

**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#8.

The progress has been good since RAN#7. The work has been split between corrections to the BTS and UE specifications, and progressing work on the RRM documents.

Work on release 00 work items has started. An LS has been sent to RAN on the building block theme with the work items that RAN WG4 believe they should be working on. Draft reports on RF repeaters and the low chip rate TDD option are available but not ready for RAN approval yet. Technical work on the BTS classifications and the TDD synchronization has started.

1 physical meeting, one joint adhoc (RRM), 215 input documents, 80 delegates per meeting, 104 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)	3.2.2	22	3.3.0
25.102	UE Radio transmission and reception (TDD)	3.2.0	6	3.3.0
25.104	BTS Radio transmission and reception (FDD)	3.2.0	9	3.3.0
25.105	BTS Radio transmission and reception (TDD)	3.2.0	7	3.3.0
25.123	Support of RF parameters in Radio Resource Management	3.1.0	8	3.2.0
25.133	Support of RF parameters in Radio Resource Management	3.1.0	24	3.2.0
25.141	Basestation conformance testing	3.1.0	11	3.2.0

	(FDD)			
25.142	Basestation conformance testing (TDD)	3.1.0	14	3.2.0
25.113	Basestation EMC	3.1.0	1	3.2.0
25.941	Document Structure	3.1.0	0	3.1.0
25.942	RF System scenarios	2.1.3		2.2.0
25.943	Deployment scenarios	0.1.0		2.0.0

## 2 Items that require actions from RAN plenary

### 2.1 Terms of Reference

Proposed RAN WG4 terms of reference

RAN WG4 is responsible for:

- BTS and Terminal RF specifications
- BTS RF Conformance test specifications
- BTS EMC specification
- End to End performance simulation and specifications
- Radio resource management performance simulation and specification
- RF scenario analysis and simulation

### 2.2 Measurement Uncertainty

The Japanese region has identified an issue regarding the handling of measurement uncertainty. The details are covered in the LS from RAN WG4 to RAN. It is proposed that RAN study the problem, however it is recommended that RAN WG4 be given until the next RAN plenary to see if a acceptable solution can be found.

## 3 25.101

### 3.1 Status of the document

Work concluded since last RAN meeting

- Power control
- More performance results

Items still not completed

- A few performance results

### 3.2 Change Requests presented for approval

The following CRs are in RP-000204

Doc-1st-	Spec	CR	Re	Phas	Subject	Cat
RP-000204	25.101	040	1	R99	A test for UE's SIR target setting in a call set up	F
RP-000204	25.101	041	1	R99	Reception of TPC commands in a soft handover	F
RP-000204	25.101	042		R99	DCH requirement for 64 kbps measurement channel in birth-	F
RP-000204	25.101	043		R99	Power control in the downlink, constant BLER target	F
RP-000204	25.101	044		R99	Value update for 384 kbps measurement channel requirements	F
RP-000204	25.101	045	1	R99	CR for demodulation of DCH	F
RP-000204	25.101	046		R99	Correction for measurement channel in TS 25.101	F
RP-000204	25.101	047		R99	Editorial CR on section 8.6.3 of TS25.101 v3.2.0	D
RP-000204	25.101	048		R99	Correction of frequency numbering scheme	F
RP-000204	25.101	049		R99	Correction - Propagation conditions	F
RP-000204	25.101	050		R99	Compressed mode tests	F
RP-000204	25.101	051		R99	Correction of Out-of-sync criteria	F
RP-000204	25.101	052		R99	Editorial corrections for TS25.101.	F
RP-000204	25.101	053		R99	Clarification of the specification on Peak Code Domain Error	F

RP-000204	25.101	054		R99	Transients for uplink power steps	F
RP-000204	25.101	055		R99	Power setting for uplink compressed mode and RACH preambles	F
RP-000204	25.101	056		R99	UE interfering signal definition	F
RP-000204	25.101	057		R99	Downlink Power Control, wind up effects	F
RP-000204	25.101	058		R99	Use of P-CPICH and S-CPICH for performance requirements	F
RP-000204	25.101	059	1	R99	Performance of Closed Loop Diversity mode 2 and Mode 1	F
RP-000204	25.101	060		R99	Removal of brackets from Inter-Cell SHO test case	F
RP-000204	25.101	061		R99	Editorial corrections on moving propagation conditions	F

## 4 25.102

### 4.1 Status of the document

Work concluded since last RAN meeting

- Corrections

Items still not completed

- A few performance results

### 4.2 Change Requests presented for approval

The following CRs are in RP-000205:

Doc-1st-	Spec	CR	Re	Phas	Subject	Cat
RP-000205	25.102	026		R99	Correction of DL measurement channels for TDD-mode	F
RP-000205	25.102	027		R99	Reference Measurement Channel for UE Peak Code Domain	F
RP-000205	25.102	028		R99	Correction for Uplink power control	F
RP-000205	25.102	029		R99	UE TDD P-CCPCH Block STTD performance requirements	F
RP-000205	25.102	030		R99	Modification to the handling of UE TDD Measurement Uncertainty	F
RP-000205	25.102	031		R99	Clarification of the specification on Peak Code Domain Error	F

## 5 25.104

### 5.1 Status of the document

Work concluded since last RAN meeting

- Corrections
- More performance results

Work not completed

- A few performance results

### 5.2 Change Requests presented for approval

The following CR is in RP-000206

Doc-1st-	Spec	CR	Re	Phas	Subject	Cat
RP-000206	25.104	040		R99	Correction of frequency numbering scheme	F
RP-000206	25.104	041		R99	Add requirements on SSDT from 5.1.1.8.	D
RP-000206	25.104	042		R99	Correction to Emission mask	F
RP-000206	25.104	043		R99	Clarification of the specification on Peak Code Domain Error	F
RP-000206	25.104	044		R99	Editorial changes, including definitions and abbreviations	D
RP-000206	25.104	045		R99	Reference Measurement Channels	F
RP-000206	25.104	046		R99	Editorial corrections on moving propagation conditions	F
RP-000206	25.104	047		R99	Conformance values for dynamic propagation conditions	F
RP-000206	25.104	048		R99	Alignment of measurement descriptions between 25.141 and	F

## 6 25.105

### 6.1 Status of the document

Work concluded since last RAN meeting

- Corrections

Work not completed

- Performance results

### 6.2 Change Requests presented for approval by category

The following CRs are in RP-000207:

Doc-1st-	Spec	CR	Re	Phas	Subject	Cat
RP-000207	25.105	032		R99	Reference Measurement Channels	F
RP-000207	25.105	033		R99	Regional requirements in TS 25.105	F
RP-000207	25.105	034		R99	Clarification of receiver dynamic range.	F
RP-000207	25.105	035		R99	Input power level for performance requirements	F
RP-000207	25.105	036		R99	Modification to the handling of UE TDD Measurement Uncertainty	F
RP-000207	25.105	037		R99	Clarification of the specification on Peak Code Domain Error	F
RP-000207	25.105	038		R99	Correction for emission mask measurement (TDD)	F

## **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

- Editorial corrections

Work not completed

- None known

### 8.1 *Change Requests presented for approval*

The following CRs are in RP-000019:

Doc-1st-	Spec	CR	Re	Phas	Subject	Cat
RP-000019	25.113	004		R99	Correction according to IEC and CISPR Standards	F

## 9 25.123 / 25.133

Work since last RAN meeting

- Major improvements made in the RRM area
- Editorial corrections
- Many performance requirements

Work not completed

- Performance results in most sections

### 9.1 Change Requests presented for approval

The following CRs are in RP-000209 and RP-000210:

Doc-1st-	Spec	CR	Re	Phas	Subject	Cat
RP-000209	25.123	008		R99	Correction of UTRAN 'Transmitted carrier power' accuracy	F
RP-000209	25.123	009		R99	Measurement reporting delay	F
RP-000209	25.123	010		R99	Update of UE SIR Measurements performance requirements	F
RP-000209	25.123	011		R99	UE Transport Channel BLER measurement	F
RP-000209	25.123	012		R99	Editorial corrections of 25.123	F
RP-000209	25.123	013		R99	Range and mapping in TS 25.123 (TDD)	F
RP-000209	25.123	014		R99	Requirement for UE Tx Power Measurement	F
RP-000209	25.123	015		R99	Addition of test parameters to RRM Measurements performance	F

Doc-1st-	Spec	CR	Re	Phas	Subject	Cat
RP-000210	25.133	010		R99	Measurement period for UTRAN SIR	F
RP-000210	25.133	011		R99	Measurement period for UE BLER	F
RP-000210	25.133	013		R99	Measurement delay reporting	F
RP-000210	25.133	015		R99	Correction - Propagation conditions	F
RP-000210	25.133	016		R99	Remove requirements on SSDT from 5.1.1.8.	D
RP-000210	25.133	017		R99	Update of test parameters to P-CCPCH Measurements	F
RP-000210	25.133	018		R99	Repetition Period of System Information	F
RP-000210	25.133	019		R99	Alignment of Cell Selection/reselection test scenario parameters	F
RP-000210	25.133	020		R99	Editorial corrections for TS25.133	F
RP-000210	25.133	021		R99	Removal of Annex A	F
RP-000210	25.133	022		R99	Requirement for UE Tx Power Measurement	F
RP-000210	25.133	023		R99	Insertion of Range/Mapping from TS 25.215 revised	F
RP-000210	25.133	024		R99	Signalling response delay	F
RP-000210	25.133	025		R99	Missing measurement periods	F
RP-000210	25.133	026		R99	RRC Connection mobility in Cell_FACH, Cell_PCH and	F
RP-000210	25.133	027		R99	Switching delay requirement for inter-system handover	F
RP-000210	25.133	028		R99	UE Chip time measurements	F
RP-000210	25.133	029		R99	UE Transmit Timing Adjustment	F
RP-000210	25.133	030		R99	Add GPS timing measurements to TS 25.133	F
RP-000210	25.133	031		R99	Test scenario for UTRAN to GSM cell re-selection	F
RP-000210	25.133	032		R99	Proposed test case for random access procedure (FDD)	F
RP-000210	25.133	033		R99	Inclusion of measurement granularities and ranges	F
RP-000210	25.133	034		R99	Parallel measurement requirements	F
RP-000210	25.133	035		R99	UE Hard handover switching time	F

## 10 25.141

Work concluded since last RAN meeting

- Corrections

Work not completed

- Tests running around 1 WG meeting behind core specifications

### ***10.1 Change Requests presented for approval***

The following CRs are in RP-000211:

<b>Doc-1st-</b>	<b>Spec</b>	<b>CR</b>	<b>Re</b>	<b>Phas</b>	<b>Subject</b>	<b>Cat</b>
RP-000211	25.141	027		R99	Add test specification on SSDT to 8.6.	D
RP-000211	25.141	028		R99	Synchronisation of signal generators	F
RP-000211	25.141	029		R99	Correction to Emission mask measurement	F
RP-000211	25.141	030		R99	Clarification of the specification on Peak Code Domain Error	F
RP-000211	25.141	031		R99	Performance requirements	F
RP-000211	25.141	032		R99	Frequency stability measurement using complex demodulation	F
RP-000211	25.141	033		R99	Editorial corrections on moving propagation conditions	F
RP-000211	25.141	034		R99	Editorial correction on Spurious emissions	D
RP-000211	25.141	035		R99	Corrections to the seed of P-CCPCH	F
RP-000211	25.141	036		R99	Data clock accuracy	F
RP-000211	25.141	037		R99	Corrections to several missing items and clarifications	F

## 11 25.142

Work concluded since last RAN meeting

- Corrections

Work not completed

- Tests running around 1 WG meeting behind core specifications

### 11.1 Change Requests presented for approval

The following CRs are in RP-000212:

Doc-1st-	Spec	CR	Re	Phas	Subject	Cat
RP-000212	25.142	013		R99	UL Reference Measurement Channels	F
RP-000212	25.142	014		R99	Regional requirements in TS 25.142	F
RP-000212	25.142	015		R99	Conformance test description for receiver dynamic range.	F
RP-000212	25.142	016		R99	Correction of the interfering power level for performance	F
RP-000212	25.142	017		R99	Definitions of maximum output power and rated output power	F
RP-000212	25.142	018		R99	Correction of blocking requirements	F
RP-000212	25.142	020		R99	Conformance test description for modulation accuracy	F
RP-000212	25.142	021		R99	Modification to the handling of BS TDD Measurement Uncertainty	F
RP-000212	25.142	022		R99	Clarification of the specification on Peak Code Domain Error	F
RP-000212	25.142	023		R99	Relationship between RF generation and chip clock	F
RP-000212	25.142	024		R99	Correction on Receiver tests, terminating RX port	F
RP-000212	25.142	025		R99	Revision of Annex C: Global in-channel Tx test	F
RP-000212	25.142	026		R99	Conformance test description for spectrum emission mask	F
RP-000212	25.142	027		R99	Test connection definition	F

## **12 25.942**

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

## **13 25.943**

The document is presented for information it is for release 00.

## **14 Release 99 submission forms**

None.

## **15 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.

## **16 Items for release 00**

Technical corrections

Repeaters

FDD Base Station Classification

TDD Base Station Classification

Low chip rate option

TDD node B synchronisation

Deployment Scenarios

## 17 RAN WG4 meetings in 2000

Year	Meeting	Dates	Location	Country	Host
2000	RAN #8	19 - 21 June	Düsseldorf	Germany	Mannesman
2000	WG4 adhoc	23 - 24 Aug	Heathrow	UK	Vodafone/Motorola
2000	WG4 #13	4 - 8 September	Milan	Italy	Omnitel
2000	RAN #9	27-29 September	Hawaii	USA	T1/ARIB/TTC
2000	WG4 #14	13 - 17 November	Nice	France	ETSI
2000	RAN #10	6 - 8 December	Bangkok	Tailand	Unisys/ARIB