

**3GPP TSG RAN Meeting #18  
New Orleans, Louisiana, USA, 3 - 6 December, 2002**

**RP-020842**

**Title: CRs (Rel-4 and Rel-5 Category A) to TS 25.215**

**Source: TSG-RAN WG1**

**Agenda item: 7.1.4**

**Release 4 CRs + Associated Release 5 CRs**

**CRs with no links to other specifications**

***TS 25.215 (RP-020842)***

No.	Spec	CR	Rev	R1 T-doc	Subject	Phase	Cat	Workitem	V_old	V_new
1	25.215	132	-	R1-02-1412	Received Total Wide Band Power Measurement Definition	REL-4	F	TEI4	4.5.0	4.6.0
2	25.215	131	1	R1-02-1412	Received Total Wide Band Power Measurement Definition	REL-5	A	TEI5	5.1.0	5.2.0

## CHANGE REQUEST

⌘ **25.215 CR 131** ⌘ rev **1** ⌘ Current version: **5.1.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘	Received Total Wide Band Power Measurement Definition
<b>Source:</b>	⌘	TSG RAN WG1
<b>Work item code:</b>	⌘	TEI5
		<b>Date:</b> ⌘ 6/11/2002
<b>Category:</b>	⌘	<b>A</b>
		Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900.
		<b>Release:</b> ⌘ Rel-5
		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

<b>Reason for change:</b>	⌘	The current RTWP measurement definition sets the measurement reference point to be the output of receiver's pulse shaping filter. The practical Node B implementations may have different pre-amplifiers and cable losses before the defined measurement reference point and hence different Node Bs would report a different RTWP magnitude under the same radio conditions.
<b>Summary of change:</b>	⌘	Change the measurement reference point to the receiving antenna connector, while still considering the receiver generated noise and measurement bandwidth
<b>Consequences if not approved:</b>	⌘	Node B measurement reporting levels could be implementation dependent.  Isolated Impact Analysis: Changing the measurement reference point to the receiving antenna connector. Would not affect implementations behaving like indicated in the CR, would affect implementations interpreting the corrected definition literally. Would not affect implementations interpreting the current definition to be the total received power density at the BS antenna connector.

<b>Clauses affected:</b>	⌘	5.2.1								
<b>Other specs affected:</b>	⌘	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> </table> Other core specifications ⌘ Test specifications ⌘ O&M Specifications ⌘	Y	N		X		X		X
Y	N									
	X									
	X									
	X									
<b>Other comments:</b>	⌘	TS25.133 already defines the measurement reporting range as the measurement reference point were the receiving antenna conenctor.								

**How to create CRs using this form:**

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

## 5.2.1 Received total wide band power

<b>Definition</b>	The received wide band power, including noise generated in the receiver, within the bandwidth defined by the receiver pulse shaping filter. The reference point for the measurement shall be the Rx antenna connector. In case of receiver diversity the reported value shall be linear average of the power in [W] in the diversity branches.
-------------------	--

## CHANGE REQUEST

25.215 CR 132 rev - Current version: 4.5.0

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the symbols.

Proposed change affects: UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	Received Total Wide Band Power Measurement Definition		
<b>Source:</b>	TSG RAN WG1		
<b>Work item code:</b>	TEI4	<b>Date:</b>	6/11/2002
<b>Category:</b>	<b>F</b>	<b>Release:</b>	Rel-4
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900.		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

<b>Reason for change:</b>	The current RTWP measurement definition sets the measurement reference point to be the output of receiver's pulse shaping filter. The practical Node B implementations may have different pre-amplifiers and cable losses before the defined measurement reference point and hence different Node Bs would report a different RTWP magnitude under the same radio conditions.
<b>Summary of change:</b>	Change the measurement reference point to the receiving antenna connector, while still considering the receiver generated noise and measurement bandwidth
<b>Consequences if not approved:</b>	Node B measurement reporting levels could be implementation dependent.  Isolated Impact Analysis: Changing the measurement reference point to the receiving antenna connector. Would not affect implementations behaving like indicated in the CR, would affect implementations interpreting the corrected definition literally. Would not affect implementations interpreting the current definition to be the total received power density at the BS antenna connector.

<b>Clauses affected:</b>	5.2.1										
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> </table>	Y	N		X		X		X	Other core specifications Test specifications O&M Specifications	
Y	N										
	X										
	X										
	X										
<b>Other comments:</b>	TS25.133 already defines the measurement reporting range as the measurement reference point were the receiving antenna conenctor.										

**How to create CRs using this form:**

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>.

Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

## 5.2.1 Received total wide band power

<b>Definition</b>	The received wide band power, including noise generated in the receiver, within the bandwidth defined by the receiver pulse shaping filter. The reference point for the measurement shall be the Rx antenna connector. In case of receiver diversity the reported value shall be linear average of the power in [W] in the diversity branches.
-------------------	--