		CHANGE I	REQI	JEST			le at the bottom of thi to fill in this form corr	
		25.225	CR	012	Cı	urrent Versio	on: 3.3.0	
GSM (AA.BB) or 3	G (AA.BBB) specifica	tion number \uparrow		↑ CR	number as allo	ocated by MCC s	upport team	
For submission	meeting # here ↑	for infor		X		strateg non-strateg	gic use on	'y)
Proposed chan (at least one should be	ge affects:	sion 2 for 3GPP and SMG	ME		TRAN / Ra		g/Information/CR-Form-	/2.doc
Source:	Siemens A	3				Date:	28.06.2000	
Subject:	Alignment of	f TDD measurem	nents wit	<mark>h FDD: G</mark> l	PS related	<mark>l measurem</mark>	ents	
Work item:								
(only one category [shall be marked (3 Addition of	modification of fe		rlier releas	Se X	<u>Release:</u>	Phase 2 Release 96 Release 97 Release 98 Release 99 Release 00	X
<u>Reason for</u> <u>change:</u>		o FDD it is propo	esed to in	itroduce a	lso GPS T	iming meas	surements for L	.CS
Clauses affecte	ed: 5.1 and	5.2						
<u>Other specs</u> affected:	Other 3G cor Other GSM c specificat MS test spec BSS test spe O&M specific	ons ifications cifications	-	 → List of 0 	CRs: CRs: CRs:			
<u>Other</u> comments:	See introduct	ory Tdoc about L	CS for T	DD R1-00	0-0866.			
TAR								

help.doc

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

UE transmitted power 5.1.9

	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 \times 38400+ T _m in chips, where:			
	$T_m = T_{RxSFNi} - T_{RxSFNk}$, given in chip units with the range [0, 1,, 38399] chips T_{RxSFNi} : time of start of the received frame SFN _i of the serving TDD cell i.				
	T_{RxSFNk} : time of start of the received frame SFN _k of the target UTRA cell k received most				
	recent in time before the time instant T_{RxSFNi} in the UE. If this frame SFN_k				
	of the target UTRA cell is received exactly at T _{RxSFNi} then T _{RxSFNk} = T _{RxSFNi} (which				
	leads to T _m =0).				
	OFF=(SFN _i - SFN _k) 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 _{RxSFNi} .				
	SFNk : system frame number for downlink frame from target UTRA cell k received in the UE at the time T _{RxSFNk} .(for FDD: the P-CCPCH frame)				
	Туре 2:				
	SFN-SFN observed time difference = T_{RxTSk} - T_{RxTSi} , in chips, where				
	T _{RxTSi} : time of start of a timeslot received of the serving TDD cell i.				
	T _{RxTSk} : 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)				

5.1.11 Observed time difference to GSM cell

Definition	Observed time difference to GSM cell is the time difference T_m in ms, where			
	T _m = T _{RxGSMk} - T _{RxSFN0i}			
	T _{RXSFN01} : time of start of the received frame SFN=0 of the serving TDD cell i			
	T _{RxGSMk} : time of start of the GSM BCCH 51-multiframe of the considered target			
	GSM frequency k received closest in time after the time T _{RxSFN0i} .			
	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)			

<u>5.1.11</u>	UE GPS Timing of Cell Frames for LCS
Definition	The timing between cell j and GPS Time Of Week. T _{UE-GPSj} is defined as the time of occurrence of a specified UTRAN event according to GPS time. The specified UTRAN event is the beginning of a particular frame (identified through its SFN) in the first significant multipath of the cell j P-CCPCH measured in the UE.
Applicable for	or Idle mode, connected mode (intra-frequency, inter-frequency)

5.2.4 SIR

Definition	Signal to Ir Where:	terference Ratio, defined as: (RSCP/ISCP)xSF.
	RSCP = DPCH,	Received Signal Code Power, the received power on the code of a specified
	ISCP =	PRACH or PUSCH. Interference Signal Code Power, the interference on the received signal in the same timeslot which can't be eliminated by the receiver.
	SF =	The used spreading factor.
	The referer	nce point for the SIR shall be the antenna connector.

5.2.5 Transport channel BER

Definition	The transport channel BER is an estimation of the average bit error rate (BER) of DCH or USCH data. The transport channel (TrCH) BER is measured from the data considering only non-punctured bits at the input of the channel decoder in Node B. It shall be possible to report an estimate of the transport channel BER for a TrCH after the end of each TTI of the TrCH. The reported TrCH BER shall be an estimate of the BER during the latest TTI for that TrCH. Transport channel BER is only required to be reported for TrCHs that
	are channel coded.

5.2.6 Physical channel BER

The physical channel BER is an estimation of the average bit error rate (BER) of a DPCH or PUSCH.

5.2.7 Transmitted carrier power

Definition	Transmitted carrier power, is the ratio between the total transmitted power on one DL carrier [W] from one UTRAN access point measured in a timeslot and the maximum transmission power [W] that is possible to use on the same carrier during the measurement period. The maximum transmission power is the configured maximum transmission power for the cell. The measurement shall be possible on any carrier transmitted from the UTRAN access point. The reference point for the transmitted carrier power measurement shall be the antenna connector.
	In case of Tx diversity the transmitted carrier power for each branch shall be measured.

5.2.8 Transmitted code power

Definition Transmitted Code Power, is the transmitted power on one carrier and one channel	
	in one timeslot. The reference point for the transmitted code power measurement shall be the
	antenna connector at the UTRAN access point cabinet.

5.2.9 RX Timing Deviation

Definition	'RX Timing Deviation' is the time difference TRXdev = TTS – TRXpath in chips, with		
	TRXpath: time of the reception in the Node B of the first significant uplink path to be used		
	in the detection process		
	TTS: time of the beginning of the respective slot according to the Node B internal		
	Timing		
NIGHT H			

NOTE: This measurement can be used for timing advance calculation or location services.

<u>5.2.10</u>	UTRAN GPS Timing of Cell Frames for LCS
<u>Definition</u>	The time difference between the timing of the cell and GPS Time Of Week. T _{UTRAN-GPS} is defined as the time of occurrence of a specified UTRAN event according to GPS time. The specified UTRAN event is the beginning of a particular frame (identified through its SFN) transmitted in the cell.