TSG RAN Meeting #20 **RP-030331**
Hämeenlinna, Finland, 3 - 6 June, 2003

Title **CR (Rel-5 only) to TS 25.425 and 25.435 on Correction for the HS-DSCH frame structure**
Source **TSG RAN WG3**
Agenda Item **7.3.6**

RAN3 Tdoc	Spec	curr. Vers.	new Vers.	REL	CR	Rev	Cat	Title	Work item
R3-030907	25.425	5.4.0	5.5.0	REL-5	061	2	F	Correction for the HS-DSCH frame structure	HSDPA-Iublur
R3-030908	25.435	5.4.0	5.5.0	REL-5	099	2	F	Correction for the HS-DSCH frame structure	HSDPA-Iublur

3GPP TSG-RAN3 Meeting #36 ***R3-030907***
Paris, France, 19th – 23rd May, 2003

CR-Form-v7

CHANGE REQUEST

⌘ **25.425** **CR** **061** ⌘ **rev** **2** ⌘ Current version: **5.4.0** ⌘

*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 ☐ Radio Access Network ☒ Core Network ☐

Title:	⌘	Correction for the HS-DSCH frame structure
Source:	⌘	RAN WG3
Work item code:	⌘	HSDPA-IuBIur
Date:	⌘	19/05/2003
Category:	⌘	**F**
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:
2 *(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)*

Reason for change: ⌘
1. There is an inconsistency about inclusion of the C/T field between TS25.425 and TS25.321.
2. The current HS-DSCH frame structure only support the MAC-d PDU which inclues the C/T field.

Please see R3-030729.

Summary of change: ⌘

Rev2
1. The definition of MAC-d PDU is rephrased.

Rev1
1. New reference to 25.321 is added.
2. The definition of MAC-d PDU is rephrased.
3. Padding bits are added in HS-DSCH DATA FRAME structure.

Rev0
1. It is clarified that the MAC-d PDU does not always include the C/T field.
2. Spare bits are removed from the HS-DSCH frame and padding bits are added in the HS-DSCH frame.

Impact Analysis:

Impact assessment towards the previous version of the specification (same release):

This CR has [isolated impact] with the previous version of the specification (same release) because it might affect implementations supporting HSDPA.

This CR has an impact under [function] point of view.
The impact [can] be considered isolated because the change affects [one] [system function] namely HSDPA.

Consequences if not approved:	⌘	If this CR is not approved, the inconsistency between TS25.425 and TS25.321 will still remain.

Clauses affected:	⌘	2, 6.2.4A and 6.2.5.18			
Other specs affected:	⌘	**Y** / **N** **X** /	Other core specifications	⌘	CR099r2 on TS25.435v5.4.0
		/ **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.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document.*

[1] ITU-T Recommendation I.361 (11/95): "B-ISDN ATM Layer Specification".

[2] ITU-T Recommendation I.363.2 (11/2000): "B-ISDN ATM Adaptation Layer specification: Type 2 AAL".

[3] ITU-T Recommendation I.366.1 (06/98): "Segmentation and Reassembly Service Specific Convergence Sublayer for the AAL type 2".

[4] 3GPP TS 25.427: "UTRAN Iub/Iur Interface User Plane Protocols for DCH Data Streams".

[5] 3GPP TS 25.401: "UTRAN overall description".

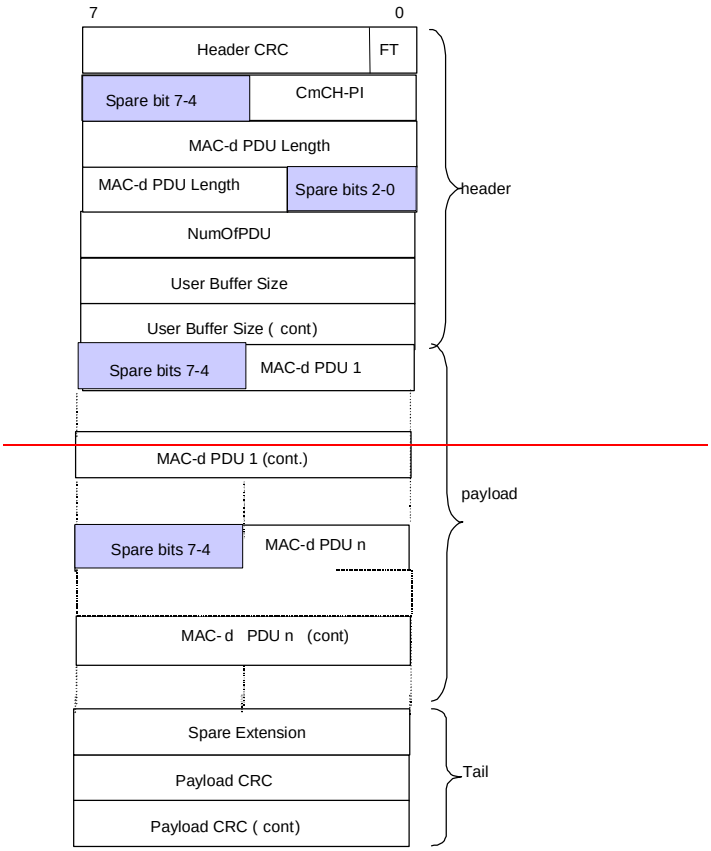
[6] 3GPP TR 25.990: "Vocabulary".

[7] 3GPP TS 25.321: "Medium Access Control (MAC) protocol specification".

[8] 3GPP TS 25.423: "UTRAN Iur Interface RNSAP Signalling".

[x] 3GPP TS 25.321: "Medium Access Control (MAC) protocol specification".

6.2.4A HS-DSCH Channels



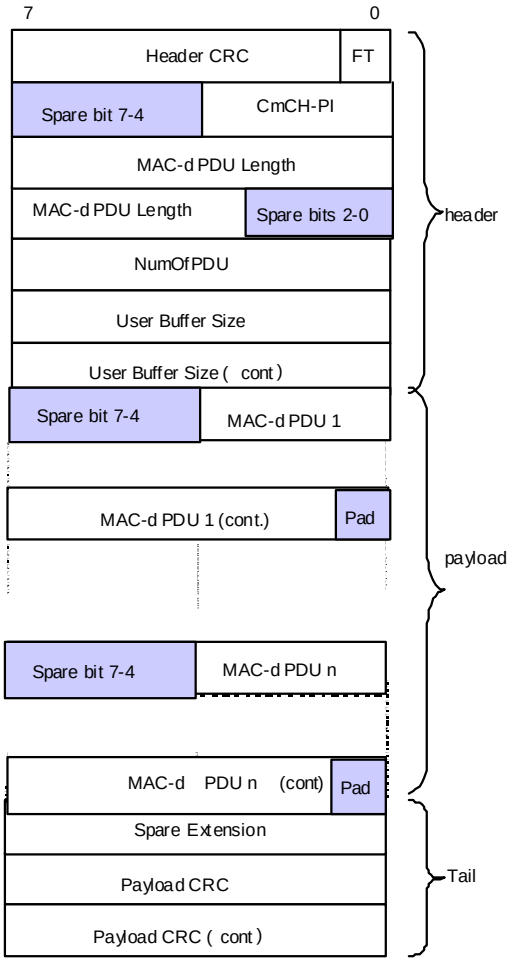


Figure 12A: HS-DSCH DATA FRAME structure

<Not affected part is omitted>

6.2.5.18 MAC-d PDU

Description: A MAC-d PDU contains the MAC-d PDU as defined in [x].~~the *C/T* IE field [7] of the MAC header followed by one RLC PDU.~~

~~Field length:~~**Field Length:** See the value of the *MAC-d PDU Length* IE.

3GPP TSG-RAN3 Meeting #36 ***R3-030908***
Paris, France, 19th – 23rd May, 2003

CR-Form-v7

CHANGE REQUEST

⌘ **25.435** **CR** **099** ⌘ **rev** **2** ⌘ Current version: **5.4.0** ⌘

*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 ☐ Radio Access Network ☒ Core Network ☐

Title:	⌘	Correction for the HS-DSCH frame structure
Source:	⌘	RAN WG3
Work item code:	⌘	HSDPA-IuBIur
Date:	⌘	19/05/2003
Category:	⌘	**F**
Release:	⌘	Rel-5

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Reason for change: ⌘
1. There is an inconsistency about inclusion of the C/T field between TS25.435 and TS25.321.
2. The current HS-DSCH frame structure only support the MAC-d PDU which inclues the C/T field.

Please see R3-030729.

Summary of change: ⌘

Rev2
1. The definition of MAC-d PDU is rephrased.

Rev1
1. New reference to 25.321 is added.
2. The definition of MAC-d PDU is rephrased.
3. Padding bits are added in HS-DSCH DATA FRAME structure.

Rev0
1. It is clarified that the MAC-d PDU does not always include the C/T field.
2. Spare bits are removed from the HS-DSCH frame and padding bits are added in the HS-DSCH frame.

Impact Analysis:

Impact assessment towards the previous version of the specification (same release):

This CR has [isolated impact] with the previous version of the specification (same release) because it might affect implementations supporting HSDPA.

This CR has an impact under [function] point of view.
The impact [can] be considered isolated because the change affects [one]

		[system function] namely HSDPA.
Consequences if not approved:	⌘	If this CR is not approved, the inconsistency between TS25.435 and TS25.321 will still remain.

Clauses affected:	⌘	2, 6.2.6A and 6.2.7.25			
Other specs affected:	⌘	**Y** / **N**	Other core specifications	⌘	CR061r2 on TS25.425v5.4.0
			Test specifications		
			O&M Specifications		
Other comments:	⌘				

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[1] 3GPP TS 25.301: "Radio Interface Protocol Architecture".

[2] 3GPP TS 25.402: "Synchronisation in UTRAN, Stage 2".

[3] 3GPP TS 25.302: "Services provided by the Physical Layer".

[4] 3GPP TS 25.221: "Physical channels and mapping of transport channels to physical channels (TDD)".

[5] 3GPP TS 25.211: "Physical channels and mapping of transport channels onto physical channels (FDD)".

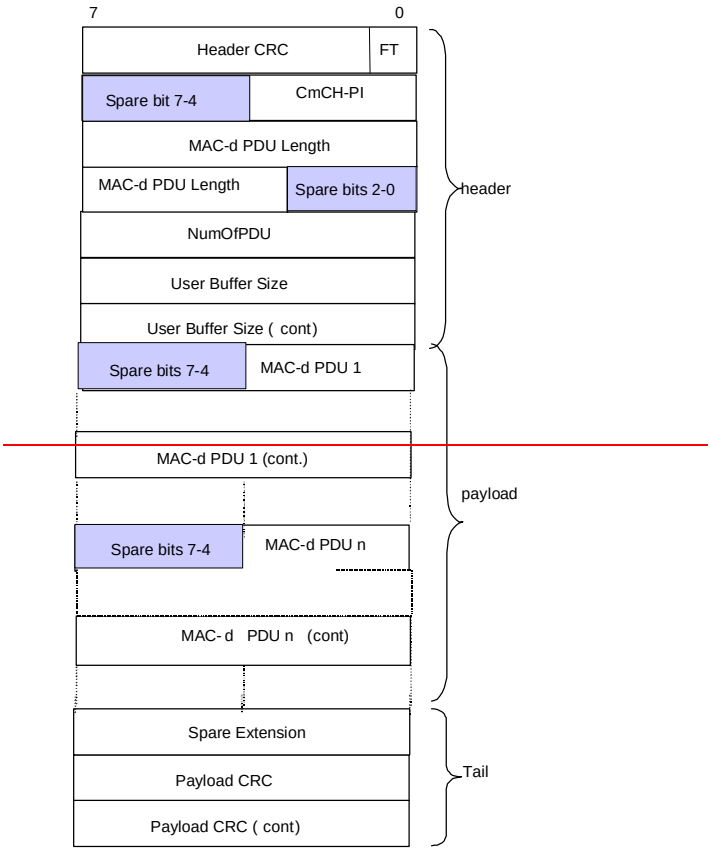
[6] 3GPP TS 25.433: "UTRAN Iub interface NBAP signalling".

[7] 3GPP TS 25.225: "Physical layer – Measurements (TDD)".

[8] 3GPP TS 25.331: "Radio Ressource Control (RRC) protocol specification".

[x] 3GPP TS 25.321: "Medium Access Control (MAC) protocol specification".

6.2.6A HS-DSCH Channels



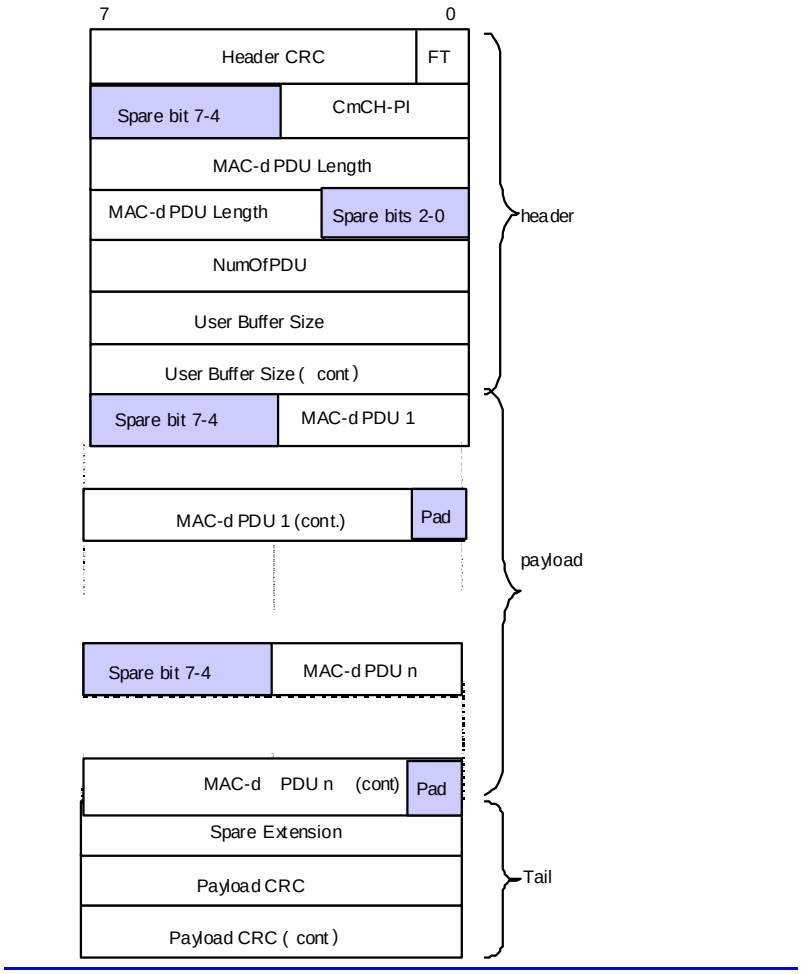


Figure 21A: HS-DSCH DATA FRAME structure

<Not affected part is omitted>

6.2.7.25 MAC-d PDU

Description: A MAC-d PDU contains the MAC-d PDU as defined in [x]. ~~the *C/T* IE field [7] of the MAC header followed by one RLC PDU.~~

~~Field length:~~**Field Length:** See the value of the *MAC-d PDU Length* IE.