

TSG-RAN meeting #4

TSG-RAN#4(99)413

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

**Title:** Final Report of the 4th TSG-RAN meeting containing RAN workplan.  
**Document for:** Approval  
**Source:** 3GPP support team

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19-22 June 1999.

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## 1. Opening of the meeting

The chairman opened RAN#4 at 09.00 on 17 June 1999. Don Zelmer, on behalf of the hosting companies, welcomed delegates to Miami.

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## 2. Approval of the agenda

The agenda is in tdoc 300. The chairman reported that the meeting may be extended by an extra day to Saturday 19 June in order to discuss a proposal from Operator Harmonisation Group (OHG). The input from OHG will be under agenda item 4 and discussion how to handle it will be under item 11. With these clarifications the agenda was agreed.

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## 3. Approval of meeting report of RAN#3

The revised meeting of RAN#3 in tdoc 305 had been distributed via the email reflector and was on the server. There were no further comments. It was approved.

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## 4. 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 302 LS on Definition of ACLR and emissions requirements, ERC TG1.** This issue has been discussed extensively in WG4 and has led to the definition of parameters in TS 25.101 and TS 25.103. One value is different but the manufacturers have been tasked to explain to ERC TG1 that this does not effect their conclusions. No reply is required.

**Tdoc 303 Response to 3GPP TSG RAN LS on Carrier Frequency Raster, ERC TG1.** The technical work proposed in this document has already started in WG4. No reply is required.

**Tdoc 304 LS to TSG-RAN requesting adjustment to terms of reference, RAN WG3.** This was agreed. There are other comments on the terms of reference due to inconsistencies so D Williams made a revised terms of reference ([tdoc 395](#)) which was agreed.

**Tdoc 301 LS regarding RNSAP signalling bearer on UIR, RAN WG3.** See section 5.4.

**Tdoc 355 LS on Comments on QoS report, RAN WG3.** This LS was copied to RAN for information.

**Tdoc 356 LS on Principles on Uu protocol specifications** WG1 and WG2 are requested that the radio interface protocol specifications contain only aspects relevant from the UE point of view. The LS was noted.

**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 394 was approved.](#)

**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.

**Tdoc 384 LS from WG4 to WG1 on power control step size in UE.** This is a response to TSGR1#5(99)774. WG4 requires that power control steps in TS 25.101 are considered stable. The LS was copied to TSG-RAN for information.

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## 5. Status reports from working groups, ITU-Ad Hoc

### 5.1 Report of PCG activity

In the Seoul meeting of PCG, CWTS (China) was welcomed as an organisational partner and GSM Association as a market representation partner.

### 5.2 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.

### 5.3 Report from WG2

**Tdoc 306 Status report of TSG RAN WG2.** The report was presented by the WG2 chairman Denis Fauconnier (Nortel Networks). Tdoc 307 is the workplan.

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.

WG2 need a secretary. The chairman reported that ETSI MCC will interview candidates in July.

Guidance was sought from TSG-RAN on whether timing advance for TDD should be addressed, following a proposal from Siemens. The WG1 point of view is that terminals will support it. WG4 will also address this issue. Therefore WG2 will address the issue.

## 5.4 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. A new specification TS 25.442 has been created. There were 4 liaison statements (see section 4).

WG3 referred a decision regarding Iur protocol architecture to TSG-RAN. Tdoc 301 LS regarding RNSAP signalling bearer on UIR was presented by Per Willars. 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, or alternative 3 both CTP/IP and SS#7. There are three related contributions - tdoc 353, 379, 377. The related specification is in tdoc 339 (TS 25.442).

- **Tdoc 353, Iur Control Plane Signalling Bearer, Motorola.** Proposes both SS#7 and CTP/IP. This document was supported by Mannesmann and Lucent Technologies.
- **Tdoc 379, Iur Specification of alternative protocol stacks in Iur interface, AT&T, BT, CSELT, FT, NTT, DoCoMo, TIM, T-Mobil.** Proposes both SS#7 and CTP/IP protocol stacks. Vodafone prefers a single interface but would not oppose a majority view for both options.
- **Tdoc 377, RNSAP signalling bearer, Nokia.** Proposes SS#7 for Release 99 and CTP/IP for future releases.

After a short discussion it became clear that the majority of companies support alternative 3. Nokia made a further proposal that SS#7 should be mandatory and CTP/IP optional. 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 to remove subclauses 4.2.1 and 4.2.2.

## 5.5 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.

## 5.6 Report from ITU-Ad Hoc

**Tdoc 369 Status Report from ITU ad-hoc contact person.**

The document for was presented for information and was noted.

**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. Use of reference to specification from the external bodies was accepted as a good way forward. UTRA documentation is required to 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 unilaterally 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. Some delegates commented that it is unrealistic to change the timescale.

After discussion it was decided to change the TSG-RAN workplan to bring forward approval of TS 25.102 and TS 25.105 (from WG4) to RAN#5 to meet the timescale of ITU-R. All other TSs required by ITU-R are provided according to the TSG-RAN workplan agreed in RAN#2 (tdoc 166).

There was a discussion on how the Chinese narrowband TDD proposal would be submitted to ITU-R. ~~A liaison statement to PCG and CWTS, to inform CWTS of TSG-RAN discussions, was prepared in tdoc 408. It was decided that the LS will not be sent. This could not be resolved during the meeting so companies with representation in China will deal with this issue outside TSG-RAN.~~

It was separately agreed that all specifications will be sent to ITU-T in August 1999 in their latest versions. together with the "overview" part developed as indicated in tdoc 374.

**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. A few editorial modifications were suggested; they are incorporated in **tdoc 410**.

**Tdoc 375 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.

## 6. Approval of draft specifications

### 6.1 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	1.40.0	TDD; physical layer procedures	noted	1.40.0
330	25.231	0.3.0	Physical layer; measurements	noted	0.3.0

### 6.2 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
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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-RAN](#) workplan, this TS should have been [approved](#) [approved as version 3.0.0](#) at RAN#4 but it was agreed to defer it to [the October meeting RAN#5](#).

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.

### 6.3 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	** approved	3.0.0
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
<a href="#">37939</a> <a href="#">7</a>	25.422	2.1.0	UTRAN Iur interface signalling transport	**	3.0.0

				approved Note 1	
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 email	25.434	2.0.0	UTRAN Iub interface data transport & transport signalling for CCH data streams	* approved	3.0.0
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".

## 6.4 Documents from WG4

Tdoc	TS	Presented	Title	Result	Final
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		as version			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

## 7. Technical reports

### 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
<a href="#">316</a>	25.922	<a href="#">0.2.0</a>	RRM strategies	<a href="#">Noted</a>	<del>Not provided</del> <a href="#">0.2.0</a>
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
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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)	0.01.4	Vocabulary document	noted	0.01.4
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## 8. 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.

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## 9. Adjustment of work with other TSGs

There were no issues for discussion.

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## 10. Output to other groups

Output documents to other groups are recorded in sections 4 and 5.

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## 11. The way forward

The discussion continued on Friday afternoon, following from the presentation of the OHG open letter under item 4 (tdoc 358 that was noted by the meeting). 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, 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 400** from Golden Bridge Technology proposes a change to the text of impact of OHG harmonization recommendation on UTRA/FDD and UTRA/TDD. This was deferred to WG1 for discussion.
- **Tdoc 389** from ARIB recommends endorsement of the OHG proposal.
- **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 the 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 on the basis of Tdoc 402 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 of 3GPP2 and TIA and any other relevant bodies. 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 by the chairman.

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## 12. Closing

The chairman closed the meeting at 18.00 on Friday afternoon 18 June 1999 and thanked all delegates for their participation.

## Annex A: List of delegates

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## Annex B: List of documents

RP-99300	Agenda	Chairman
RP-99301	LS regarding RNSAP signalling bearer on lur	RAN WG3 Chairman
RP-99302	LS on Definition of ACLR and emissions requirements	ERC TG1
RP-99303	Response to 3GPP TSG RAN LS on Carrier Frequency Raster	ERC TG1
RP-99304	Liaison to TSG-RAN to Request Adjustment to the Terms of Reference	RAN 3 (A. De La Torre)
RP-99305	Revised report from RAN#3 meeting	Secretary
RP-99306	Status report of RAN WG2	RAN WG2 Chairman
RP-99307	Deliverables and Workplan of RAN WG2	RAN WG2 Chairman
RP-99308	25.301 3.0.0 – Radio Interface Protocol Architecture	RAN WG2
RP-99309	25.302 2.0.0 Services provided by the physical layer	RAN WG2
RP-99310	25.303 2.1.0 UE functions and inter-layer procedures in connected	RAN WG2
RP-99311	25.304 1.0.0 UE procedures in Idle Mode	RAN WG2
RP-99312	25.321 2.0.0 Medium Access Control (MAC) Protocol Specification	RAN WG2
RP-99313	25.322 1.0.0 Radio Link Control (RLC) Protocol Specification	RAN WG2
RP-99314	25.331 1.0.0 Radio Resource Control (RRC) Protocol Specification	RAN WG2
RP-99315	25.921 1.0.0 Guidelines and principles for protocol description and error handling	RAN WG2
RP-99316	25.922 0.4.42.0 RRM Strategies	RAN WG2
RP-99317	25.923 1.0.0 Location Services (LCS) features	RAN WG2
RP-99318	25.924 0.0.1 ODMA	RAN WG2
RP-99319	25.925 0.0.2 Broadcast/Multicast services	RAN WG2
RP-99320	TSG RAN WG1 Chairman's report	RAN WG1 Chairman
RP-99321	TS 25.201 V2.1.0	RAN WG1
RP-99322	TS 25.211 V2.1.0	RAN WG1
RP-99323	TS 25.212 V1.1.0	RAN WG1
RP-99324	TS 25.213 V2.1.0	RAN WG1
RP-99325	TS 25.214 V1.1.0	RAN WG1
RP-99326	TS 25.221 V1.1.0	RAN WG1
RP-99327	TS 25.222 V1.1.0	RAN WG1
RP-99328	TS 25.223 V2.1.0	RAN WG1
RP-99329	TS 25.224 V1.1.0	RAN WG1

RP-99330	TS 25.231 V0.3.0	RAN WG1
RP-99331	TS25.301 V3.0.1 CR001: Addition of Common Packet Channel (CPCH)	RAN WG2
RP-99332	TS25.301 V3.0.1 CR002: Proposed modifications of MAC functions	RAN WG2
RP-99333	TS25.301 V3.0.1 CR003: Proposed addition to TS 25.301 on ciphering model	RAN WG2
RP-99334	25.401 UTRAN Overall Description	RAN WG3
RP-99335	25.410 UTRAN Iu Interface: General Aspects and Principles	RAN WG3
RP-99336	25.420 UTRAN Iur Interface: General Aspects and Principles	RAN WG3
RP-99337	25.430 UTRAN Iub Interface: General Aspects and Principles	RAN WG3
RP-99338	25.411 UTRAN Iu interface Layer 1, v 2.0.1	RAN WG3
RP-99339	25.422 UTRAN Iur interface signalling transport, v 2.0.1	RAN WG3
RP-99340	25.442 UTRAN Implementations specific O&M transport	RAN WG3
RP-99341	25.413 UTRAN Iu interface RANAP signalling	RAN WG3
RP-99342	25.423 UTRAN Iur interface RNSAP signalling	RAN WG3
RP-99343	25.433 UTRAN Iub interface NBAP signalling	RAN WG3
RP-99344	25.415 UTRAN Iu interface user plane protocols	RAN WG3
RP-99345	25.425 UTRAN Iur interface user plane protocols for CCH data streams	RAN WG3
RP-99346	25.435 UTRAN Iub interface user plane protocols for CCH data streams	RAN WG3
RP-99347	25.427 UTRAN Iur and Iub interface user plane protocols for DCH data streams	RAN WG3
RP-99348	25.931 UTRAN Functions, examples on signalling procedures	RAN WG3
RP-99349	25.831 TSG RAN WG3 Study Items for Future Release	RAN WG3
RP-99350	25.832 Manifestations of handover and SRNS relocation	RAN WG3
RP-99351	I3.05 NodeB O&M Functional Descriptions	RAN WG3
RP-99352	30.531 TSG RAN WG3 Work Plan and Study Items	RAN WG3
RP-99353	Iur Control Plane Signalling Bearer	Motorola
RP-99354	RAN WG3 status report	RAN WG3 Chairman
RP-99355	LS on Comments on QoS report	RAN WG3
RP-99356	LS on Principles on Uu protocol specifications	RAN WG3
RP-99357	Timing Advance Mechanism for TDD	Siemens
RP-99358	Open Letter to Standard Organizations From Operators Harmonization Group on Global 3G (G3G) CDMA Standard	Operators Harmonization Group (OHG)

RP-99359	25.101 UE Radio transmission and reception (FDD)	RAN WG4
RP-99360	25.102 UE Radio transmission and reception (TDD)	RAN WG4
RP-99361	25.103 RF parameters in support of RRM	RAN WG4
RP-99362	25.104 BTS Radio transmission and reception (FDD)	RAN WG4
RP-99363	25.105 BTS Radio transmission and reception (TDD)	RAN WG4
RP-99364	25.141 Base station conformance testing (FDD)	RAN WG4
RP-99365	25.941 RF Introduction	RAN WG4
RP-99366	25.942 RF system scenarios	RAN WG4
RP-99367	25.113 BTS EMC	RAN WG4
RP-99368	CPICH for acquisition purposes	Golden Bridge Technology
RP-99369	Status Report	ITU ad hoc
RP-99370	Report of the 17th meeting of ITU-R TG 8/1	ITU ad hoc
RP-99371	Liaison from ITU-R TG 8/1 on the approval of Recommendation IMT.RSPC	ITU ad hoc
RP-99372	Proposed liaison to TSG SA on the ITU-R TG 8/1 revision of rec M.1079	ITU ad hoc
RP-99373	Liaison from ITU-R TG 8/1 on formal description technique proposed for the specification of the radio baseband processing for IMT2000.	ITU ad hoc
RP-99374	Proposed procedure to meet the ITU deadlines for the inclusion of UTRAN in the Recommendation IMT.RSPC	ITU ad hoc
RP-99375	Proposed guidelines for PCG on the use of reference to 3GPP material in Recommendation IMT.RSPC	ITU ad hoc
RP-99376	Liaison from ITU-R TG8/1 on the Harmonization of CDMA mode within IMT-2000	ITU ad hoc
RP-99377	RNSAP Signalling Bearer	Nokia
RP-99378	3G Security; Integration Guidelines	BT
RP-99379	Specification of alternative protocol stacks on lur interface	AT&T, BT, CSELT, FT, NTT DoCoMo, TIM, T-Mobil
RP-99380	Procedure to handle the OHG harmonisation results in 3GPP	Nokia

RP-99381	Proposal for 3G and SMG Specification Handling	3GPP Support Group
RP-99382	Chairman's Report from WG4	RAN WG4
RP-99383	LS on Harmonization	RAN WG4
RP-99384	LS to WG1 on Power control step size	RAN WG4
RP-99385	LS on Frequency raster	RAN WG4
RP-99386	A flexible method for defining RF channels for UMTS	Lucent Technologies
RP-99387	Liaison Statement from ERC TG1 on border issues	CEPT ERC TG1
RP-99388	25.142 TDD Base station conformance test specification	RAN WG4
RP-99389	Regarding the proposal of OHG (Operators Harmonization Group) Toronto meeting	ARIB
RP-99390	The Current Situation of ARIB Specification Development Process for IMT-2000	ARIB
RP-99391	30.504 WG4 Time Plan	RAN WG4
RP-99392	TSG-RAN related issues from 3GPP OP#1 meeting	3GPP OP (ARIB)
RP-99393	UE carrier raster to reduce search time	Ericsson, Siemens, Nokia
RP-99394	(Draft) LS on Cross Border co-ordination for UMTS Systems	Lucent Technologies [TSG RAN ]
RP-99395	Revised Terms of Reference	TSG-RAN secretary
RP-99396	LS on physical layer Baseline Implementation Capabilities from WG1 to TSG-TWG2	WG1 Chairman
RP-99397	25.422 v.2.1.0 IUR signalling bearer	
RP-99398	Analysis of the OHG proposal	Alcatel, Ericsson, Lucent Technologies, Motorola, NEC, Nokia, Nortel Networks, Siemens
RP-99399	TS25.301 V3.0.1 CR003: Proposed addition to TS 25.301 on ciphering model (replacing RP-99-333)	RAN WG2
RP-99400	CPICH for acquisition purposes (replacing RP-99-368)	Golden Bridge Technology
RP-99401	25.990 Vocabulary Document	Editor
RP-99402	Proposal to implement the OHG Proposal in 3GPP	Alcatel, Ericsson, Fujitsu, Japan Telecom, Lucent Technologies, Mannesmann Mobilfunk, Mitsubishi, Motorola, NEC, Nokia, Nortel Networks, NTT DoCoMo, Omnitel, Panasonic, Qualcomm, Samsung, Siemens, Telia, TIM, T-Mobil, Vodafone
RP-99403	LS to TSG RAN and SA about BER or FER based performance	TSG T WG1 Chairman

	requirements	
RP-99404	Allocated	
RP-99405	Definition and methodology in TSG RAN Working Groups	RAN Chairs
RP-99406	LS to TSG RAN and SA about BER or FER based performance requirements <i>same as RP-99403</i>	TSG T WG1 Chairman
RP-99407	UMTS Forum welcomes positive news on 3G Harmonization	UMTS Forum/3GPP Coordination group
RP-99408	<del>LS to CWTS on harmonisation activities.</del>	<del>ITU ad-hoc</del>
RP-99409	<del>How to proceed with S25.103 and S25.231</del>	
RP-99410	<del>Procedure to meet the ITU deadlines for the inclusion of UTRAN in the Recommendation IMT.RSPC</del>	
RP-99411	<del>Draft Report of the 4th TSG-RAN meeting</del>	<del>ETSI MCC</del>
RP-99412	<del>Revised draft report of 4th RAN meeting including RAN workplan</del>	<del>ETSI MCC</del>

## Annex C TSG-RAN workplan

This is a revised version of tdoc 166/99 which was approved in RAN#2 in Fort Lauderdale. The following is taken into account.

- Decisions made in RAN#4 meeting (see tdoc 411/99)
- WG3 workplan (tdoc 352/99)
- WG4 workplan (tdoc 391/99)

### Revision handling of the specifications

The specifications in this work plan are version numbered according to a three digit numbering system. The first digit is increased when a new version is approved by the RAN TSG. The second digit is increased when a new version is approved by a Working Group. The third digit is increased after every new version released by the editor. For example, version V0.0.1 is the first version of a specification created by the editor. Version V0. 1.0 is the first version approved by a Working Group and version V1.0.0 is the first version approved by the RAN TSG. For each new version the history sheet of the specification shall incorporate a list of the stable and agreed parts of the specification. We also propose that the first digit also has the following meaning:

- V1.0.0 is a Draft Specification. The Draft Specification should be approved by the RAN TSG. A Draft specification does not need to be complete, but it should be clearly marked in the specification what is stable and agreed and what is not stable and not agreed. For the items that are stable and agreed the change request procedure applies.
- V2.0.0 is the First Complete specification. The First Complete Specification should be approved by the RAN TSG. For a First Complete Specification the change request procedure applies
- V3.0.0 is the Release 99 of the 3GPP RAN Specifications.

Note 1: According to the time plan agreed at the 3GPP RAN TSG#1 meeting all specifications should at least be in version V1.0.0 in April 1999.

Note 2: According to the time plan agreed at the 3GPP RAN TSG#1 meeting all specifications should be in version V3.0.0 in December 1999.

Note 3: It is not necessary to have a Specification in version V1.x.y before it becomes a version V2.0.0 Specification.

Note 4: It is not necessary to have a Specification in version V2.x.y before it becomes a version V3.0.0 (Release 99) Specification.

Note 5: The version number method should be aligned with the other 3GPP TSG, therefore the definitions above may change.

### Specifications and Milestones

Please note - changes to the schedule agreed in RAN#2 in Fort Lauderdale are shown in blue.

Responsible Group	Specification and tasks	R	R	R	R	R	R
		A	A	A	A	A	A
		N	N	N	N	N	N
		#	#	#	#	#	#
		1	2	3	4	5	6
RAN	<a href="#">TS-TR 25.945-990</a> – Vocabulary for the 3GPP RAN TSG			A		B	C
WG1	TS 25.201 – Physical layer general description			A		B	C
WG1	TS 25.211 – Transport channels and physical channels (FDD)			A		B	C
WG1	TS 25.212 – Multiplexing and channel coding (FDD)			A		B	C
WG1	TS 25.213 – Spreading and modulation (FDD)			A		B	C

WG1	TS 25.214 – Physical layer procedures (FDD)			A	B	C
WG1	TS 25.221 – Transport channels and physical channels (TDD)			A	B	C
WG1	TS 25.222 – Multiplexing and channel coding (TDD)			A	B	C
WG1	TS 25.223 – Spreading and modulation (TDD)			A	B	C
WG1	TS 25.224 – Physical layer procedures (TDD)			A	B	C
WG1	TS 25.231 – Measurements			A	B	C
WG2	TS 25.301 – Radio Interface Protocol Architecture			B		C
WG2	TS 25.302 – Services Provided by the Physical Layer			A	B	C
WG2	TS 25.303 – UE Functions and Inter-layer procedures in Connected Mode			B		C
WG2	TS 25.304 – UE Functions Related to Idle Mode			A	B	C
WG2	TS 25.321 – Medium Access Control (MAC) Protocol Specification			B		C
WG2	TS 25.322 – Radio Link Control (RLC) Protocol Specification			A	B	C
WG2	TS 25.331 – Radio Resource Control (RRC) Protocol Specification			A	B	C
WG3	TS 25.401 – RAN Overall Description			A	B	C
WG3	TS 25.410 – General aspects & Principles of Iu interface between CN and RAN (function split, protocol structure)			A	B	C
WG3	TS 25.411 – Iu interface Layer 1			B		C
WG3	TS 25.412 – Iu interface signalling transport			B		C
WG3	TS 25.413 – Iu interface CN-RAN signalling			A		C
WG3	TS 25.414 – Iu interface data transport & transport signalling			B		C
WG3	TS 25.415 – Iu interface CN-RAN user plane protocols			A	B	C
WG3	TS 25.420 – General aspects & Principles of Iur interface (function split, protocol structure)			A	B	C
WG3	TS 25.421 – Iur interface Layer 1			B		C
WG3	TS 25.422 – Iur interface signalling transport			B		C
WG3	TS 25.423 – Iur interface RNC-RNC signalling			A		C
WG3	TS 25.424 – Iur interface data transport & transport signalling for CCH data streams			B		C
WG3	TS 25.425 – Iur interface user plane protocols for CCH data streams			A	B	C
WG3	TS 25.426 – Iur & Iub interface data transport & transport signalling for DCH data streams			B		C
WG3	TS 25.427 – Iur & Iub interface user plane protocol for DCH data streams			A	B	C
WG3	TS 25.430 – General aspects & Principles of Iub interface (function split, protocol structure)			A	B	C
WG3	TS 25.431 – Iub interface Layer 1			B		C
WG3	TS 25.432 – Iub interface signalling transport			B		C
WG3	TS 25.433 – Iub interface RNC-NodeB signalling			A		C



WG3	TS 25.434 – Iub interface data transport & transport signalling for CCH data streams			B			C
WG3	TS 25.435 – Iub interface RNC-NodeB user plane protocols for CCH data streams			A		B	C
WG3	TS 25.442 – UTRAN Implementations specific O&M transport				A	B	C
WG4	TS 25.101 – UE TX & RX (FDD)			A		B	C
WG4	TS 25.104 – BTS TX & RX (FDD)			A		B	C
WG4	TS 25.102 – UE TX & RX (TDD)			A		B	C
WG4	TS 25.105 – BTS TX & RX (TDD)			A		B	C
WG4	TS 25.103 – RF parameters			A			C
WG4	TS 25.141 – BS Conformance Test (FDD)			A			B
WG4	TS 25.142 – BS Conformance Test (TDD)			A			B
WG4	TS 25.113 – BS EMC			A			C
WG4	TR 25.941 – Document Structure						B
WG4	TR 25.942 – RF System Scenarios						B

**Table 1:** List of RAN Specifications to be written by the 3GPP RAN TSG and its Working Groups. The 1st column indicate which group that has the responsibility to write the specification (the RAN TSG should approve all specifications). The 2<sup>nd</sup> column is a list of all specifications to be written. The last columns are deadlines for the RAN TSG approval of the specifications, i.e., at which RAN TSG meeting the specification should be approved.

In the last columns:

“A” means that a version V1.0.0 (Draft Specification) should be available,

“B” means that a version V2.x.y (First Complete Specification) should be approved by TSG-RAN to become version 3.0.0 and enter change control, and

“C” means that the version V3.x.y (Release 99) should be frozen by TSG-RAN and no new features or functionality will be included. Only corrective change requests will be considered.

Comments from TSG-RAN chairman:

Although it was not discussed in RAN#4 meeting, it is necessary to clarify freezing timing of each document for release’99.

Chairman considers that;

All specifications need to be approved to be "C" at RAN#6. There are some exceptions on R4 documents.

- TS25.103, TS25.113 need to be frozen at RAN#6 meeting.
- TS25.141, TS25.142 need not to be frozen at RAN#6.
- Freezing date for TS25.141, TS25.142 need to be clarified.

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## Annex D: 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	ETSI	Sophia Antipolis
16 – 19 August 1999	ETSI	Sophia Antipolis
20 – 23 September 1999	Telelogic	Malmö
2 – 5 November 1999		Korea
5 – 10 December 1999		

### RAN WG3

<b>Date</b>	<b>Host</b>	<b>Location</b>
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

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