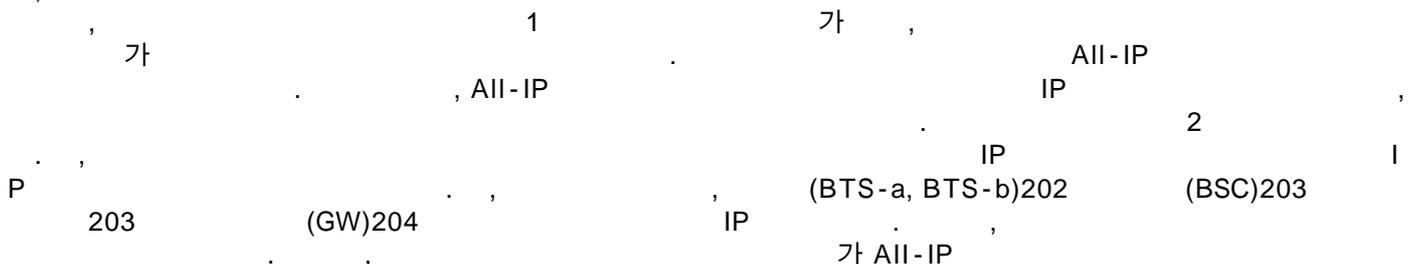
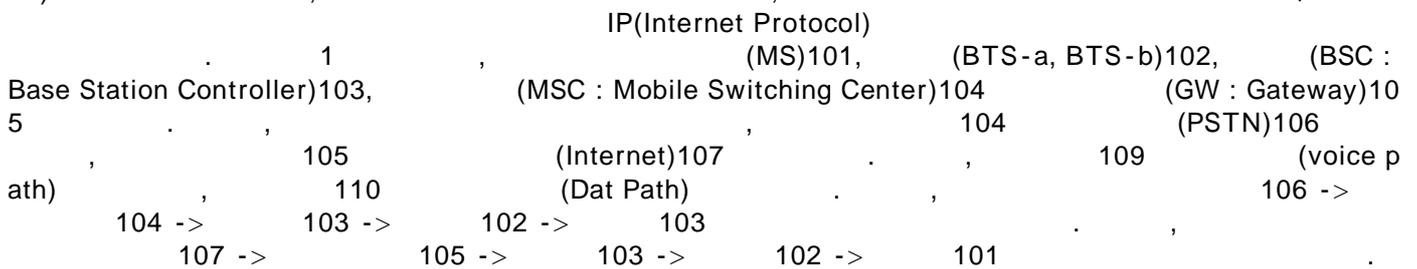


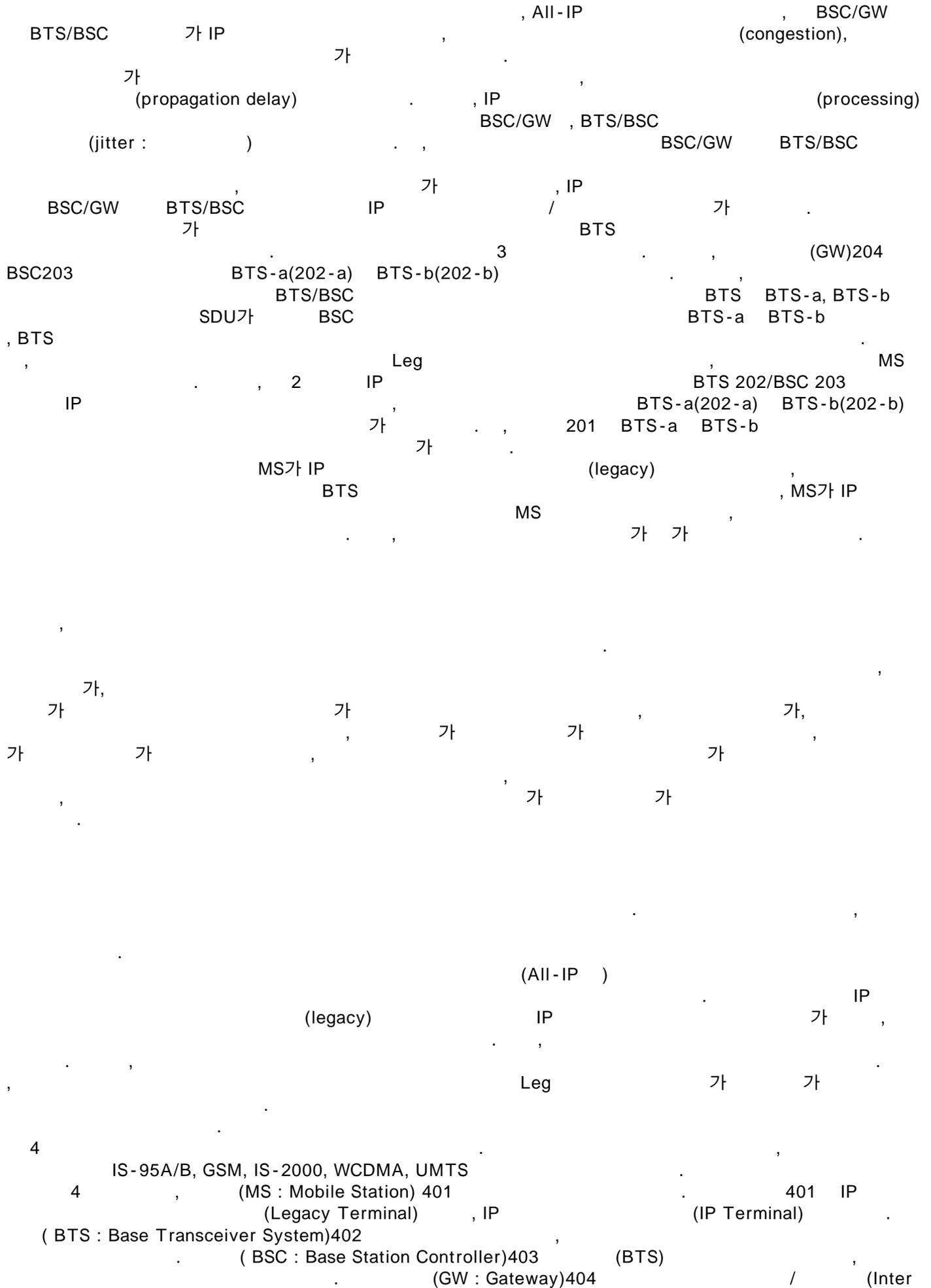
6		(BSC)			
7		(BTS)			
8	7				
9a	9c		SPHsdu	SPHbts	
10a	10b				
11a	11d		SPHsdu	SPHbts	(SE
Q-scheme)			
12a	12d		SPHsdu	SPHbts	(SE
Q-scheme)			
13			TR-Tx	SPHbts	
14			TF-Tx	TG-Tx	SPHbts
15			DT-Tx	SPHbts	
16			TFwtDT-Tx	TGwtDT-Tx	SPHbts
17			SPHsdu		
18			SPHbts		
19			SPHsdu		(SEQ-scheme
)			
20			SPHsdu		(SEQ-scheme
)			

IS-95A/B, IS-2000, GSM, WCDMA
 CN(Core Network) RAN(Radio Access Network) IP (HAN-DOFF)

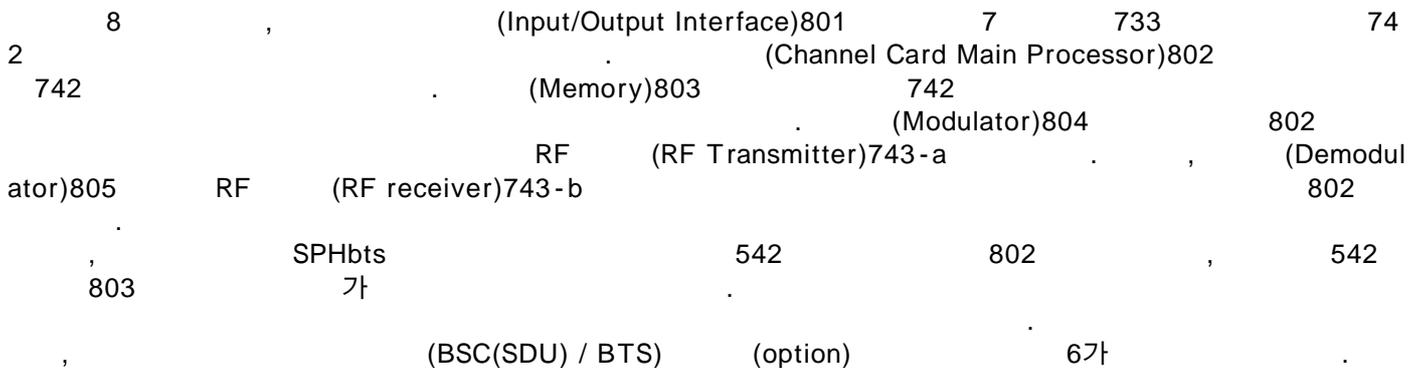
IS-95A/B, GSM(Global System for Mobile communication)
 IS-2000, UMTS(Universal Mobile Telecommunication System)/WCDMA(Wideband
 -CDMA) GPRS (General Packet Radio System)

(Data traf
 가

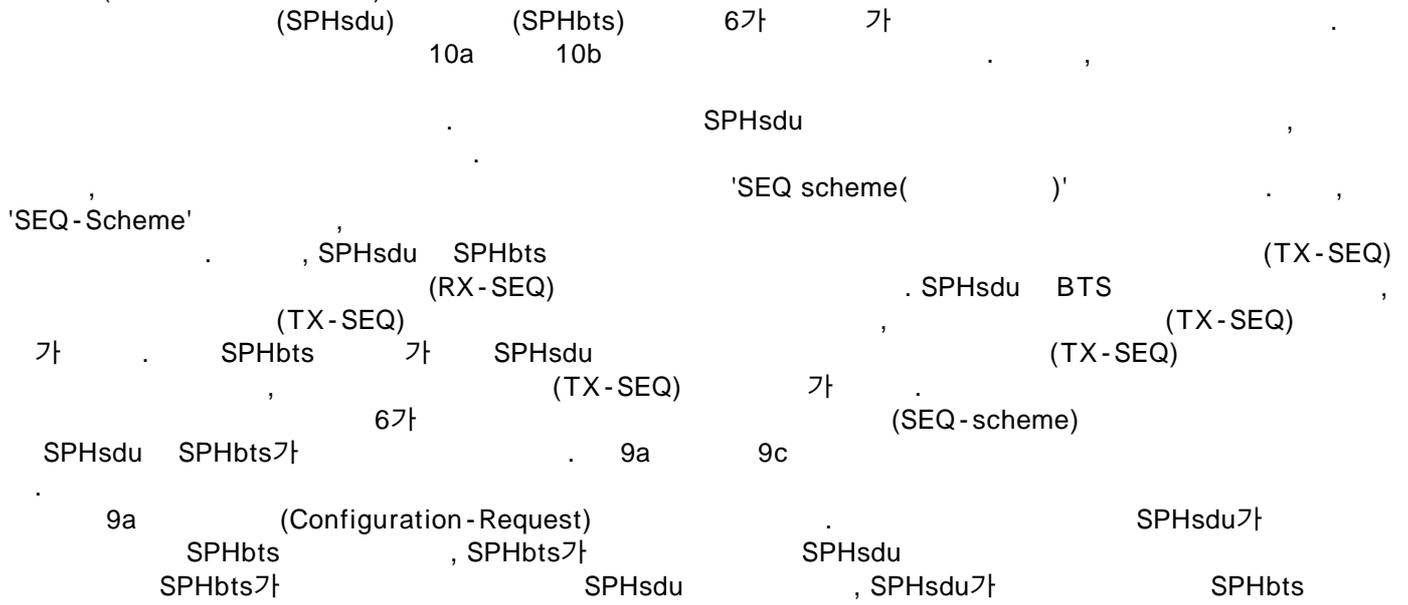




net/PSTN)406 (SDU : Selection
 amp; Distribution Unit)405 BTS
 (BSC)403 (GW)404 SDU405
 SDU405가 BSC403 가
 BSC403/BTS402, GW404/BSC403 E1/T1
 , IP IP BSC BT
 1/T1 S BSC BTS , BSC BTS가 1:1 , IP 가
 , GSM, WCDMA, UMTS, GPRS 가 SDU BTS 가 PSTN
 S-2000 가 , BSC, BTS 가 (BSC BTS)
 5 , SDU SPHsdu (Soft Packet Handoff module at SDU/BSC) 가 , BTS SPHbts (Soft P
 acket Handoff module at BTS) 가 (BSC) SPHsdu
 (BTS) SPHbts
 6 5 (BSC) (BSC)
 (BSC main controller)513, (Line Interface) 523 543, (Intra-BSC Swi
 tch or Router) 533 SDU 533
 6 (BSC main controller)513
 , 1 (Line interface)523 504
 503 (Intra-BSC Switch, Router)533
 503 2 543 503 502
 . SDU (SDU Processor)553
 (MUX/ DEMUX) , SDU 55
 3 (com
 bining)
 BSC SPHsdu
 SDU (Processor) (SW) 가
 7 5 (BTS)502 5
 502-a , 502-b 702 (B
 TS main controller)712, (Line interface) 722, (Intra-BTS switch or Router)
 733, (Channel card) 741-1 741-n (RF : Radio Frequency) (Transmitter/Rec
 eiver)743
) 7 (BTS Main controller)712 502 (502
 1 (Line Interface)722 503 502
 (Intra-BSC Switch, Router)733 502
 (Channel Card#1 Channel Card#n) 742-1 742-n
 501 . RF (RF Transmitter/receiver)743
 501 501
 BTS SPHbts
 (Channel Card) (SW) 가
 8 7 742 742
 (Input/Output interface) 801, (Channel Card main processor)802, 803, (Modulator)
 804 (Demodulator)805



- TR-Tx : Transparent mode(' 1 ')
- TF-Tx : Time-stamp based fixed synchronous transmission mode(' 2 ')
- TG-Tx : Time-stamp based gap synchronous transmission mode(' 3 ')
- DT-Tx : Deadline based time-limited transmission mode(' 4 ')
- TFwtDT-Tx : Both Time-stamp based fixed synchronous transmission and deadline based transmission mode(' 5 ')
- TGwtDT-Tx : Both Time-stamp based gap synchronous transmission and deadline based transmission mode(' 6 ')

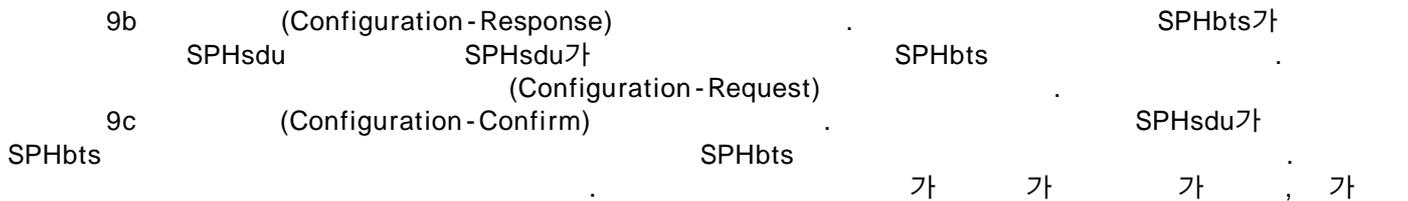


< Operation Mode >

- F1: TR-Tx	1	,	0
- F2: TF-Tx	1	,	0
- F3: TG-Tx	1	,	0
- F4: DT-Tx	1	,	0
- F5: TFwtDT-Tx	1	,	0
- F6: TGwtDT-Tx	1	,	0

< Sequence Support >

- SF: SPHsdu SPHbts	1	,	0
- SR: SPHbts SPHsdu	1	,	0
RSVD NIL			



< Traffic Period (in ms) >

S-95 IS-2000 Q-CELP, EVRC 20ms BSC BTS
 < Gap- Time (in ms) >
 - SPHsdu SPHbts가 TG-Tx TGwtDT-Tx , SPHbts가 SPHsd
 u 가
 10a 10b SPHsdu SPHbts 10a
 (BSC) 가 , 10b (BTS) 가
 , 10a , (BSC/SPHsdu) , SPHbts가
 (9 a) (BTS/SPHbts) (10a a).
 (9 b) (10a b).
 (9 c)
 .(10a c)
 , 10b , (BTS/SPHbts) , SPHsdu가
 (9 a) (BSC/SPHsdu) .(10b
 a) , (9 b) .(10b b) , 10a 10b
 , 6가
 , SPHsdu SPHbts가 ,
 , 11a 11d 12a 12d SPHsdu SPHbts , 12a
 11a 11a 11d SEQ-scheme , 12a
 12d 가 , 11 12 'User-ID'
 가 가 가
 , 11a 12a SPHsdu SPHbts 1 (TR-Tx mode)
 , 11b 12b 2 (TF-Tx mode) 3 (TG-Tx mode)
 , 11c 12c 4 (DT-Tx mode) , 11d
 12d 5 (TFwtDT-Tx mode) 6 (TGwtDT-Tx mode) , SPHb
 ts SPHsdu 11a 12a S
 PHsdu SPHbts
 17 (SPHsdu)
 17 (BSC/SPHsdu) 1701 (GW)504
 , 1703 (GW)
 , 1705 TR-Tx (1) , 1 (TR-Tx)
 1713 (SEQ-scheme) , 1 가
 1707 가 TFwtDT-Tx(5) TGwtDT-Tx (6)
 , 가 5 (TFwtDT-Tx) 6 (TGwtDT-Tx) , 1721
 'Time-Stamp()' 가 , 1723 'Dead
 -Line()' 가 , 1713 , 가 가
 , 1707 5 6 가 , 1709
 가 TG-Tx(3) TF-Tx (2) , 가 3 (TG-Tx
) 2 (TF-Tx) 1725 'Time-Stamp(
)' 가 1713 , 1709 2 3 가
 , 1711 가 DT-Tx (4) ,
 , 가 4 (DT-Tx) 1727 'D
 ead-Line()' 가 , 1713 1713
 , (TX_S
 EQ) 1715 가 , 1717
 (TX_SEQ) 가 1719 ,
 , 1719 (SPHbts) , 17

01 e' 가 가 (SEQ -scheme) 'Sequenc
 가 가 (BSC/SPHsdu)
 ()
 1 (TR-Tx mode)
 13 TR-Tx (1) (SPHbts) 1
 (TR-Tx) (transparent)
 13 (BTS/SPHbts) 1301 (BSC/SPHs)
 , 1303 (BSC/SPHs)
 1305 (MS) , 1 (TR-Tx
) , (BSC/SPHsdu) (GW)
 BTS-a/SPHbts BTS-b/SPHbts , BTS-a/SPHbts BTS-b/SPHbts BSC/SPHs
 du
 2 (TF-Tx mode)
 14 TF-Tx legacy TF-Tx(2) TG-Tx (3) (SPHbts)
 , 14 (SPHbts) 1401 BTS
 , 1403 (BSC/SPHs) (BSC/SPHs)
 , 1405 , 1407
 'Time Stamp' ,
 , 1409 ,
 , 1409 , 1411
 가
 , TF-Tx(2) , (SPHsdu) (GW)
 'Time-Stamp' (BTS-a, BTS-b)
 , 'Time-Stamp'
 (MS)
 3 (TG-Tx mode)
 TG-Tx legacy TF-Tx BTS
 (Gap-Time) 'Time-Stamp'
 14 (SPHbts) 1401 (BSC/SPHs)
 , 1403 (BSC/SPHs)
 1405 (Gap time) 1407 'Tim
 e Stamp' (Gap time)
 (Gap Time) , 1407 'Time-stamp'
 1409 ,
 1409 , 1411 가
 , TG-Tx , BSC/SPHsdu가 (GW)
 'Time-Stamp' (BTS-a, BTS-b)
 , 'Time-Stamp' (Gap-time)
 (MS)
 4 (DT-Tx mode)
 15 DT-Tx (4) (SPHbts) DT
 -Tx 15 (SPHbts) 1501 (BSC/SPHs)
 , 1503 (BSC/SPHs)
 07 가 (Air Link)가 , 가 ,
 1509 가 , 1511 ,
 (MS) 가 가 , 1513
 'Dead-Line'
 , 1515
 가 , 1507 가
 , DT-Tx ,

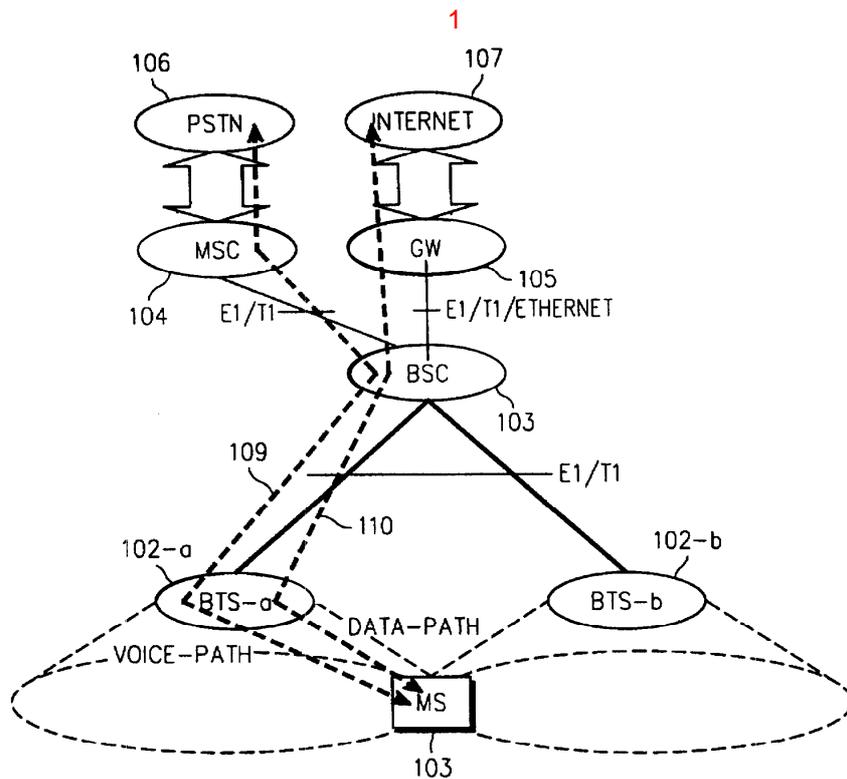
, BSC/SPHsdu (GW)
 'Dead-Line' (BT
 S-a/SPHbts BTS-b/SPHbts) , BTS-a/SPHbts BTS-b/SPHbts 'Dead
 -Line' , 'Dead-Line'
 5 (TFwtDT -Tx mode) 6 (TGwtDT -Tx mode)
 16 TFwtDT -Tx(5) TGwtDT -Tx (6) (SPHbts)
 , TFwtDT -Tx TGwtDT -Tx 가 , TGwtDT -Tx
 TG-Tx DT-Tx , TFwtDT -Tx TF-Tx DT-Tx , TGwtDT -Tx
 16 , 1603 (SPHbts) 1601 (BSC/SPHs) , 16
 05 , 1607 'Dead Line' ,
 , 1617 ,
 가 , 1609 가 , 1609 가 ,
 1607 가 , 1611 ,
 , 가 ,
 p' , TGwtDT -Tx , TFwtDT -Tx 'Time-Stamp' 'Time-Stamp'
 (Gap-Time) , 1613 ,
 (MS) , 1615 , 가 1607
 가 , TFwtDT -Tx TGwtDT -Tx , BSC/SPHsdu가 GW
 'Time-Stamp' ,
 'Dead-Line' 가 BTS-a/SPHbts BTS-b/SPHbts , BTS-a/SPHbts
 BTS-b/SPHbts 'Time-Stamp'
 'Dead-Line'
 , SPHsdu SPHbts
 18 (SPHbts)
 18 , (BTS/SPHbts) 1801 , 1803
 , 1805 (SEQ-scheme)
 'sequence' 가 , 1807 , 1811
 , 1811 가 1811
 (BSC/SPHsdu) , (MS) (BSC/SPHsdu)
 , (SEQ-Scheme) ,
 (BSC/SPHsdu) , (SPHsdu) 가
 , SEQ-scheme , BTS
 , SEQ-scheme ,
 가 , 'Sequence' , 가
 (SEQ-) ()
 19 (BSC/SPHsdu) , 19 SEQ
 -Scheme 19 (BSC/SPHsdu) 1901 , 1903
 , 1905 가
 , 1907 ,
 1901 가 , 1907 가 , 1907
 , 가 ,
 1909 가 (GW)
 , 19 'Sequence'
 (SPHsdu) Leg ,
 (GW) , (SPHsdu)

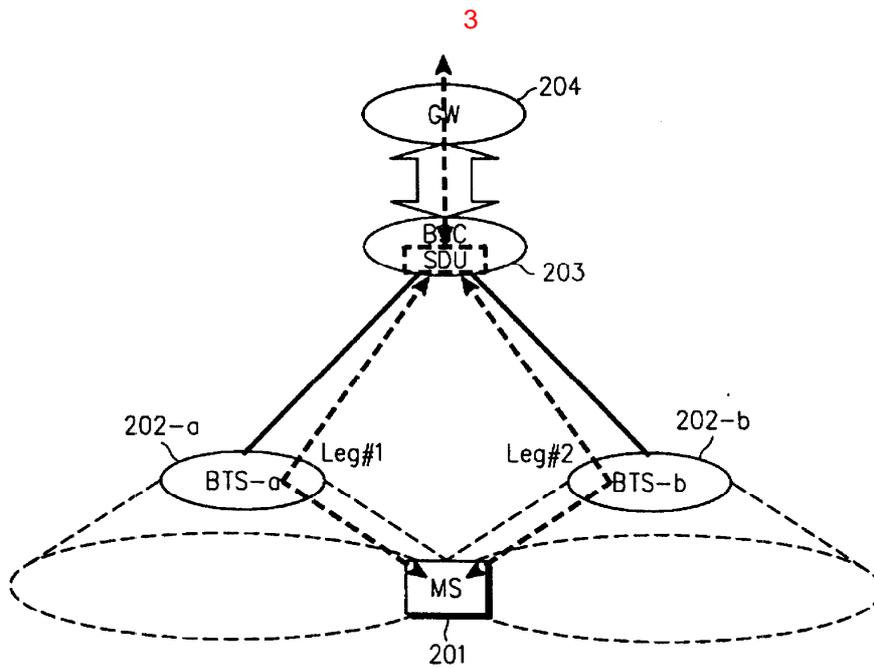
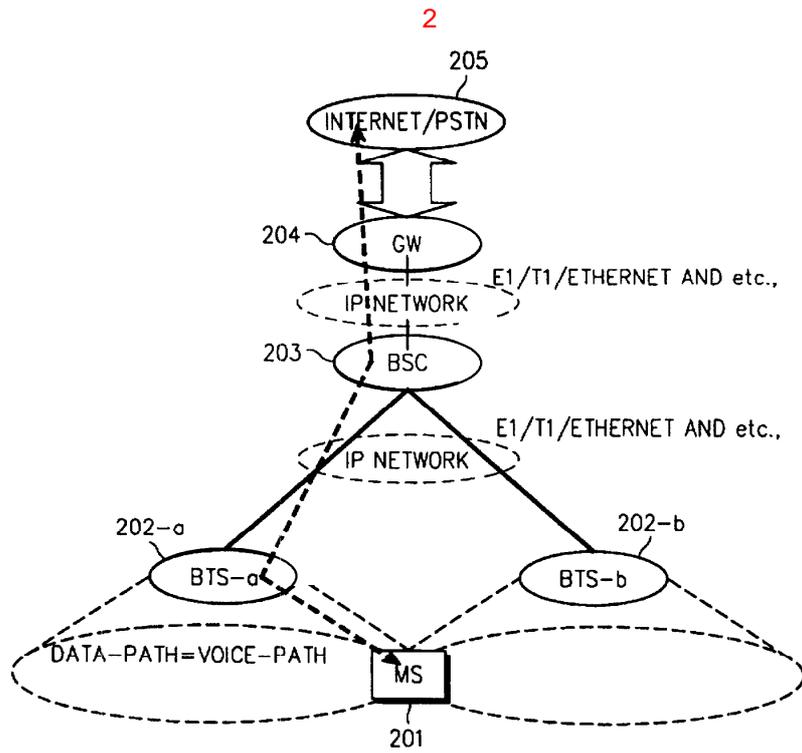
IS-95A/B IS-2000 Q-CELP/EVRC 20ms
 (SPHsdu) Leg
 . SPHsdu 가 , 가 . SPHsdu (GW)
 , SPHsdu 가 , 가
 , SPHsdu 가
 (GW)
 ()
 20 (BSC/SPHsdu) 20
 SEQ - Scheme 20 , (BSC/SPHsdu) 2001 , 2003 , 2005
 (RX-SEQ) ()
 2007 , 2013
 2001 , 2009 가 2007
 , 2011 , 20 (RX-SEQ) (GW) 가
 , 19 'non-SEQ scheme' 'Sequence' (BSC/SPHsdu)
 (GW) (RX-SEQ)
 (RX-SEQ)
 SPHsdu) 'SEQ - scheme' 'non-SEQ - scheme' non-SEQ - scheme (BSC/
 , (event-driven) , 'SEQ - scheme' (SPHbts) 가
 , BSC BTS 가 가 (trunk - eff
 SPHsdu SPHbts가 가 가
 GPS , NSP
 가 가
 , All-IP
 (legacy) , IP
 (flexible) , IP

(57)

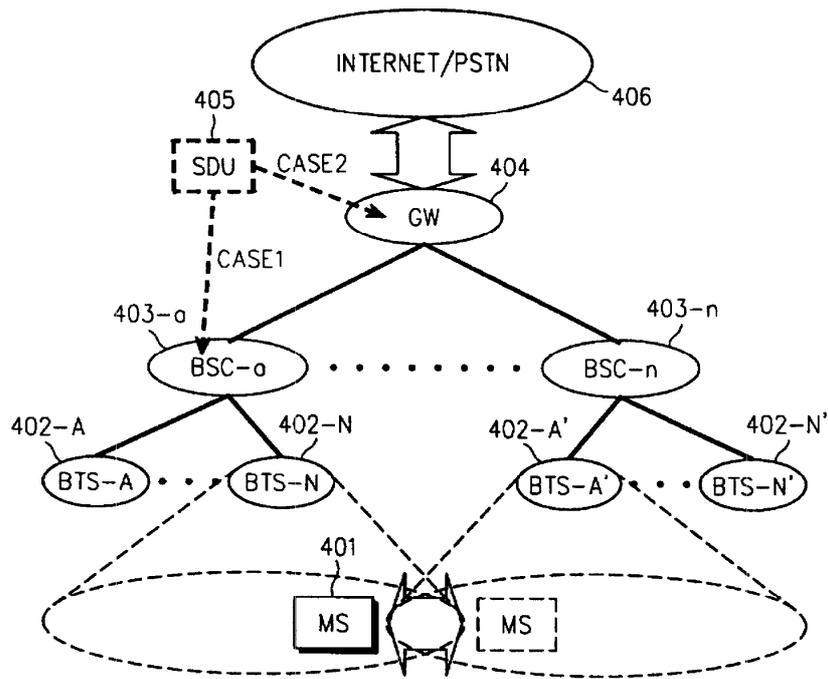
- 1.
- 2.
- 3.

가 가 , 가
가 가
37.
36 ,
38.
36 ,
39.
36 ,
가,
40.
41.
가,
가
가,
가
42.
36 ,

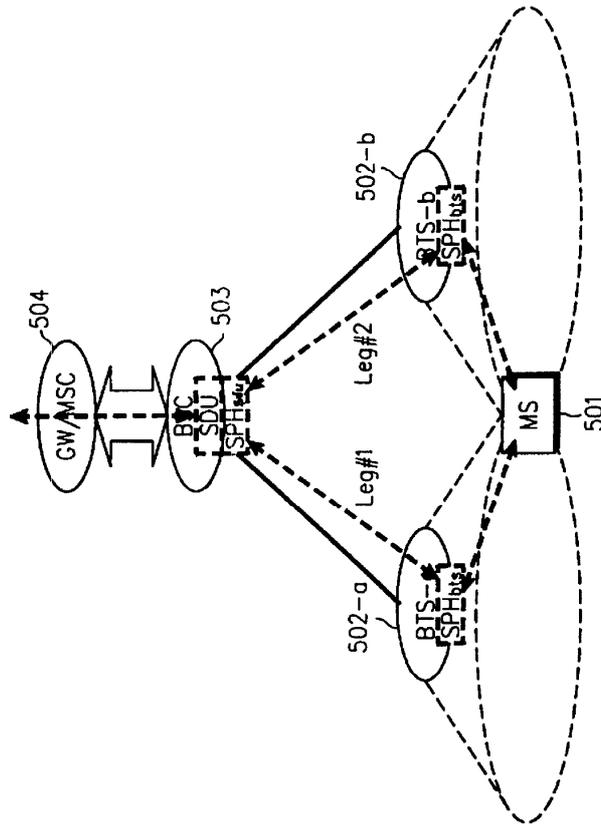


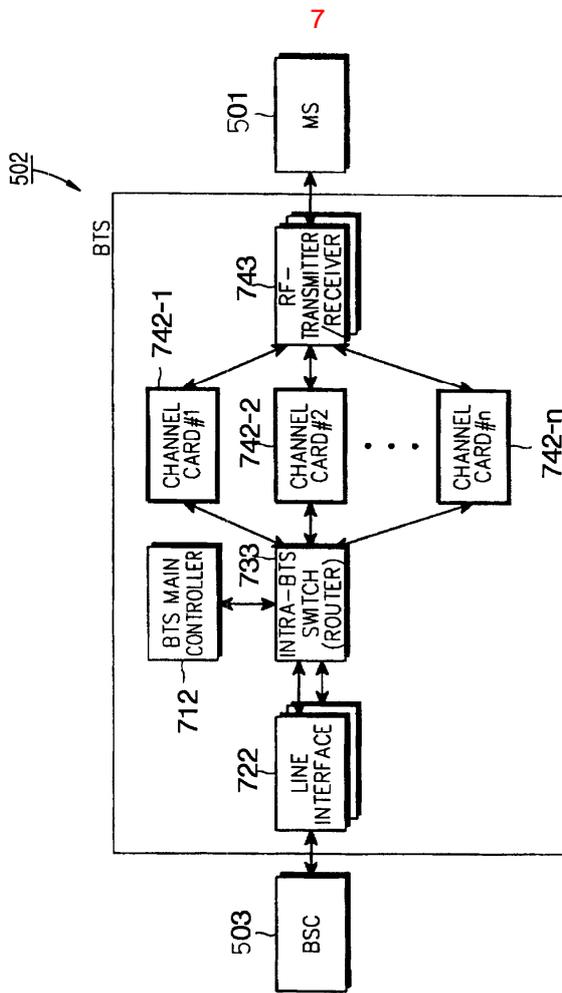
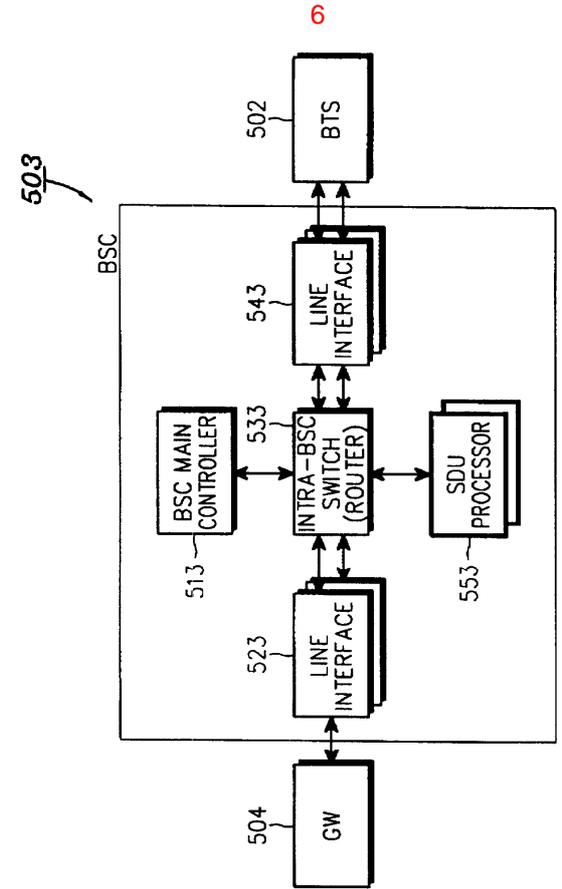


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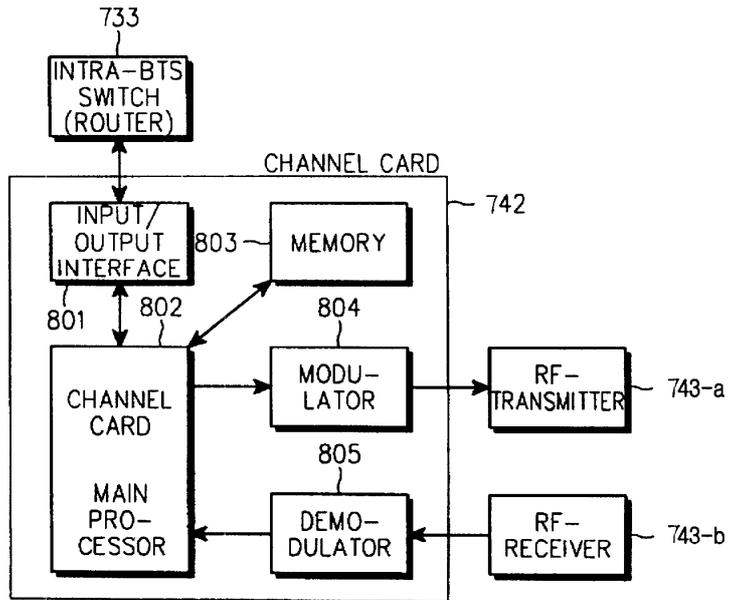


5

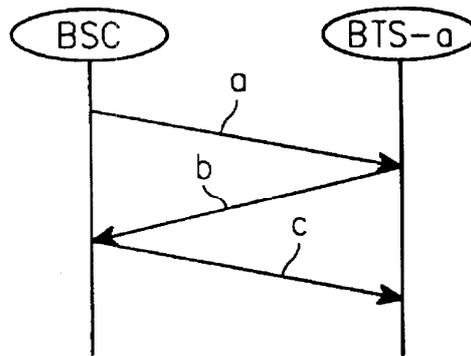




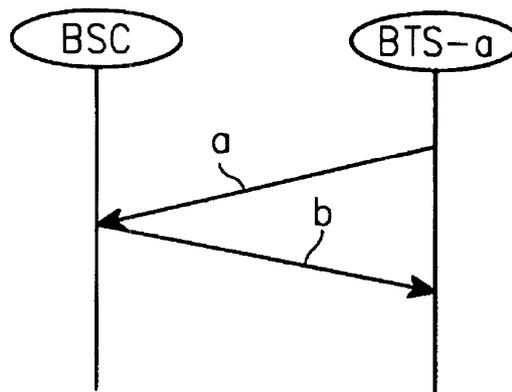
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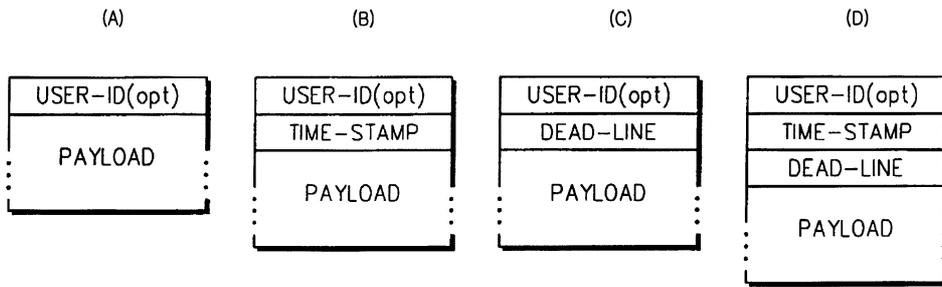
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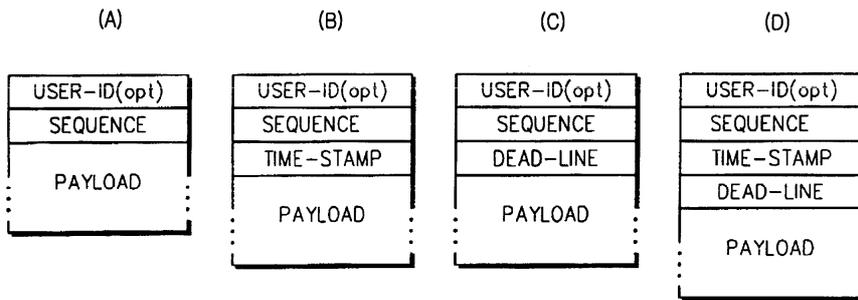
10b



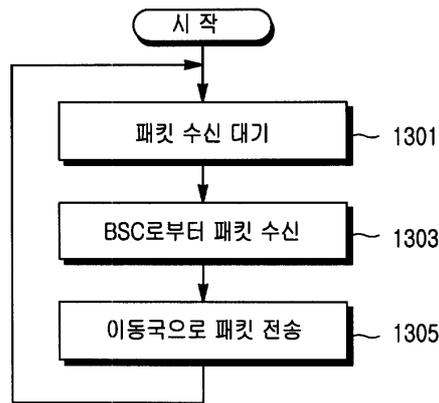
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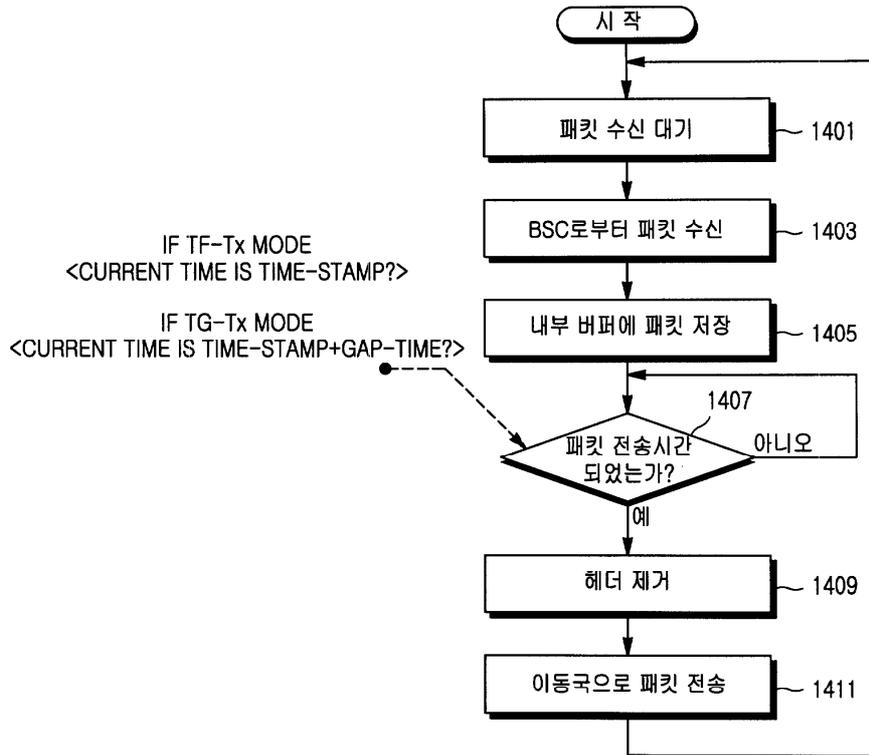
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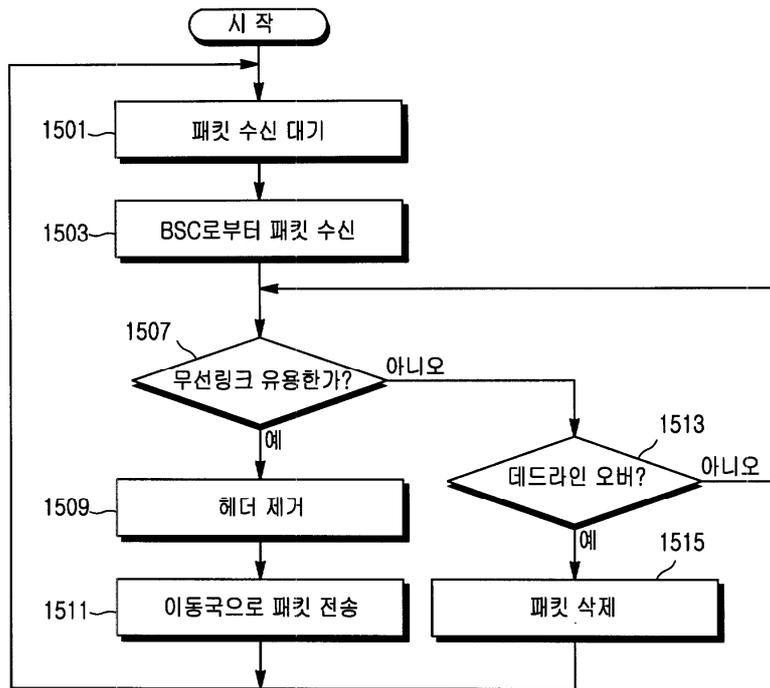
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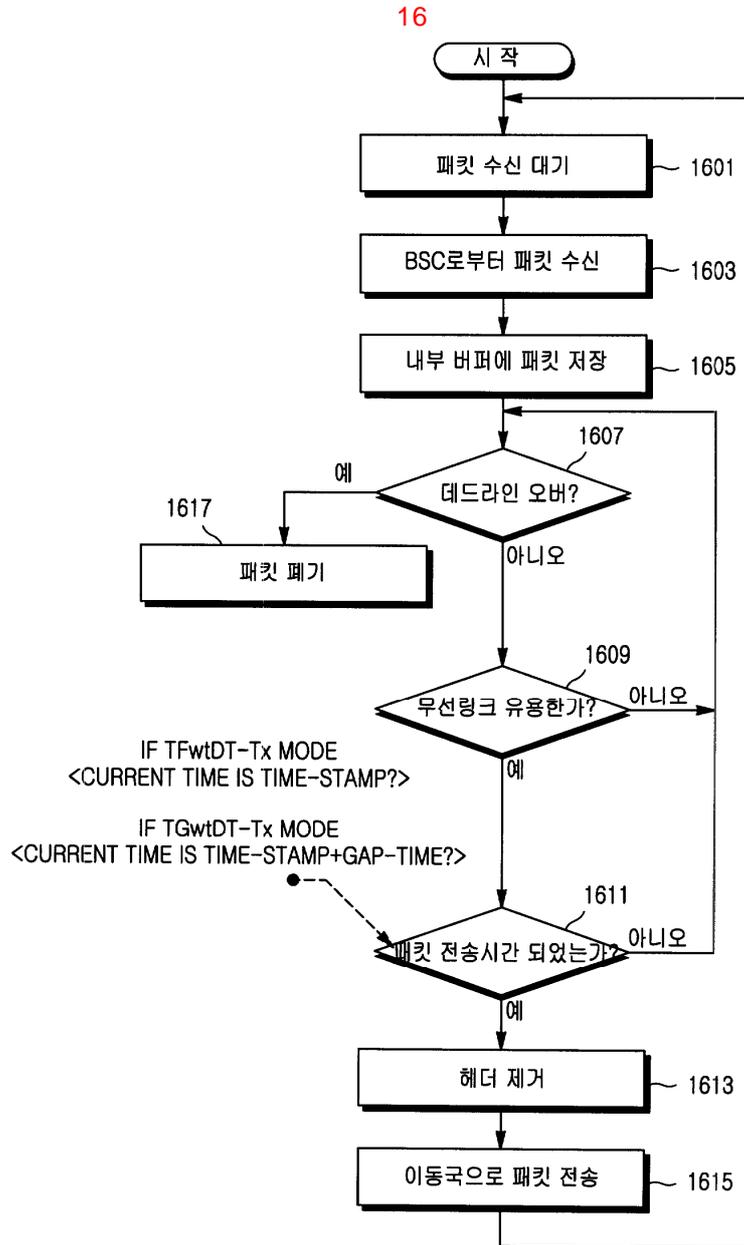


14

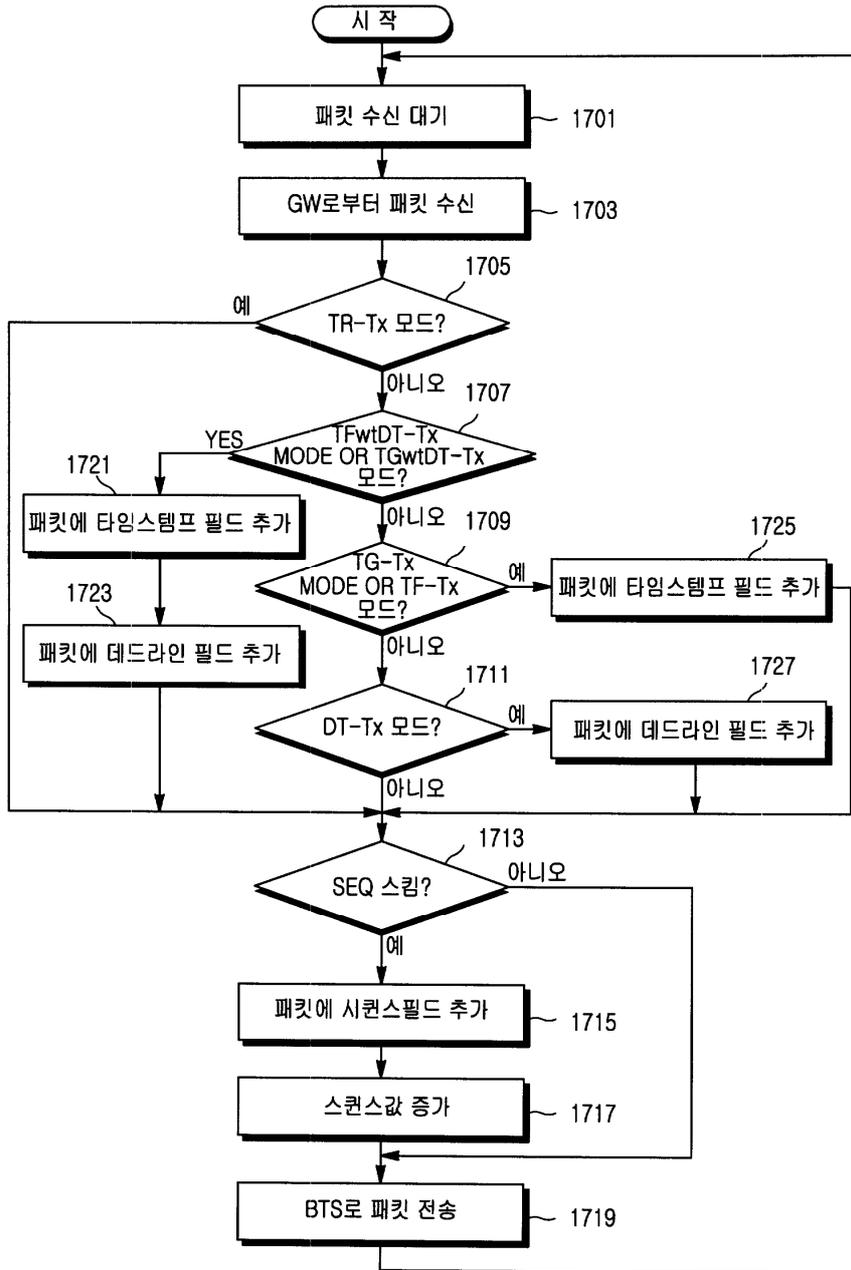


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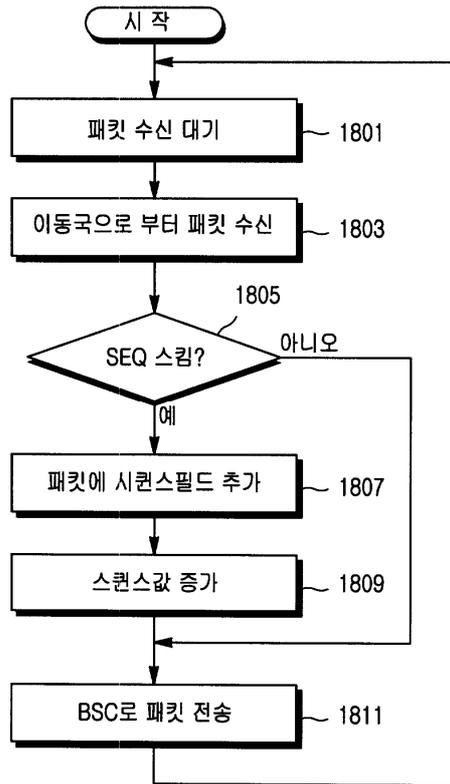




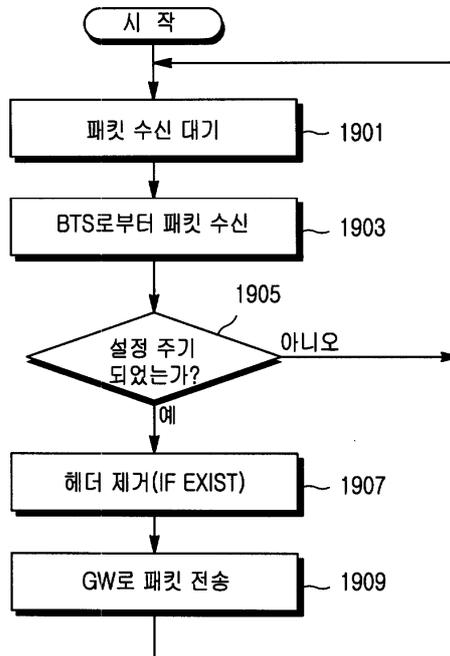
17



18



19



20

