TSG-RAN Meeting #6
Nice, France, 13 – 15 December 1999

TSGRP#6(99)766

Title: **Agreed CRs of category "C" (Modification) and "F" (Correction) to TS 25.435**

Source: **TSG-RAN WG3**

Agenda item: **5.4.3**

Doc #	Status-	Spec	CR	Rev	Subject	Cat	Versio	Versio
R3-99j45	agreed	25.435	005	1	Alignment of the FDD and TDD	F	3.0.0	3.1.0

3GPP TSG-RAN Meeting #6 **Document** ***R3-99j45***

Nice, France, 13-15 December 1999

3G CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

25.435 **CR** **005r1** Current Version: 3.0.0

3G specification number ↑ *↑ CR number as allocated by 3G support team*

For submision to TSG-RAN#6 for approval [X] *(only one box should be marked with an X)*
list TSG meeting no. here ↑ for information [ ]

Form: 3G CR cover sheet, version 1.0 *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/3GCRF-xx.rtf*

Proposed change affects: USIM [ ] ME [ ] UTRAN [X] Core Network [ ]
(at least one should be marked with an X)

Source: TSG-RAN WG3 **Date:** Dec.6, 1999

Subject: Alignment of the FDD and TDD operations

3G Work item:

Category: *(only one category shall be marked with an X)*

F	Correction	X
A	Corresponds to a correction in a 2G specification	
B	Addition of feature	
C	Functional modification of feature	
D	Editorial modification	

Reason for change: Not having separated frame structures between FDD and TDD modes
Corrections to Timing Deviation definitions and to references.

Clauses affected: 2, 6.2.1, 6.2.4, 6.2.6, 6.2.6.10

Other specs affected:

Other 3G core specifications	[ ]	→ List of CRs:
Other 2G core specifications	[ ]	→ List of CRs:
MS test specifications	[ ]	→ List of CRs:
BSS test specifications	[ ]	→ List of CRs:
O&M specifications	[ ]	→ List of CRs:

Other comments: New sub-chapter in 6.2.6: [TDD — Rx Timing Deviation on RACH]

2 References

References may be made to:

a) specific versions of publications (identified by date of publication, edition number, version number, etc.), in which case, subsequent revisions to the referenced document do not apply;

b) all versions up to and including the identified version (identified by "up to and including" before the version identity);

c) all versions subsequent to and including the identified version (identified by "onwards" following the version identity); or

d) publications without mention of a specific version, in which case the latest version applies.

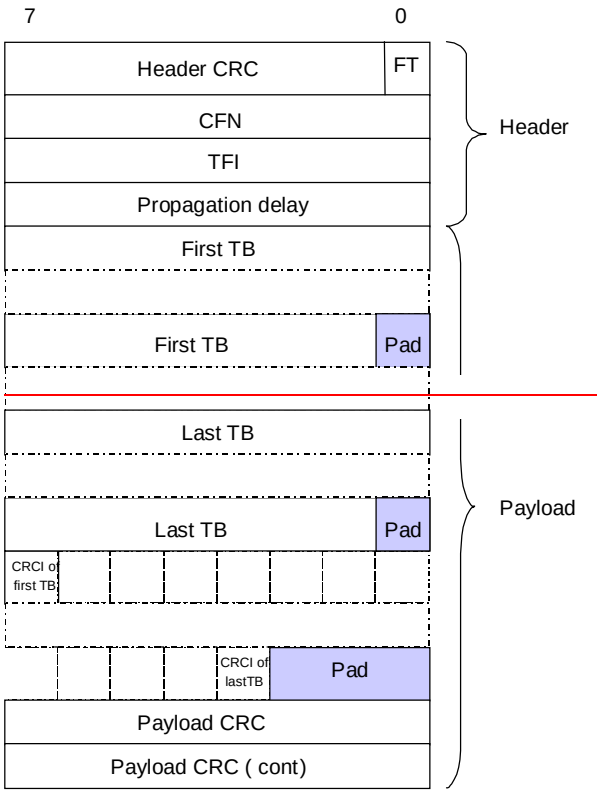
A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

[1] TS UMTS 25.301, Radio Interface Protocol Architecture
[2] TS 25.402 Synchronisation in UTRAN, Stage 2.
~~[2]TS 25.401 UTRAN architecture description~~
[3] TS 25.302 Services provided by the Physical Layer, Source WG2

6.2.1 RACH Channels

The RACH Data Frame includes the CFN corresponding to the SFN of the frame in which the payload was received. If the payload was received in several frames, the CFN corresponding to the first Uu frame in which the information was received shall be indicated.

~~The RACH Data frame structure is different for FDD and TDD.~~



~~Figure 11. FDD RACH Data Frame structure~~

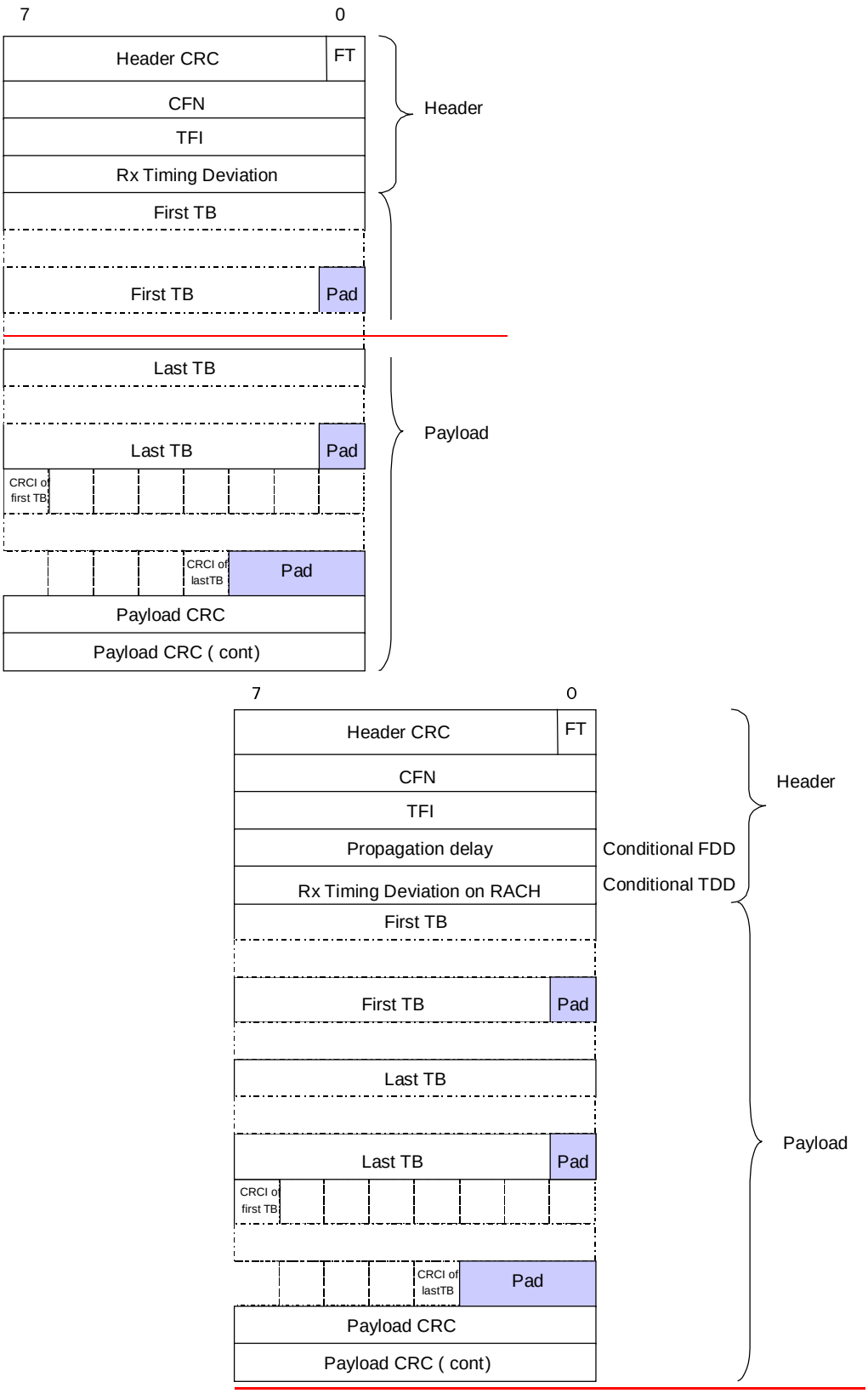


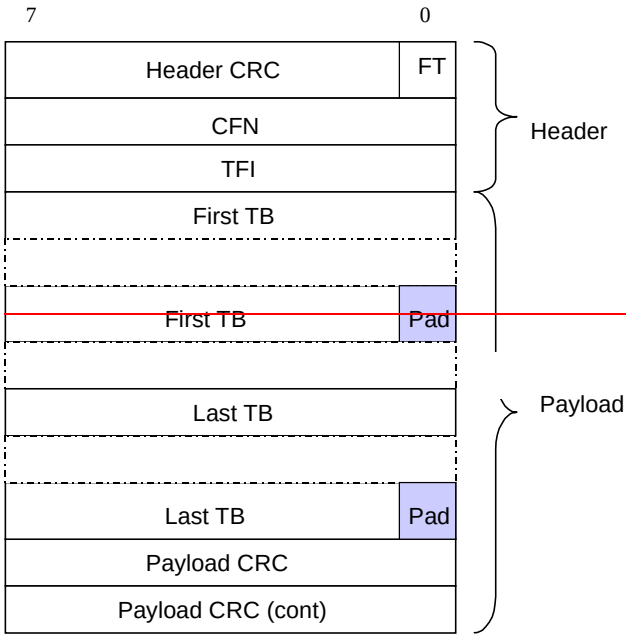
Figure 2.~~TDD~~ RACH Data Frame structure

Propagation delay is a conditional Information Element which is only present when the Cell supporting the RACH Transport Channel is a FDD Cell.
Rx Timing Deviation is a conditional Information Element which is only present when the Cell supporting the RACH Transport Channel is a TDD Cell.

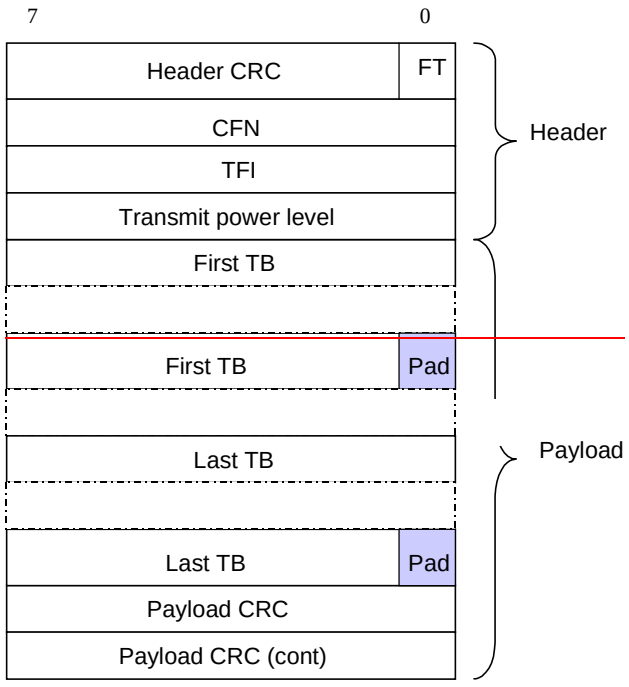
6.2.4 Downlink Shared Channels

DSCH Data Frame includes a CFN indicating the frame in which the payload shall be sent. If the payload is to be sent over several frames, the CFN corresponding to the first frame shall be indicated.

~~The DSCH Data frame structure is different for FDD and TDD.~~



~~Figure 15.FDD DSCH Data Frame structure~~



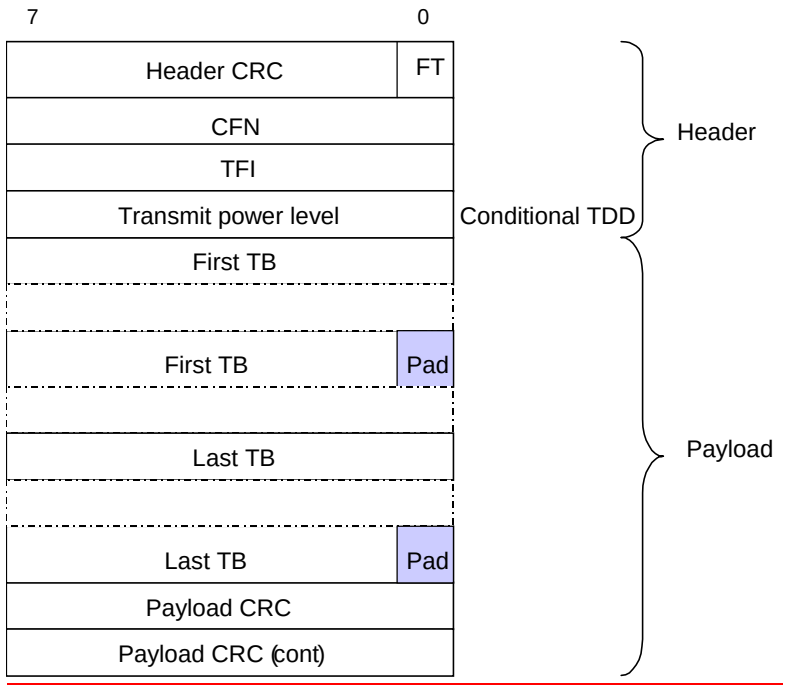


Figure 4.~~TDD~~ DSCH Data Frame structure

Transmit power level is a conditional Information Element which is only present when the Cell supporting the DSCH Transport Channel is a TDD Cell.

6.2.6.6 [TDD — Rx Timing Deviation]

Description: Measured Rx Timing Deviation as a basis for timing advance
Value range: {~~0 1020~~ -512 ... 508 chips}
Granularity: 4 chips
Field length: 8 bits

6.2.6.X [TDD — Rx Timing Deviation on RACH]

Description: Measured Rx Timing Deviation as a basis for timing advance
Value range: {0-1020 chips}
Granularity: 4 chips
Field length: 8 bits

6.2.6.10 Transmit power level

Description: Preferred transmission power level during this TTI for the corresponding transport channel. The indicated value is the offset relative to the maximum power configured for the ~~[FDD – secondary CCPCH]/[TDD – CCPCH]~~ physical channel(s) used for the respective transport channel.
Value range: {0 - 25.4 dB}
Granularity: 0.1 dB
Field length: 8 bits