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가 ; (1,2) / ;
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10

1 가 가
2 가
3 , 가

4
 5 4
 6 2G, , 3G A7
 7 2G, , 3G A3
 8 2G , 3G
 9 3G , 2G
 10 3G 2G

1 CAN CAN MAN ; CCIN ; 2
 PTHA, APGA GNP 1,2 ;
 (1,2)

(Base Station) (Mobile Station) 가 .
 (Base Transceiver Station: BTS
 (Call Mobility Management)
 (Base Sation Controller: BSC) 가 .
 (Mobile Base S
 Switching Center: MSC)
 tation Manager)가 가 .
 / IS-2000 , / 3G-IOS
 , / 가 IS-95 2G
 IMT-2000 3G
 2G () 3G () 가 , 3
 2 (Router)가 MSC 가 BSC
 MSC
 2G 3G 가 ,
 (Back-Born) 가 ,
 가 가

, (:2G) (:3G) Air Traffic Channel
 .
 3G , IPC / ATM , 2G ATM (backbone)
 , ATM 가 3G (Converting) ,
 , 2G .
 5 4
 5 A3 A7
 5 A3 A7
 , CITA 1,2 CCIN 2G
 , PTHA IPC Packet ATM(AAL5) Conversion, IPC Address/ATM Conne
 ction Conversion, Main Processor(GNP) Communication
 IPC Packet ATM AAL5 / ,
 , APGA ATM(AAL5) IPC packet Conversion, ATM Connection/IP
 C Address Conversion, Main Processor(GNP) Communication
 ATM AAL5 IPC Packet / ,
 , GNP , A7 Signaling , A3 Connection Setu
 p/Release (svc connection), Local Communication Channel Device(PTHA, APGA)
 , A7 ATM AAL5 TCP/IP /
 ASIA 1,2 CAN 3G
 A3 CITA, PTHA, APGA, ASIA , A7 CITA, PTHA, APGA, ASIA, GNP, ASIA
 6 2G, , 3G A7
 , 3G (STM1), ATM , AAL5 , TCP/IP
 2G (E1/T1), IPC(Inter Processor Communication)
 (E1/T1/STM1), IPC , ATM , AAL5 , TCP/IP
 , 2G 3G TCP/IP ATM ,
 2G IPC ATM , 3G
 TCP/IP IPC
 , (TCP/IP ATM ATM TCP/IP
 A3 Connection SVC A3 Connection SVC A3)
 , ()
 7 2G, , 3G A3
 7 3G 6 ATM 2G IPC
 2G A3 Connection 2G SVC IPC 3G ATM
 A3 Connection SVC
 , A7
 2G IP IP , IP , Signal ID, Source ,

CNP , NCP , NCP , CCP ,

Handoff Request Ack Message ATM 3G CCP SLP , SLP
 CH time sync

SLP HDM(Handoff Direction Message) , MS Ack Order , CH
 HCM(Handoff Completion Message) , SLP BS Ack Order

SLP (Soft-Add)가 CCP

10 3G 2G
 3G , SLP PSMM(Pilot Strength Measurement Message) BSC (i
 nter-BSC handoff) CCP (2G
 3G) . (

101,102,103)
 PLD(programming loading data) CCP 가

3G , 3G
 2G Handoff Request
 Message() . (104,105).

Handoff Request Message ,
 가
 Target Source , Targe
 t 2G MSC (MSC ID),BSC (BSC ID,BSC address),BTS (BTS ID,Sec
 tor ID), (2G),Task (Task ID) , Source 3G
 MSC (MSC ID),BSC (BSC ID,BSC address), (3G),Task (Task ID)
 , Signal ID

pilot strength,pn phase
 Handoff Request Message Gateway 6
 2G CCP , Gateway Handoff Request Message
 Target 2G
 Signal ID Handoff Request Message Signal ID . (106).
 Handoff Request Message 2G CCP
 가 2G
 CCP Handoff Request Acknowledgement Message . (107).
 Handoff Request Acknowledgement Message
 가
 e 3G , Source 2G 가 Handoff Request Messag
 (TCH ID, Walsh
 Code)

Handoff Request Acknowledgement Message Gateway , 3G
 CCP
 , Gateway Handoff Request Acknowledge Message Target
 3G ID
 HandoffRequest Acknowledge Message Signal ID . (108).
 Handoff Request Acknowledgement Message 3G CCP
 Handoff Request Message Acknowledgement
 가 3G . (109).
 10 2G 3G
 (1,2)
 / 가 , /

/

(57)

1.
 - 1 CAN CAN / CCIN MAN ; 2 ; 1,2
PTHA, APGA GNP
2.
 - 1 , GNP , A7 Signaling , A3 Connection Setup/
Release (svc connection), Local Communication Channel Device(PTHA.APGA) ;
3.
 - 1 , APGA , ATM(AAL5) IPC packet Conversion, ATM Connection/IPC
Address Conversion, Main Processor(GNP) Communication ;
4.
 - 1 , PTHA IPC Packet ATM(AAL5) Conversion, IPC Address/ATM Con
nection Conversion, Main Processor(GNP) Communication ;
5.
 - 2 , GNP A7 ATM AAL5 TCP/IP /
6.
 - 3 , APGA ATM AAL5 IPC Packet
/ ,
7.
 - 4 , PTHA IPC Packet ATM AAL5
/ ,
8.
 - (1,2) / 가
; /
1 ;
2 ;
1 ;
9.
 - 8 가 ,
10.
 - 8 , IPC PACKET ATM
ATM IPC PACKET
11.
 - 8 , IP , Source , Task ID, IP Task ID
- 12.

11 , IP ID

8 **13.** , IP Source , Task ID, Task ID IP IP

8 **14.** , IP Source , Task ID, Task ID IP IP

8 **15.** , IPC Task ID IPC IPC

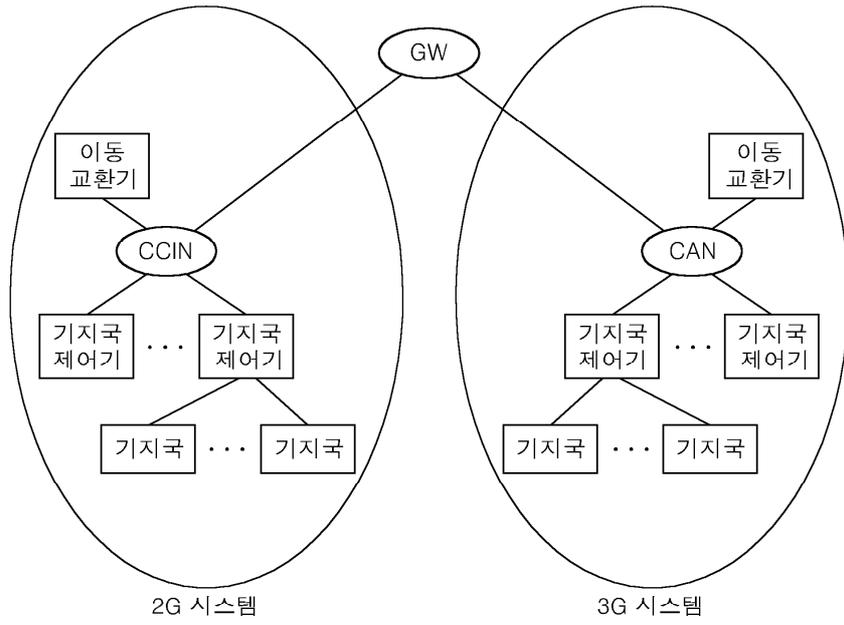
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- 2 ;
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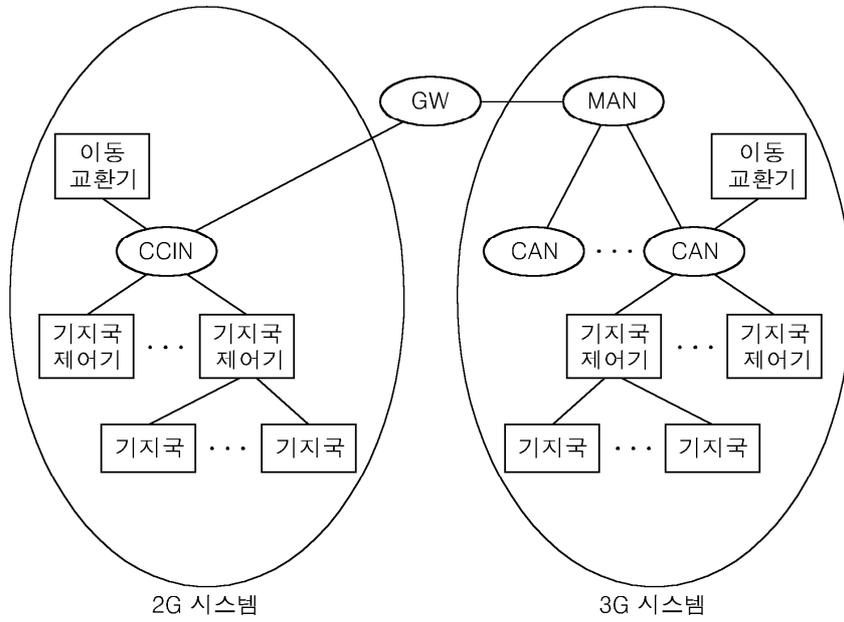
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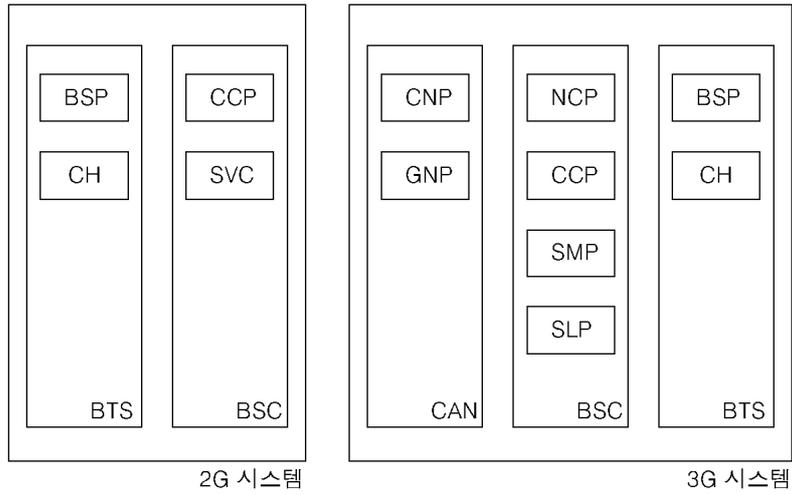
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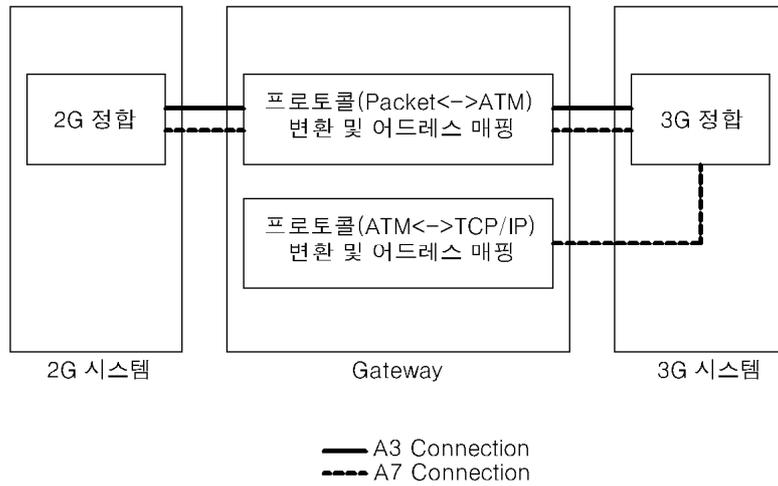
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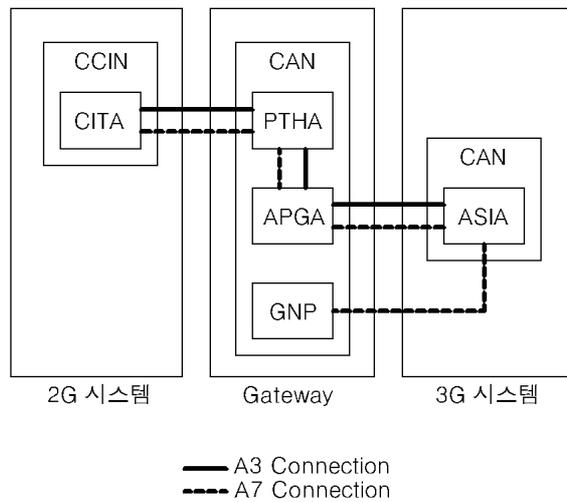
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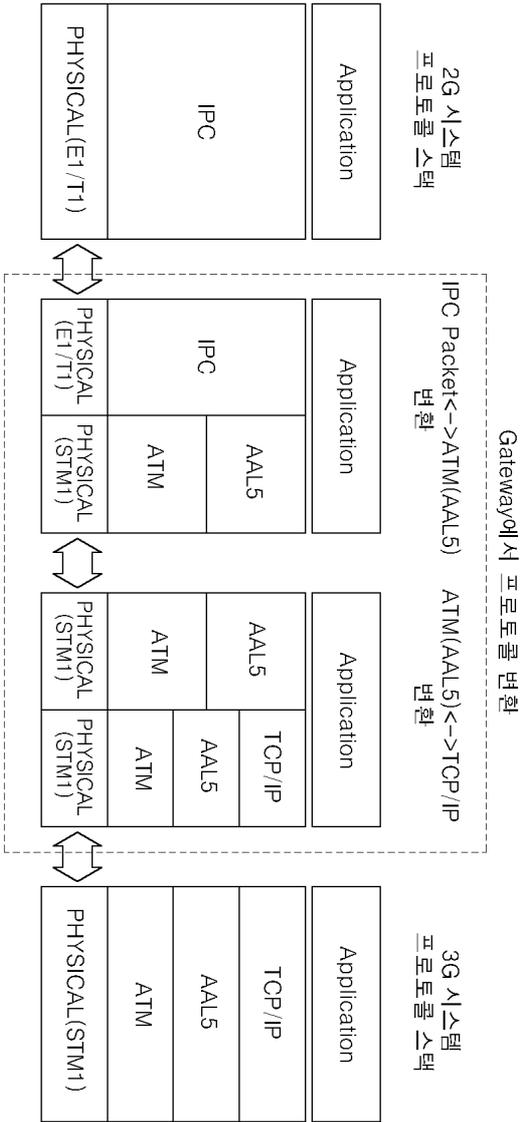
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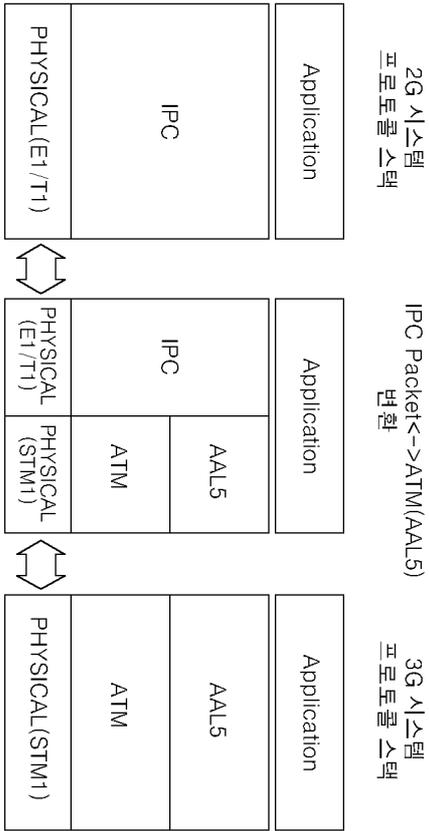
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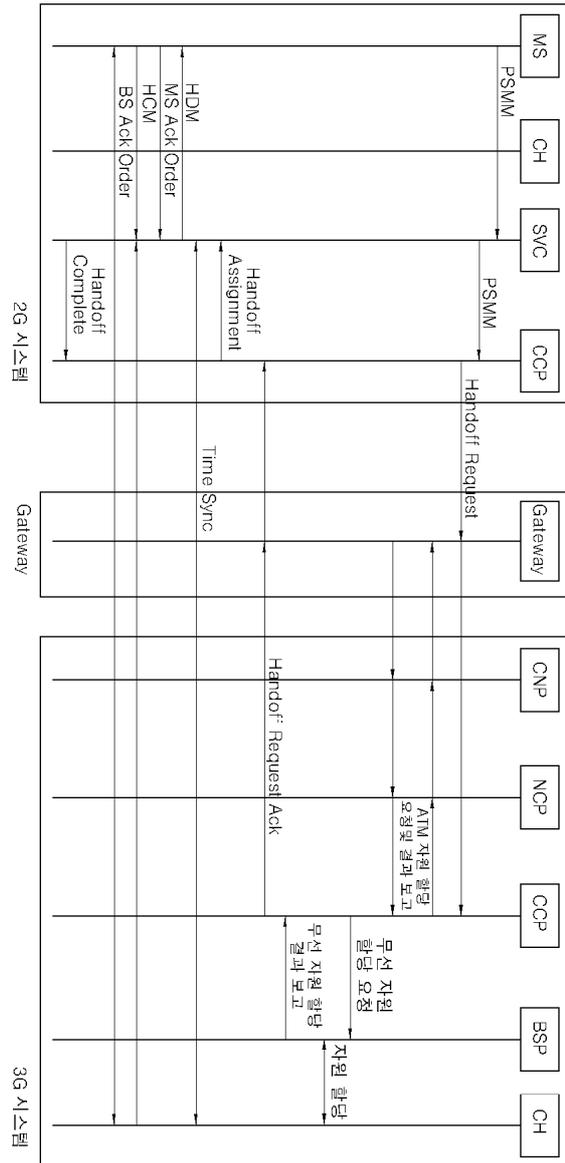


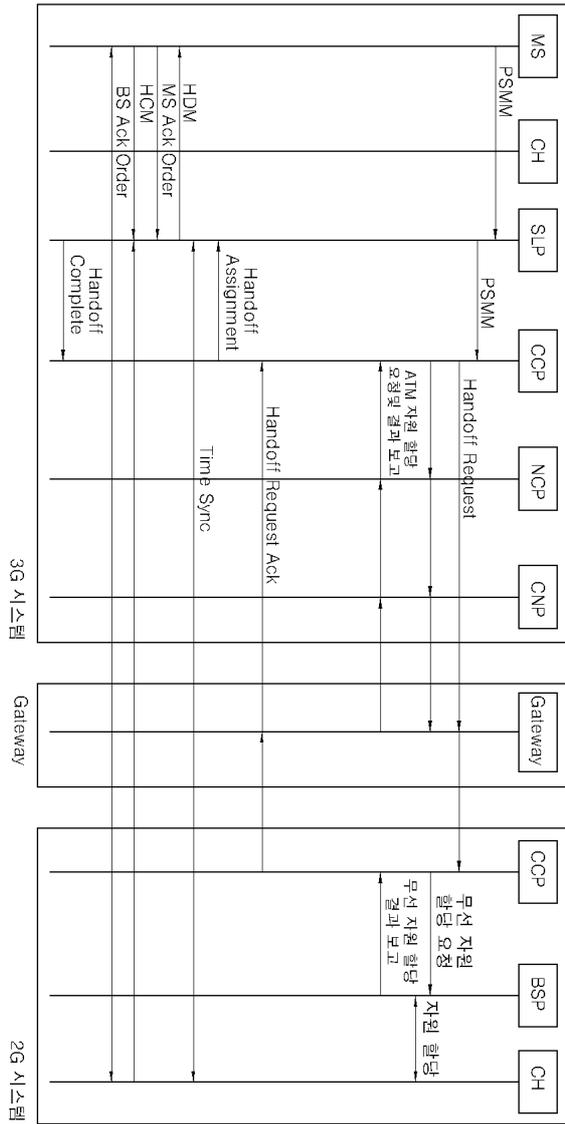
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