Release 6.

Release 6
Completion of pending items

- FDD Enhanced Uplink was completed even though some issues still need some further refinements and will be introduced as correction at the next meeting.
- The Requirements from the radio perspective still need completion, scheduled for September 2005
- Test aspects WI approved at this meeting.

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Release 7

- **UMTS 2600 FDD** Completed at this meeting
- **UMTS 2600 TDD** (December 2006)
- **UMTS 900 FDD** (December 2005)
- **UE Antenna Performance Evaluation Method and Requirements** completion by March 2006 instead of December 2005
- **Multiple Input Multiple Output Antennas.** Restarted, 6 months period allowed for companies to show the gains of the feature in Rel-7 WCDMA (new reference points based on EDCH will be used)
- **Optimisation of channelisation code utilisation for 1.28 Mcps TDD** completion by September 2005
- **Improved support of IMS Realtime Services using HSDPA/EDCH** completion by December 2005. Some CRs approved.

Release 7

- **UE performance requirements for MBMS (TDD)** completion by March 2006
- CS and PS call setup delay improvement completion by December 2005. The WI Sheet has been revised. Among other modifications, the title has been changed to **Delay optimisation for procedures applicable to CS and PS Connections**
- **3.84 Mcps TDD Enhanced Uplink** completion date move to December 2005
- **7.68 Mcps TDD** completion moved to June 2006
- SI on **Performance Evaluation of the UE behaviour in high speed trains** with speeds up to 350 kmph completion date moved to March 2006

New WIs approved at RAN#28

- **WI: LCS Enhancements Related to Location-Based Services agreed at this meeting following approval at the previous TSG SA of a corresponding WI**
  - Description Sheet RP-050300, WG2 leading, completion date by December 2005
- **WI 1700 MHz band in Japan**
  - Description Sheet RP-050385, WG4 leading, completion date by December 2005
- **SI UTRA FDD TMA**
  - Description Sheet: RP-050146, WG4 leading, completion by December 2005
- **SI Continuous connectivity for packet data users**
  - Description sheet RP-050391, WG1 Leading, completion date by December 2005
- **WI Enhanced Performance Requirements based on Receive Diversity & LMMSE Equalizer Receiver for HSDPA UE**
  - Description sheet RP-050362, WG4 leading, completion by March 2006
- **WI IMS Call Control (Testing) covering Release 5**
  - Description sheet RP-050286, WG5 leading,completion for prose description March 2006. Further discussion arose on the tests for Release 6 and companies interested should provide another WI to complete this aspects.
- **Conformance Test Aspects – FDD Enhanced Uplink**
  - Description sheet in RP-050285, WG5 leading

Long term evolution for the UTRA and UTRAN

- Study Item on Evolved UTRA and UTRAN
  - Work has started
  - According to the TSG RAN timeplan the TR 25.913 on LTE requirements has been approved and is now under change control. This shall be the referenced document by the different Working Groups of TSG RAN for their respetive work on LTE. See attachment to the LS to TSG SA WG1 copy to SA in SP-050376.
  - Joint work has started with TSG SA WG2 on architecture. In order to ensure the timeplan can be met TSG RAN confirmed the need of a joint meeting between the joint Working Group and TSG SA WG2 on September 19th and 20th in Tallin on architectural split aspects. This work is covering both aspects improvement of the Core architecture as well as review of the split between the core and the access.

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Long term evolution for the UTRA and UTRAN

- Work also started in TSG RAN WG1
  - Clear majority of companies proposes an OFDM based downlink
  - For the uplink, FDMA based proposals have the largest support, followed by OFDM based proposals
  - Discussion has progressed addressing
    - OFDM/FDMA numerology
    - Interference coordination/mitigation
    - MIMO, Pilots, Macro-diversity,…
    - Reference performance of (MC-)WCDMA based multiple access
  - Some of the documentation has been agreed for incorporation in formal specification

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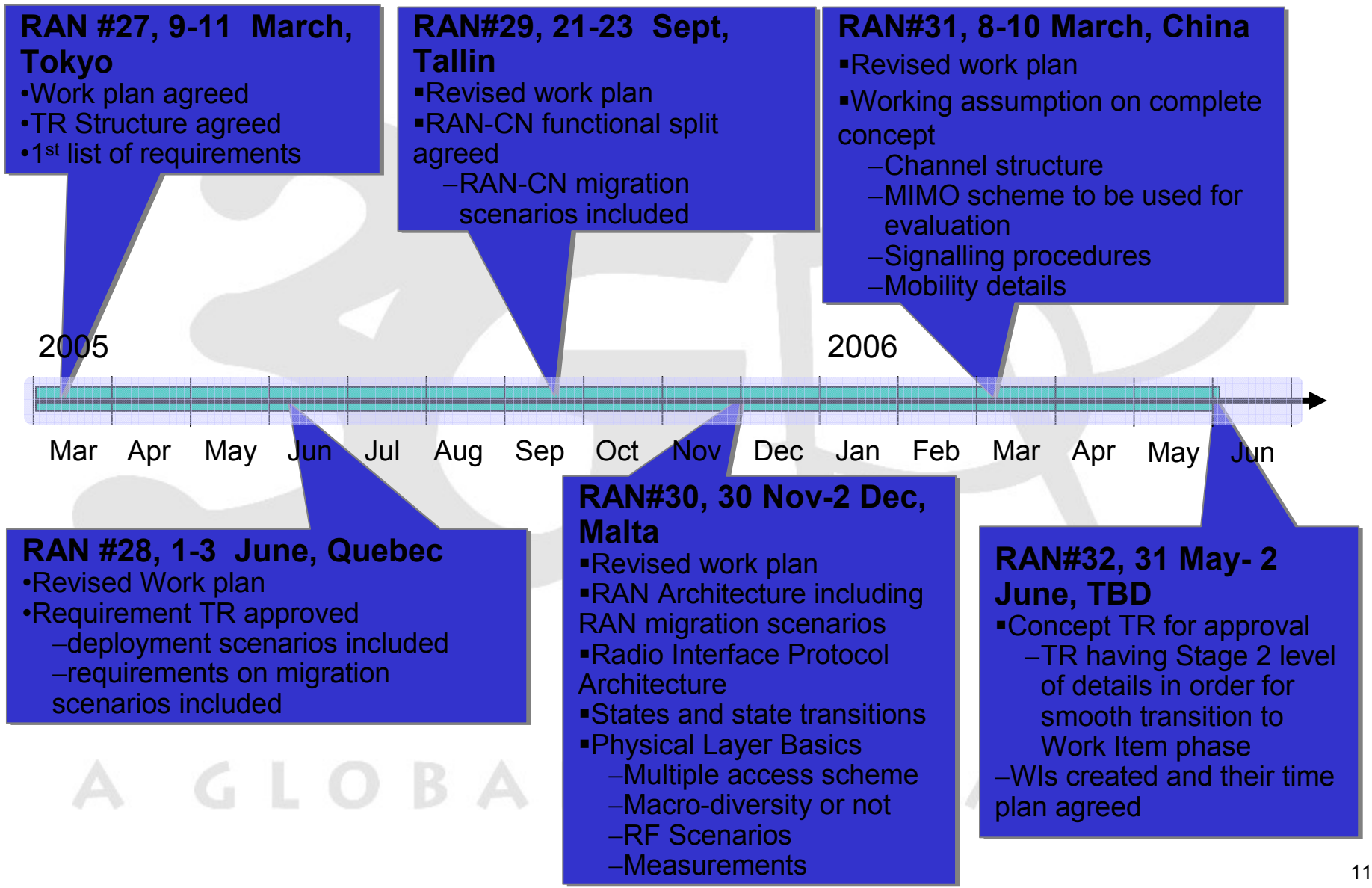
SP-050373 TSG RAN #28 Report

Work Plan for the Long term evolution for the UTRA and UTRAN



Project management

- The New TSG RAN met on March 11th 2005 for 2 hours.
- Following decision by the PCG the election of the Working Group Chairs and Vice chairs will take place during the August collocated meetings, and the previous week for TSG RAN WG5
- It is foreseen that collocation of all WG will apply from November onwards as a principle
- Some clarification of the split of the work between the working groups was once again tackled and advice provided
- Several Working groups are experiencing the need for continuous support from the current experts. Companies are requested to ensure that this will be the case.
- The revised Terms of Reference for RAN WG4 presented 3 months ago were reviewed off line and then approved by the meeting

TSG RAN Meeting Calendar

Meeting #	Date	Host	Location
29	21 - 23 September 2005	European Friends of 3GPP	Tallinn, Estonia
30	30 Nov. - 2 Dec. 2005	European Friends of 3GPP	Malta
31	08 – 10 March 2006		China
32	31 May - 2 Jun 2006		
33	20 - 22 Sep 2006		
34	29 Nov - 1 Dec 2006		

Joint RAN WGs- SA WG2 meeting on Long Term Evolution. 19 – 20 September 2005, Tallin, Estonia, hosted by EF3.

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TSG RAN WG1 Meeting Calendar

Meeting #	Date	Host	Location
42	29 Aug – 02 Sept 2005	European Friends of 3GPP	London, UK
43	07-11 November 2005	Samsung	Korea

- RAN WG1 Ad Hoc on Long Term Evolution: 20 – 21 June 2005, Sophia Antipolis, France,hosted by ETSI
- RAN WG1 #42bis: 3 – 7 October 2005, host and location TBD

TSG RAN WG4 Meeting Calendar

Meeting #	Date	Host	Location
36	29 Aug – 02 Sept 2005	European Friends of 3GPP	London, UK
37	07-11 November 2005	Samsung	Korea

TSG RAN WG2 & WG3 Meeting Calendar

Meeting #	Date	Host	Location
48	29 Aug – 02 Sept 2005	European Friends of 3GPP	London, UK
49	07-11 November 2005	Samsung	Korea

- RAN WG2 Ad Hoc on Long Term Evolution: 20 – 21 June 2005, Sophia Antipolis, France, hosted by ETSI
- Joint RAN WG3 – SA WG2 Ad Hoc on Long Term Evolution: 28 – 30 June 2005, Montreal, Canada, hosted by the North American Friends of 3GPP
- RAN WG2 #48bis: 10 – 14 October 2005, Cannes, France, hosted by EF3.
- RAN WG3 #48bis: 10 – 14 October 2005, Cannes, France, hosted by EF3.

TSG RAN WG5 Meeting Calendar

Meeting #	Date	Host	Location
28	22 - 26 Aug 2005	European Friends of 3GPP	Berlin, Germany
29	7 – 11 November 2005	Samsung	Vancouver, Canada