3GPP TSG-CN Meeting #25 8th – 10th September 2004. Palm Springs, USA.

TSG CN WG1
CR on Rel-6 WI "MBMS" towards TS 44.065
9.8
APPROVAL

This document contains **1 CR on Rel-6 Work Item "MBMS"**, that has been agreed by TSG CN WG1 CN#35 meeting and forwarded to TSG CN Plenary meeting #25 for approval.

TDoc #	Tdoc Title	Spec	CR #	Rev	CAT	Current version	WI	Rel
N1- 041408	Update of SNDCP - MBMS	44.065	14		В	6.2.0	MBMS	Rel-6

3GPP TSG-CN1 Meeting #35 Sophia Antipolis, France, 16-20 August 2004

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Other specs affected:	ж	X X X	Other core specifications Test specifications O&M Specifications	Ħ	
Other comments:	Ħ				

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/specs/CR.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://ftp.3gpp.org/specs/</u> 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.

5 Service primitives and functions

5.1 Service primitives

This subclause explains the service primitives used for communication between the SNDCP layer and other layers. See also 3GPP TS 24.007 [4] to get an overall picture of the service primitives. Figure 3 illustrates the service access points through which the primitives are carried out.



Figure 3: Service Access Points provided and used by SNDCP

NEXT CHANGE

7.2 SN-PDU Formats

Each SN-PDU shall contain an integral number of octets, and shall comprise a header part and a data part. An SN-PDU shall contain data from a single N-PDU only. Two different SN-PDU formats are defined. The SN-DATA PDU shall be used for acknowledged data transfer and SN-UNITDATA PDU for unacknowledged data transfer.

Bit	8	7	6	5	4	3	2	1		
Oct 1	X F T M NSAPI									
2		DCC	DMP		PCOMP					
3	N-	N-PDU number - acknowledged mode								
		Data segment								
N										

Figure 18: SN-DATA PDU format

Bit	8	7	6	5	4	3	2	1		
Oct 1	Х	F	Т	Μ	NSAPI					
2		DCC	MP			PCC	OMP			
3	Seg	ment	num	ber	N-PDU number - unacknowledged mode					
4	N-PI	N-PDU number - unacknowledged mode (continued)								
		Data segment								
N										

Figure 19: SN-UNITDATA PDU format

More bit (M):

- 0 Last segment of N-PDU.
- 1 Not the last segment of N-PDU, more segments to follow.

SN-PDU Type (T):

- 0 SN-DATA PDU.
- 1 SN-UNITDATA PDU.

First segment indicator bit (F):

0 This SN-PDU is not the first segment of an N-PDU.

The octet including DCOMP and PCOMP is not included in the SN-DATA PDU or SN-UNITDATA PDU format. Also the octet for N-PDU number for acknowledged mode is not included in the SN-DATA PDU format.

1 This SN-PDU is the first segment of an N-PDU. The octet for DCOMP and PCOMP is included in the SN-DATA PDU or SN-UNITDATA PDU format. Also the octet for N-PDU number for acknowledged mode is included in the SN-DATA PDU format.

Spare bit (X):

0 Shall be set to 0 by the transmitting SNDCP entity and ignored by the receiving SNDCP entity.

NSAPI:

- 0 Escape mechanism for future extensions.
- 1 Point-to-Multipoint Multicast (PTM-M) information- for Multimedia Broadcast/Multicast Service (MBMS).
- 2-4 Reserved for future use.
- 5-15 Dynamically allocated NSAPI value (see subclause 6.1).

The SGSN shall ignore any uplink data traffic of SN-PDUs with an NSAPI = 1.

SN-PDU with an unallocated NSAPI value shall be ignored by the receiving SNDCP entity without error notification.

Data compression coding (DCOMP):

- 0 No compression.
- 1-14 Points to the data compression identifier negotiated dynamically (see subclause 6.6).
- 15 Reserved for future extensions.

SN-PDU with an unallocated DCOMP value shall be ignored by the receiving SNDCP entity without error notification.

Protocol control information compression coding (PCOMP):

- 0 No compression.
- 1-14 Points to the protocol control information compression identifier negotiated dynamically (see subclause 6.5).
- 15 Reserved for future extensions.

SN-PDU with an unallocated PCOMP value shall be ignored by the receiving SNDCP entity without error notification.

Segment number:

0-15 Sequence number for segments carrying an N-PDU.

N-PDU number - acknowledged mode:

0-255 N-PDU number of the N-PDU.

N-PDU number - unacknowledged mode:

0-4095N-PDU number of the N-PDU.