Source: **T1**

Title: **Progress Report for 34.122**

Agenda item: **6.1**

Document for: **Information**

The content of this document is derived from the status report submitted as T1R000184 the T1RF SWG

Content:

Schedule and Priority

	T1RF #11 21-23 Feb 00	T1#6 24-25 Feb 00	T1RF 12 17-19 Apr 17-19	T1RF #13 5-7 June 00	T1 #7 7-8 June 00	T#8 19-21 June 00
Revision					V2.0.0	V3.0.0
Transmitter Characteristics				Appr		
Receiver Charactereristics				Appr		
Performance Evaluation				Appr		
Requirements for Support of RRM						

Appr.: Approved

Collection of open Issues/Comments:

Copy from Annex I (informative) in 34.122.

Clause Number	Clause Title		Description of open items
Title			

Clause Number	Clause Title		Description of open items
			..... currently assessed as ready ..... editorial work to be done on minor issues ..... substance missing or to be decided
	Foreword		
1	Scope		
2	References		
3	Definitions, abbreviations an equations		
3.1	Definfitions		Average Power [TBD] Continual: to complete
3.2.	Abbreviations		Continual: to complete
3.3.	Equations		Continual: to complete
4	Frequency bands and channel arrangements		.....
5	Transmitter Characteristics		
5.1	General		
5.2	User equipment Maximum output Power		[ ] in table 5.2.2.b Several TBD in the procedure
5.3	Frequency Stability		
5.4	Output Power Dynamics		
5.4.1	Uplink Power Control		
5.4.1.1.	Initial accuracy		Many [ ] in table 5.4.1.1.4.
5.4.1.2.	Differential accuracy, controlled input		Many [ ] in table 5.4.1.2.4.
5.4.2	Minimum Output Power		TBD in the procedure
5.4.3.	Transmit OFF Power		
5.4.4.	Transmit ON/OFF time mask		Can partly replace Transmit OFF Power
5.4.5.	Out-of-synchronisation handling of output power		New clause inserted. Test to be developped
5.5	Output RF Spectrum		

Clause Number	Clause Title		Description of open items
5.5.1	Occupied Bandwidth		Procedure: Gaussian Filter [30 kHz] Start and stop of measurement steps in [ ]
5.5.2.	Out of band Emissions		
5.5.2.1	Spectrum Emission Mask		Filterbandwith near carrier to be modified according to R
5.5.2.2.	Adjacent Channel Leakage Power Ratio (ACLR)		TBD in the procedure: averaging number and start stop in
5.5.3.	Spurious Emissions		.....
5.6.	Transmit Intermodulation		
5.7.	Transmit Modulation		
5.7.1.	Error vector Magnitude		.....
5.7.2.	Peak code domain error		.....
6	Receiver Characteristics		
6.1.	General		
6.2	Reference Sensitivity Level		.....
6.3	Maximum Input Level		.....
6.4	Adjacent Channel Selectivity (ACS)		.....
6.5	Blocking Characteristics		Note in 6.5.4.2.: Confidence level in [ ]
6.6	Spurious Response		.....
6.7	Intermodulation Characteristics		.....
6.8	Spurious Emissions		Editor's Note: The method to set Cell Search Mode shoul defined. 6.8.4.2. steps of [200 kHz].
7	Performance requirements		
7.1	General		
7.2	Demodulation in Static propagation Conditions		
7.2.1.	Demodulation of DCH		.....
7.3	Demodulation in Multipath fading conditions		
7.3.1	Multipath fading Case1		.....

Clause Number	Clause Title		Description of open items
7.3.2.	Multipath fading Case2		.....
7.3.3.	Multipath fading Case3		.....
7.4	Base station transmit diversity mode		
7.4.1.	Demodulation of BCH in Block STTD mode		New clause inserted. Test to be developped
8	Requirements for Support of RRM		Tests to be developed for entire clause 8
8.1	General		
8.2	Idle Mode Tasks		
8.2.1.	Introduction		
8.2.2	RF Cell Selection Scenario		
8.2.2.1	Requirements for Cell Selection single carrier single cell case		
8.2.2.2	Requirements for Cell Selection multicarrier carrier multi cell case		
8.2.3	RF Cell Re-Selection Scenario		
8.2.3.1.	Requirements for Cell Re-Selection single carrier multi cell case		
8.2.4.	PLMN Selection and Re-Selection Scenario		
8.2.5.	Location Registration Scenario		
8.3.	RRC Connection mobility		
8.3.1.	Handover		
8.3.1.1.	Introduction		
8.3.1.2.	Handover 3G to 3G		
8.3.1.2.1	TDD/TDD Handover		
8.3.1.2.2.	TDD/FDD Handover		
8.3.1.3	Handover 3G to 2G		
8.3.1.3.1.	Handover to GSM		
8.3.2.	Radio Link Management		
8.3.2.1.	Link adaptation		
8.3.3.	Cell Update		
8.3.4.	URA Update		
8.4.	RRC Connection Control		
8.4.1.	Radio Access Bearer Control		

Clause Number	Clause Title		Description of open items
8.5.	Dynamic Channel Allocation		
8.8.	Timing characterisitics		
8.8.1.	Timing Advance (TA) Requirements		
8.9.	Measurements Performance Requirements		
8.9.1.	Measurements Performance for UE		
Annex A	Connection Diagrams		.....
Annex B	Global In-Channel-TX-Test		Peak code domain error on used codes or on all codes to decided --> done
Annex C	Measurement channels		Multicode uplink reference measurement channel needed (RAN4) --> done
Annex D	Propagation Conditions		TBDs and empty BLER numbers in table D1
Annex E	Common RF test conditions		Tables descibing downlink channels to be revised accord TDD E3: Standard test parameters from the text into annex E--
Annex F	Requirements of Test equipment		
	General		Text to be developed
	Acceptable uncertainty of measurement equippment		Numbers to be developed
	'Interpretation of measurement results		
Annex G	Environmental conditions		.....
Annex H	Terminal baseline and Service Implementation Capabilities (TDD)		.....
Annex I	Open Issues		continual
Annrx J	History		continual

1) Does CWTS (The Chinese TDD) require our attention?
2) Definition of Power still not agreed.

Status

The table below describes the status of contents in each test item. The status is categorized to

"None" (Header without content is still "none")

"Filled" (content available, it was not necessarily discussed in T1 RF SWG)

"Endorsed"

"Note/Need Action".

The coloured highlights show the difference between

V1.2.0 (Version presented to T1#6) and

V1.5.0 (Version currently presented to T1#7)

in order to demonstrate the progress and amount of work :

Green text: created or totally revised

Red scratched text:deleted

Yellow marker: editorial maintenance

Green marker: substantial changes

Table 1. Breakown Work Items

Chapter Number in 34.122	*Test Item*	*Definition and applicability*	*Conformance Requirement (Reference)*	*Test Purpose*	*Method of Test*	*Test Requirements*	*Estimated level*
2	**References** filled						
3	**Definitions, Symbols, abbreviations and equations** filled						
4	**Frequency bands and channel arrangeemnts** filled						
5	**Transmitter Characteristics**						
5.2	User equipment Maximum Output Power	Endorsed	Endorsed (25.102 6.2.1)	Endorsed	Endorsed	Endorsed	90%
5.3	Frequency Stability	Endorsed	Endorsed (25.102 6.3)	Endorsed	Endorsed	Endorsed	90%
5.4	**Output Power Dynamics**						
5.4.1	Uplink Power Control						
5.4.1.1.	Initial accuracy	Endorsed	Endorsed (25.102 6.4.1.1)	Endorsed	Endorsed	Endorsed	90%
5.4.1.2.	Differential accuracy, controlled input	Endorsed	Endorsed (25.102 6.4.1.2)	Endorsed	Endorsed	Endorsed	90%
5.4.2	Minimum Transmit Output Power	Endorsed	Endorsed (25.102 6.4.5)	Endorsed	Endorsed	Endorsed	90%
5.4.3	Transmit OFF Power	Endorsed	Endorsed (25.102 6.5.1.1)	~~Endorsed~~	~~Endorsed~~	~~Endorsed~~	90%
5.4.4	Transmit ON/OFF Time Mask	Endorsed	Endorsed (25.102 6.5.2.1)	Endorsed	Endorsed	Endorsed	90 %
5.4.5.	Out of synch handling of output power	filled	filled	none	none	none	20%
5.5	**Output RF spectrum emissions**						
5.5.1	Occupied Bandwidth	Endorsed	Endorsed (25.102 6.6.1)	Endorsed	Endorsed	Endorsed	90%
5.5.2	**Out of band emissions**	**NA**					
5.5.2.1	Spectrum emission mask	Endorsed	Endorsed (25.102 6.6.2.1)	Endorsed	Endorsed	Endorsed	90%
5.5.2.2	Adjacent Cannel Leakage Power Ratio	Endorsed	Endorsed (25.102 6.6.2.2)	Endorsed	Endorsed	Endorsed	90%

5.5.3	Spurious Emission	Endorsed	Endorsed (25.102 6.6.3)	Endorsed	Endorsed	Endorsed	90%
5.6	Transmission Intermodulation	Endorsed	Endorsed (25.102 6.7)	Endorsed	Endorsed	Endorsed	90%
5.7	**Transmit Modulation**	**NA**					
5.7.1	Error Vector Magnitude	Endorsed	Endorsed (25.102 6.8.2)	Endorsed	Endorsed	Endorsed	90%
5.7.2	Peak code Domain Error	Endorsed	Endorsed (25.102 6.8.3)	Endorsed	Endorsed	Endorsed	90%
Chapter Number in 34.122	*Test Item*	*Definition and applicability*	*Conformance Requirement (Reference)*	*Test Purpose*	*Method of Test*	*Test Requirements*	
6	**Receiver Characteristics**						
6.2	Reference Sensitivity level	Endorsed	Endorsed (25.102 7.3)	Endorsed	Endorsed	Endorsed	90%
6.3	Maximum Input Level	Endorsed	Endorsed (25.102 7.4)	Endorsed	Endorsed	Endorsed	90%
6.4	Adjacent Channel Selectivity	Endorsed	Endorsed (25.102 7.5)	Endorsed	Endorsed	Endorsed	90%
6.5	Blocking Characteristics	Endorsed	Endorsed (25.102 7.6)	Endorsed	Endorsed	Endorsed	90%
6.6	Spurious Reponse	Endorsed	Endorsed (25.102 7.7)	Endorsed	Endorsed	Endorsed	90%
6.7	Intermodulation Characteristics	Endorsed	Endorsed (25.102 7.8)	Endorsed	Endorsed	Endorsed	90%
6.8	Spurious Emission	Endorsed	Endorsed (25.102 7.9)	Endorsed	Endorsed	Endorsed	90%
Chapter Number in 34.122	*Test Item*	*Definition and applicability*	*Conformance Requirement (Reference)*	*Test Purpose*	*Method of Test*	*Test Requirements*	
7	**Performance requirements**						
7.2	**Demodulation in static propagation conditions**	**NA**					

7.2.1.	Demodulation of DCH	endorsed	endorsed (25.102 8.2.1.)	endorsed	endorsed	endorsed	90%
7.3	**Demodulation of DCH in Multipath Fading Channel**						
7.3.1.	Multipath fading Case 1	endorsed	endorsed (25.102 8.3.1.)	endorsed	endorsed	endorsed	90%
7.3.2.	Multipath fading Case 2	endorsed	endorsed (25.102 8.3.2)	endorsed	endorsed	endorsed	90%
7.3.3.	Multipath fading Case 3	endorsed	endorsed (25.102 8.3.3)	endorsed	endorsed	endorsed	90%
Chapter Number in 34.122	*Test Item*	*Definition and applicability*	*Conformance Requirement (Reference)*	*Test Purpose*	*Method of Test*	*Test Requirements*	
8	Requirements for Support of RRM						
8.1	General	none					
8.2	Idle mode tasks	none	none (TS 25.123 clause 4)	none	none	none	0%
8.3	RRC connection mobility	none	None (TS 25.123 clause 5)	none	none	none	0%
8.4	RRC connection control	none	none(TS 25.123 clause 6)	none	none	none	0%
8.5	Dynymic channel allocation	none	none(TS 25.123 clause 7)	none	none	none	0%
~~8.6.~~	~~Power management~~	~~none~~	~~none(TS 25.123 clause 8)~~	~~none~~	~~none~~	~~none~~	0%
~~8.7.~~	~~Radio link surveillance~~	~~none~~	~~none(TS 25.123 clause 9)~~	~~none~~	~~none~~	~~none~~	0%
8.8.	Timing characteristics	none	none(TS 25.123 clause 10)	none	none	none	0%
8.9	Measurement performance requirements	none	none(TS 25.123 clause 11)	none	none	none	0%
Annex. A	Connection Diagram	filled					90%
Annex B	Global in channel TX Test	filled					100%
Annex C	Measurement Channels	Filled (reference 25.102 Annex A)					90%
Annex D	Propagation conditions	Filled (reference 25.102 Annex B)					90%
Annex E	Common RF test conditions	filled					75~~90~~%
Annex F	Requirements of Test Equpment	General	Acceptable uncertainty of measurement equipment	Interpretation of measurment results			
		none	none	75%			25%

Annex G	Enviromental Conditions	filled (reference 25.102 Annex C)	90%
Annex H	Baseline and Implementation capabilities	Filled (reference 25.102 Annex D ???)	90%
Annex I	Open issues	filled	100%

Status Summary:

Item	Estimated Level of Completeness	State of the corespecs 25.102
5. Transmitter Characteristics	85%	90%
6. Receiver Characteristics	90%	90%
7. Performance Requirements	90%	90%
Annexes	80%	90%
Requirements for Support o Radio Resource Management (TDD)	0%	State of corespec 25.123 50%