TSG RAN Meeting #19 **RP-030034**
Birmingham, United Kingdom, 11 - 14 March, 2003

Title **CRs (Rel-4 and Rel-5/Rel-6 Category A) to TS 25.133**
Source **TSG RAN WG4**
Agenda Item **8.4.4**

RAN4 Tdoc	Spec	CR	R	Cat	Rel	Curr Ver	Title	Work Item
R4-020114	25.133	525		F	Rel-4	4.7.0	UE rx-tx time difference type 1	TEI4
R4-020115	25.133	526		A	Rel-5	5.5.0	UE rx-tx time difference type 1	TEI4
R4-020116	25.133	527		A	Rel-6	6.0.0	UE rx-tx time difference type 1	TEI4

3GPP TSG RAN WG4 (Radio) Meeting #26 **R4-030114**

Madrid, Spain 17 - 22 February, 2003

CR-Form-v7

CHANGE REQUEST

⌘ **25.133** **CR** **525** ⌘ **rev** ⌘ Current version: **4.7.0** ⌘

*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 [X] Radio Access Network [X] Core Network [ ]

Title:	⌘	UE rx-tx time difference type 1
Source:	⌘	RAN WG4
Work item code:	⌘	TEI4
Date:	⌘	05/03/2003
Category:	⌘	**F**
Release:	⌘	Rel-4

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one 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)*

Reason for change:	⌘	The measurement report mapping of the UE Rx-Tx time difference type 1 measurement is wrong (and different from REL-99).
Summary of change:	⌘	The measurement report mapping of the UE Rx-Tx time difference type 1 measurement is correct. Isolated Impact Analysis: This CR has an isolated impact on the reporting of the UE Rx-Tx time difference type 1 measurement if the reporting has been implemented according to this release (and not according to release 99).
Consequences if not approved:	⌘	If the current report mapping is followed, it is impossible to understand the reported measurement results correctly.

Clauses affected:	⌘	9.1.9.1.2

Other specs affected: ⌘	Y	N		⌘
	X		Other core specifications	TS25.331
	X		Test specifications	TS34.121
		X	O&M Specifications	

Other comments: ⌘

Equivalent CRs in other Releases: CR526 cat. A to 25.133 v5.5.0, CR527 cat. A to 25.133 v6.0.0

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.

9.1.9 UE Rx-Tx time difference

9.1.9.1 UE Rx-Tx time difference type 1

NOTE: This measurement is used for call set up purposes to compensate propagation delay of DL and UL.

The measurement period in CELL_DCH state is 100 ms.

9.1.9.1.1 Measurement requirement

Table 9.25

Parameter	Unit	Accuracy [chip]	Conditions Io [dBm/3.84 MHz]
UE RX-TX time difference	chip	± 1.5	-94...-50

9.1.9.1.2 UE Rx-Tx time difference type 1 measurement report mapping

The reporting range is for *UE Rx-Tx time difference type 1* is from 768 ... 1280 chip.

In table 9.26 the mapping of measured quantity is defined. The range in the signalling may be larger than the guaranteed accuracy range.

Table 9.26

Reported value	Measured quantity value	Unit
RX-TX_TIME _768	UE Rx-Tx Time difference type 1< 768	chip
RX-TX_TIME _769	768 ≤ UE Rx-Tx Time difference type 1< 769	chip
RX-TX_TIME _770	769 ≤ UE Rx-Tx Time difference type 1< 770	chip
RX-TX_TIME _771	770 ≤ UE Rx-Tx Time difference type 1< 771	chip
…	…	…
RX-TX_TIME _1277	1276~~6~~ ≤ UE Rx-Tx Time difference type 1< 127~~1~~	chip
RX-TX_TIME _1278	1277 ≤ UE Rx-Tx Time difference type 1< 1278	chip
RX-TX_TIME _1279	1278 ≤ UE Rx-Tx Time difference type 1< 1279	chip
RX-TX_TIME _1280	1279~~80~~ ≤ UE Rx-Tx Time difference type 1	chip

3GPP TSG RAN WG4 (Radio) Meeting #26 **R4-030115**

Madrid, Spain 17 - 22 February, 2003

CR-Form-v7

CHANGE REQUEST

⌘ **25.133** **CR** **526** ⌘ **rev** ⌘ Current version: **5.5.0** ⌘

*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 [X] Radio Access Network [X] Core Network [ ]

Title:	⌘	UE rx-tx time difference type 1
Source:	⌘	RAN WG4
Work item code:	⌘	TEI4
Date:	⌘	05/03/2003
Category:	⌘	**A**
Release:	⌘	Rel-5

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
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Use one 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)*

Reason for change:	⌘	The measurement report mapping of the UE Rx-Tx time difference type 1 measurement is wrong (and different from REL-99).
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Consequences if not approved:	⌘	If the current report mapping is followed, it is impossible to understand the reported measurement results correctly.

Clauses affected:	⌘	9.1.9.1.2

		Y	N			
Other specs affected:	⌘	X		Other core specifications	⌘	TS25.331
		X		Test specifications		TS34.121
			X	O&M Specifications		

Other comments:	⌘	Equivalent CRs in other Releases: CR525 cat. F to 25.133 v4.7.0, CR527 cat. A to 25.133 v6.0.0

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9.1.9 UE Rx-Tx time difference

9.1.9.1 UE Rx-Tx time difference type 1

NOTE: This measurement is used for call set up purposes to compensate propagation delay of DL and UL.

The measurement period in CELL_DCH state is 100 ms.

9.1.9.1.1 Measurement requirement

Table 9.25

Parameter	Unit	Accuracy [chip]	Conditions		
			Band I	Band II	Band III
			Io [dBm/3.84 MHz]	Io [dBm/3.84 MHz]	Io [dBm/3.84 MHz]
UE RX-TX time difference	chip	± 1.5	-94...-50	-92…-50	-91…-50

9.1.9.1.2 UE Rx-Tx time difference type 1 measurement report mapping

The reporting range is for *UE Rx-Tx time difference type 1* is from 768 ... 1280 chip.

In table 9.26 the mapping of measured quantity is defined. The range in the signalling may be larger than the guaranteed accuracy range.

Table 9.26

Reported value	Measured quantity value	Unit
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RX-TX_TIME _771	770 ≤ UE Rx-Tx Time difference type 1< 771	chip
…	…	…
RX-TX_TIME _1277	1276~~6~~ ≤ UE Rx-Tx Time difference type 1< 1277~~1~~	chip
RX-TX_TIME _1278	1277 ≤ UE Rx-Tx Time difference type 1< 1278	chip
RX-TX_TIME _1279	1278 ≤ UE Rx-Tx Time difference type 1< 1279	chip
RX-TX_TIME _1280	1279~~80~~ ≤ UE Rx-Tx Time difference type 1	chip

3GPP TSG RAN WG4 (Radio) Meeting #26 **R4-030116**

Madrid, Spain 17 - 22 February, 2003

CR-Form-v7

CHANGE REQUEST

⌘ **25.133** **CR** **527** ⌘ **rev** ⌘ Current version: **6.0.0** ⌘

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Proposed change affects: UICC apps⌘ [ ] ME [X] Radio Access Network [X] Core Network [ ]

Title:	⌘	UE rx-tx time difference type 1
Source:	⌘	RAN WG4
Work item code:	⌘	TEI4
Date:	⌘	05/03/2003
Category:	⌘	**A**
Release:	⌘	Rel-6

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Consequences if not approved:	⌘	If the current report mapping is followed, it is impossible to understand the reported measurement results correctly.

Clauses affected:	⌘	9.1.9.1.2

		Y	N			
Other specs affected:	⌘	X		Other core specifications	⌘	TS25.331
		X		Test specifications		TS34.121
			X	O&M Specifications		

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RX-TX_TIME _1277	12766 ≤ UE Rx-Tx Time difference type 1< 1271	chip
RX-TX_TIME _1278	1277 ≤ UE Rx-Tx Time difference type 1< 1278	chip
RX-TX_TIME _1279	1278 ≤ UE Rx-Tx Time difference type 1< 1279	chip
RX-TX_TIME _1280	1280 ≤ UE Rx-Tx Time difference type 1	chip