TSG-RAN Meeting #13
Beijing, China, 18 - 21, September, 2001

TSGRP#13(01) 0592

Title: Agreed CRs to TS 25.402

Source: TSG-RAN WG3

Agenda item: 8.3.3/8.3.4/9.4.3

RP Tdoc	R3 Tdoc	Spec	CR_Num	Rev	Release	CR_Subject	Cat	Cur_Ver	New_Ver	Workitem
RP-010592	R3-012403	25.402	025		Rel-4	Correction of the Frequency Accuracy in the Frequency Acquisition Phase	F	4.1.0	4.2.0	RANimp-Nbsync

CR-Form-v3

CHANGE REQUEST

⌘ **25.402** CR **025** ⌘ rev **-** ⌘ Current version: **4.1.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: ⌘ (U)SIM ☐ ME/UE ☐ Radio Access Network **X** Core Network ☐

Title: ⌘	Correction of the Frequency Accuracy in the Frequency Acquisition Phase	
Source: ⌘	R-WG3	
Work item code: ⌘	RANimp-Nbsync	**Date:** ⌘ August 2001
Category: ⌘	**F**	**Release:** ⌘ REL-4

Use one of the following categories:
F (essential 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)

Reason for change: ⌘	The Frequency Accuracy of the Frquency Acquisition Phase is incorrert because the WG1 TR 25.836 says "When a cell has detected that it has locked its frequency to within 50 ppb of the received signal..." and TS 25.402 says "When a cell has detected that it has locked its frequency to within 50 ppm of the received signal..." therefore the discrepancy between these specs should be corrected.
Summary of change: ⌘	In step 3) the Frequency Accuracy of the Frquency Acquisition Phase "50 ppm" is changed to "50 ppb".
Consequences if not approved: ⌘	If this CR is not approved, inconsistency between WG1 and WG3 specs. Backward compatibility: This CR is backward compatible to the current R99 version. This CR has isolated impact to the current R99 version, because none of the R99 functions is effected.

Clauses affected: ⌘	6.1.2.2.1A
Other specs affected: ⌘	☐ Other core specifications ⌘ ☐ Test specifications ☐ 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/3G_Specs/CRs.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://www.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 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.

6.1.2.2.1A Frequency Acquisition Phase

The frequency acquisition phase is used to bring cells of an RNS area to within frequency limits prior to initial synchronisation. No traffic is supported during this phase.

1) The cell(s) identified as reference cell, i.e. external reference clock is connected to, shall transmit continuously cell sync bursts in every time slot where possible according to the information's given in the CELL SYNCHRONISATION INITIATION REQUEST message.

2) All other cells are considered as unlocked (i.e. not in frequency lock) shall listen for transmission from other cells and perform frequency locking to any transmission received. For setting the parameters within the Node B to listen for transmission from other cells, the CELL SYNCHRONISATION INITIATION REQUEST message is used.

3) When a cell has detected that it has locked its frequency to within 50 ppb of the received signal, it shall signal completion of frequency acquisition to the RNC.

4) If the cell(s) have received transmission request on instructing the frequency acquisition and the cell(s) have performed frequency locking, the cell(s) shall begin transmitting the specified code for frequency locking of other cells.

5) When the RNC has received completion of frequency acquisition signals from all cells the frequency acquisition phase is completed.