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(73)

1 679

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601 1003

(74)

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(54)

ervice) (Layer 2) , 3 (Layer 3) (3GPP) (TSG)
(SMS : Short Message S

3GPP SMSCB SMS

7

(SMS), (Cell broadcasting), (MAC)

1	GSM	SMSCB	.
2	GSM		.
3	SMS	SMSCB	.
4	SMS		.
5		MAC	.
6	SMS		
7	SMS	MAC	

(Layer 2) , 3 (Layer 3) (3GPP) (TSG)
(SMS)

CDMA (Short Message Service ; , SMS)
IS - 637 IS - 95 J - ST
D - 008

CDMA SMS 가 , (Core
network) (paging channel)
SMS
(idle state)

, (Global System for Mobile Co
mmunications ; , GSM) SMS (Cell Broadcasting)

ETSI(European Telecommunication Standard Institute) SMS

GSM SMS (PLMN : Public Land Mobile Network)
(UE : User Equipment)

GSM SMS 가 SMS (SMS
Cell Broadcasting message ; , SMSCB) (Schedule message)

1 GSM SMSCB 88 (octet) ,

SMSCB (serial number) , (message identifier) ,
(data coding scheme) (page parameter) 가 .

2 GSM 88 (octet) , 4

ption mode) , Non - DRX (Non - Discontinuous Reception mode) GSM SMS DRX (Discontinuous Rec

DRX , (UE) SMSCB 가

Non - DRX , (UE) SMSCB SMSCB 가 (UE) SMSCB 가

SMSCB GSM

GSM 88 SMSCB 15 SMSCB

CDMA GSM SMS (Roaming service)

GSM (Third Generation Partnership Project ; , 3GPP) SMS 3 가

SMS , 3GPP SMSCB

(UE) SMS , (UTRAN)가 가 (UE)

가 , (UE) , , 가 (Common Logical Channel) (mapping) (D edicated Logical Channel) (CCCH : Comm on Control Channel) (CTCH : Common Traffic Channel)

가,
(UTRAN) (UE)
(
RLC) ,
.
.
.
가 가 ,

SMS

3GPP (TSG)
1) (Layer 1) (RAN : Radio Access Network)
(Layer 2) 1 (TSG)
(Layer 3) 2 (WG1 : Working Group
(WG2 : Working Group 2)
2 (Radio La
yer 2) 3 (Radio Layer 3)

(Layer 2) (Layer 3) SMS

GSM SMSCB
3 4
3 , SMSCB (serial number) , (mes
sage identifier) , (data coding scheme) (page parameter) 가

SMSCB 가 , SMSCB (Type/source)

SMSCB 가 , 88
(Page parameter)
, SMSCB

(AP : Application Layer) SMSCB 2 (Layer 2)
(Radio Link Control layer ; , RLC) (segmentation)
(Medium Access Control Sublayer ; , MAC) (scheduling)
가 MAC

GSM , SMSCB RLC (scheduling) 가
(segmentation)

MAC (Protocol Data Unit ; , PDU) . MAC MAC

SMSCB (UE) .

4 , MAC , (Length indicator) , SMSCB , SMSCB 가 .

MAC 5 , 가 (Common Logical Channel) (m apping) (Dedicated Logical Channel) C/D , (CTCH : Common Control Channel) C/T . (CTCH : Common Traffic Channel) (CTCH) 가 SMSCB .

SMSCB SMSCB

SMSCB 가 SMSCB 가 ,

SMS

3GPP SMS DRX (Discontinuous Receptio n mode) , Non - DRX (Non - Discontinuous Reception mode) .

Non - DRX (UE) , (UE) SMSCB , (UE) SMSCB .

DRX (UTRAN) , (UE) (UTRAN) SMSCB , SMSCB 가 DRX .

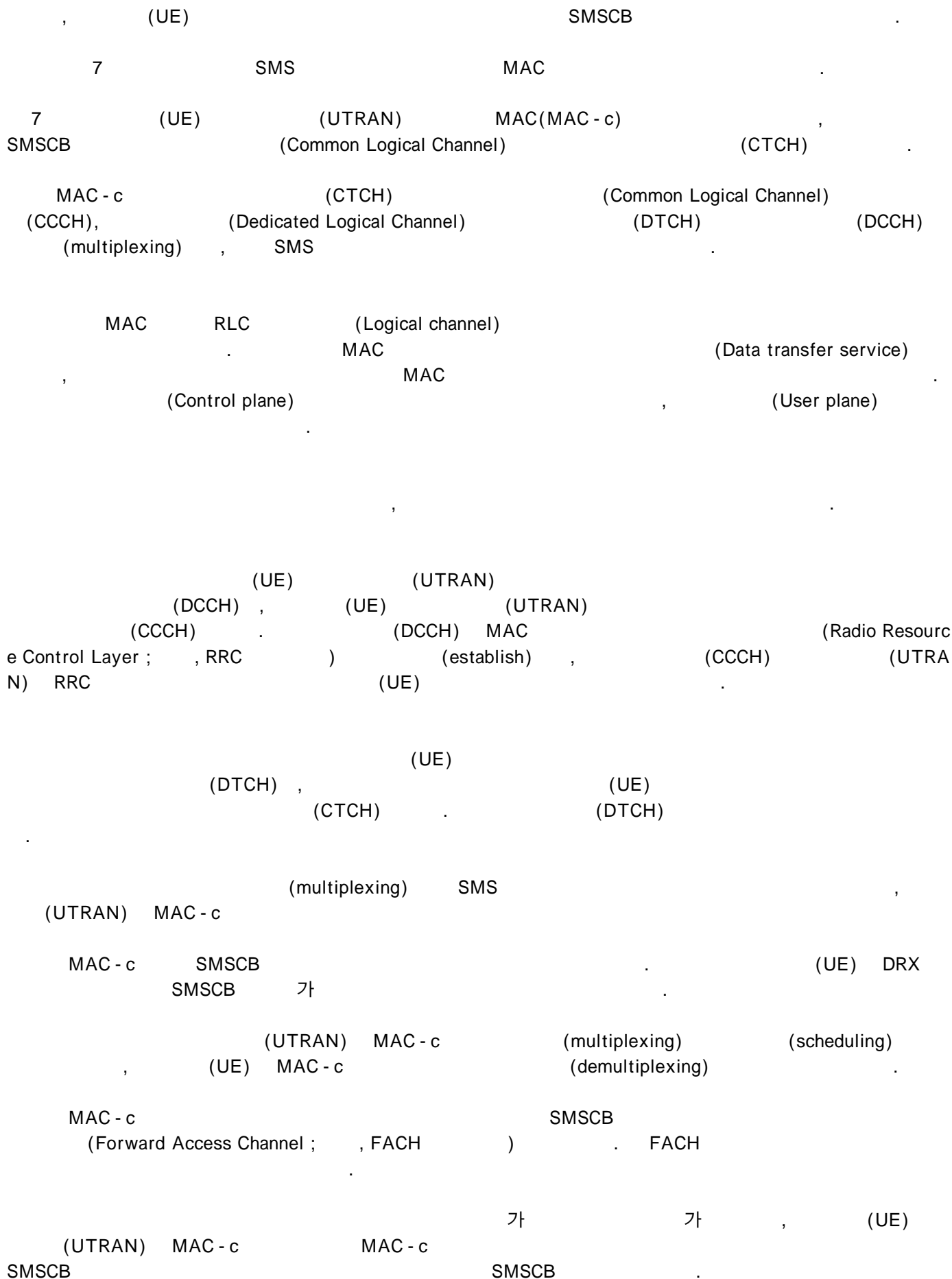
DRX 가 , (UE) SMSCB 가 (UE) SMSCB SMSCB SMSCB 가

(UE) SMSCB 가 ,

SMS 6 , 6

SMSCB ,

가 .



3GPP SMS SMS
 (UE)가 DRX
 (UTRAN) MAC (UTRAN) MAC (U
 E) MAC

(57)

1.

(UTRAN)가 (UE)
 가

(UE)

2.

1 (UE)
 가

3.

1
 가

4.

1
 가 (Common Logical Channel) (mapping) (Dedicated Logical Channel)
 (CCCH : Common Control Channel) (CTCH : Common Traffic Channel)

1

Serial Number	1 octet
	2
Message identifier	3
	4
Data Coding Scheme	5
Page Parameter	6
Content	7
	88 octets

2

Type(=00)	Begin Slot Number	1 octet
Spare	End Slot Number	2
New SMS CB Message Bitmap		3
		4
		5
		6
		7
		8
New SMS CB Message Description		9
		10
Other Message Descriptions		11
		12
		13
		88 octets

3

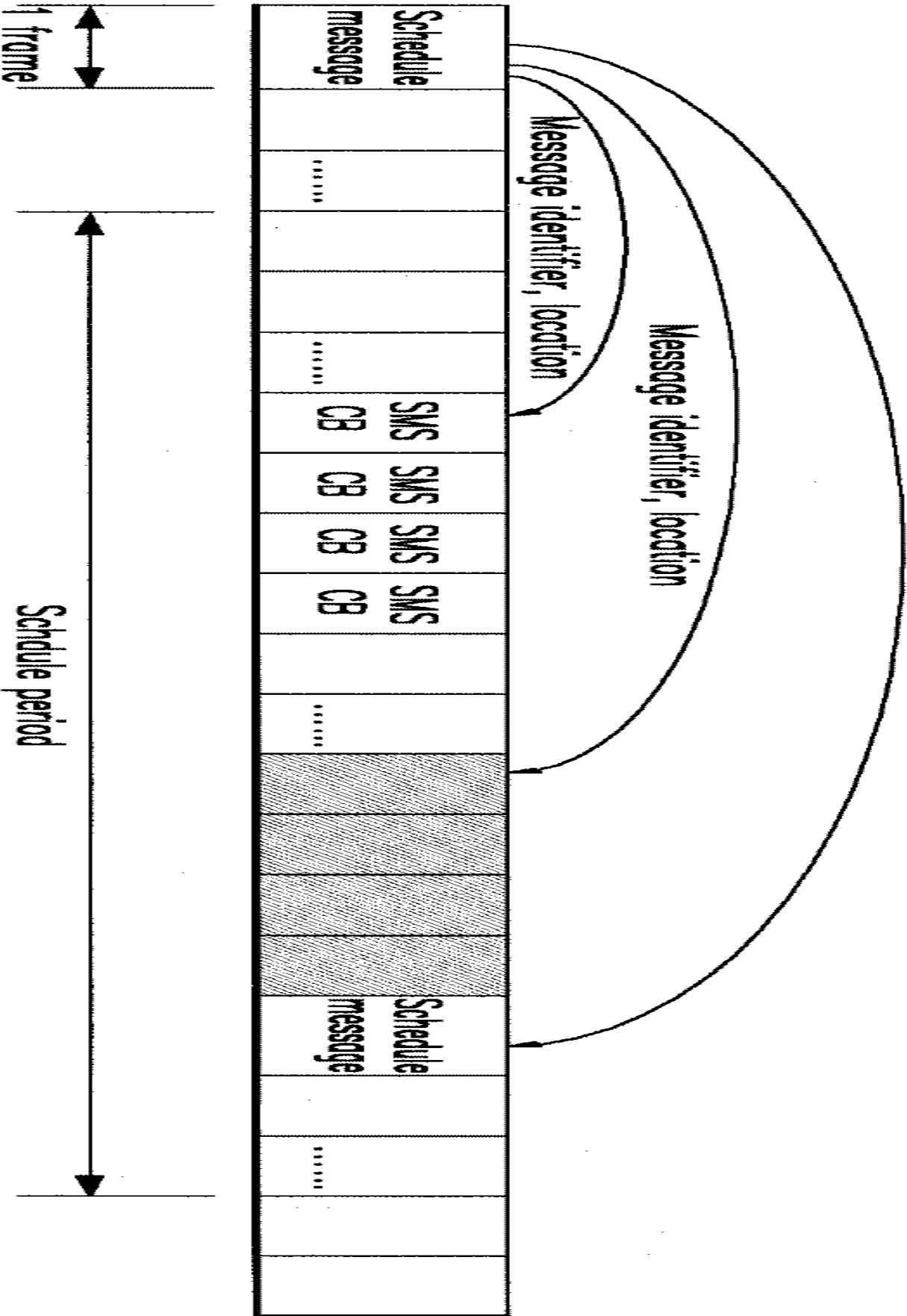
Serial Number	1 octet
	2
Message identifier	3
	4
Data Coding Scheme	5
Page parameter (note1)	6
Content	7
	X octets (note1)

4

MAC header
Length indicator
Begin Frame of schedule period
End Frame of schedule period
New SMS CB Message Indicator

5

C/D	C/T
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7

