Technical Specification Group, Radio Access Network
Bangkok, Thailand, 6th – 14th December 2000

TSGRP#10(00)606

Source: **RAN WG3 Vice Chairman**

Title: **Report from WG3 vice chairman to TSG RAN**

Document for: **Discussion**

Agenda Item: **5.3.1**

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1. GENERAL

Since the last TSG RAN, RAN WG3 has had two meetings, focusing on corrections for R99. Around 220 CRs are presented for approval.

All R99 open issues presented at RAN#9 have been solved. Besides these, there have been even more contributions to solve other issues. However, still some consistency checking and improvement has been identified as needed, mainly on RNSAP and NBAP specifications to improve their quality.

RAN WG3 has been mainly focusing on R99 issues, thus giving quite little time for progressing the R00 aspects. However, two 3 days ad hocs on IP transport in UTRAN work item was held which allowed some progress.

2. ORGANISATION AND WORKPLAN

The following representatives have been appointed for WG3:

- WG3 chairman: Vacant
- WG3 vice chairman: Jean-Marie Calmel, Nortel (Acting Chairman)
- WG3 secretary: Carolyn Taylor, MCC

Most work has been done in the two subworking groups (SWGs):

- Iu SWG (Chairman: Atte Länsisalmi, Nokia)
- Iur/Iub SWG (Chairman: Gert-Jan van Lieshout, Ericsson)

Per Willars resigned as WG3 chairman and Iur/Iub SWG chairman after the RAN3#16 meeting. A new official was elected at the RAN3#16 meeting. No candidate was proposed for the Chairman position, thus WG3 agreed that the vice chairman would act as chairman. However, it was pointed out that the vice chairman could not attend RAN meetings. It was so decided that the WG3 secretary (Carolyn Taylor, MCC) would do the WG3 reporting to RAN.

Gert-Jan van Lieshout, Ericsson was proposed and elected for the Iur/Iub SWG Chairman position.

Meetings have been held and are planned on the following dates:

Meeting	**Dates**	**Venue, host**
WG3#14	*3 – 7 July, 2000*	*Finland, Nokia*
WG3#15	*21 – 25 August, 2000*	*Germany, Berlin, Siemens*
IP UTRAN ad hoc	27-29 September	Swindon, UK, Motorola
WG3#16	16 – 20 October, 2000	Windsor, UK, Nortel+BT+Vodafone+Motorola
IP UTRAN ad hoc	6 – 8 November	Paris, France, Alcatel
WG3#17	20 – 24 November, 2000	US, Motorola
TSG RAN#10	*6-8 December*	*Bangkok,Thailand,* Unisys Thailand Ltd
QoS optimisation for AAL-2 and Migration to Modification procedure ad hoc	6th - 9th January, 2001	Tokyo, Japan, Japan Telecom

WG3#18	15 - 19 January, 2001	Sweden, Ericsson
IP UTRAN ad hoc	31st January - 2nd February, 2001	Sweden, Telia
WG3#19	26 Feb - 2 March, 2001	Lucent
TSG RAN#11	*14 – 16 March, 2001*	
WG3#20	2 - 6 April, 2001	NEC
WG3#21	21 - 25 May, 2001	Korea, Samsung
TSG RAN#12	*13 – 15 June, 2001*	
WG3#22	27 Aug – 1 Sept, 2001	
WG3#23	26 – 30 November, 2001	

3. GENERAL ISSUES FOR TSG RAN CONSIDERATION

3.1 References to R99 specifications

While solving the open issue of references to RAN4 specification, RAN3 pointed out the following issue: Non dated references to TS or TR shall refer to the latest version of the TS or TR but consistently within one release. Two families of solutions were discussed:

- Using a reference of the form TS 25.401 V3, meaning the latest version V3.x.0 available with in inconvenience of having to change all references when creating a new release.
- Adding a general sentence in the reference section stating that non dated references to 3GPP TS or TR refer to the latest version of the TS or TR within the same release.

RAN3 agreed to bring this issue to TSG RAN for discussion and guidance, allowing consistency across all RAN specifications.

4. R99 TSs AND TRs

Below the status of each document is summarised, together with a list of issues still not completed, i.e. corrections / clarifications will be needed.

4.1 Radio network layer specifications, General

25.401 UTRAN Overall Description
Rapporteur: Jean-Marie Calmel, Nortel
Agreed CRs: RP-000607

25.402 Synchronisation in UTRAN, stage 2
Rapporteur: Thomas Ulrich, Siemens
Agreed CRs: RP-000608

4.2 Radio network layer specifications, Iu

25.410 UTRAN Iu Interface: General Aspects and Principles
Rapporteur: Richard Townend, BT
Agreed CRs: RP-000609

25.413 UTRAN Iu interface RANAP signalling
Rapporteur: Jyrki Jussila, Nokia
Agreed CRs: RP-000612, RP-000613

Solved issue:

- Potential problem: Limitations on RANAP message size when using MAP/TCAP as bearer over the E-interface in the CN

25.415 UTRAN Iu interface user plane protocols
Rapporteur: Martin Israelsson, Ericsson
Agreed CRs: RP-000615

25.419 UTRAN Iu interface: Service Area Broadcast Protocol SABP
Rapporteur: Brendan McWilliams, Vodafone
Agreed CRs: RP-000616

29.108 Application of the Radio Access Network Application Part (RANAP) on the E-interface
Rapporteur: Alexander Vesely, Siemens
Ageed CRs: RP-000634
Solved issue:

- Stage 2 specification of subsequent intra MSC-B handover (GSM – UMTS). *This issue should be studied by N1 since N1 is responsible for the stage 2 specifications in the CN.*

4.3 Radio network layer specifications, Iur/Iub

25.420 UTRAN Iur Interface: General Aspects and Principles
Rapporteur: Babul Miah, Lucent
Agreed CRs: None

25.430 UTRAN Iub Interface: General Aspects and Principles
Rapporteur: Mick Wilson, Fujitsu
Agreed CRs: RP-000626

25.423 UTRAN Iur interface RNSAP signalling
Rapporteur: Göran Rune, Ericsson
Agreed CRs: RP-000618, RP-000619, RP-000620, RP-000621

Solved issue:

- Potential problem with message size limitations for RNSAP on CL SCCP

25.433 UTRAN Iub interface NBAP signalling
Rapporteur: Sungho Choi, Samsung
Agreed CRs: RP-000627, RP-000628, RP-000629, RP-000630

Solved issues:

- Multiple TTI's on one RACH (definitions of RACH, PRACH partitions etc); - *Clarification from RAN2 requested (with LS).*
- Segmentation of very large NBAP messages
- Increased efficiency for large and frequent NBAP messages (e.g. preconfiguration solution)

Issues common for 25.423 and 25.433:
Solved issues:

- Error Cases/Error Handling details: timers for synchronised RL reconfiguration.
- Need text alignment with tabular format (e.g. handling of all optional elements) – *solved for NBAP but not RNSAP.*
- Dated references to R4 mapping tables – *to avoid compatibility problems, the mapping tables must not change.*
- Compressed mode, handling of invalid patterns (TGPSI) (implement agreed principle)
- Preemption at admission control (Alignment to RANAP "preemptable" parameters, specify preemption behaviour, spare/not used priority values.)
- What is the criteria for including the SFN/CFN in the measurement report? Update measurement initiation & reporting procedure text accordingly.
- Implementation of narrowband TDD is unclear with respect to the dDMode parameter extensibility.
- Report periodicity for measurement reporting (currently labelled as a first working assumption – this should be updated or removed)

25.425 UTRAN Iur interface user plane protocols for Common Transport Channel data streams
Rapporteur: Nicolas Drevon, Alcatel
Agreed CRs: RP-000623

25.435 UTRAN Iub interface user plane protocols for Common Transport Channel data streams
Rapporteur: Jean-Marie Calmel, Nortel
Agreed CRs: RP-000632

25.427 UTRAN Iur and Iub interface user plane protocols for DCH data streams

Rapporteur: Woonhee Hwang, Nokia
Agreed CRs: RP-000625

4.4Transport layer specifications

25.411 UTRAN Iu interface Layer 1
Rapporteur: Achim von Brandt, Siemens
Agreed CRs: RP-000610

25.421 UTRAN Iur interface Layer 1
Rapporteur: Achim von Brandt, Siemens
Agreed CRs: None

25.431 UTRAN Iub interface Layer 1
Rapporteur: Achim von Brandt, Siemens
Agreed CRs: None

25.412 UTRAN Iu interface signalling transport
Rapporteur: Cheng-Hock Ng, NEC
Agreed CRs: RP-000611

25.422 UTRAN Iur interface signalling transport
Rapporteur: Babul Miah, Lucent
Agreed CRs: RP-000617

25.432 UTRAN Iub interface signalling transport
Rapporteur: Mick Wilson, Fujitsu
Agreed CRs: None

25.414 UTRAN Iu interface data transport & transport signalling
Rapporteur: Martin Israelsson, Ericsson
Agreed CRs: RP-000614
Solved issue:

- Diffserv codepoint clarifications to the PS domain

25.424 UTRAN Iur interface data transport & transport signalling for CCH data streams
Rapporteur: Nicolas Drevon, Alcatel
Agreed CRs: RP-000622

25.434 UTRAN Iub interface data transport & transport signalling for CCH data streams
Rapporteur: Håkan Persson, Telia
Agreed CRs: RP-000631

25.426 UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams
Rapporteur: Sami Kekki, Nokia
Agreed CRs: RP-000624

25.442 UTRAN Implementations specific O&M transport
Rapporteur: Stawros Orkopoulos, Mannesman
Agreed CRs: None

4.5 Technical reports

25.931 UTRAN Functions, examples on signalling procedures
Rapporteur: Enrico Scarrone, CSELT
Agreed CRs: RP-000633

25.932 Delay Budget within the Access Stratum
Rapporteur: Stefan Hutter, Siemens
Version 2.0.0: RP-000635 (cover sheet), RP-000636 (TR)
Proposed for approval

25.832 Manifestations of handover and SRNS relocation
Rapporteur: Richard Townend, BT

25.831 TSG RAN WG3 Study Items for Future Releases
This TR is dormant.

4.6 Administrative documents

30.531 TSG RAN WG3 Work Plan and Study Items
Editor: Carolyn Taylor, MCC
Version 0.8.5:RP-000687 (cover sheet), RP-000688 (TR)

5 R00 WORK ITEMS

RAN3 has decided to create a TR for each Work Item, in order to:
1. Facilitate agreement of requirements and principles before entering detailed solutions, and
2. Have a placeholder for agreed specification text, until the R00 CRs are to be approved

In general, the time has been very limited in the Iur/Iub SWG for R00 items. In the Iu SWG, more time has been spent on R00 due to higher stability of the R99 Iu specifications.
There has been no assessment about realistic timeplans for the finalisation of the R00 work items.

5.1 Iu related work items, R3 leading

PS-domain handover for realtime services, TR 25.936
Revised to Version 0.3.0, RP-000649 (cover sheet), RP-000650 (TR)

RAB QoS negotiation, TR 25.946
Revised to Version 0.1.1, RP-000655 (cover sheet), RP-000656 (TR)

RAB QoS re-negotiation, TR 25.851
First Version 0.0.2, RP-000659 (cover sheet), RP-000660 (TR)

5.2 Iu related work items, others leading

TrFO / TFO, TR 25.953
CN4 leading
First Version 0.0.3, RP-000663 (cover sheet), RP-000664 (TR)

RAB support enhancements
R2 leading
No activity has been done in R3.

It was agreed to start a TR on the Support Mode for variable SDU sizes (rapporteur from Motorola), although the need for such a new mode was agreed to be dependent on S2 decision on the realisation of multimedia services over IP. Some initial contents agreed for the TR, but the first version has not been issued yet.

5.3 Iur/Iub related work items, R3 leading

RRM optimisation on Iur/Iub, TR 25.935
Revised to Version v0.1.1, RP-000647 (cover sheet), RP-000648 (TR)

Low chiprate TDD option, Iur/Iub aspects, TR 25.937
Revised to Version 0.3.2, RP-000685 (cover sheet), RP-000686 (TR)

UE positioning in UTRAN Iub/Iur protocol aspects, TR 25.850
Revised to Version 0.0.2, RP-000657 (cover sheet), RP-000658 (TR)

5.4 Iur/Iub related work items, others leading

Improved support of inter-frequency/system measurements
R1 leading
No activity has been done in R3.

Hybrid ARQ, TR25.837
R2 leading
First Version 0.1.0, RP-000637 (cover sheet), RP-000638 (TR)

Support for multiple CCTrCHs
R2 leading
No activity has been done in R3.

Node B synchronisation for TDD (Iur/Iub aspects), TR25.838
R1 leading
First Version 0.1.0, RP-000639 (cover sheet), RP-000640 (TR)

Terminal power saving features (Iur/Iub aspects), TR25.938
R1 leading
First Version 0.1.1, RP-000653 (cover sheet), RP-000654 (TR)

DSCH power control improvement in soft handover, TR25.849
R1 leading
First Version 0.0.1, No time to discussion in R3

Improved common DL channel for CELL_FACH state
Study item, R2 leading.
No activity has been done in R3.

Candidate enhancements for RL performance
Study item, R1 leading.
No activity has been done in R3.

USTS (Iur/Iub aspects), TR25.839
Study item, R1 leading.
First Version 0.1.0, RP-000641 (cover sheet), RP-000642 (TR)

Highspeed DL packet access study
Study item, R2 leading.
No activity has been done in R3.

5.5 General UTRAN work items

QoS optimization for AAL2 connections (Q.2630 CS2), TR 25.934
Revised to Version 0.2.1, RP-000645 (cover sheet), RP-000646 (TR)
Ad hoc during February to progress this WI.

IP transport in UTRAN, TR 25.933
Revised to Version 0.4.0, RP-000643 (cover sheet), RP-000644 (TR)
Ad hoc during February to progress this WI.

Migration to Modification Procedure, TR 25.954
Initial Discussion.
Ad hoc during February to progress this WI.