TSG-RAN Working Group 2 (Radio layer 2 and Radio layer 3) *TSGR2#6(99)870*
Sophia Antipolis, August 16th to 20th 1999

Agenda Item: 4.3

Source: Nokia

Title: **CR to 25.303 on incorporation of DSCH transmission with one TFCI**

Document for: Approval

Proposal to incorporate DSCH transmission with one TFCI-word on the physical layer. Liaisoned to RAN WG3 from previous meeting as Tdoc 703.

3GPP TSG-RAN meeting #5 *Document* ***RP 99???***

Korea, 6-8 October 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.

25.303 **CR** **00?** Current Version: 3.0.0

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

For submision to TSG RAN#5 *list TSG meeting no. here ↑*

for approval [X] for information [ ] *(only one box should be marked with an X)*

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

Source: TSG-RAN WG2 **Date:** 16/08/99

Subject: Incorporation of DSCH transmission with one TFCI

3G Work item:

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

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

Reason for change: Addition of a way to use DSCH after receiving confirmation from RAN WG3 that this method will be possible.

Clauses affected: Added as new 7.3.2, previous 7.3.2 will shift to 7.3.3

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:

help.doc

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

7.3.2 Acknowledged-mode data transmission in DCH / DCH + DSCH with one TFCI

[Note: For release-99 this example is only valid in the case where SRNC = CRNC.]

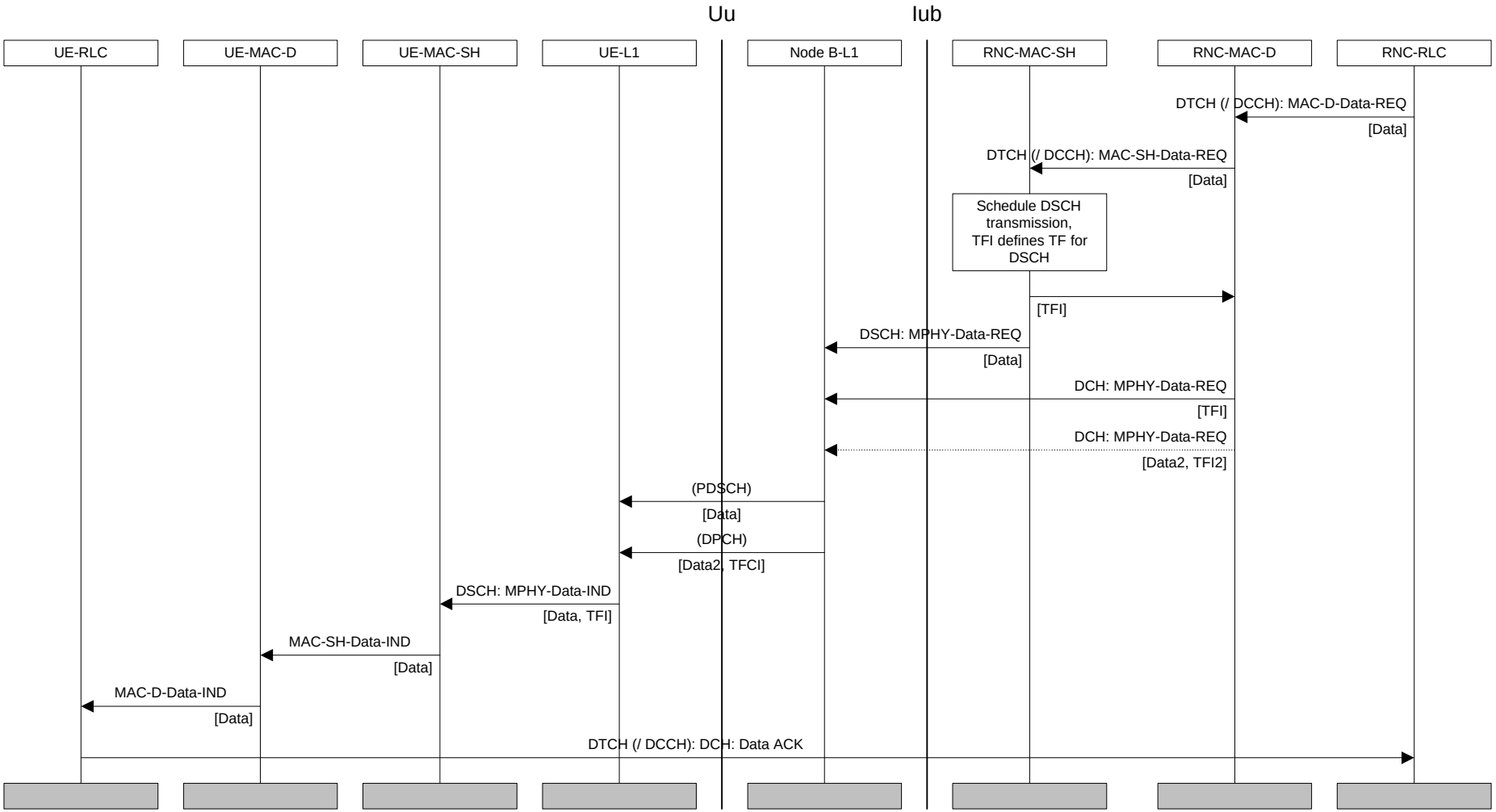

Figure 1: Example of acknowledged-mode data transmission on DSCH

Figure 1 shows an example of acknowledged-mode data transmission on DSCH in the DCH / DCH + DSCH substate. First RLC in SRNC requests data transmission from MAC-d. MAC-d passes the data on to MAC-sh, which schedules the DSCH transmission and determines the TFI for the data. The TFI and CFN (connection frame number) for transmission are given back to MAC-d.

MAC-sh selects the TFI and transmits the data for DSCH while MAC-d transmits the TFI synchronised with the transmission of any DCH data and TFI:s intended for transmission in the same frame. TFI for the DSCH and TFI2 for the DCH are combined into the same TFCI on the physical layer and transmitted on the DPCCH (dedicated physical control channel) of the associated DPCH (dedicated physical channel). The DSCH data is transmitted separately on the PDSCH (physical downlink shared channel). TFI is used to decode DSCH data, which is then forwarded through MAC-sh and MAC-d to the receiving RLC. An acknowledgement is eventually sent by the UE-RLC mapped to a DCH, unless the DCH is released before the acknowledgement.