TSGRP#10(00)0623

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

Title: Agreed CRs to TS 25.425

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
R3-002803	25.425	018	1	Correction of Iur FACH data frame header	F	agreed	3.2.0	3.3.0
R3-002806	25.425	019	1	FACH Capacity Request control frame	F	agreed	3.4.0	3.3.0
R3-003141	25.425	021	1	Removal of the S-CCPCH Indicator (S-CI)	F	agreed	3.3.0	3.4.0

TSG-RAN Working Group 3 Meeting #16 Windsor, UK, $16^{th} - 20^{th}$ October 2000

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R3-002803 e.g. for 3GPP use the format TP-99xxx or for SMG, use the format P-99-xxx

comments:



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6.2.2 FACH Channels





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Figure 10: FACH Data Frame structure

Spare bits shall be set to 0 and ignored by the receiver.

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R3-002806 e.g. for 3GPP use the format TP-99xxx or for SMG, use the format P-99-xxx



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

5.2 Flow Control

5.2.1 FACH Flow Control

The FACH flow control frame is used by the DRNC to control the user data flow. It may be generated in response to a <u>FACH Capacity Request or at any other time</u>. The *Credits* IE indicates the number of MAC-c/sh SDUs the SRNC is allowed to transmit for the UE identified by the *SRNTI* IE and the associated priority class indicated by the *Common Transport Channel Priority Indicator* IE.

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The Credits IE indicates the total amount of credits granted. Any credits previously granted are withdrawn.

If *Credits* IE = 0 (e.g. due to congestion in the DRNC), the SRNC shall immediately stop transmission of MAC-c/sh SDUs.

Credits IE = 'unlimited' indicates that the SRNC may transmit an unlimited number of MAC-c/sh SDUs.

5.2.x FACH Capacity Request



The FACH Capacity Request provides the means for the SRNC to notify the DRNC about the user buffer size for a given priority class. It may be sent if no FACH Flow Control frame has been received within an appropriate time threshold, or to signal an event such as data arrival or user buffer discard.

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6.3.2.3 Control Frame Type

Description: Indicates the type of the control information (information elements and length) contained in the payload (=type of control frame).

Value: values of the *Control Frame Type* IE parameter are defined in the following table 1:

Table 1: Control Frame Type

Type of control frame	Value
FACH Flow Control	0000 0010
FACH Capacity Request	<u>0000 0011</u>
DSCH Capacity Request	0000 0100
DSCH Capacity Allocation	0000 0101

6.3.3 Payload structure and information elements

6.3.3.x FACH Capacity Request

Figure 17 shows the payload structure when the control frame is used for the above mentioned purpose. This control information is sent in the DL only.



6.3.3.x.4 Spare extension

Refer to subclause 6.3.3.14.

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Other comments:	ж	The base used for this CR is the WG3# 16 approved CR18, which has not yet been approved by TSG-RAN. The implementation order: CR18 shall be
		implmented first, then this CR.

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: <u>http://www.3gpp.org/3G_Specs/CRs.htm</u>. 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 <u>ftp://www.3gpp.org/specs/</u> 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.

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.

- [1] ITU-T Recommendation I.361 (11/95): "B-ISDN ATM Layer Specification".
- [2] ITU-T Recommendation I.363.2 (9/97): "B-ISDN ATM Adaptation Layer type 2".
- [3] ITU-T Recommendation I.366.1 (6/98): "Segmentation and Reassembly Service Specific Convergence Sublayer for the AAL type 2".
- [4] 3G TS 25.427: "Iub/Iur User Plane Protocols for DCH Data Streams".
- [5] 3G TS 25.401: "UTRAN overall description".
- [6] 3G TS 25.990: "UTRAN vocabulary".
- [7] 3G TS 25.331: "RRC Protocol Specification".

5.1.2 FACH data transfer



Figure 2: FACH data transfer

Data to be transmitted on the FACH transport channel is transmitted from the SRNC to the DRNC using FACH data frames. Multiple MAC-c/sh SDUs of same length and same priority (CmCH-PI) may be transmitted in the same FACH data frame. Within one priority and size the SDUs shall be transmitted by the DRNS on the Uu interface in the same order as they were received from the SRNC.

The UE-ID Type Indicator IE indicates which UE-ID type MAC-c/sh shall include in the MAC header.

The *S CCPCH Indicator* IE indicates if the data in the payload shall be sent on either the S CCPCH selected by the UE based on U RNTI as defined in ref. [7] subclause 8.5.7.6.3, or the S CCPCH selected by the DRNC for subsequent user data. The S-CCPCH selected for subsequent user data may be the S-CCPCH selected by the UE or the S-CCPCH selected by the DRNC.

6.2.2 FACH Channels



Figure 10: FACH Data Frame structure

Spare bits shall be set to 0 and ignored by the receiver.

6.2.5.6 S-CCPCH Indicator (S-CI)

Void.

Description: Indicates the S-CCPCH to be used for transmission of the user data.

Value range: {0=S CCPCH selected by the UE based on U RNTI as defined in ref. [7] subclause 8.5.7.6.3, 1=S-CCPCH selected by the DRNC}.

Field Length: 1 bit.