TSG-RAN Working Group 1 meeting #9 Dresden, Germany November 30 – December 3, 1999

TSGR1#9(99)k28

Agenda item:	AH 16
Source:	Ericsson
Title:	CR 25.215-020: Correction of SFN-SFN observed time difference
Document for:	Decision

The definition of Tm in the measurement "SFN-SFN observed time difference" in TS 25.215 has the wrong sign. This CR corrects that.

help.doc

Document ???99???

e.g. for 3GPP use the format TP-99xxx or for SMG, use the format P-99-xxx

		CHANGE I	REQI	JEST	Please s page for	ee embedded help fi instructions on how	ile at the bottom of th to fill in this form col	nis rrectly.
		25.215	CR	020		Current Versio	on: 3.0.0	
GSM (AA.BB) or 3G	(AA.BBB) specifica	tion number \uparrow		↑ Cł	R number as	s allocated by MCC s	support team	
For submission t	to: TSG-RA eeting # here ↑	N #6 for ap for infor	oproval mation	X version of this f	orm is availat	strates	gic (for Si gic use of rg/Information/CR-Form	MG nly) -v2.doc
Proposed chang (at least one should be m	ge affects: narked with an X)	(U)SIM	ME	<mark>Χ</mark> (JTRAN /	Radio X	Core Network	
Source:	Ericsson					Date:	1999-12-01	
Subject:	Correction of	o <mark>f SFN-SFN obse</mark>	rved tim	<mark>e differer</mark>	nce			
Work item:								
Category:FA(only one categorybshall be markedCwith an X)D	Correction Correspond Addition of Functional n Editorial mo	ls to a correction i feature modification of fe odification	in an ea ature	rlier relea	ISE	Release:	Phase 2 Release 96 Release 97 Release 98 Release 99 Release 00	X
Reason for change:	The definition 25.215 has	on of Tm in the m the wrong sign. T	easuren his CR (orrects th	I-SFN ot hat.	oserved time d	ifference in TS	6
Clauses affected	<u>d:</u> 5.1.12	SFN-SFN observ	ed time	differenc	e			
Other specs	Other 3G core Other GSM core specificati MS test speci BSS test speci O&M specific	e specifications ore ons fications cifications ations		 → List of 	CRs: CRs: CRs: CRs: CRs: CRs:			
Other comments:								

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

5.1.11 CFN-SFN observed time difference

Definition	The CFN-SFN observed time difference to cell is defined as: OFF×38400+ T _m , where: T _m = T _{RxSFN} - (T _{UETx} -T ₀), given in chip units with the range [0, 1,, 38399] chips T _{UETx} is the time when the UE transmits an uplink DPCCH/DPDCH frame. T ₀ is defined in TS 25.211 section 7.1.3. T _{RxSFN} is time at the beginning of the next received neighbouring P-CCPCH frame after the time instant T _{UETx} -T ₀ in the UE. If the next neighbouring P-CCPCH frame is received exactly at T _{UETx} - T ₀ then T _{RxSFN} =T _{UETx} -T ₀ (which leads to T _m =0).
	and OFF=(CFN _{Tx} -SFN) mod 256, given in number of frames with the range [0, 1,, 255] frames CFN _{Tx} is the connection frame number for the UE transmission of an uplink DPCCH/DPDCH frame at the time T _{UETx} . SFN = the system frame number for the neighbouring P-CCPCH frame received in the UE at the time T _{RSEN} .
Applicable for	Connected Inter, Connected Intra
Range/mapping	Time difference is given with the resolution of one chip with the range [0,, 9830399] chips.

5.1.12 SFN-SFN observed time difference

Definition	Type 1: The SFN-SFN observed time difference to cell is defined as: OFF×38400+ T _m , where: $T_m = T_{RxSFNij} - T_{RxSFNji}$, given in chip units with the range [0, 1,, 38399] chips T_{RxSFNj} is the time at the beginning of a received neighbouring P-CCPCH frame from cell j. T_{RxSFNi} is time at the beginning of the next received neighbouring P-CCPCH frame from cell i after the time instant T_{RxSFNj} in the UE. If the next neighbouring P-CCPCH frame is received exactly at T_{RxSFNj} then $T_{RxSFNj} = T_{RxSFNi}$ (which leads to $T_m = 0$).
	OFF=(SFN _j - SFN _i) mod 256, given in number of frames with the range [0, 1,, 255] frames SFN _j = the system frame number for downlink P-CCPCH frame from cell j in the UE at the time T_{RxSFNj} . SFN _i = the system frame number for the P-CCPCH frame from cell i received in the UE at the time T_{RxSFNi} . Type 2: The relative timing difference between cell j and cell i, defined as $T_{CPICHRxi}$ - $T_{CPICHRxi}$, where:
	$T_{CPICHRxj}$ is the time when the UE receives one CPICH slot from cell j $T_{CPICHRxi}$ is the time when the UE receives the CPICH slot from cell i that is closest in time to the CPICH slot received from cell j
Applicable for	Type 1: Idle, Connected Intra Type 2: Idle, Connected Intra, Connected Inter
Range/mapping	Type 1: Time difference is given with a resolution of one chip with the range [0,, 9830399] chips. Type 2: Time difference is given with a resolution of 0.5 chip with the range [-1279,, 1280] chips.

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