

TSG-SA meeting #4

SP-99313

Miami, FL, USA , 17-19, June,1999

Title: Report of the 4th TSG-RAN meeting
Document for: Discussion/Information
Source: TSG-RAN Chairman

1. Inputs from other groups

Tdoc 358: Open Letter to Standard Organisations From Operators Harmonisation Group on Global 3G (G3G) CDMA Standard. This document was presented for agreement by Nadia Benabdallah from Omnitel. The document contains the harmonised global 3G technical framework for ITU IMT-2000 CDMA proposal. The discussion was postponed until agenda item 11.

Tdoc 387 :LS on Cross-border co-ordination for UMTS systems, ERC TG1. This issue is of more interest to the working groups. Tdoc 394 from Lucent Technologies is a liaison statement to WG1, WG3 and WG4 on a way forward. The next meeting of ERC TG1 is 2-3 September which is before RAN#5. The WGs can therefore respond directly to ERC TG1.

Tdoc 385: LS to WG4 on UTRA carrier raster, RAN WG4. This LS makes proposals to TSG-RAN on the assignment of responsibility for aspects of the UTRA channel raster. New text will be elaborated to define the split of responsibilities between WG2 and WG4.

2. Status reports from working groups, ITU-Ad Hoc

2.1 Report from WG1

Tdoc 320 Report from WG1 chairman. The report was presented by the WG1 chairman Antti Toskala (Nokia). One WG1 meeting has taken place since RAN#3. Several specifications and reports have been advanced and are presented in agenda items 6.1 and 7.1. **Work in WG1 is generally on schedule.**

WG1 seeks guidance on how to deal with contributions when there is already a working assumption and the milestone has passed. WG4 especially relies on stability in the outputs of other groups (see also tdoc 384 in section 4). It was agreed that when a working assumption is made, it should generally be upheld but "the door not completely closed". Changes to an agreed working assumption should only be discussed if there is enough time. Email discussions may be used instead of meeting time. An ad-hoc meeting was held to make some proposals and these are contained in tdoc 405. Tdoc 405 was agreed by TSG-RAN and will be presented to all WGs in a liaison statement (Action D Williams).

The chairman asked WG1 to consider how a chip rate change would impact the work schedule.

2.2 Report from WG2

Tdoc 306: Status report of TSG RAN WG2. The report was presented by the WG2 chairman Denis Fauconnier (Nortel Networks).

Guidance was sought from TSG-RAN on how to define which are mandatory and optional service capabilities. It was reported that this was discussed in T2 and that liaison statements will follow from SA1 and T2 listing a set of service capabilities.

2.3 Report from WG3

Tdoc 354: Status Report RAN WG3. The report was presented by the WG3 chairman Per Willars (Ericsson). Two meetings of WG3 have been held since RAN#3.

WG3 referred a decision regarding Iur protocol architecture to TSG-RAN. TSG-RAN is asked to take a decision on which of three alternatives to use;

alternative 1: CTP/IP only

alternative 2 SS#7 only

alternative 3 both CTP/IP and SS#7.

After a short discussion it became clear that the majority of companies support alternative 3. A further proposal that SS#7 should be mandatory and CTP/IP optional was made. There was a discussion on the implications of making one protocol mandatory. There was a show of hands and more than 70% indicated preference for alternative 3 (both SS#7 and CTP/IP optional) and therefore that was chosen. TS 25.422 will be modified.

2.4 Report from WG4

Tdoc 382: Status Report from RAN WG4. The report was presented by the WG4 chairman, Howard Benn. Work is on schedule. It was reported that WG4 needs support and that there are concerns about the stability of WG1 documents. Tdoc 391 is the WG4 workplan (30.504). There were no issues needing guidance from TSG-RAN.

It was reported that a joint T1/RAN4 ad-hoc meeting was held the previous evening to discuss whether BER or FER should be used for performance measurements. A liaison statement from T1 to TSG-RAN followed but was referred to RAN WG4.

2.5 Report from ITU-Ad Hoc

Tdoc 370: Report of the 17th meeting of ITU-R TG 8/1

Nicola Pio Magnani reported that TSG-RAN proposals were all accepted. The proposal to have radio interface sections (e.g.) UTRA was accepted. User reference was accepted as a good way forward. UTRA must be provided by the next meeting of ITU-R TG 8/1 in November. ITU-R require to use TSG-RAN material in recommendation IMT.RSPC which will have copyright implications. A proposal how to proceed is in tdoc 375.

Tdoc 371: Liaison from ITU-R TG 8/1 on the approval of Recommendation IMT.RSPC and on the provision of relevant information from External Organisations.

Section 6 shows the completion schedule and process flow for Recommendation IMT.RSPC. **ITU-R TG 8/1 requires stable specifications (corresponding to TSG-RAN version 3.x.y) by mid October 1999 to be included in Recommendation IMT.RSPC.** Only core specifications (not conformance test specifications) are required for Recommendation IMT.RSPC. ITU-R will reference TSG-RAN specifications and not edit them in any way. Undated references to TSG-RAN specifications are not allowed by ITU-R. Therefore the workplan for TSG-RAN was reviewed in order for UTRA to be within Recommendation IMT.RSPC.

After discussion it was decided to change the TSG-RAN workplan to bring forward approval of TS 25.102 and TS 25.105 (RF issues on TDD from WG4) to RAN#5 to meet the time table of ITU-R. TSG-RAN workplan on all other specifications agreed in RAN#2 (tdoc 166) are in line with ITU-R timescale.

Chinese narrowband TDD proposal was discussed regarding ITU-R timescale, since there are contributions only in WG1, but not in WG2, WG4 yet. Since there were no delegates from China in the meeting, TSG-RAN could not discuss this subject in detail.

It was separately agreed that all specifications will be sent to ITU-T in August 1999 in their latest versions.

Tdoc 372 Proposed liaison to TSG SA on the ITU-R TG 8/1 revision of Recommendation M.1079

This LS was approved to be sent to TSG-SA.

Tdoc 373 Liaison from ITU-R TG 8/1 on formal description technique proposed for the specification of the radio baseband processing for IMT2000.

WG1 and WG2 chairmen will discuss this document outside the meeting.

Tdoc 374 Proposed procedure to meet the ITU deadlines for the inclusion of UTRAN in the Recommendation IMT.RSPC

There is a table on page 2 summarising the process how to jointly develop the "extract from external materiel" for Recommendation IMT.RSPC. The proposal was agreed.

Tdoc 375 Source: Proposed guidelines for PCG on the use of reference to 3GPP materiel in Recommendation IMT.RSPC

This was approved to be sent to PCG.

Tdoc 376 Liaison from ITU-R TG8/1 on the Harmonization of CDMA mode within IMT-2000

Document provided for information.

3. Approval of draft specifications

3.1 Documents from WG1

Tdoc	TS	Presented as version	Title	Result	Final version
321	25.201	2.1.0	Physical layer -General Description	endorsed	2.1.0
322	25.211	2.1.0	Physical channels and mapping of transport channels onto physical channels (FDD)	endorsed	2.1.0
323	25.212	1.1.0	Multiplexing and channel coding (FDD)	endorsed	2.0.0
324	25.213	2.1.0	Spreading and modulation (FDD)	endorsed	2.1.0
325	25.214	1.1.0	FDD; physical layer procedures	noted	1.1.0
326	25.221	1.1.0	Physical channels and mapping of transport channels onto physical channels (TDD)	noted	1.1.0
327	25.222	1.1.0	Multiplexing and channel coding (TDD)	endorsed	2.0.0
328	25.223	2.1.0	Spreading and modulation (TDD)	endorsed	2.1.0
329	25.224	1.1.0	TDD; physical layer procedures	noted	1.1.0
330	25.231	0.3.0	Physical layer; measurements	noted	0.3.0

3.2 Documents from WG2

Tdoc	Agreed as spec.	Presented as version	Title	Result	Final version
308	25.301	3.0.1	Radio Interface Protocol Architecture	Note 1	3.1.0
309	25.302	2.3.0	Services provided by the physical layer	Endorsed Note 2	2.3.0
310	25.303	2.1.0	UE functions and inter-layer procedures in connected mode	Note 3 approved	3.0.0
311	25.304	1.2.0	UE procedures in Idle Mode	noted	1.2.0
312	25.321	2.1.0	MAC protocol specification	approved	3.0.0
313	25.322	1.1.0	RLC protocol specification	Noted Note 4	1.1.0
314	25.331	1.1.0	RRC protocol specification	Noted	1.1.0

Note 1: Tdocs 331, 332 and 333 contain CRs 25.301-001 (approved), 25.301-002 (approved) and 25.301-003. In CR 25.301-003, the title of subclause 8.2 shall be "Input parameters for ciphering algorithms". The CR was revised as 25.301-003r1 in tdoc 399.

Note 2: Will be elaborated at the next meeting of WG2 and sent for approval by correspondence.

Note 3: It is an open item whether CPCH is associated with a dedicated channel in the downlink as was commented to be the assumption in WG1, while the WG2 document assumed only use of FACH.

Note 4: According to the WG2 workplan, this TS should have been approved at RAN#4 but it was agreed to defer it to the October meeting.

During discussions of these documents, it was observed that there are some discrepancies in the TSG-RAN workplan, so it was agreed that the support team would update the workplan in consultation with the chairmen.

3.3 Documents from WG3

Tdoc	TS	Presented as version	Title	Result	Final version
334	25.401	1.1.1	UTRAN Overall Description	noted	1.1.1
335	25.410	0.2.1	UTRAN Iu Interface: General Aspects and Principles	noted	0.2.1
338	25.411	2.0.1	UTRAN Iu interface Layer 1	**	3.0.0

				approved	
By email	25.412	2.0.0	UTRAN Iu interface signalling transport	** approved	3.0.0
341	25.413	1.0.2	UTRAN Iu interface RANAP signalling	noted	1.0.2
By email	25.414	2.0.0	UTRAN Iu interface data transport & transport signalling	* approved	3.0.0
344	25.415	0.1.3	UTRAN Iu interface user plane protocols	noted	0.1.3
336	25.420	0.1.3	UTRAN Iur Interface: General Aspects and Principles	noted	0.1.3
By email	25.421	2.0.0	UTRAN Iur interface Layer 1	* approved	3.0.0
379	25.422	2.1.0	UTRAN Iur interface signalling transport	** approved Note 1	3.0.0
342	25.423	1.1.1	UTRAN Iur interface RNSAP signalling	noted	1.1.1
By email	25.424	2.0.0	UTRAN Iur interface data transport & transport signalling for CCH data streams	* approved	3.0.0
345	25.425	0.2.0	UTRAN Iur interface user plane protocols for CCH data streams	noted	0.2.0
By email	25.426	2.0.0	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	* approved	3.0.0
347	25.427	0.2.1	UTRAN Iur and Iub interface user plane protocols for DCH data streams	noted	0.2.1
337	25.430	0.1.2	UTRAN Iub Interface: General Aspects and Principles	noted	0.1.2
By email	25.431	2.0.0	UTRAN Iub interface Layer 1	* approved	3.0.0
By email	25.432	2.0.0	UTRAN Iub interface signalling transport	* Note 2	3.0.0
343	25.433	1.0.2	NBAP specification	noted	1.0.2
By	25.434	2.0.0	UTRAN Iub interface data transport &	*	3.0.0

email			transport signalling for CCH data streams	approved	
By email	25.435	0.2.1	UTRAN Iub interface user plane protocols for CCH data streams	noted	0.2.1
340	25.442	0.0.2	UTRAN Implementations specific O&M transport	noted	0.0.2

* Approved by correspondence as version 3.0.0

** Sent for approval by correspondence but objection received. Corrective action taken.

Note 1. An objection was made when the TS was sent for approval by correspondence but following the decision to standardise SS#7 and CTP/IP interfaces, the TS was approved.

Note 2. A CR is needed in WG3 to remove the words "working assumption".

3.4 Documents from WG4

Tdoc	TS	Presented as version	Title	Result	Final version
359	25.101	2.0.0	UE Radio transmission and reception (FDD)	endorsed	2.0.0
362	25.104	2.0.0	BTS Radio transmission and reception (FDD)	endorsed	2.0.0
360	25.102	1.1.0	UE Radio transmission and reception (TDD)	noted	1.1.0
363	25.105	1.1.0	BTS Radio transmission and reception (TDD)	noted	1.1.0
361	25.103	1.0.0	RF parameters in support of RRM	noted	1.0.0
364	25.141	1.0.0	Base station conformance testing (FDD)	Noted	1.0.0
388	25.142	0.0.1	Base station conformance testing (TDD)	Noted	0.0.1

Technical reports from WG1

Tdoc	TR	presented as version	title	decision	final version
-	R1.01	0.1.0	Physical Layer Study Items	-	Not provided

Technical reports from WG2

Tdoc	TR	presented as version	title	decision	final version
	25.921		Guidelines and principles for protocol description and error handling (report)		Not provided

	25.922		RRM strategies		Not provided
317	25.923	1.0.0	Location services (LCS) features	Noted	1.0.0
318	25.924	0.1.0	ODMA	Noted	0.1.0
319	25.925	0.1.0	Broadcast/Multicast services	Noted	0.1.0

Technical reports from WG3

Tdoc	TR	presented as version	title	decision	final version
348	25.931	1.1.1	UTRAN Functions, examples on signalling procedures	noted	1.1.1
350	25.832	2.1.1	Manifestations of handover and SRNS relocation	endorsed	2.1.1
352	30.531	0.1.2	TSG RAN WG3 Work Plan and Study Items	noted	0.1.2
349	25.831	0.0.2	TSG RAN WG3 Study Items for Future Release	noted	0.0.2
351	I3.05	0.2.0	Node B O&M Functional Descriptions	noted	0.2.0

Technical reports from WG4

Tdoc	TR	Presented as version	Title	Result	Final version
391	30.504	1.0.0	Time plan	Noted Note 1	1.0.0
365	25.941	1.0.0	Document structure	noted	1.0.0
366	25.942	1.0.0	RF Scenarios	noted	1.0.0

Note 1: Approval to version 3.0.0 of TS 25.141 and TS 25.142 will be deferred until RAN#6. The TSG-RAN workplan will be modified. TDD power control timescale does not align with WG1. This will be addressed in WG4.

401	25.990 (check)	0.0.4	Vocabulary document	noted	0.0.4
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4. Adjustment of work among WGs

Tdoc 404: Responsibility within TSG RAN for channel assignment and related matters, Lucent Technologies. This proposal was agreed.

Tdoc 409: How to proceed with S25.103 and S25.231. This proposal was approved.

5. Discussion on OHG outputs

The discussion continued on Friday afternoon, following from the presentation of the OHG open letter under item 4 (tdoc 358). The following documents were considered.

- **Tdoc 402: Proposal to implement the OHG proposal in 3GPP.** This document from 22 companies recommends a change of chip rate to 3.84 Mcps and a downlink pilot structure and to start actions to implement hooks and extensions, thus broadly accepting the harmonised global 3G technical framework for ITU IMT-2000 CMDA.
- **Tdoc 320** Report from chairman of WG1. Annex 1 analyses the impact of OHG harmonisation recommendation on UTRA/FDD and UTRA/TDD.
- **Tdoc 398** from Alcatel, Ericsson, Lucent Technologies, Motorola, NEC, Nokia, Nortel Networks, Siemens is an analysis of the OHG proposal and which TSGs are impacted. The impacts on 3GPP Release 99 are harmonisation of the physical layer parameters and identification of the services provided by the UTRA MAC, RLC and RRC layers which would be missing and would need to be added later. These impacts are not expected to influence the current time plan in 3GPP for Release 99. The work is limited to the UTRA radio interface specifications and there should be no implications on the bearers and services provided by UTRAN. Therefore no impact is expected on the work of TSG-SA and TSG-CN.
- **Tdoc 383** from WG4 on Impact of OHG harmonization recommendation on UTRA/FDD and UTRA/TDD. Despite the change of chip rate, channel spacing and roll-off factor should be unchanged. It was proposed that the editors of WG4 TSs should be allowed to update the documents to reflect the OHG proposal, and distribute them independently to save time. Although this document was presented for discussion and information, the document was agreed by TSG-RAN.

TSG-RAN agreed to harmonised global 3G technical framework for ITU IMT-2000 CMDA and the discussion then moved on to how to proceed. **Tdoc 380** from Alcatel, Ericsson, Motorola, Nokia and Nortel is a proposed workplan for handling of the OHG proposal in 3GPP. Steps 1 to 6 of the proposal (clause 4) were agreed. TSG-RAN agreed that a workshop will be held on 24-26 August 1999 to discuss the "hooks and extensions" in L1, L2 and RLC. TSG-RAN will ask PCG to invite members from outside of 3GPP. The TSG-RAN chairman will provide a summary document to TSG-SA with tdoc 380 as an attachment. The date of the meeting may be changed, at the TSG-RAN chairman's discretion, if there is a significant clash with a meeting of another relevant group, in which case there will be an announcement on the email reflector. The chairman of the workshop and the venue will be determined later.

Annex : Meeting schedule

TSG-RAN

	Date	Host	Location
RAN#5	6 - 8 October , 1999		Korea
RAN#6	13-17 December, 1999	ETSI	Sophia Antipolis
RAN#7	13 - 15 March, 2000		
RAN#8	5 - 9 June 2000 (in conjunction with SMG#32)	Mannesmann	Berlin
RAN#9	25 - 29 September, 2000		
RAN#10	11 - 15 December, 2000		

RAN WG1

Date	Host	Location
12-16 July 1999	Nokia	Finland
31 August - 3 September 1999	Bosch	Germany
12 - 15 October 1999	TBD	TBD
30 November - 3 December 1999	Mannesmann	Germany

RAN WG2

Date	Host	Location
5 - 9 July 1999		

RAN WG3

Date	Host	Location
5 - 9 July 1999	Nokia	Helsinki, Finland
23 - 27 August 1999	ETSI	Sophia Antipolis
20 - 24 September 1999		
25 - 29 October 1999		
6 - 10 December 1999		

RAN WG4

Date	Host	Location
27 - 29 July	Hewlett Packard	Edinburgh, UK
7 - 9 Sept	Fujitsu	Makuhari, Japan
26 - 29 Oct	ETSI	Sophia Antipolis
30 Nov - 2 Dec		