TSG RAN Meeting #28 **RP-050245**
Quebec, Canada, 1 - 3 June 2005

Title **CRs (Rel-5 & Rel-6) to TS25.215 for Feature Clean Up: Removal of observed time difference to GSM cell measurement**
Source **TSG RAN WG1**
Agenda Item **7.7.3**

RAN1 Tdoc	Spec	CR	Rev	Rel	Cat	Current Version	Subject	Work item	Remarks
R1-050417	25.215	162	-	Rel-5	C	5.6.0	Feature Clean Up: Removal of observed time difference to GSM cell measurement	TEI5	
R1-050417	25.215	163	-	Rel-6	C	6.2.0	Feature Clean Up: Removal of observed time difference to GSM cell measurement	TEI6	

3GPP TSG-RAN1 Meeting #41
Athens, Greece, 9 – 13 May 2005

Tdoc ⌘R1-050417

CR-Form-v7.1

CHANGE REQUEST

⌘ **25.215** **CR** **162** ⌘ **rev** **-** ⌘ Current version: **5.6.0** ⌘

*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:	⌘	Feature Clean Up: Removal of observed time difference to GSM cell measurement
Source:	⌘	RAN WG1
Work item code:	⌘	TEI5
Date:	⌘	19/04/2005
Category:	⌘	**C**
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)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:
Ph2 (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)
Rel-7 (Release 7)

Reason for change:	⌘	In TSG RAN#27 it was agreed to remove this feature from Rel-5 onwards
Summary of change:	⌘	Observed time difference to GSM cell measurement is removed from the specification.
Consequences if not approved:	⌘	RAN#27 decision is not followed

Clauses affected:	⌘	5.1.11			
Other specs affected:	⌘	**Y** / **N**			
		X /	Other core specifications	⌘	25.133, 25.302, 25.331
		/ **X**	Test specifications		
		/ **X**	O&M Specifications		
Other comments:	⌘				

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.

5.1.10 UE Rx-Tx time difference

Definition	The difference in time between the UE uplink DPCCH/DPDCH frame transmission and the first detected path (in time), of the downlink DPCH frame from the measured radio link. Type 1 and Type 2 are defined. For Type 1, the reference Rx path shall be the first detected path (in time) amongst the paths (from the measured radio link) used in the demodulation process. For Type 2, the reference Rx path shall be the first detected path (in time) amongst all paths (from the measured radio link) detected by the UE. The reference path used for the measurement may therefore be different for Type 1 and Type 2. The reference point for the UE Rx-Tx time difference shall be the antenna connector of the UE. Measurement shall be made for each cell included in the active set.
Applicable for	CELL_DCH intra

5.1.11 VoidObserved time difference to GSM cell

Definition	The Observed time difference to GSM cell is defined as: $T_{RxGSMj} - T_{RxSFNi}$, where: T_{RxSFNi}: is the time at the beginning of the P-CCPCH frame with SFN=0 from cell i, Cell i is an intra-frequency cell. T_{RxGSMj}: is the time at the beginning of the GSM BCCH 51-multiframe from GSM frequency j received closest in time after the time T_{RxSFNi}. If the next GSM multiframe is received exactly at T_{RxSFNi} then $T_{RxGSMj} = T_{RxSFNi}$ (which leads to $T_{RxGSMj} - T_{RxSFNi} = 0$). The reference point for the Observed time difference to GSM cell shall be the antenna connector of the UE. 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. The reported time difference is calculated from the actual measurement in the UE. The actual measurement shall be based on: $T_{MeasGSM,j}$: The start of the first tail bit of the most recently received GSM SCH on frequency j $T_{MeasSFN,i}$: The start of the last P-CCPCH frame received from cell i before receiving the GSM SCH on frequency j For calculating the reported time difference, the frame lengths are always assumed to be 10 ms for UTRA and (60/13) ms for GSM.
Applicable for	Idle, URA_PCH inter-RAT, CELL_PCH inter-RAT, CELL_DCH inter-RAT

5.1.12 UE GPS Timing of Cell Frames for UE positioning

Definition	The timing between cell j and GPS Time Of Week. $T_{UE\text{-}GPSj}$ 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 detected path (in time) of the cell j CPICH, where cell j is a cell chosen by the UE. The reference point for $T_{UE\text{-}GPSj}$ shall be the antenna connector of the UE.
Applicable for	CELL_FACH intra, CELL_DCH intra

5.1.13 UE GPS code phase

Definition	The whole and fractional phase of the spreading code of the i^{th} GPS satellite signal. The reference point for the GPS code phase shall be the antenna connector of the UE.
Applicable for	Void (this measurement is not related to UTRAN/GSM signals; its applicability is therefore independent of the UE RRC state)

5.2 UTRAN measurement abilities

The structure of the table defining a UTRAN measurement quantity is shown below.

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Tdoc ⌘R1-050417

CR-Form-v7.1

CHANGE REQUEST

⌘ **25.215** **CR** **163** ⌘**rev** **-** ⌘ Current version: **6.2.0** ⌘

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Proposed change affects: UICC apps⌘ ☐ ME ☒ Radio Access Network ☒ Core Network ☐

Title:	⌘	Feature Clean Up: Removal of observed time difference to GSM cell measurement
Source:	⌘	RAN WG1
Work item code:	⌘	TEI6
Date:	⌘	19/04/2005
Category:	⌘	**C**
Release:	⌘	Rel-6

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Applicable for	CELL_DCH intra

5.1.11 Void~~Observed time difference to GSM cell~~

~~**Definition**~~	~~The Observed time difference to GSM cell is defined as: T_{RxGSMj} - T_{RxSFNi}, where:~~ ~~T_{RxSFNi} – is the time at the beginning of the P-CCPCH frame with SFN=0 from cell i. Cell i is an intra-frequency cell.~~ ~~T_{RxGSMj} – is the time at the beginning of the GSM BCCH 51-multiframe from GSM frequency j received closest in time after the time T_{RxSFNi}. If the next GSM multiframe is received exactly at T_{RxSFNi} then $T_{RxGSMj} = T_{RxSFNi}$ (which leads to T_{RxGSMj} - T_{RxSFNi} = 0). The reference point for the Observed time difference to GSM cell shall be the antenna connector of the UE.~~ ~~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.~~ ~~The reported time difference is calculated from the actual measurement in the UE. The actual measurement shall be based on:~~ ~~$T_{MeasGSM,j}$: The start of the first tail bit of the most recently received GSM SCH on frequency j~~ ~~$T_{MeasSFN,i}$: The start of the last P-CCPCH frame received from cell i before receiving the GSM SCH on frequency j~~ ~~For calculating the reported time difference, the frame lengths are always assumed to be 10 ms for UTRA and (60/13) ms for GSM.~~
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