			CHANGE	REQ	UES	Plea page	se see embedded help f a for instructions on how	ile at the bottom of th to fill in this form cori	is rectly.
			25.225	CR	013	rev1	Current Versio	on: 3.3.0	
GSM (AA.BB) or	3G (/	AA.BBB) specifica	ation number $\uparrow$		ſ	CR numbe	er as allocated by MCC s	support team	
For submission	on to I mee	b: RAN #9	for a for info	approval ormation		his form is au	strate non-strate	gic (for SM gic use on	IG ly)
Proposed change affects: (at least one should be marked with an X)									
Source:		Siemens A	3				Date:	28.06.2000	
Subject:		Alignment o	o <mark>f TDD measurer</mark>	<mark>nents wi</mark>	th FDD:	: SFN-C	FN observed tim	e difference	
Work item:									
Category: (only one category shall be marked with an X)	F A B C D	Correction Correspond Addition of Functional Editorial me	ds to a correction feature modification of fo odification	i in an ea	urlier rel	ease	X <u>Release:</u>	Phase 2 Release 96 Release 97 Release 98 Release 99 Release 00	X
<u>Reason for</u> change:		Following C this CR pro present in 2	R 058r1 to TS 2 poses to include 5.215 v.3.3.0 for	5.302 (R the 'SFN FDD) al	2-00-11 I-CFN c Iso in th	51) app observed le TDD s	oroved on RAN # d time difference specification 25.2	8 (RP-00-0215 ' (which is alrea 225.	) ady
Clauses affect	tod:								
<u>Olduses allee</u>									
Other specs affected:	C C M B C	Other 3G cor Other GSM c specificat IS test spec SS test spe 0&M specific	e specifications ore ions ifications cifications cations		$\begin{array}{l} \rightarrow \ \text{List} \\ \end{array}$	of CRs: of CRs: of CRs: of CRs: of CRs:			
<u>Other</u> comments:									



<----- double-click here for help and instructions on how to create a CR.

## 5.1.9 UE transmitted power

Definition	The total UE transmitted power on one carrier measured in a timeslot. The reference point for the UE transmitted power shall be the UE antenna connector.
Applicable for	connected mode (intra-frequency).

## 5.1.10 SFN-SFN observed time difference

Definition	SFN-SFN observed time difference is the time difference of the reception times of frames from two cells (serving and target) measured in the UE and expressed in chips. It is distinguished in two types. Type 2 applies if the serving and the target cell have the same frame timing.   Type 1: SFN-SFN observed time difference = OFF×38400+ T <sub>m</sub> in chips, where:   T <sub>m</sub> = T <sub>RXSFNi</sub> - T <sub>RXSFNk</sub> , given in chip units with the range [0, 1,, 38399] chips   T <sub>RXSFNi</sub> : time of start of the received frame SFN <sub>i</sub> of the serving TDD cell i.   T <sub>RXSFNk</sub> : time of start of the received frame SFN <sub>k</sub> of the target UTRA cell k received most recent in time before the time instant T <sub>RXSFNi</sub> in the UE. If this frame SFN <sub>k</sub> of the target   Of the target UTRA cell is received exactly at T <sub>RXSFNi</sub> then T <sub>RXSFNk</sub> (which leads to T <sub>m</sub> =0).   OFF=(SFNi- SFNk) mod 256, given in number of frames with the range [0, 1,, 255] frames SFNi : system frame number for downlink frame from serving TDD cell i in the UE at the time T <sub>RXSFNi</sub> .   SFNk : system frame number for downlink frame from target UTRA cell k received in the
	SFNk : system frame number for downlink frame from target UTRA cell k received in the UE at the time T <sub>RxSFNk</sub> .(for FDD: the P-CCPCH frame) <b>Type 2:</b> SFN-SFN observed time difference = T <sub>RxTSk</sub> - T <sub>RxTSi</sub> , in chips, where T <sub>RxTSi</sub> :   time of start of a timeslot received of the serving TDD cell i.   T <sub>RxTSk</sub> : time of start of a timeslot received from the target UTRA cell k that is closest in time to the start of the timeslot of the serving TDD cell i.
Applicable for	idle mode, connected mode (intra-frequency), connected mode (inter-frequency)

## 5.1.9 SFN-CFN observed time difference

<u>Definition</u>	The SFN-CFN observed time difference is defined as: $T_m$ for an FDD neighbour cell (i.e. the value is reported in chips). OFF for a TDD neighbour cell (i.e the value is reported in frames). where:
	$T_m = T_{UETx} - T_{RxSFN}$ , given in chip units with the range [0, 1,, 38399] chips. $T_{UETx}$ is the time at the beginning of the frame with the connection frame number CFN <sub>TX</sub> .
	<u>T<sub>RxSFN</sub> is the time at the beginning of the frame with the system frame number SFN (for FDD neighbour cells: P-CCPCH frame is considered) received at the UE from a neighbour cell</u>
	$OFF=(SFN-CFN_{TX}) \mod 256$ , given in number of frames with the range [0, 1,, 255] frames CFN <sub>TX</sub> is the connection frame number for the UE transmission.
	SFN is the system frame number for the neighbouring cell frame (for FDD neighbour cells: P- CCPCH frame) received in the UE at the time instant T <sub>RxSFN</sub> .
Applicable for	connected mode (inter-frequency), connected mode (intra-frequency)

## 5.1.11 Observed time difference to GSM cell

Definition	Observed time difference to GSM cell is the time difference T <sub>m</sub> in ms, where				
	T <sub>m</sub> = T <sub>RxGSMk</sub> - T <sub>RxSFN0i</sub>				
	T <sub>RxSFN0i</sub> : time of start of the received frame SFN=0 of the serving TDD cell i				
	T <sub>RxGSMk</sub> : time of start of the GSM BCCH 51-multiframe of the considered target				
	GSM frequency k received closest in time after the time T <sub>RxSFN0i</sub> .				
	If the next GSM BCCH 51-multiframe is received exactly at $T_{RxSFN0i}$ then $T_{RxGSMk} = T_{RxSFN0i}$				
	(which leads to $T_m=0$ ).				
	The beginning of the GSM BCCH 51-multiframe is defined as the beginning of the first tail bit of				
	the frequency correction burst in the first TDMA-frame of the GSM BCCH 51-multiframe, i.e. the				
	TDMA-frame following the IDLE-frame.				
Applicable for	Idle mode, connected mode (inter-frequency)				