3GPP TSG-SA #15   SP-020170

Jeju, Korea, 11 - 14 March 2002

TSG-RAN #15 meeting Report

Source TSG-RAN Chairman

TSG-RAN #15 Report

- **OVERVIEW**
  - **Number of CRs on Release '99 :**
    - **191 CRs approved. Most of them were agreed to clarify and hence avoid misinterpretation + inclusion of the security aspects**
  - **Number of CRs on Release 4 only:**
    - **59 CRs approved.**
  - **Number of CRs on Release 5 only:**
    - **117 CRs approved. This high number is justified by the inclusion of HSDPA CRs**
  - **Total number of CRs in RAN including Category A:**
    - **588 CRs approved**
  - **Review of functionality not used in Release '99 resulted in removal of no coding for FDD (from R'99 and Rel-4).**

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- **RELEASE '99 and RELEASE 4**
  - A letter to SDOs requiring that tables shall be provided by the 31st of May to ITU-R WP 8/F was endorsed by TSG-RAN. It will be sent to the PCG.
  - There is still discussion on the usefulness of a bit indicating full or partial testing for terminal. The situation will be reviewed in June.
  - Joint meeting with TSG-T was held. TSG-RAN position on the use of the version agreed at TSG-RAN #15 for test elaboration was agreed: March 2002. Furthermore TSG-RAN WG groups have to support the review of prose description of test cases.

TSG-RAN #15 Report

- **RELEASE 5**
  - **Work on Release 5 is almost completed**
    - **HSDPA has been subject of a lot of CRs from TSG-RAN WG1, WG2 and WG3 (and some WG4). It is considered that the Stage 2 and Stage 3 activities are completed except the work to be done in TSG-RAN WG4. However it was agreed that the element to be included as a result of CRs approval could be referred by ITU-R WP8/F.**
    - **The ITU-R Ad Hoc group was tasked to provide a proposal in response to an LS from ITU-R WP8/F on the schedule for updating ITU-R M.1457.**
    - **After approval by the PCG of the agreement between 3GPP TSG-RAN and 3GPP2 TSG-C not much activity has taken place on modelling. It is foreseen that this should start during the next period prior to TSG-RAN #16.**

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- **RELEASE 5 (continued)**
  - **The following work items have been completed:**
    - **Enhancement on the DSCH hard split mode**
    - **Radio Link Timing Adjustment**
    - **Separation of resource reservation and radio link activation**
    - **Iur Common Transport Channel Efficiency Optimisation**
    - **Iur Neighbouring cell reporting Efficiency Optimisation**

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- **RELEASE 5 (continued)**
  - **The following work items have been completed:**
    - **Node B synchronization for 1.28 Mcps TDD**
    - **Re-arrangement of Iub transport bearers**
    - **IP Transport in UTRAN**
    - **UE Positioning Enhancements for 1.28 Mcps TDD**
    - **RAN work for Intra Domain Connection of RAN Nodes to Multiple CN Nodes ("Iu-flex")**

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- **RELEASE 5 (continued)**
  - **The following work items have been completed:**
    - **High Speed Downlink Packet Access (HSDPA) -** *Physical Layer*
    - **High Speed Downlink Packet Access (HSDPA) -** *layer 2 and 3 aspects*
    - **High Speed Downlink Packet Access (HSDPA) -** *Iub/Iur Protocol Aspects*

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- **RELEASE 5 (continued)**
  - **List of almost completed Release 5 Work items where a delay is felt necessary by TSG-RAN**
    - **TDD Base Station Classification is proposed to be finalised at TSG-RAN #16**
    - **Base Station Classification for 1.28 Mcps TDD option is proposed to be finalised at TSG-RAN #16**
    - **Radio access bearer support enhancement is proposed to be finalised at TSG-RAN #16**
    - **Support of Site Selection Diversity Transmission in UTRAN is proposed to be finalised at TSG-RAN #16**

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- **RELEASE 5 (continued)**
  - **List of almost completed Release 5 Work items where a delay is felt necessary by TSG-RAN**
    - **High Speed Downlink Packet Access (HSDPA) - RF Radio Transmission/ Reception, System Performance Requirements and Conformance Testing is proposed to be finalised at TSG-RAN #16**

TSG-RAN #15 Report

- **RELEASE 5 (continued)**
  - One new work item for Rel-5 requested by the plenary has been discussed. This is concerning UTRAN Sharing for UE in connected mode.
    - The WI was approved, but some delegations requested a review of the potential impact on other parts of the network by TSG-SA WG2. The material already discussed in TSG-RAN WG3 is forwarded to the TSG-SA for this review.
    - It is requested that TSG-SA tasks TSG-SA WG2 to review this material urgently and provide comments to the next meeting of TSG-RAN WG3.

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- **RELEASE 5 (continued)**
  - The problem resides in the fact that in connected mode there is currently no mechanism defined to re-direct the UE in a specific network when coming from a shared area into a non shared area.

  - It is proposed for completion in TSG-RAN #17 with a strong intent to finalise it for June.

  - This work item is not impacting the UE.

  - See Annex + additional documentation provided in directory SA/UTRAN_Sharing on the server.

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- **RELEASE 5 (continued)**
  - **A CR on Location Services for GERAN in Iu Mode was presented to TSG-RAN. TSG-RAN delegates wondered why there should be a difference between the UTRAN Iu and the GERAN Iu on LCS, as would be introduced by this CR. This was felt necessary to be reported to TSG-SA plenary due to its co-ordination role.**

TSG-RAN #15 Report

- **Status of Study items after TSG #15 RAN**
  - **Study items list**
    - **Radio link performance enhancements (Tx diversity): No change in the completion date**
    - **UTRA Wideband Distribution Systems (WDS) is due to be completed at TSG-RAN #19**
    - **Fast Cell Selection (FCS) for HS-DSCH: New completion date TSG-RAN #18**
    - **Mitigating the Effect of CPICH Interference at the UE was completed and a Work Item has been created (see later in this report).**

TSG-RAN #15 Report

- **Status of Study items after TSG #15 RAN**
  - Study items list (continued)
    - SRNS Relocation Procedure enhancement is due to be completed at TSG-RAN #16
    - Introduction of Direct transport bearers between SRNC and Node B is due to be completed at TSG-RAN #16
    - Feasibility Study considering the viable deployment of UTRA in additional and diverse spectrum arrangements is due to be completed at TSG-RAN #17
    - Improvement of inter-frequency and inter-system measurements for 1.28 Mcps TDD is due to be completed at TSG-RAN #16

- **RELEASE 6**
  - **New Work beyond Rel-5 approved at TSG-RAN #15**
    - **Work Items**
      - **Improving Receiver Performance Requirements for the FDD UE (due for TSG-RAN #18). This is a WI resulting from the completed SI on Mitigating the Effect of CPICH Interference at the UE.**
    - **Study Items**
      - **UE Antenna efficiency test methods and requirements (due for TSG-RAN #18). This is a new version of a study item already agreed to be closed in a previous meeting.**

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- **RELEASE 6 (continued)**
  - **MBMS has been reviewed and it was felt that a workshop shall be organised between at least TSG-SA WG1, TSG-SA WG2, TSG-GERAN and TSG-RAN (but open to all of 3GPP) following a proposal established by several companies See Tdoc SP 020171**

Future meetings TSG-RAN

Meeting	Date	Host	Location
RAN#16	04 - 07 June 2002	Motorola	Marco Island, FL, USA
RAN#17	03 - 06 September 2002	Alcatel	Biarritz, France
RAN#18	03 - 06 December 2002	North American Friends of 3GPP	New Orleans, LA, USA
RAN#19	11 - 14 March 2003	UK Friends of 3GPP	Jersey, Channel Islands (British Isles)
RAN#20	10 - 13 June 2003	Nokia	tbd, Finland
RAN#21	16 - 19 September 2003		
RAN#22	09 - 12 December 2003		

TSG-RAN WG1

Meeting	Date	Host	Location
#26	09 - 12 April 2002	Nortel Networks	Paris, France
#27	13 - 16 May 2002	Samsung Electronics	Gyeongju, Korea
#28	02 - 05 July 2002	Nokia, Sonera, TAC, Elisa, Finnet	Oulu, Finland
#29	20 - 23 August 2002	North American Friends of 3GPP	tbd, USA
#30	24 - 27 September 2002 (tbc)	Samsung	tbd, China
#31	12 - 15 November 2002		

TSG-RAN WG2

Meeting	Date	Host	Location
#28	08 - 12 April 2002	J-Phone	Kobe, Japan
#29	13 - 17 May 2002	Samsung Electronics	Gyeongju, Korea
#30	24 - 28 June 2002	Omnitel	Torino, Italy
#31	19 - 23 August 2002	Ericsson	tbd, Sweden
#32	23 - 27 September 2002	CATT	Xi'an, China
#33	11 - 15 November 2002	ETSI	Sophia Antipolis, France

TSG-RAN WG3

Meeting	Date	Host	Location	
#28	08 - 12 April 2002	J-Phone	Kobe, Japan	
#29	13 - 17 May 2002	Samsung Electronics	Gyeongju, Korea	
#30	24 - 28 June 2002	Omnitel (tbc)	tbd, Italy (tbc)	
#31	19 - 23 August 2002	Ericsson	tbd, Sweden	
#32	23 - 27 September 2002	CATT	Xi'an, China	
#33	11 - 15 November 2002	ETSI	Sophia Antipolis, France	

TSG-RAN WG4

Meeting	Date	Host	Location
#22	03 - 05 April 2002	ETSI	Sophia Antipolis, France
#23	13 - 17 May 2002	Samsung Electronics	Gyeongju, Korea
#24	12 - 16 August 2002	Nokia	tbd, Finland
#25	11 - 15 November 2002	North American Friends of 3GPP	tbd, USA

TSG-RAN #15 Report
Annex1

- **Work Item on "Shared Network support in Connected Mode"**

  – **Based on the Release '99 specifications, the CN+UTRAN have mechanisms available to provide UE-specific access restrictions for LAs of the current PLMN and other PLMNs when the UE is in Idle Mode. These mechanisms can be used for implementing shared networks solutions in which, based on roaming agreements, the access restrictions to be applied might be different for different UEs.**

- Mechanisms include UE-specific LOCATION
  UPDATING ACCEPT/REJECT & inclusion of
  LA-specific/UE-specific equivalent PLMN
  information in LOCATION UPDATING ACCEPT.

- Although the Release '99 specifications
  specify these mechanisms for handling the UE
  when in Idle Mode, insufficient mechanisms
  are specified to provide similar access
  restrictions in Connected Mode. In Connected
  mode the UE mobility is handled by the UTRAN
  and the UTRAN does not have the necessary
  information (e.g. roaming agreements) to
  provide a consistent access restriction
  handling in Connected Mode.

TSG-RAN #15 Report
Annex1

- **List of TSG RAN WG3 documents relevant for the issue:**
- **RAN WG3 Tdocs   Title   & Source**
- R3-012385   Support for selective handover in shared networks scenarios
          Ericsson
- R3-012387   Introduction of Shared Networks Handling support Ericsson
- R3-012946   Network Sharing Issues   Nortel Networks
- R3-012983   Support for selective handover in shared networks scenarios
          Ericsson
- R3-012988   Comments on R3-012385" Support for selective handover in shared networks scenarios   Siemens
- R3-013060   Update to R3-012946: Network Sharing Issues   Nortel Networks
- R3-013291   Transfer of subscriber access group member information to UTRAN
          Ericsson

TSG-RAN #15 Report
Annex1

- **List of TSG RAN WG3 documents relevant for the issue (continued):**
- R3-013380   Shared Networks   Ericsson
- R3-013381   Shared networks   Ericsson
- R3-013404   Geographical split Network Sharing   Alcatel
- R3-013460   Support of access rights on Service Areas   Nortel Networks
- R3-020146   Proposed liaison on shared network scenarios considered by TSG-RAN3   Ericsson
- R3-020147   Comparing LA/RA/SA-based solution & SAG-based solution Ericsson
- R3-020166   Discussion on Shared Networks   Alcatel and Nortel Networks
- R3-020167   Shared Networks RANAP modifications Alcatel
- R3-020168   Shared Networks RNSAP modifications Alcatel
- R3-020181   Discussion paper on Shared networks   Lucent
- R3-020284   Update to R3-020146: Proposed liaison on shared network scenarios considered by TSG-RAN3 Ercisson
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Annex1

- ## List of TSG RAN WG3 documents relevant for the issue (continued):

- R3-020366   Transfer of subscriber access group member information to UTRAN   Ericsson
- R3-020367   Transfer of shared network access information to UTRAN   Ericsson
- R3-020430   Rapporteur's e-mail discussion report: "Shared NW solution selection"   Ericsson
- R3-020439   Introduction of the Access Control Function: SAG   Ericsson
- R3-020440   Introduction of the Access Control Function: SNA   Ericsson
- R3-020441   Introduction of Subscriber Access Group access information support   Ericsson
- R3-020442   Introduction of Shared Network Area information support   Ericsson
- R3-020556   Shared Networks: comparison of LA-only and SNA solutions   Alcatel
- R3-020557   Shared Networks RANAP modifications   Alcatel
- R3-020558   Shared Networks RNSAP modifications   Alcatel
- R3-020560   Shared Networks: Additional Discussion   Alcatel