

TSG-RAN meeting #9
Oahu, HI, USA, 20-22 September 2000

RP-000393

Source: RAN WG4 Chairman

Title : Status report for RAN WG4

1 Introduction

This document contains the status report of 3GPP TSG RAN WG4 at RAN#9.

Good progress has been made since RAN#8. The number and magnitude of corrections to the BTS and UE release 99 specifications is reducing, and yet again significant progress has been made on the RRM documents. More corrections to the RRM documents should be expected at RAN #10.

Work on release 4 (R00) work items is also progressing well. A separate document has been sent to RAN with the work items that RAN WG4 believe they should be working on. The report on the low chip rate TDD option is ready for approval by RAN. Several new reports have been started but are not yet ready for RAN approval. Concern has been raised over the number of work items that RAN 4 has to raise; it is not entirely apparent what the benefit of raising work items for very small work items.

1 physical meeting, one joint adhoc (RRM), 215 input documents, 80 delegates per meeting, 76 approved CR to be presented to RAN.

The following contains the status for each report or specification from RAN WG4

Spec	Title	Ver	No CRs	After RAN ver
25.101	UE Radio transmission and reception (FDD)	3.3.0	16	3.4.0
25.102	UE Radio transmission and reception (TDD)	3.3.0	4	3.4.0
25.104	BTS Radio transmission and reception (FDD)	3.3.0	4	3.4.0
25.105	BTS Radio transmission and reception (TDD)	3.3.0	7	3.4.0
25.123	Support of RF parameters in Radio Resource Management	3.2.0	11	3.3.0
25.133	Support of RF parameters in Radio Resource Management	3.2.0	11	3.3.0
25.141	Basestation conformance testing (FDD)	3.2.0	12	3.3.0
25.142	Basestation conformance testing (TDD)	3.2.1	10	3.3.0
25.113	Basestation EMC	3.2.0	1	3.3.0
25.941	Document Structure	3.1.0	0	
25.942	RF System scenarios	2.3.0		

2 Items that require actions from RAN plenary

None

3 25.101

3.1 Status of the document

Work concluded since last RAN meeting

- Corrections

3.2 Change Requests presented for approval

The following CRs are in RP-000394

CR list for TS 25.101

TS	RAN4 Tdoc	CR number	Title	TYPE	Current TS version	New TS version
25.101	542	71	Downlink power control, wind up effects	F	3.3.1	3.4.0
25.101	550	72	Inclusion of OCNS definition for performance tests	F	3.3.1	3.4.0
25.101	553	63	Corrections to DL compressed mode tests in TS 25.101	F	3.3.1	3.4.0
25.101	554	64	Combining of TPC commands in soft handover	F	3.3.1	3.4.0
25.101	560	65	Clarifications for power steps in RACH/CPCH message transmission	F	3.3.1	3.4.0
25.101	561	66	Editorial corrections for TS 25.101	F	3.3.1	3.4.0
25.101	595	67	Corrections to power control	F	3.3.1	3.4.0
25.101	657	68	Corrections for compressed mode patterns	F	3.3.1	3.4.0

25.101	665	69	Editorial modification for BTFD measurement channels	F	3.3.1	3.4.0
25.101	691	75	Editorial modification to Annex A.5 of TS 25.101	F	3.3.1	3.4.0
25.101	693	76	Tap magnitudes and phases for Birth-Death propagation conditions	F	3.3.1	3.4.0
25.101	700	73	Removal of confidence levels	F	3.3.1	3.4.0
25.101	701	74	Corrections to all tests with power control ON in TS 25.101	F	3.3.1	3.4.0
25.101	728	70	Definition of period for frequency error	F	3.3.1	3.4.0
25.101	762	77	UE emission mask measurement filter definition correction for TS 25.101	F	3.3.1	3.4.0
25.101	775	78	Handling of measurement uncertainties in UE radio conformance testing (FDD)	F	3.3.1	3.4.0

4 25.102

4.1 Status of the document

Work concluded since last RAN meeting

- Corrections

4.2 Change Requests presented for approval

The following CRs are in RP-000395:

TS	RAN4 Tdoc	CR number	Title	TYPE	Current TS version	New TS version
25.102	604	32	Performance requirements with TFCI decoding for TDD UE	F	3.3.0	3.4.0
25.102	699	33	Performance test for UE power control in downlink	F	3.3.0	3.4.0
25.102	728	34	Definition of period for frequency error	F	3.3.0	3.4.0
25.102	776	35	Handling of measurement uncertainties in UE radio conformance testing (TDD)	F	3.3.0	3.4.0

5 25.104

5.1 Status of the document

Work concluded since last RAN meeting

- Corrections

5.2 Change Requests presented for approval

The following CR is in RP-000396

TS	RAN4 Tdoc	CR number	Title	TYPE	Current TS version	New TS version
25.104	571	49	Correction to 25.104 ch. 6.6.3.6	F	3.3.0	3.4.0
25.104	626	50	Corrections to spectrum mask	F	3.3.0	3.4.0
25.104	693	52	Tap magnitudes and phases for Birth-Death propagation conditions	F	3.3.0	3.4.0
25.104	773	51	Handling of measurement uncertainties in Base station conformance testing (FDD)	F	3.3.0	3.4.0

6 25.105

6.1 Status of the document

Work concluded since last RAN meeting

- Corrections

6.2 Change Requests presented for approval by category

The following CRs are in RP-000397:

TS	RAN4 Tdoc	CR number	Title	TYPE	Current TS version	New TS version
25.105	600	39	Maximum frequency deviation for receiver performance.	F	3.3.0	3.4.0
25.105	603	42	Performance requirements with TFCI decoding	F	3.3.0	3.4.0
25.105	627	40	Corrections to spectrum mask	F	3.3.0	3.4.0
25.105	638	43	Inner Loop Power Control	F	3.3.0	3.4.0
25.105	655	44	BS Transmit ON/OFF time mask for TDD-mode	F	3.3.0	3.4.0
25.105	777	41	Handling of measurement uncertainties in base station radio conformance testing (TDD)	F	3.3.0	3.4.0
25.105	728	45	Definition of period for frequency error	F	3.3.0	3.4.0

7 25.941

7.1 *Status of the document*

Document is stable and complete.

7.2 *Change Requests presented for approval*

None

8 25.113

Work completed since last RAN meeting

- Corrections

8.1 *Change Requests presented for approval*

The following CRs are in RP-000398:

TS	RAN4 Tdoc	CR number	Title	TYPE	Current TS version	New TS version
25.113	741	3	Alignment of EMC requirements.	F	3.2.0	3.3.0

9 25.123 / 25.133

Work since last RAN meeting

- Major improvements made in the RRM area
- Editorial corrections
- Additional performance requirements
- Document restructured

Work not completed

- Performance results in some sections

9.1 Change Requests presented for approval

The following CRs are in RP-000399 and RP-000479:

CR list for TS 25.123

TS	RAN4 Tdoc	CR number	Title	TYPE	Current TS version	New TS version
25.123	601	18	Repetition Period of System Information	F	3.2.0	3.3.0
25.123	602	19	RRC connection mobility in cell_FACH, cell_PCH and URA_PCH	F	3.2.0	3.3.0
25.123	639	20	Basestation SIR Measurement	F	3.2.0	3.3.0
25.123	640	21	UE SIR Measurement Accuracy	F	3.2.0	3.3.0
25.123	682	17	Basestation Physical Channel BER Measurement	F	3.2.0	3.3.0
25.123	686	22	UE TS ISCP range/mapping correction	F	3.2.0	3.3.0
25.123	688	23	Alignment of TDD measurements for UE: SFN-CFN observed time difference	F	3.2.0	3.3.0
25.123	689	24	UTRAN Transport Channel BLER	F	3.2.0	3.3.0
25.123	723	25	Accuracy requirements for Node-B synchronisation	F	3.2.0	3.3.0

25.123	747	26	Alignment of TDD measurements with FDD: GPS related measurements	F	3.2.0	3.3.0
25.123	779	16	Handling of measurement uncertainties in conformance testing (TDD) for RRM measurements	F	3.2.0	3.3.0

CR list for TS 25.133

TS	RAN4 Tdoc	CR number	Title	TYPE	Current TS version	New TS version
25.133	617	43	Inclusion of UTRAN measurements in 25.133	??	3.2.0	3.3.0
25.133	698	42	Revision of requirement and range of measurement for CPCH	??	3.2.0	3.3.0
25.133	745	36	Corrections to definitions, symbols and abbreviations	F	3.2.0	3.3.0
25.133	761	44	Proposal for section 7 and A.7	F	3.2.0	3.3.0
25.133	766	46	Proposal for section 6	F	3.2.0	3.3.0
25.133	768	41	Proposal for section 9	F	3.2.0	3.3.0
25.133	769	45	Text proposal for section A.1, A.2 and A.3	F	3.2.0	3.3.0
25.133	780	37	Handling of measurement uncertainties in Base station conformance testing (FDD) for RRM measurements	F	3.2.0	3.3.0
25.133	781	38	Proposal for section 4	F	3.2.0	3.3.0
25.133	782	39	Proposal for section 5	F	3.2.0	3.3.0
25.133	783	40	Proposal for section 8	F	3.2.0	3.3.0

10 25.141

Work concluded since last RAN meeting

- Corrections

10.1 Change Requests presented for approval

The following CRs are in RP-000470:

TS	RAN4 Tdoc	CR number	Title	TYPE	Current TS version	New TS version
25.141	628	38	Corrections to spectrum mask	F	3.2.0	3.3.0
25.141	631	39	Editorial corrections for TS 25.141	F	3.2.0	3.3.0
25.141	666	47	Clarification of applicability of environmental range spec in section 4	F	3.2.0	3.3.0
25.141	670	48	Clarification of "confidence level of 95%" in section 4.1	D	3.2.0	3.3.0
25.141	692	40	Global In-Channel TX-Test for use as annex in 25.141	F	3.2.0	3.3.0
25.141	704	41	Reference measurement channels	F	3.2.0	3.3.0
25.141	705	44	Corrections to spectrum mask measurement method	F	3.2.0	3.3.0
25.141	725	43	Clarifications of modulation accuracy and code domain error tests for TD operation	F	3.2.0	3.3.0
25.141	742	45	Test model clarifications	F	3.2.0	3.3.0
25.141	760	49	Corrections to test models in TS 25.141	F	3.2.0	3.3.0
25.141	774	42	Handling of measurement uncertainties in Base station conformance testing (FDD)	F	3.2.0	3.3.0
25.141	693	50	Tap magnitudes and phases for Birth-Death propagation conditions	F	3.2.0	3.3.0

11 25.142

Work concluded since last RAN meeting

- Corrections

11.1 Change Requests presented for approval

The following CRs are in RP-000402:

TS	RAN4 Tdoc	CR number	Title	TYPE	Current TS version	New TS version
25.142	588	29	Conformance test description for maximum output power	F	3.2.1	3.3.0
25.142	589	31	Conformance test description for power control steps	F	3.2.1	3.3.0
25.142	590	30	Conformance test description for minimum transmit power	F	3.2.1	3.3.0
25.142	591	32	Conformance test description for spectrum emission mask	F	3.2.1	3.3.0
25.142	592	34	Conformance test description for modulation accuracy	F	3.2.1	3.3.0
25.142	593	35	Conformance test description for blocking characteristics	F	3.2.1	3.3.0
25.142	594	36	Conformance test description for performance requirements	F	3.2.1	3.3.0
25.142	629	33	Corrections to spectrum mask	F	3.2.1	3.3.0
25.142	727	37	Conformance test description for spectrum emission mask	F	3.2.1	3.3.0
25.142	778	28	Handling of measurement uncertainties in Base station conformance testing (TDD)	F	3.2.1	3.3.0

12 25.942

The document is presented for information, this in an internal report.

13 Release 99 submission forms

None.

14 Concluding remarks

RAN WG4 has achieved considerable progress in our work over the last RAN meeting, and all companies and delegates must be acknowledged for their hard work and fruitful collaboration.

15 Items for release 00

A detailed report on release 00 work items is in RP-000468

Table 1 Additional Work Items from RAN WG4

	Work Items	Source	Supporting Companies	Rapporteur	Classification
1	RAN Technical enhancements and improvements	T-Mobil	Motorola Telia T-Mobil, Vodafone	Han van Bussel, T-Mobil	Features
2	Performance specification of demodulation of common channels	Vodafone	Vodafone T-Mobil Ericsson Nokia	TBD Ericsson	Work Task
			GBT		

		Technology	LGIC Philips Samsung	GBT	
4	Feasibility study of UE antenna efficiency test methods performance requirements	Vodafone	Vodafone T-Mobil Telia Allgon	Olle Edvardsson, Allgon	Work Task
5	Performance Requirement for demodulation of Dedicated Pilot	Ericsson	Ericsson Nokia T-Mobil Allgon	Johan Nilsson, Ericsson	Work Task
6	Performance Specification for Downlink TDD 2Mbps channel	InterDigital	Nokia, Siemens, Golden Bridge, InterDigital	Eldad Zeira, InterDigital	Work Task
7					
8					

Table 2 Update of Work Items approved at RAN #8

No.	Work Items	Supporting Companies	Rapporteur	Classification	Parent Features/Building Block
2	Base station classification	Motorola Nokia Siemens,	Antti Toscalà, Nokia	Building Block	Radio Interface Improvement feature
3	FDD Base station classification	Nokia	Antti Toscalà,	Work Task	Base Station Classification

		Motorola Ericsson T-Mobil	Nokia		Classification
4	TDD Base stations classification	Motorola Nokia Siemens InterDigital	Antti Toskala, Nokia	Work Task	Base Station Classification
9	UTRA Repeater Specification	Allgon AB BMW Mikom GmbH Telenor AS	Martin Nilsson, Allgon AB Thomas Kummetz, Mikom GmbH	Building Block	Radio Interface Improvements
28	Low Chip Rate TDD RF Radio Transmission/ Reception, System Performance Requirements and Conformance Testing	Ericsson Fujitsu IDC LG NTT DoCoMo Panasonic RFI Samsung Siemens	Daijun Zhang, CATT/CWTS	Building Block	Low chip rate TDD

15.1 25.943- Deployment scenarios

The technical report on deployment scenarios is for release 00 and was presented at the RAN #8.

15.2 25.951- FDD Base Station Classifications

This technical report on FDD base station classifications is presented for information. The cover sheet is in document RP-000457, and the report in RP-00458.

15.3 25.952- TDD Base Station Classifications

This technical report on TDD base station classifications is presented for information. The cover sheet is in document RP-000455, and the report in RP-00456.

15.4 25.956 - Repeaters

This technical report is available for information.

15.5 25.143 – Repeater Type Approval

This technical report is available for information.

15.6 25.945 – Narrowband TDD option

This technical report is for approval.

16 RAN WG4 meetings in 2000

Meeting No.	Date	Host	Location
RAN WG4 #14	13-17 November 2000	ETSI	Sophia Antipolis, France
RAN WG4 #15	19-23 February 2001		Europe
RAN WG4 #16	21-25 May 2001	Ericsson	Tbd. (Sweden, Spain)
RAN WG4 #17	9-13 July 2001	Siemens	Berlin, Germany
RAN WG4 #18	3-7 September 2001	Agilent	Scotland, Europe
RAN WG4 #19	12-16 November 2001		New York, USA
RAN # 9	20-22 September 2000	T1, ARIB, TTC	Hawaii, USA
RAN # 10	6-8 December 2000	Unisys/ARIB	Bangkok
RAN # 11	14-16 Mar 2001		USA
RAN # 12	13-15 Jun 2001		Europe
RAN # 13	26-28 Sep 2001		
RAN # 14	12-14 Dec 2001		