TSG-RAN Meeting #7
Madrid, Spain, 13 – 15 March 2000

RP-000042

Title: **Agreed CRs to TS 25.323**

Source: **TSG-RAN WG2**

Agenda item: **6.3.3**

Doc-1st-	Spec	CR	Rev	Subject	Cat	Version	Versio
R2-000077	25.324	001		Miscellaneous corrections	F	3.0.0	3.1.0
R2-000628	25.324	002	2	Correction of messages and bit ordering	F	3.0.0	3.1.0

3GPP TSG-RAN Meeting #7
Madrid, Spain, 13 - 15 March 2000

***Document* R2-000077**
e.g. for 3GPP use the format TP-99xxx
or for SMG, use the format P-99-xxx

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25.324	CR	001	Current Version:	3.0.0

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

For submission to:	TSG-RAN#7	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	X	UTRAN / Radio	X	Core Network	

Source:	TSG-RAN WG2		**Date:**	17 Jan. 00	
Subject:	Miscellaneous corrections				
Work item:					

Category: *(only one category shall be marked with an X)*				**Release:**		
	F	Correction	X		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 contains several minor corrections to TS 25.324:

- The use of the Message ID information element is aligned with TS 23.041.
- It was clarified that messages containing “reserved message types” are discarded
- The serial number is mandatory
- Further editorial corrections are done.

Clauses affected: 3.1, 6, 8.2.1, 8.2.2.1, 8.2.2.3, 9.2, 10.1, 11.1, 11.2, 11.3, 11.4

Other specs affected:			
	Other 3G core specifications		→ List of CRs:
	Other GSM core specification		→ 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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3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the following terms and definitions apply.

CB message: User data as transmitted from Cell Broadcast Centre to UE (BMC SDU).

CB repetition period: Period after which a CB message should be broadcast again if more than one repetitions are requested.

Number of Broadcast Requested: Number of broadcasts requested for a CB message. This number is infinite or finite.

DRX Schedule Period: Schedule period as optionally requested by the CBC (unit: seconds).

Reserved CB Capacity: Percentage of the capacity reserved for CB messages with category HIGH on the allocated radio resources CTCH, FACH and S-CCPCH. This parameter can be set optionally by the CBC.

CTCH Block Set: Subset of the transport block set of FACH on which the CTCH used for CBS is mapped uniquely.

CBS schedule period: Finite sequence of CTCH Block Sets of variable length in which scheduled CB messages are broadcast.

6 Services provided to Upper Layers

The BM-SAP provides a broadcast/multicast transmission service in the user plane on the radio interface for common user data in unacknowledged mode.

NOTE: This chapter depends on the specification of the CBC-RNC-interface protocol (TS of RAN WG 3) and the requirements of the CB application and the underlying interfaces (TS ~~0~~23.041 under specification of T WG 2 SWG 3). RAN WG 2 has based its work on the available specifications.

The BMC sublayer interacts with other entities as illustrated in figure 1 of chapter 4. The interactions with the upper layer/U-plane and the RRC layer are specified in terms of primitives where the primitives represent the logical exchange of information and control between the BMC sublayer and higher layers. They do not specify or constrain implementations. The (adjacent) layers connect to each other through Service Access Points (SAPs).

Three types of primitives are used for this document, as follows.

- **REQUEST:**
  This type is used when a higher layer is requesting a service from a lower layer
- **INDICATION:**
  This type is used by a lower layer providing a service to notify its higher layer of activities concerning that higher layer
- **CONFIRM:**
  This type is used by a lower layer providing the requested service to confirm to the higher layer that the activity has been completed.

The primitives defined below are for communications between upper layer and BMC, as well as RRC and BMC in the same protocol stack.

For the BMC sublayer two sets of primitives are defined

- **Primitives between BMC and upper layer (U-plane):**

  BMC - Generic name - Type: Parameters

- **Primitives between BMC and the RRC entity:**

  CBMC - Generic name - Type: Parameters.

8.2 Service Primitives between upper layer (U-plane) and BMC

8.2.1 Primitives

The primitives supported at BMC-SAP between BMC and upper layer (U-plane) are shown in Table 8.2.1-1.

Table 8.2.1-1: Primitives between BMC and upper layer

Legend: [ ] optional parameters

Generic Name	Parameters
BMC-Data-REQ	~~CB-~~Message-ID, [, Old-Serial-Number], New-Serial-Number, Data-Coding-Scheme, CB-Data , [Category], Repetition-Period, Number-of-Broadcasts-Requested
BMC-Data-IND	~~CB-~~Message-ID, Serial-Number, Data-Coding-Scheme, CB-Data
BMC-Data-CNF	~~CB-~~Message-ID, Serial-Number
BMC-Congestion-IND	
BMC-Normal-IND	
BMC-Activation-REQ	~~CB-~~Message-ID (n times)
BMC-Deactivation-REQ	~~CB-~~Message-ID (n times)
BMC-DRX-REQ	CB-DRX-Schedule-Period, Reserved-CB-Capacity
BMC-Error-IND	Cause
BMC-Data41-REQ	Transport Layer Message, Broadcast Address
BMC-Data41-IND	Transport Layer Message,
BMC-Error41-IND	Error Type

8.2.1.1 Primitives used in relation to UMTS Core Network

8.2.1.1.1 BMC-Data-REQ

The BMC-Data-REQ primitive is used by upper layer to request repeated transmission of CB messages.

Primitive Type: request.

Parameters:

~~CB-~~Message-ID,

[Old-Serial-Number],

New-Serial-Number,

Data-Coding-Scheme,

CB-Data

[Category],

Repetition-Period,

Number-of-Broadcasts-Requested

8.2.1.1.2 BMC-Data-IND

The BMC-Data-IND primitive is used to indicate received CB messages (i.e. CB Data) to upper layer.

Primitive Type: indication.

Parameters:

~~CB~~ Message-ID

Serial-Number,

Data-Coding-Scheme,

CB-Data

8.2.1.1.3 BMC-Data-CNF

The BMC-Data-CNF primitive is used to indicate the complete broadcast of CB messages.

Primitive Type: confirmation.

Parameters:

~~CB~~ Message-ID

Serial-Number

8.2.1.1.4 BMC-Congestion-IND

The BMC-Congestion-IND primitive is used to indicate to upper layer (BM-IWF) that the BMC entity is congested.

Primitive Type: indication.

Parameters: None.

8.2.1.1.5 BMC-Normal-IND

The BMC-Normal-IND primitive is used to indicate to upper layer (BM-IWF) that the BMC has recovered from a congestion situation and is operating normal.

Primitive Type: indication.

Parameters: None.

8.2.1.1.6 BMC-Activation-REQ

The BMC-Activation-REQ primitive is used to request CB message reception and to notify which CB messages are of interest and shall be delivered to the upper layer.

Primitive Type: request.

Parameters:

~~CB~~ Message-ID (n times)

8.2.1.1.7 BMC-Deactivation-REQ

The BMC-Deactivation-REQ primitive is used to request stop of reception of listed CB messages. If no more CB messages are to be received, CB message reception shall stop.~~.~~

Primitive Type: request.

Parameters:

~~CB~~ Message-ID (n times)

8.2.1.1.8 BMC-DRX-REQ

The BMC-DRX-REQ primitive is used to command CBS discontinuous reception (CB DRX).

Primitive Type: request.

Parameters:

CB-DRX-Schedule-Period

Reserved-CB-Capacity

8.2.1.1.9 BMC-Error-IND

The BMC-Error-IND primitive is used to indicate unsuccessful operations of the BMC entity requested.

Primitive Type: indication.

Parameters:

Cause

8.2.2.1 ~~CB-~~Message-ID

Part of the CB message identification describing the source and type of a CB message.
This parameter is described in 3G TS 23.041.

8.2.2.3 Data-Coding-Scheme~~System~~

Data coding ~~system~~ scheme applied to the CB information.
This parameter is described in 3G TS 23.038 and 3G TS 23.041.

9.2 Generation of Schedule message

NOTE: Principles and examples are described in 3G TR 25.925.

This procedure calculates the CBS schedule periods and assigns BMC messages (i.e. CBS Messages and Schedule Messages) to the CBS schedule periods and gives an indication which of the CTCH Block Sets containing part of or complete BMC messages has the status "new".

Algorithms used for scheduling are implementation dependent and thus do not need to be specified. Some parameters may be set by CBC or O&M system.

CTCH Block Sets are indicated in a New Message Bitmap IE of BMC Schedule Message as new (bit position of a CTCH Block Set is set to value "1") when one of the following conditions is met:

The CTCH Block Set contains part of or a complete BMC message which
was either not sent during the previous CBS schedule period,
or sent unscheduled during the preceding CBS schedule period;
or, the CTCH Block Set is indicated as of free usage, reading advised,
or it contains the Schedule Message partly or complete of the following CBS schedule period.

Other BMC messages sent in the same CBS schedule messages are indicated as "old" (bit position of CTCH Block Set containing this message partly or complete is set to value 0).

The indication "new" is set both for the first transmission of a BMC message in the CBS schedule period or a repetition of it within the CBS schedule period.

The input parameters of the scheduling procedure are set by CBC or RRC or by the O&M system for the BMC.

The CBC input parameters are:

CB messages (i.e. BMC SDUs),
~~CM~~ Message Identifier per CB message,
Serial Number per CB message,
CB repetition period per CB message,
Number of Broadcast Requested per CB message,
DRX Schedule Period (cell related parameter) requested optionally,
Reserved CB Capacity (cell related parameter) requested optionally.

The RRC input parameters are:

Sizes of CTCH Block Sets,
Timing of CTCH Block Set sequence.

The O&M (BMC) input parameters are:

Reserved CB Capacity, to be used when CBC has not set this parameter.

10.1 BMC CBS Message

The CBS Message carries the cell broadcast data and the identification and coding information of it.

RLC-SAP: UM

Logical channel: CTCH

Direction: UTRAN → UE

Table 10.1-1: CBS Message

Information Element	Presence	Multi	IE type and reference	Semantics description
Message Type	M		Sec. 11.1	
~~CB~~ Message ID	M		Sec. 11.2	
Serial Number	M		Sec. 11.3	
Data Coding Scheme	M		Sec. 11.4	
CB Data	M		Sec. 11.5	

11.1 Message Type

Table 11.1-1: Message Type IE

IE/Group name	Presence	Multi	IE type and reference	Semantics description
Message Type	M		Enumerated (0 .. 255)	

Coding of Message Type

Table 11.1-2: Coding of Message Type IE

1	CBS Message
2	Schedule Message
0, 3 .. 255	Reserved for future use (PDUs with this coding will be discarded by this version of the protocol)

11.2 ~~CB~~ Message ID

Table 11.2-1: CB Message ID IE

IE/Group name	Presence	Multi	IE type and reference	Semantics description
Message ~~Type~~ID	M		Enumerated (0 .. 2^{16}-1) 3G TS 23.041	Identification of source and type of CBS message

11.3 Serial Number

Table 11.3-1: Serial Number IE

IE/Group Name	Presence	Multi	IE Type and reference	Semantics description
Serial Number	M		Enumerated (0 .. 2^{16}-1) 3G TS 23.041	Identification of variations of a CBS message (part of the overall CBS message identification)

11.4 ~~CB~~ Data Coding Scheme

Table 11.4-1: CB Coding Scheme IE

IE/Group name	Presence	Multi	IE type and reference	Semantics description
~~CB~~ Data Coding Scheme	M		Enumerated (0 .. 2^{8}-1) 3G TS 23.038 3G TS 23.041	Identification of the alphabet/coding and the language applied

3GPP TSG-RAN Meeting #7
Madrid, Spain, 13 - 15 March 2000

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25.324	CR	002r2	Current Version:	3.0.0

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

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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	X	UTRAN / Radio	X	Core Network	

Source: TSG-RAN WG2 **Date:** 02 March 2000

Subject: Correction of Messages and Bit Ordering

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 contains corrections on the Message Description and on Information Elements.

- Within the Schedule Message the message descriptions are not grouped any longer into new and other messages. Thus, Other Message Description IE is deleted and New Message Description IE is renamed to Message Description IE (r1)
- Harmonisation of the tabulars with current changes in TR 25.921 (r1)
- Enclosure of bit ordering of BMC PDUs (r2)
- Change of "Needed" into "Need" in the tabulars (r2)
- Correction of octet number in "New Message Bitmap" IE (r2)

Clauses affected: 10, 11

Other specs affected:

Other 3G core specifications		→ List of CRs:
Other GSM core specification		→ 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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10 BMC Messages

10.1 General

A BMC message is equivalent with a BMC PDU. There are two types of BMC messages defined, CBS messages, which carry cell broadcast data from higher layer, and *Schedule messages*, which provide information for support of Discontinuous Reception (DRX) of cell broadcast data at the UE.

BMC messages and information elements are specified using the tabular format methodology as specified in TR 25.921, and additional text is describing the encoding

Note: In Release 99, only IEs marked as MP or CV in the "Need" column exists.

BMC messages (i.e. BMC PDUs) specified by tabular format consist of an ordered sequence IE1,..,IEn of information element fields.

Let $(A_{1,IE},..,A_{N,IE})$ be the bit string of an information element IE. $A_{1,IE}$ is equal to the leftmost bit of the information element field and $A_{N,IE}$ is equal to the rightmost bit of the information element field.

The bit string of a BMC message is defined as the concatenation $(A_{1,IE1},..,A_{N,IE1})$, …, $(A_{1,IEn},..,A_{N,IEn})$ of the bit strings of the IEs maintaining the sequence order.

10.~~1~~2 BMC CBS Message

The CBS Message carries the cell broadcast data and the identification and coding information of it.

RLC-SAP: UM

Logical channel: CTCH

Direction: UTRAN → UE

Table 10.1-1: CBS Message

Information Element	~~Presence~~ Need~~ed~~	Multi	~~IE t~~Type and reference	Semantics description
Message Type	MP		Sec. 11.1	
CB Message ID	MP		Sec. 11.2	
Serial Number	MP		Sec. 11.3	
Data Coding Scheme	MP		Sec. 11.4	
CB Data	MP		Sec. 11.5	

10.~~2~~3 BMC Schedule Message

The BMC Schedule Message describes for the succeeding CBS schedule period the time locations for each CBS Message and the location of the Schedule Message of the following CBS schedule period .

RLC-SAP: UM

Logical channel: CTCH

Direction: UTRAN → UE

Table 10.2-1: Schedule Message

Information Element	~~Presence~~ Needed	Multi	~~IE type~~ Type and reference	Semantics description
Message Type	MP		Sec. 11.1	
Offset to Begin CTCH BS index	MP		Sec. 11.6	
Length of CBS Scheduling Period	MP		Sec. 11.7	
New Message Bitmap	MP		Sec. 11.8	
~~New~~ Message Description	~~O~~MP	1 to ~~NoOfOnes~~ <Length of CBS Scheduling Period>	Sec. 11.9	~~For each "1" bit a New Message Description IE is contained.~~ Message Description IE is included for each new message (1 in the New message bitmap) as well as for each old message (0 in the New message bitmap). The i-th ~~New~~ Message Description IE refers to the i-th ~~"1"~~ bit in the New Message Bitmap IE.
~~Other Message Description~~	~~M~~	~~0 to (Length of CBS Scheduling Period – NoOfOnes)~~	~~Sec. 11.10~~	~~For each "0" bit a Other Message Description IE is contained. The i-th Other Message Description IE refers to the i-th "0" bit in the New Message Bitmap IE.~~

~~**Table 10.2-2: Range Bounds**~~

~~Range Bound~~	~~Explanation~~
~~NoOfOnes~~	~~Number of "1"-bits of the New Message Bitmap.~~ ~~1 ≤ NoOfOnes ≤ Length of CBS Scheduling Period~~

11 Information Elements

11.1 Message Type

Table 11.1-1: Message Type IE

IE/Group name	~~Presence~~ Needed	Multi	~~IE t~~Type and reference	Semantics description
Message Type	MP		Enumerated (0 .. 255) Table 11.1-2	

Coding of Message Type

Table 11.1-2: Coding of Message Type IE

1	CBS Message
2	Schedule Message
0, 3 .. 255	Reserved for future use

11.2 CB Message ID

Table 11.2-1: CB Message ID IE

IE/Group name	~~Presence~~ Needed	Multi	~~IE t~~Type and reference	Semantics description
Message Type	MP		~~Enumerated (0 .. 2^{16} 1)~~Bitstring(16) 3G TS 23.041	Identification of source and type of CBS message

11.3 Serial Number

Table 11.3-1: Serial Number IE

IE/Group Name	~~Presence~~Needed	Multi	~~IE~~ Type and reference	Semantics description
Serial Number	MP		~~Enumerated (0 .. 2^{16} 1)~~Bitstring(16) 3G TS 23.041	Identification of variations of a CBS message (part of the overall CBS message identification)

11.4 CB Coding Scheme

Table 11.4-1: CB Coding Scheme IE

IE/Group name	~~Presence~~ Needed	Multi	~~IE t~~Type and reference	Semantics description
CB Coding Scheme	MP		~~Enumerated (0 .. 2^{8} 1)~~Bitstring(8) 3G TS 23.038 3G TS 23.041	Identification of the alphabet/coding and the language applied

11.5 CB Data

Table 11.5-1: CB Data IE

IE/Group name	~~Presence~~ Needed	Multi	~~IE t~~Type and reference	Semantics description
CB Data	MP		Bitstring(N*8) N ≥ 1	Content of CBS message

NOTE: The ~~length~~ number N ~~of the bit string~~ is less or equal to 1246 [octets] ~~when~~ if a GSM CBS message is broadcast.

11.6 Offset to Begin CTCH Block Set Index

Table 11.6-1: Offset to Begin CTCH Block Set Index IE

IE/Group name	~~Presence~~ Needed	Multi	~~IE t~~Type and reference	Semantics description
Offset to Begin CTCH BS Index	MP		~~Enumerated~~Integer (1..255)	Pointer to the first CTCH BS of the next CBS Schedule Period relative to the CTCH BS index of the current BMC Schedule Message

11.7 Length of CBS Schedule Period

Table 11.7-1: Length of CBS Schedule Period IE

Information Element/Group name	~~Presence~~ Needed	Multi	~~IE t~~Type and reference	Semantics description
Length of CBS Schedule Period	MP		~~Enumerated~~Integer (~~0..255~~1..256)	Number of consecutive CTCH BS of the next CBS Schedule Period. Together with Offset to Begin CTCH BS Index it points to the end of the CBS schedule period.

11.8 New Message Bitmap

Table 11.8-1: New Message Bitmap IE

Information Element/ Group name	~~Presence~~ Needed	Multi	~~IE t~~Type and reference	Semantics description
New Message Bitmap	MP		Bitmap(~~n~~N*8) N = <Length of CBS Schedule Period> div 8, if <Length of CBS Schedule Period>mod8 = 0 ~~n~~N = <Length of CBS Schedule Period> div 8 + 1, if <Length of CBS Schedule Period>mod8 ≠ 0 Table 11.8-2	Bitmap indicating CTCH BS which contains new CBS Messages completely or partly

Coding of New Message Bitmap

Table 11.8-2: Coding of New Message Bitmap IE

CTCH BS index B	CTCH BS index B+1	CTCH BS index B+2	...					1
								2
								...
	...	CTCH BS index E-1	CTCH BS index E	0	0	0	0	n
Legend: B First CTCH BS index of the CBS schedule period, 1 ≤ B ≤ 256 E Last CTCH BS index of the CBS schedule period, E = B + Length of CBS Schedule Period – 1								

CTCH BS Index *i*:
Bit i of the New CBS Message Bitmap refers to the content of CTCH BS index *i*. Its meaning is as follows:

1 The CTCH BS index *i* contains a BMC Message partly or completely which
was either not sent during the previous schedule period,
or sent unscheduled during the preceding schedule period;
or, the CTCH BS is indicated as of free usage, reading advised.
The value is 1 both for the first transmission of a given BMC message in the CBS schedule period or a repetition of it within the CBS schedule period.

0 The CTCH BS is such that value 1 is not suitable.

The length of the New Message Bitmap is given by the IE Length of CBS Schedule Period. If it is not a multiple of 8 the remaining bit positions are padded with "0".

11.9 ~~New~~ Message Description

Table 11.9-1: ~~New~~ Message Description IE

IE/Group Name	~~Presence~~Needed	Multi	~~IE~~ Type and reference	Semantics description
Message Description Type	MP	~~0,..,16~~	Enumerated(0..~~15~~255) ~~cf.~~ Table 11.9-3	~~0: Repetition of new BMC message within schedule period~~ ~~1: New message~~ ~~2: Reading advised~~ ~~3: Reading optional~~
CB-Message-ID	CV MDT1		Enumerated (0 .. 2^{16}-1) 3G TS 25.041	
Offset to CTCH BS index of first transmission	CV MDT2		~~Enumerated~~ Integer (0..255)	

Table 11.9-2: Conditions

Condition	Explanation
MDT1	~~If Message Description Type = 0 then:~~ ~~the Offset to CTCH BS index of first transmission IE is included pointing to the CTCH BS index where the BMC message is transmitted the first time within the schedule period.~~ If Message Description Type = 1 or 5 then: the CB-Message-Id IE is included
MDT2	If Message Description Type = 0 or 4 then: the Offset to CTCH BS index of first transmission IE is included pointing to the CTCH BS index where the BMC message is transmitted the first time within the schedule period.

Table 11.9-3: Encoding of Message Description Type

Value	Explanation
0	Repetition of new BMC message within schedule period
1	New message
2	Reading advised
3	Reading optional
4	Repetition of old BMC message within schedule period
5	Old message
6 .. ~~15~~255	Reserved for future use (IEs received with this value will be replaced by value 3 in Release 99)

~~11.10 Other Message Description~~

~~Table 11.10-1: Other Message Description IE~~

~~IE/Group Name~~	~~Presence~~	~~Multi~~	~~IE Type and reference~~	~~Semantics description~~
~~Message Description Type~~	~~M~~	~~0,..,16~~	~~Enumerated(0..15)~~ ~~cf. Table 11.9-3~~	~~3: Reading optional~~ ~~4: Repetition of old BMC message within schedule period~~ ~~5: Old message~~
~~CB-Message-ID~~	~~C MDT1~~		~~Enumerated (0 .. 2^{16}-1)~~ ~~3G TS 25.041~~	
~~Offset to CTCH BS index of first transmission~~	~~C MDT2~~		~~Enumerated (0..255)~~	

~~Table 11.10-2: Conditions~~

~~Condition~~	~~Explanation~~
~~MDT1~~	~~If Message Description Type = 4 then:~~ ~~the Offset to CTCH BS index of first transmission IE is included pointing to the CTCH BS index where the BMC message is transmitted the first time within the schedule period.~~ ~~If Message Description Type = 5 then:~~ ~~the CB-Message-Id IE is included~~
~~MDT2~~	~~If Message Description Type = 4 then:~~ ~~the Offset to CTCH BS index of first transmission IE is included pointing to the CTCH BS index where the BMC message is transmitted the first time within the schedule period.~~