TSG-RAN Meeting #10
Bangkok, Thailand, 6 - 8 December 2000

TSGRP#10(00)0632

Title: **Agreed CRs to TS 25.435**

Source: **TSG-RAN WG3**

Agenda item: **5.3.3**

Tdoc_Num	Specification	CR_Num	Revision_Nu	CR_Subject	CR_Categor	WG_Status	Cur_Ver_Nu	New_Ver_Nu
R3-002521	25.435	032		CFN on DSCH	F	agreed	3.4.0	3.5.0
R3-002629	25.435	033		Behaviour due to Timing Advance adjustment	F	agreed	3.4.0	3.5.0
R3-002822	25.435	035		FP structure redefinintion	F	agreed	3.4.0	3.5.0
R3-003262	25.435	036	2	Paging Message over Multiple Radio Frames	F	agreed	3.4.0	3.5.0

TSG-RAN Working Group 3 Meeting #16
Windsor, UK, 16th – 20th August 2000

Document **R3-002521**
e.g. for 3GPP use the format TP-99xxx
or for SMG, use the format P-99-xxx

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25.435	CR	32	Current Version:	3.4.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to:	TSG RAN #10	for approval	X	strategic		(for SMG use only)
list expected approval meeting # here ↑		for information		non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)*	(U)SIM		ME		UTRAN / Radio	X	Core Network	

Source: R-WG3 **Date:** October 2000

Subject: CFN of DSCH

Work item:

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

F	Correction	X	**Release:**	Phase 2	
A	Corresponds to a correction in an earlier release			Release 96	
B	Addition of feature			Release 97	
C	Functional modification of feature			Release 98	
D	Editorial modification			Release 99	X
				Release 00	

Reason for change:

The current specification defines that the CFN of the DSCH frame indicates the frame in which the payload shall be sent.

This CR clarifies that the payload CFN means the SFN of the PDSCH, and not the CFN of the associated DPCHs.

Consequences if not approved:
The current specification may lead to misinterpretation and therefore to interoperability problems between RNC and Node B .

Clauses affected: 6.2.5

Other specs affected:

Other 3G core specifications		→ List of CRs:	
Other GSM 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:


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6.2.5 Downlink Shared Channels

DSCH Data Frame includes a CFN indicating the ~~frame~~ SFN of the PDSCH 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.

3GPP TSG-RAN Working Group 3 Meeting #16
Windsor, UK, 16 – 20 October 2000

***Document* R3-002629**
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25.435	CR	033	Current Version:	3.4.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to:	TSG RAN #10	For approval	X	strategic		(for SMG use only)
list expected approval meeting # here ↑		For information		non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)* (U)SIM [ ] ME [ ] UTRAN / Radio [X] Core Network [ ]

Source: R-WG3 **Date:** October 2000

Subject: Behaviour due to Timing Advance adjustment

Work item:

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

F	Correction	X	**Release:**	Phase 2	
A	Corresponds to a correction in an earlier release			Release 96	
B	Addition of feature			Release 97	
C	Functional modification of feature			Release 98	
D	Editorial modification			Release 99	X
				Release 00	

Reason for change: Depending the Timing Advance Applied configuration which depends on the size of TDD cells, this CR describes the behaviour of the Node B for RACH and USCH data frames. This CR is necessary for consistent support of the Timing Advance adjustment in Node B.

Consequences if this CR is not accepted:
Node B behaviour not defined in case Timing Advance shall not be applied

Clauses affected:

Other specs affected:	Other 3G core specifications	X	→ List of CRs:	25.433: CR278 25.427: CR038
	Other GSM 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:

6.2.7.6 [TDD — Rx Timing Deviation]

Description: Measured Rx Timing Deviation as a basis for timing advance. In case the *Timing Advance Applied* IE indicates "No" (see Ref. [6]) in a cell, the Rx Timing Deviation field shall be set to N = 0.

Value range: { -256 ... +256} chips.

{N*4 –256} chips ≤ RxTiming Deviation < {(N+1)*4 – 256} chips.

With N = 0, 1, .. ,127.

Granularity: 4 chips.

Field length: 7 bits.

3GPP TSG-RAN Working Group 3 Meeting #16
Windsor, UK, 16 – 20 October 2000

***Document* R3-002822**
e.g. for 3GPP use the format TP-99xxx
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CHANGE REQUEST

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25.435	CR	035	Current Version:	3.4.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to:	TSG RAN #10	For approval	X	strategic		(for SMG use only)
list expected approval meeting # here ↑		For information		non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)* (U)SIM [ ] ME [ ] UTRAN / Radio [X] Core Network [ ]

Source: R-WG3 **Date:** October 2000

Subject: FP structure redefinition

Work item:

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

F	Correction	X	**Release:**	Phase 2	
A	Corresponds to a correction in an earlier release			Release 96	
B	Addition of feature			Release 97	
C	Functional modification of feature			Release 98	
D	Editorial modification			Release 99	X
				Release 00	

Reason for change:
This CR corrects the position of the spare bit(s) of the values related to the Timing Advance function within the Frame structure.

Consequences if this CR is not accepted:
Inconsistent position for same value in different frame structures

Clauses affected: 6.2.1, 6.2.6, 6.3.3.8.1

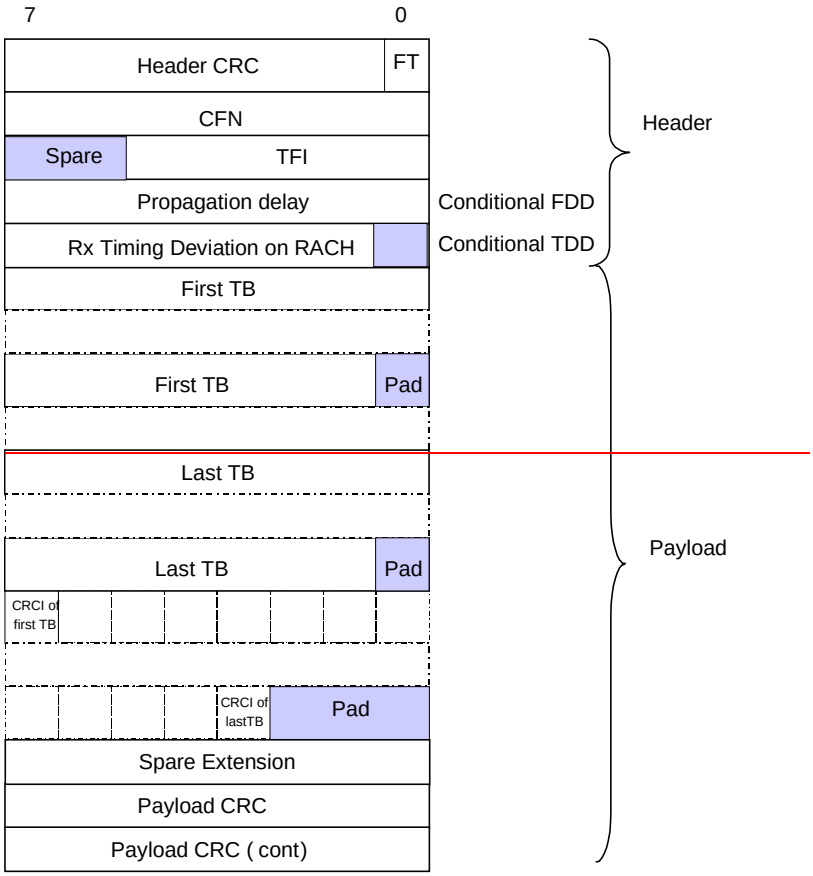
Other specs affected:

Other 3G core specifications	X	→ List of CRs:	25.427: CR037r1
Other GSM 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:

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.



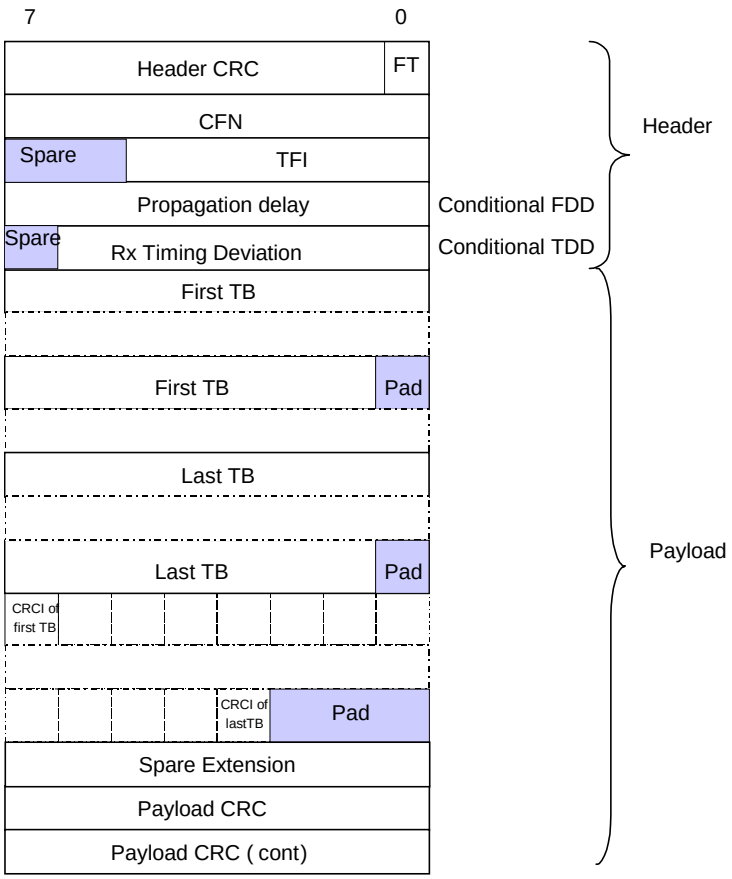


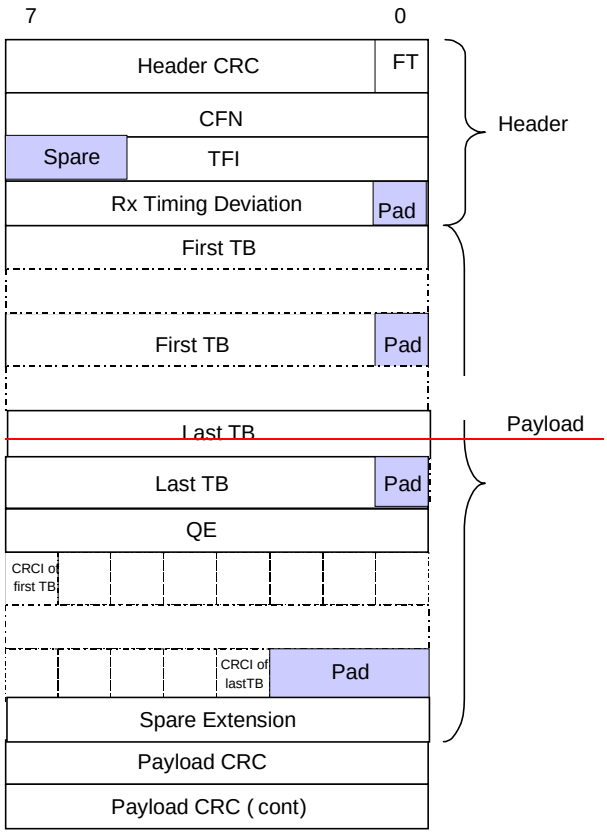
Figure 15: RACH Data Frame structure

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.

6.2.6 Uplink Shared Channels [TDD]

USCH Data Frame includes the CFN in which the payload was received. If the payload was received in several frames, the CFN corresponding to the first frame will be indicated.



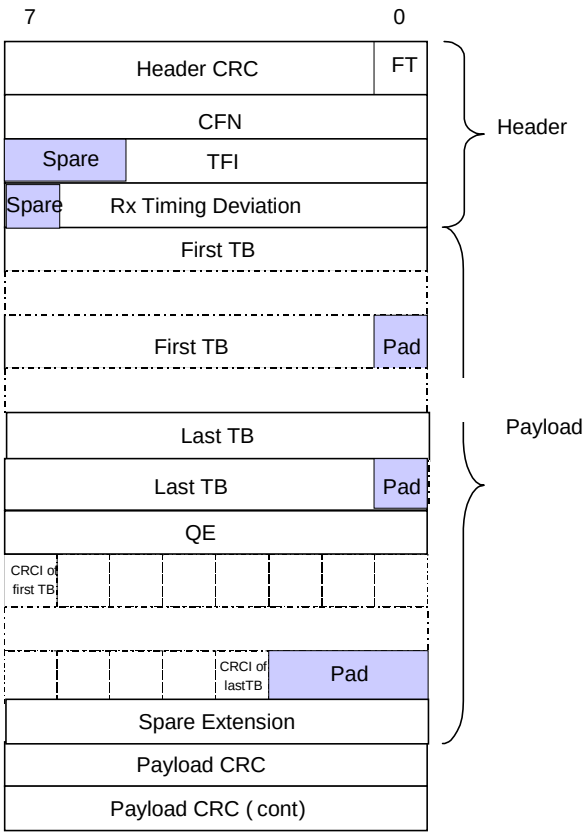


Figure 21: USCH Data Frame structure

6.3.3.8 [TDD - Timing Advance]

6.3.3.8.1 Payload structure

Figure below shows the structure of the payload when the control frame is used for timing advance.

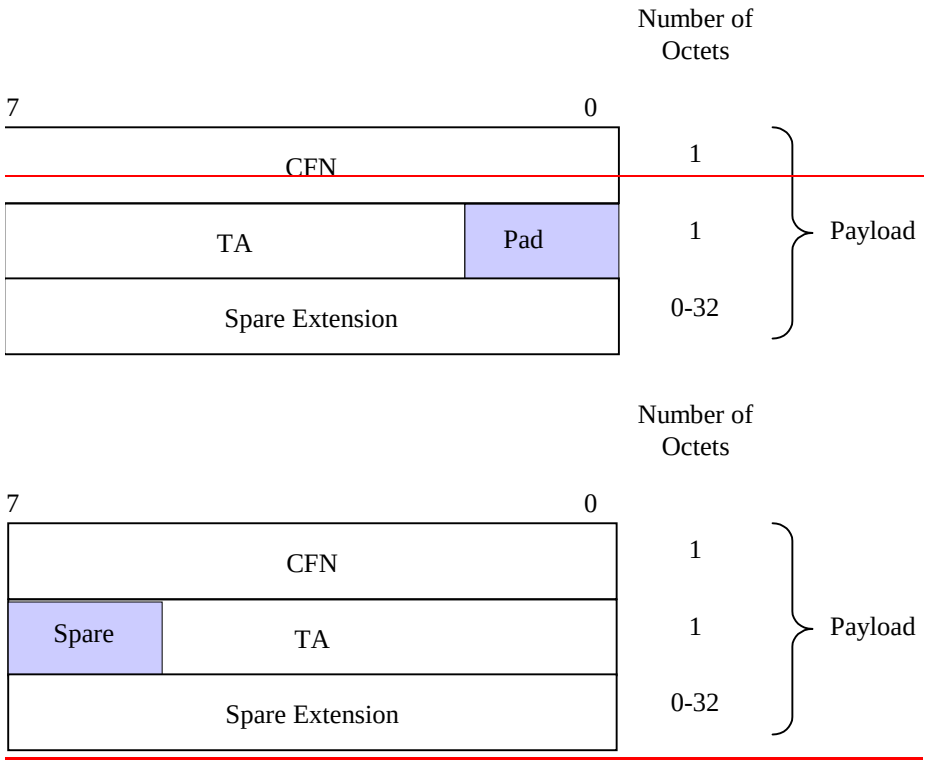


Figure 30: Structure of the Timing Advance control frame

3GPP- RAN-WG3 Meeting #17
Chicago, USA, 20th – 25th November 2000

Document R3-003262
e.g. for 3GPP use the format TP-99xxx
or for SMG, use the format P-99-xxx

CHANGE REQUEST

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25.435	CR	036r2	Current Version:	3.4.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ | *↑ CR number as allocated by MCC support team*

For submission to:	TSG-RAN#10	for approval	X	Strategic		(for SMG
list expected approval meeting # here ↑		for information		non-strategic		use only)

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)* (U)SIM [ ] ME [ ] UTRAN / Radio [X] Core Network [ ]

Source: R-WG3 **Date:** November 2000

Subject: Paging message over multiple radio frames

Work item:

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

F	Correction	X
A	Corresponds to a correction in an earlier release	
B	Addition of feature	
C	Functional modification of feature	
D	Editorial modification	

Release:

Phase 2	
Release 96	
Release 97	
Release 98	
Release 99	X
Release 00	

Reason for change:

In 25.435, sub-section 6.2.4, paragraph 3, last sentence, it is stated that "If the paging messages are to be sent in several frames, the CFN corresponding to the first frame shall be indicated". This, however, is only applicable for the TDD and texts are added to clarify this as such.

Clauses affected: 6.2.4

Other specs affected:

Other 3G core specifications	[ ]	→ List of CRs:
Other GSM 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: Consequence of this CR not being accepted is inconsistency and ambiguity in the specification in question.


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

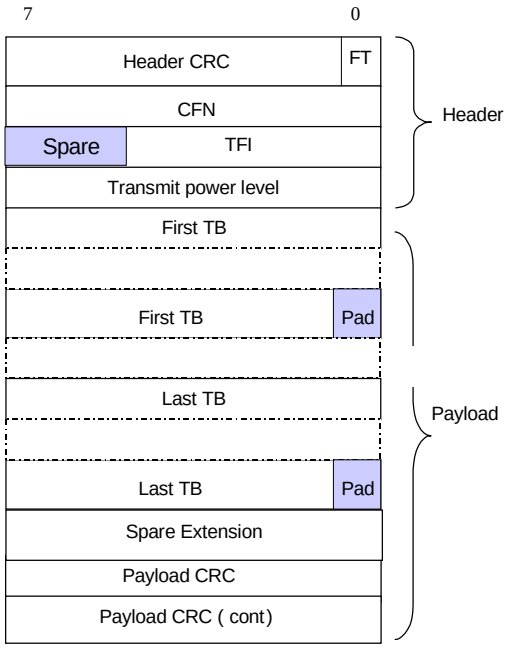

Figure 17: FACH Data Frame structure

6.2.4 PCH Channels

The PCH Data Frame includes the paging indication information and paging messages. To page one User Equipment, two consecutive PCH Data Frames with consecutive CFN numbers are transmitted, the first frame contains the Paging Indication Information and the second contains the Paging Message.

[TDD- If PI-bitmap and PCH TBS are transmitted within the PCH data frame, the CFN is related to the PCH TBS only. The PI bitmap is mapped to the PICH frames, transmitted at the beginning of the paging block.]

The paging messages are transmitted in S-CCPCH frames. The CFN in the PCH Data Frame header corresponds to the Cell SFN of the frame in which the start of the S-CCPCH frame is located. [TDD - If the paging messages are to be sent in several frames, the CFN corresponding to the first frame shall be indicated.]

[FDD - The timing of the PICH frame (containing the paging indication information) is τ_{PICH} prior to the S-CCPCH frame timing [5]].

In contrast to all other Common Transport Channel data frames, which use a CFN of length 8, the PCH Data Frame includes a CFN of length 12.

The node-B has no responsibility to ensure the consistency between the paging indication information and the corresponding paging messages. E.g. if the paging indication information is lost over the Iub, the paging messages might be sent over the Uu while no UE is actually listening.