## *TSGR#6(99)708* TR 30.504 V2.2.0 (1999-12)

Work Plan

## 3<sup>rd</sup> Generation Partnership Project (3GPP); Technical Specification Group (TSG) RAN; Working Group 4 (WG4);

Work Plan and Study Items



The present document has been developed within the 3<sup>rd</sup> Generation Partnership Project (3GPP<sup>TM</sup>) and may be further elaborated for the purposes of 3GPP.

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Reference

<Workitem> (<Shortfilename>.PDF)

Keywords

Digital cellular telecommunications system, Universal Mobile Telecommunication System (UMTS), UTRA, IMT-2000

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#### 1. Scope

This Technical Report has been produced by the 3GPP.

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of this TS, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version 3.y.z

where:

- x the first digit:
  - 1 presented to TSG for information;
  - 2 presented to TSG for approval;
  - 3 Indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the specification;

#### 2. Introduction

The present document shall provide a work plan and study items as agreed within the 3GPP TSG RAN working group 4.

For the FDD mode, as proposed in the input paper of R4-99160 the items shown in that document absolutely need to be finalised by the Japanese regulatory organisation, Telecommunications Technical Council of Japan, by the end of June 1999 so that MPT will be able to legislate on schedule for the regulation for the 3G system of Japan.

For the TDD mode, some deviations in achieving the intermediate milestones are shown, compared to FDD. However, it is strictly intended to have the same final milestone kept for TDD as for FDD.

#### 3. Meeting Schedule

The milestones used in this document are based on the following meeting schedule.

#### Year 1999

WG4 #4 : May 10 - May 12, Kista Stockholm, Sweden

WG4 #5 : June 14 – June 16, Miami Florida, USA

RAN #4 : June 17 – June 18, ditto

WG4 #6 : July 26 – July 29, South Queensferry Scotland, UK

WG4 #7 : September 7 – September 10, Makuhari Chiba, Japan

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- RAN #5 : October 6 October 8, Kyongju, Korea
- WG4 #8 : October 26 October 29, Sophia Antipolis, France
- WG4 #9 : December 7 December 10, Bath, UK
- RAN #6 : December 13 December 15, Nice, France

#### **Year 2000**

- WG4 #10 : January 18 January 21, San Jose, California, USA
- WG4 #11 : February 28 March 3, TBD
- RAN #7 : March 13 March 15, Madrid, Spain
- WG4 #12 : May 22 May 26, TBD
- RAN #8 : June 19 June 21, Dusseldorf, Germany
- WG4 #13 : September 11 September 16, TBD
- RAN #9 : September 25 September 27, TBD
- WG4 #14 : November 27 November 30, TBD
- RAN #10 : December 11 December 13, TBD, USA

## 4. Work Plan

Table 4 shows the agreed work plan for the TSG RAN WG4 and document status as well as of the issuance of this document.

	W	W	R	W	W	R	W	W	R	
	G	G	A	G	G	Α	G	G	A	
	4	4	Ν	4	4	Ν	4	4	Ν	
Specification number	#	#	#	#	#	#	#	#	#	Remarks
Specification number	4	5	4	6	7	5	8	9	6	ixemai ko
	4	5	-	U	/	3	o	,	U	
25.101 - UE TX & RX (FDD)	1		2			3				
25.104 - BTS TX & RX (FDD)	1		<u>2</u>			<u>3</u>				
25.102 - UE TX & RX (TDD)	1				2	<u>3</u>				(1)
										(4)
25.105 - BTS TX & RX (TDD)	1				<u>2</u>	<u>3</u>				(1)
25.103 RF parameters		<u>1</u>			2				<u>3</u>	(2), (3)
25.133 - Support of RF parameters in								2	3	(3)
Radio Resource Management (FDD)								2	3	
25.123 - Support of RF parameters in								2	3	(3)
Radio Resource Management (TDD)								4	5	
25.141 - BS Conformance Test (FDD)		1			2				3	
		<b>–</b>			=				v	
25.142 - BS Conformance Test (TDD)				1	2				3	
		<u> </u>	<u> </u>							
25.113 - BS EMC				1				2	3	(2)
25.941 - Document Structure	1			2					3	
25.042 DE G 4 G	-									
25.942 - RF System Scenarios		1			<u>2</u>				3	
	1	I	I	I				I	I	

Table 4:Work Plan

Notes:

- 1 means the document is agreed as version 1.0.0 at RAN WG4
- $\underline{1}$  (underlined) means the document has already been agreed as version 1.0.00 at RAN WG4
- 2 means the document is agreed as version 2.0.0 at RAN WG4
- 2 (underlined) means the document has already been agreed as version 2.0.0 at RAN WG4
- 3 means the document is approved as version 3.0.0 at TSG RAN
- 3 (underlined) means the document has already been approved as version 3.0.0 at TSG RAN

- The version numbers must be understood based on the explanation in the section 8 "Document/version numbering" of the Report of the TSG-RAN meeting #3 [RP-99305].
- (1) Milestone for version 3 has been brought in to be in line with PCG#2(99)21 in ver 1.1.0.
- (2) Agreed at the WG4 #7 meeting to push back the milestone for version 3 as seen in the table.
- (3) Agreed at the WG4 #8 meeting to split 25.103 into two separate specifications, which are 25.133 for FDD and 25.123 for TDD.

#### 5. Study Item

A table "Study Items for 25.xyz" shows all the items that have not been agreed or are tbd in that particular document as of the issuance of this 30.504 document. A mark X indicates that the marked item needs to be agreed and fixed by the indicated milestone. Moreover, X-marked milestones for the FDD mode are **absolute** deadlines.

## 5.1 25.101 (UE TX & RX for FDD)

Table 5-1 shows the agreed study items for the 25.101 specification document.

Items	W G 4 # 4	W G 4 # 5	R A N # 4	W G 4 # 6	W G 4 # 7	R A N # 5	W G 4 # 8	W G 4 # 9	R A N # 6	Remarks
Frequency Bands and Channel Assignment										
• TX-RX frequency separation		X								
TX characteristics										
Max output power		X								
Closed loop power control in DL		X								
Power control steps		X								
Adjacent Channel Leakage Ratio (ACLR)		X								(1)
Modulation Accuracy		X								
Peak code Domain error		X								
RX characteristics										
Static reference sensitivity level		X								
Maximum input level		X								
Adjacent Channel Selectivity (ACS)		X								
Blocking characteristics		X								
Spurious response		X								
Intermodulation characteristics		X								
Performance Requirement										
Test Environment (Packet switched data)					X					
Demodulation in non fading channel					X					
Demodulation of DTCH					X					

Table 5-1:Study Items for 25.101

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Notes:

• (1) Milestone was moved from WG4 #4 to WG4 #5 in ver 0.0.2.

## 5.2 25.104 (BTS TX & RX for FDD)

Table 5-2 shows the agreed study items for the 25.104 specification document.

	W G	W G	R A	W G	W G	R A	W G	W G	R A	
Items	4 # 4	4 # 5	N # 4	4 # 6	4 # 7	N # 5	4 # 8	4 # 9	N # 6	Remarks
Frequency Bands and Channel Assignment										
• TX-RX frequency separation		X								
TX characteristics										
BS Max output power								X		Extreme conditions
Frequency Stability		X								
Output Power Dynamics				X						
• Adjacent Channel Leakage Ratio (ACLR)		X								
Spurious Emissions		X								
Transmit Intermodulation		X								
Modulation Accuracy		X								
Peak code Domain error		X								
RX characteristics										
Reference Sensitivity level		X								
Maximum frequency Deviation for Receiver Performance					X					
Dynamic Range				X						
Adjacent Channel Selectivity (ACS)		X								
Blocking characteristics				X						
Spurious response		X								
Intermodulation characteristics		X								
Spurious Emissions				X						

Table 5-2:Study Items for 25.104

Performance Requirement					
Performance in AWING Channel		X			
Performance in Multipath Fading     Channels				X	

## 5.3 25.102 (UE TX & RX for TDD)

Table 5-3 shows the agreed study items for the 25.102 specification document.

Items	W G 4 #	W G 4 #	R A N #	W G 4 #	W G 4 #	R A N #	W G 4 #	W G 4 #	R A N #	Remarks
	4	5	4	6	7	5	8	9	6	
Frequency Bands and Channel Assignment										
Frequency Bands		X								
TX characteristics										
Max output power					X					
• UE frequency stability		X								
Open loop power control UL				X						
Closed power control UL				X						
Power control steps				X						
• Power control cycles per second				X						
• Minimum transmit output power		X								
Transmit on/off ratio/DTX					X					
Adjacent Channel Leakage Ratio (ACLR)				X						
Transmit intermodulation					X					
Modulation Accuracy				X						
RX characteristics										
Static reference sensitivity level					X					
Maximum input level					X					
Adjacent Channel Selectivity (ACS)					X					
Blocking characteristics					X					
Spurious response					X					

Table 5-3:Study Items for 25.102

• Intermodulation characteristics	X			
Spurious emissions	X			
Performance Requirement				
Test Environment			X	
• Demodulation in non fading channel		X		
• Demodulation of PCH/FACH/DTCH		X		
Multi-Link Performance			X	
• RX Synch. Characteristics		X		
Interfrequency handover		X		
Timing Requirements		X		

## 5.4 25.105 (BTS TX & RX for TDD)

Table 5-4 shows the agreed study items for the 25.105 specification document.

Items	W G 4 # 4	W G 4 # 5	R A N # 4	W G 4 # 6	W G 4 # 7	R A N # 5	W G 4 # 8	W G 4 # 9	R A N # 6	Remarks
Frequency Bands and Channel Assignment										
Frequency Bands		X								
TX characteristics										
Max output power					X					Extreme Conditions
UE Frequency Stability		X								
Open Loop Power Control UL				X						
Closed Power Control UL				X						
Power control steps				X						
Power Control Steps per Second				X						
Minimum Transmit Output Power		X								
Transmit on/off ratio/DTX					X					
• Adjacent Channel Leakage Ratio (ACLR)				X						
Intermodulation Characteristics					X					
Modulation Accuracy				X						
RX characteristics										
Static reference sensitivity level					X					
Maximum input level					X					
Adjacent Channel Selectivity (ACS)					X					
Blocking characteristics					X					
Spurious response					X					

Table 5-4:Study Items 25.105

Intermodulation characteristics	X			
Spurious Emissions	X			
Performance Requirement				
Test Environment			X	
• Demodulation in non fading channel		X		
Demodulation of PCH/FACH/DTCH		X		
Multi-Link Performance			X	
• RX Synch. Characteristics		X		
Interfrequency handover		X		
Timing Characteristics		X		

## 5.5 25.103 (RF Parameters)

Table 5-5 shows a first draft proposal for an updated version of study items for the 25.103 specification document.

	W G 4	W G 4	R A N	W G 4	W G 4	R A N	W G 4	W G 4	R A N	
Items	# 4	# 5	# 4	# 6	# 7	# 5	# 8	# 9	# 6	Remarks
Idle Mode Tasks (FDD)										
Cell Selection Scenario										
Cell selection delay – Text		X								
Cell selection delay - Value							X			
Cell Re-Selection Scenario										
Cell re-selection delay – Text		X								
Cell re-selection delay – Value							X			
Cell List Size – Text		X								
Cell List Size – Value							X			
Maximum number of cells to be monitored – Text		X								
Maximum number of cells to be monitored – Value							X			
Cell Re-selection reaction time – Text					X					
Cell Re-selection reaction time – Value							X			
<b>RF</b> Parameters used for Cell Re-Selection								X		
PLMN Selection and Re-Selection Scenario – Text							X			
PLMN Selection and Re-Selection Scenario – Values								X		
Location Registration Scenario – Text							X			
Location Registration Scenario – Values								X		
Idle Mode Tasks (TDD)										

Table 5-5:Study Items for 25.103

Cell Selection Scenario					
Cell selection delay – Text	X				
Cell selection delay - Value			X		
Cell Re-Selection Scenario					
• Cell re-selection delay – Text	X				
• Cell re-selection delay – Value			X		
Cell List Size – Text	X				
Cell List Size – Value			X		
Maximum number of cells to be monitored – Text	X				
Maximum number of cells to be monitored – Value			X		
Cell Re-selection reaction time – Text		X			
Cell Re-selection reaction time – Value			X		
• RF Parameters used for Cell Re-Selection				X	
PLMN Selection and Re-Selection Scenario – Text			X		
PLMN Selection and Re-Selection Scenario – Values				X	
Location Registration Scenario – Text			X		
Location Registration Scenario – Values				X	
RRC Connection Mobility					
Handover 3G to 3G					
FDD Soft/Softer Handover					
• Maximum number of cells to be monitored – Text	X				
• Maximum number of cells to be monitored – Value			X		
• Measurement reporting delay – Text	X				
Measurement reporting delay – Value			X		
Active set dimension – Text	X				

		 		1	
• Active set dimension – Value		X			
• Active set update time interval – Text	X				
Active set update time interval – Value		X			
• Frame offset Measurement Accuracy – Text	X				
• Frame offset Measurement Accuracy – Value		X			
FDD Inter-Frequency Handover					
• Maximum number of cells/frequencies to be monitored – Text	X				
• Maximum number of cells/frequencies to be monitored – Value		X			
Measurement reporting delay – Text	X				
Measurement reporting delay – Value		X			
• Frame offset Measurement Accuracy – Text	X				
• Frame offset Measurement Accuracy – Value		X			
FDD/TDD Handover					
Requirements – Text		X			
Requirements - Values			X		
RF Parameters			X		
TDD/TDD Handover					
Requirements –Text		X			
Requirements- Values			X		
RF Parameters			X		
Radio Link Management					
Link adaptation					
• Link adaptation delay minimum requirement – Value		X			
• Link adaptation accuracy minimum requirement – Value		X			

URA Update			X	
Admission Control (FDD)		X		
Admission Control (TDD)		X		
Radio Access Bearer Control (FDD)		X		
Radio Access Bearer Control (TDD)		X		
Dynamic Channel Allocation (FDD)		X		
Dynamic Channel Allocation (TDD)		X		
Radio Link Surveillance (FDD)		X		
Radio Link Surveillance (TDD)		X		
Radio Link Measurement Requirements – Text		X		
Radio Link Measurement Requirements – Values			X	
Radio Link Failure Requirements – Text		X		
Radio Link Failure Requirements – Values			X	

[Editor's note: The above table was developed by the editor of the TS 25.103.]

## 5.6 25.141 (BS Conformance Test for FDD)

Table 5-6 shows the identified study items for the 25.141 specification document.

Items	W G 4 # 4	W G 4 # 5	R A N # 4	W G 4 # 6	W G 4 # 7	R A N # 5	W G 4 # 8	W G 4 # 9	R A N # 6	Remarks
General test conditions and declarations										
BTS Configurations					X					
Transmitter										
Base station maximum output power					X					
• Frequency stability					X					
Clock Frequency accuracy							X			
Output power dynamics					X					
• Transmitted RF carrier power versus time					X					
• Output RF spectrum emissions							X			
• Transmit intermodulation							X			
Receiver characteristics										
• General					X					
• Test conditions and measurement methods							X			
Dynamic range							X			
Adjacent Channel Selectivity (ACS)							X			
Blocking characteristics							X			
Spurious response							X			
Spurious emissions							X			
Performance requirement										
BS Dynamic reference sensitivity performance					X					

Table 5-6:Study Items for 25.141

[Editor's note: The above table was developed by the editor based on the open item list included in TS 25.141 V1.0.4.]

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#### 5.7 25.142 (BS Conformance Test for TDD)

Table 5-7 shows the identified study items for the 25.142 specification document.

Items	W G 4 #	W G 4 #	R A N #	W G 4 #	W G 4 #	R A N #	W G 4 #	W G 4 #	R A N #	Remarks
	4	5	4	6	7	5	8	9	6	
Transmitter characteristics										
Maximum output power				X						
Frequency stability				X						
Output power dynamics					X					
Transmitted ON/OFF ratio					X					
Output RF spectrum emissions							X			
• Transmit intermodulation							X			
Modulation accuracy							X			
Receiver characteristics										
Reference sensitivity level							X			
Dynamic range							X			
Adjacent Channel Selectivity (ACS)							X			
Blocking characteristics							X			
Spurious response							X			
Intermodulation characteristics								X		
Spurious emissions								X		
• Timing advance (TA) requirements								X		
Performance requirement										
• Dynamic reference sensitivity performance								X		

Table 5-7:Study Items for 25.142

[Editor's note: The above table was developed by the editor of the TS 25.142.]

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#### 5.8 25.113 (BS EMC)

Table 5-8 shows the identified study items for the 25.113 specification document.

Items	W G 4 # 4	W G 4 # 5	R A N # 4	W G 4 # 6	W G 4 # 7	R A N # 5	W G 4 # 8	W G 4 # 9	R A N # 6	Remarks
Definitions, symbols and abbreviations										
• Definition of: Loss of service & Loss of call							X			
• Definition of:Transient phenomena & Continuous phenomena							X			
Test Conditions							X			
Performance Assessment							X			
Performance Criteria										
• Number of tests							X			
• Self recovery							X			
Applicability Overview							X			

Table 5-8:Study Items for 25.113

[Editor's note: The above table was developed by the editor based on the open item list included in TS 25.113 V1.1.1.]

## 6. Open Item for Release 1999

A table in the following sub-sections shows all the open items that have been agreed in each specification document as of the issuance of the most updated documents. The contents are subject to change depending on further studies.

#### 5.9 TS25.101 (UE TX & RX for FDD)

Table 6-1 shows the identified open items for the 25.101 specification document.

Section number	Section description	Status
3.1	Definitions	Definition of average power
5.2	Frequency bands	The deployment of TDD in the 1920 MHz to 1980 MHz band is an open item
6.6.2.2	Adjacent Channel Leakage power Ratio (ACLR)	The possibility is being considered of dynamically relaxing the ACLR requirements for User Equipment(s) under conditions when this would not lead to significant interference (with respect to other system scenario or UMTS operators). This would be carried out under network control, primarily to facilitate reduction in UE power consumption.
6.4.2.1.1	Power control steps minimum requirement	The timing requirement for power control steps is FFS
6.4.2.1.1	Power control steps minimum requirement	The current text does not cover the case where a power command is a multiple of the step size defined in 6.4.3 RAN WG1 is currently;
		<ul> <li>Analyzing the benefits of introduction of smaller step sizes (&lt;1 dB&gt;as an option</li> <li>Investigating the benefits of emulated step size</li> </ul>
		which imply that changes in the output power occurs at a rate lower than the one defined in 6.4.5
6.8.3	Peak code domain error	Outstanding
7	Receiver characteristic	All tables need change due to harmonization and changes to the downlink measurement channels in measurement. Note that the requirements are unchanged.

#### Table 6-1:Open Items for 25.101

## 5.10 TS25.104 (BTS TX & RX for FDD)

Table 6-2 shows the identified open items for the 25.104 specification document.

Section number	Section description	Status
6.2.1	Base station max output power	Minimum requirement in extreme conditions is ffs.
6.3	Frequency accuracy	Should there also be an accuracy requirement on the clock rate? Alternatives are to either tie the clock rate to the frequency accuracy or to have a separate clock rate requirement.
6.4.2	Power control dynamic range	The need for this parameter to be specified should be confirmed.
		The power control dynamic range necessary as a minimum requirement needs to be reviewed.
6.4.3	Total power dynamic range	The total power dynamic range necessary as a minimum requirement needs to be reviewed.
6.4.5	Primary CPICH power	Value is TBD. Details of the path loss estimation method is under study in WG1.
6.6.1	Occupied bandwidth	Measurement bandwidth for the total integrated power is ffs. Is this section still required?
6.6.2.3	Protection outside a licensee's frequency block	This requirement needs to be reviewed in content and application, since it is a regional requirement (FCC part 24.)
		The current text is based closely on FCC part 24. It may be possible to clarify the requirement (to allow more consistent testing) by including parameters which are specific to UTRA, including:
		- defining requirement as an absolute value.
		- Defining the minimum carrier spacing from the edge of the licensee's frequency block.
		- Defining the –26dB bandwidth of the emission.
		Defining the resolution bandwidth in the first 1MHz (the requirement would appear to be about 45kHz or greater; is it possible to perform this measurement with this value of resolution bandwidth?)
6.6.3.3.2	Co-existence with GSM 900; co- located base stations	Scenario calculations should be performed to confirm the requirement, currently –[98]dB.
6.6.3.4.2	Co-existence with DCS 1800; co-located base stations	Scenario calculations should be performed to confirm the requirement, currently –[98]dB.
6.8.2	Modulation accuracy	Further consideration is needed, especially for the multicode case.
6.8.3	Peak code domain error	The requirement is ffs.
7.1	General	Definition of requirements for antenna diversity is ffs.

Table 6-2:Open	Items for	25.104
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7.3	Dynamic range	The requirement (BER/FER, value and channel type) is ffs. The effect of applying mast head LNAs to the dynamic range specification is ffs.
8	Performance requirement	Values are TBD. Requirements for BS without dual receiver diversity is ffs.
6 or 8	Transmit diversity	Specification text for SSDT requirement is needed, unclear in what section or possibly in TS 25.103.

## 5.11 TS25.102 (UE TX & RX for TDD)

Table 6-3 shows the identified open items for the 25.102 specification document.

Section number	Section description	Status
3	Definitions, Symbols, Abbreviations	Update required
5.2	Frequency bands	The deployment of TDD in the 1920 MHz to 1980 MHz band is an open item.
6.6.2.2.1	ACLR, Minimum requirement	The possibility is being considered of dynamically relaxing the ACP requirements for User Equipment(s) under conditions when this would not lead to significant interference (with respect to other system scenario or UMTS operators). This would be carried out under network control, primarily to facilitate reduction in UE power consumption.
6.7.2.1	Spectrum emission mask	Requirements for other than UE power class 21dBm
6.7.2.2	ACLR	Requirements for other than UE power class 21dBm
6.8	Transmit Intermodulation	Requirements for other than UE power class 21dBm
6.9.3	Peak Code Domain Error	Requirement to be defined.
7.5	ACS	Value in square brackets
7.9	Spurious Emissions	Values in square brackets
8	Performance Requirement	Values are TBD, update of structure needed.
Annex E2	Service Implementation Capabilities	For further study

#### Table 6-3:Open Items for 25.102

## 5.12 TS25.105 (BTS TX & RX for TDD)

Table 6-4 shows the identified open items for the 25.105 specification document.

Section number	Section description	Status
3	Definitions, symbols and abbreviations	Update needed
6.3	Frequency stability	Should there also be an accuracy requirement on the clock rate ? Alternatives are to either tie the clock rate to the frequency accuracy or to have a separate clock rate requirement.
6.4.3	Power control dynamic range	Redundant requirement included. The need for this parameter to be specified should be confirmed.
6.4.6	Power control cycles per second	Adaptation to 15 slots per frame needed, depending on WG1 specification, requirement needed ?
6.4.7	Perch channel power	Requirement for reference power in the cell is TBD.
6.6.2.1	Spectrum mask	Not included
6.6.2.2	ACLR	Values in square brackets
6.6.3.2.2	Co-existence with GSM 900; co- located base stations	Scenario calculations should be performed to confirm the requirement, currently [-98] dB.
6.6.3.3.2	Co-existence with GSM 1800; co-located base stations	Scenario calculations should be performed to confirm the requirement, currently [-98] dB.
7.3	Dynamic Range	Value in square brackets
7.4	ACS	Requirement is TBD.
7.8	Spurious Emissions	Values in square brackets
8	Performance Requirement	Values are TBD. Requirement for BS without dual receiver diversity is ffs.

#### Table 6-4:Open Items for 25.105

# 5.13 TS25.133 (Support of RF Parameters in Radio Resource Management for FDD)

Table 6-5 shows the identified open items for the 25.133 specification document.

Section number	Section description	Status

#### Table 6-5:Open Items for 25.133

[Editor's note: The above table needs input from the editor of this specification]

# 5.14 TS25.123 (Support of RF Parameters in Radio Resource Management for TDD)

Table 6-6 shows the identified open items for the 25.123 specification document.

Section number	Section description	Status

#### Table 6-6:Open Items for 25.123

[Editor's note: The above table needs input from the editor of this specification]

## 5.15 TS25.141 (BTS Conformance test for FDD)

Table 6-7 shows the identified open items for the 25.141 specification document.

#	Section	Section description	Current status	Remarks
1	2	References	Shall be filled in later.	Some are added. (May not exhaustive)
2	3.1	Definitions	To be filled in later.	Some are added. (May not exhaustive)
3	3.2	Symbols	To be properly defined later.	Editorial. Shall be filled in later if needed
12	6.2.1	Base station maximum output power	Table 6.21 and Table 6.2-2 should be filled in.	Remove Editor's note, since measuring the total power is enough.
				(Working assumption for power ratio for each channel shall be taken from AH1-DL discussion in Aug.30.)
13	6.3	Frequency stability	Test conditions shall be revised properly.	Adding draft text for it.
				Q.1: Should Signal to be measured be modulated?
				Q2: If it is the case, what kind of channel structure defined?
				Q3: Are there any need to defiene "Frequency measuring equipment" as a "wide-bande frequency counter"?
14	6.4.2	Power control steps	There are some TBD parameters in the test conditions.	Revise description.
				Q1: How to measure a particular DPCH shall be sprcified.
				Q2: By what method (can spectrum analyzer do this?) shall be specified.
15	6.4.2.2	Minimum requirement	- Step size torelance is ffs.	
			To define the transmitter power as "code domain power" is ffs.	
16	6.4.3	Power control dynamic range	There are some TBD parameters in the test conditions.	
17	6.4.4	Minimum transmit power	There are some TBD parameters in the test conditions.	
18	6.4.5	Total power dynamic range	There are some TBD parameters in the test conditions.	
19	6.4.6	Power control cycles per second	There are some TBD parameters in the test conditions.	
20	6.5	Transmitted RF carrier power versus time	Table 6.5-1 should be filled in.	
21	6.5.4	Primary CPICH power	There are some TBD parameters in the test conditions.	

#### Table 6-7:Open Items for 25.141

				,
22	6.6.1	Occupied bandwidth	Texts for measurement method are needed.	
			Table 6.6-1 should be filled in.	
23	6.6.3	Spurious emissions	There are some TBD parameters in the test conditions. Table 6.6-3 and Table 6.6-4 should be filled in.	
24	6.7	Transmit intermodulation	There are some TBD parameters in the test conditions. Further input for co-located cellular systems are needed.	
34	8.2.1	Performance in AWGN channel	<ul> <li>BER (or FER) measurement method should be defined.</li> <li>There are some TBD parameters in Table 8.2-1</li> </ul>	<ul> <li>Add description in Annex-A. Baseline text is taken from Annex A in [5].</li> <li>(- Table 8.2-1 still requires further study.)</li> </ul>
35	8.2.2.4[6 .4.1.3]	Uplink power control	Text for this section is needed.	
36	8.2.2.5[6 .4.1.4]	Soft handover performance	FFS.	
38	8.2.2.2	Performance without TPC	There are some TBD parameters in the table.	
39	8.2.2.3	Performance with TPC	There are some TBD parameters in the table.	
44	6.2.1.1	Test Conditions and measurement method	Which part of the code shll be measured should be specified.	
45	6.4.2.1	Test conditions and measurement method	<editor's in="" note:="" rate,<br="" symbol="" whichh="">should measurement done shall be specified.&gt;</editor's>	
46	6.4.2.1	Test conditions and measurement method	<editor's in="" note:="" rate,<br="" symbol="" whichh="">should measurement done shall be specified.&gt;</editor's>	
47	6.4.3.1	Test conditions and measurement method	<editor's in="" note:="" rate,<br="" symbol="" whichh="">should measurement done shall be specified.&gt;</editor's>	
48	6.4.4.1	Test conditions and measurement method	<editor's in="" note:="" rate,<br="" symbol="" whichh="">should measurement done shall be specified.&gt;</editor's>	
49	6.4.5.1	Test conditions and measurement method	<editor's in="" note:="" rate,<br="" symbol="" whichh="">should measurement done shall be specified.&gt;</editor's>	
50	6.4.6.1	Test conditions and measurement method	<editor's in="" note:="" rate,<br="" symbol="" whichh="">should measurement done shall be specified.&gt;</editor's>	
51	6.9	Clock Frequency accuracy	Conformance requirement for it is F.F.S.	

## 5.16 TS25.142 (BTS Conformance test for TDD)

Table 6-8 shows the identified open items for the 25.142 specification document.

#### Table 6-8:Open Items for 25.142

Section number	Section description	Status

[Editor's note: The above table needs input from the editor of this specification]

## 5.17 TS25.113 (BTS EMC)

Table 6-9 shows the identified open items for the 25.113 specification document.

Section number	Section description	Status
3.1	Definition of:	Contributions invited.
	Loss of service	
	Loss of call	
3.1	Definition of:	Editor to check if any generally accepted definition
	Transient phenomena	already exists
	Continuous phenomena	
4		New text to be proposed by correspondence following WG4#7
5		New text to be proposed by correspondence following WG4#7
6.1, 6.2	Number of tests	The number of different bearers which need to be tested needs to be defined.
6.2	Self recovery	Conditions for "System operation self-recoverable" need to be defined.
7		New text to be approved by correspondence to identify relevant sections of Annex A for phenomena

#### Table 6-9:Open Items for 25.113

7. Work Item for Release 2000

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## History

		Document history
Date	Version	Comment
May 11 <sup>th</sup> , 1999	0.0.1	Initial version as R4-99251 based on R4-99190 and R4-99252.
June 3 <sup>rd</sup> , 1999	0.0.2	Revised the items pointed out at the WG4 #4 meeting.
		Incorporated the Study Items shown in R4-99253.
June 16 <sup>th</sup> , 1999	1.0.0	Table 5.5 was revised to incorporate agreed part of R4-99316.
July 15 <sup>th</sup> , 1999	1.0.1	Minor editorial changes incorporated.
July 24 <sup>th</sup> , 1999	1.1.0	Milestone change incorporated to be in line with PCG#2(99)21.
August 25 <sup>th</sup> , 1999	1.2.0	Revised the meeting schedule for #9 meeting as agreed at #6 meeting and updated Table 4:Work Plan.
September 8 <sup>th</sup> , 1999	1.3.0	Incorporated the following pages.
		5.6 25.141 (BS CONFORMANCE TEST FOR FDD)
		5.7 25.142 (BS CONFORMANCE TEST FOR TDD)
		5.8 25.113 (BS EMC)
September 30 <sup>th</sup> , 1999	1.4.0	<ul> <li>Editorial error in Table 4 corrected.</li> <li>Milestone change incorporated as agreed at the WG4 #7 meeting.</li> <li>Updated the following pages.</li> <li>5.5 25.103 (RF Parameters)</li> <li>5.7 25.142 (BS CONFORMANCE TEST FOR TDD)</li> <li>5.8 25.113 (BS EMC).</li> </ul>
October 7 <sup>th</sup> , 1999	1.4.0	Noted by TSG-RAN#5
October 27 <sup>th</sup> , 1999	2.0.0	Table 4 updated to reflect the result of TSG RAN #5.Meeting schedule for year 2000 incorporated.
December 5 <sup>th</sup> , 1999	2.1.0	Meeting schedule for year 2000 updated.
December 10 <sup>th</sup> , 1999	2.2.0	Table 4 updated to reflect the split of 25.103.
		Created a new section of "6. Open Item for Release 1999" and text changes proposed in R4-99907 except the table for 25.103 were incorporated into that section.
		Created a new section of "7. Work Item for Release 2000" with no content.

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