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(21) 10-2002-0014239
(22) 2002 03 15

(71) 17-767 (18/6) 2 -2

(72) 1 2315 702

3 209 601

17-767 (18/6) 2 -2

:

(54)

IP ; ;
IP ; ;
IP / ; ; ;

3

1

2

3

가 ON CMS

4

1

5

2

6

7

1

, TV

TV 가

ITU-T Standard H.324

PSTN

, LCD

가

가

가

TV

10-1995-0047237 '

1

, TV

'

1)

, MPEG,

, A/D

가

, TV

가

1

0-1996-0004853)

'

1

10-1998-0016313),'

, TV,

'

1

A

B

가

DTMF

B

가 가

(Internet Protocol Address)

(Destination)

IP

LAN

Dial-up Modem

ADSL

ADSL

IP

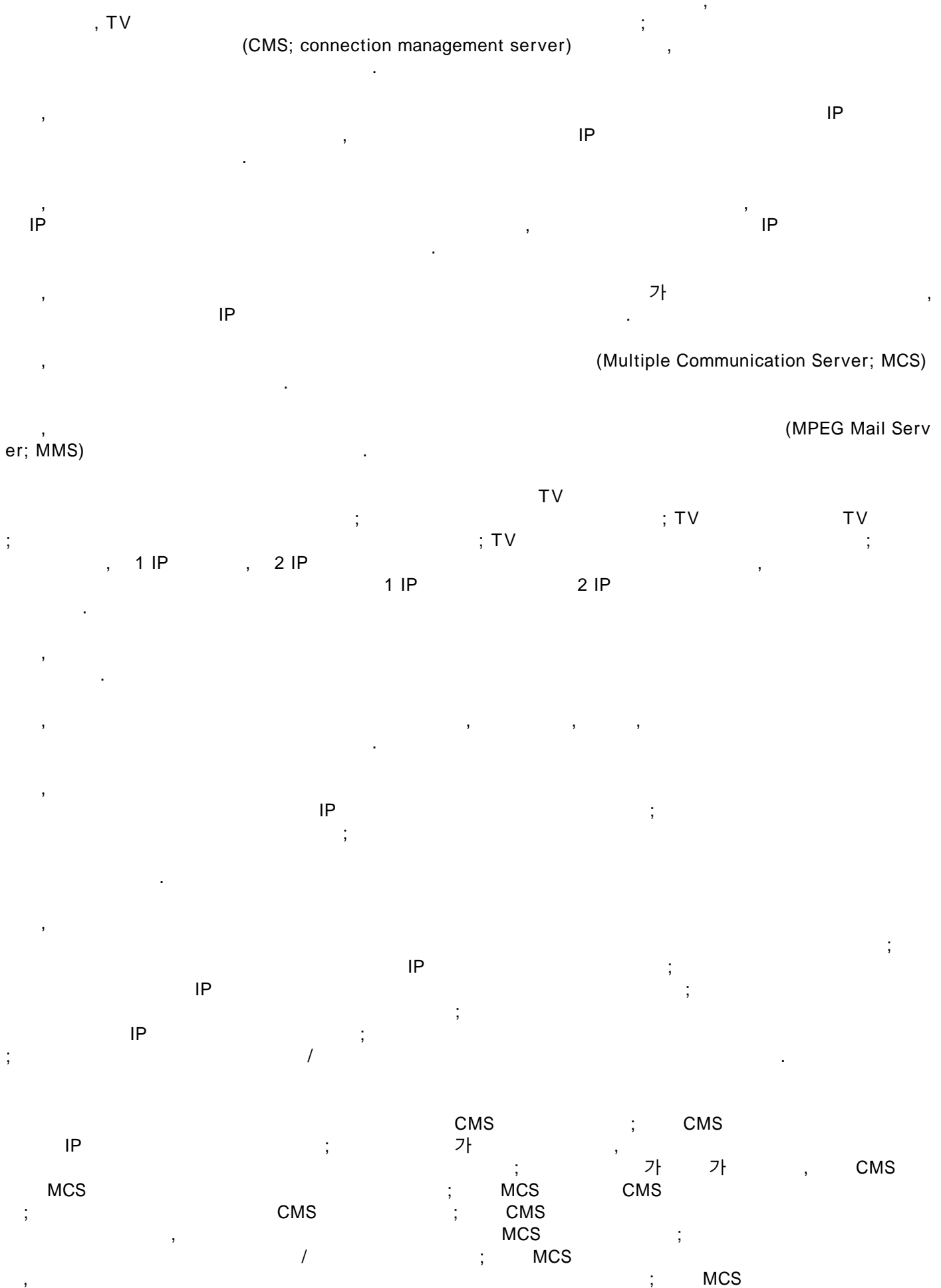
PPPoE

PPPoA

가

IP

IP



/ ; ; / CMS
 ; CMS ; , MCS ; CMS
 가 DB ; ; MCS 가 ; CMS
 MCS / ; / .
 ; ; 가
 (Mpeg mail server) ; MMS ;
 ; ; MMS ;
 MMS .
 ; 가 ; MMS / ; CMS
 , , MMS ; MMS
 / , , ; MMS
 MMS ; MMS ;
 .
 가 ; IP ; ;
 ; IP ; ;
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 , , IP ; ;
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 ; 가 2
 ; 2 2 2 IP IP ; ;
 2 2 IP ; ;
 2 2 IP ; 2 /
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 ; CMS ; CMS IP
 ; 가 , 가 가 , CMS ; MCS CMS
 ; ; MCS CMS ; ; CMS
 ; ; MCS ; ; /
 ; MCS ; ; / ;
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가 , CMS ; CMS
 ; MCS ; CMS ; DB
 / ; / ;
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 CMS ; MCS ; (MCS) /
 ; ; CMS ; CMS
 ; CMS ; CHS MCS 가 ;
 CMS / ; /
 MCS .

TV 가 ADSL

- 1) , 2) , 3) , 4)
- , 5)

1)
 1
 (100) (101), CPU(102),
 (103), (104), (105),
 (106), (108), (110), D/A (109, 111),
 (112), (113), (114),
 A/D (115), (116), (117),
 A/D (118), (119), (123, 124), TV TV (10
 (120), (122), (121)

(118), (119) (117), A/D
 (114), A/D (115),
 (116) (114), A/D (115)
 (116) (123 124) (101)

가 (101)
 D/A (109 111) (104, 105) , (108 110)
 D/A 가 (112) (113)
 1:1 (112) (113) (123) 5) 가
 (112) TV OSD(124)

(106) (CMS)
 (IP)
 (106)

(106)

CPU(102)

2)

가 ISP IP 가 가 IP
 (, 02-123-4567)
 가

IP ON
 IP 가
 IP IP IP

2 (Mpeg Mail Server; MMS), (A, B, C, D) (CMS),
 (Multiple Communication Server; MCS)

1 (120) (connection man
 agement server; CMS) IP , CMS
 가 , CMS , IP가 211. 102. 133. 23 (Phone number)가 02-123-4567

[1]

PHONE NUMBER	IP ADDRESS	STATUS
02-123-4567	211.102.133.23	Free
...	...	Busy -1
...	...	Busy -2
...

02-123-4567 , CMS IP 211.102,133.23
 el) , 가 CMS TCP/IP (kern
 , PtoP(Peer to Peer)

02-123-4567 가 IP CMS IP가 (, OFF ON
) 가 가

3 가 ON CMS

ON (Power On Self Test) IP IP
 , CMS (Ack signal)

ON (address book) 가 CMS (status) 가
 CMS

ON IP 가

3)

4 5 A B 4 Peer to Peer (Multiple Communication Server; MCS)

가 CMS (A B) , CMS DB IP (B) (on-line) 가

가 (disconnect signal) B

가 , MCS (120) (A가 B) 5

가 , CMS DB B가 on-line 가 가

가 CMS MCS , MCS

가 , CMS A MCS /

가 , CMS B MCS (MCS)

가) , A B가 , CMS DB FREE() B BUSY-1(1

가 MCS 가 , MCS

가 , MCS DB BUSY-1 FREE

4)

MMS(mpeg mail sever) 가 . MMS

6

2 가

Mix MMS TV 1 가

가 , MMS , CMS , MMS 가

가 , MMS , MMS (Ack signal) MMS 가

CMS 가 3 MMS , MMS 가

ON , MMS

5)

3) 1:1 3 / 6 D/A 1 (112) (113 , P (Multiple Com

) 3) 가 2가

Peer to Peer munication Server; MCS

2가 , 3 , 1:1 , 1:

1 1:1 2 가 , 1:1 , 1:

가 , Peer to Peer 1:1 2 , 1:1

(Multiple Communication Server; MCS)

1:1

1:1 4 3) , A가 가

, CMS IP IP 3 (C) CMS 가

C C A A B 3 A 가 on-line C IP 가 가 B 가

C , A B C , A, B C가 가

(7)

2 , B 4 1:1 , C 2 B

A, B C가 C가 가

1:1 1:1 2

(B C가 B 가), B , A가 B C 가

, A , A, B C가 C 가 , C

, 가

, 가 MCS(Multiple Communication

Server) , 가 .

, ' MCS 1:1

1:1 5 3) (106) . , A가 (

120) MS DB B가 on-line 가가 , C

CMS MCS A , MCS 가가

CMS MCS A , MCS A , CMS M

CS A B / MCS (MCS)

, B / CMS , CMS

, A MCS B가 DB FREE() BUSY-1(1) MCS

, CMS A B / 1:1 가 ,

A가 C , CMS A C C 1:1 MCS (MCS

) C MCS A / B /

C , CMS A, B MCS

C가 DB BUSY-2(2) 가 , A, B , CMS C

MCS 가 MCS DB BUSY-2 FREE

, ,

, ADSL / / 가 가 ADSL / /

, 가 가 , 가 .

(57)

1.

, TV

(CMS; connection management server)

1 2. , IP IP

1 3. , IP IP

2 4. 3 IP 가 ,

1 5. (Multiple Communication Server; MCS)

1 6. (Mpeg Mail Server; MMS)

7. TV ;
TV TV ;
TV ;
1 IP , 2 IP ;

1 IP 2 IP

7 8. ,

7 9. , , , ,

7 10. , IP ,

11.

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IP

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IP

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IP

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12.

1

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CMS

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CMS

IP

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CMS

MCS

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MCS

CMS

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CMS

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CMS , , 가 MCS ; 가
 , DB ;
 CMS DB ;
 MCS / , MCS /

13.

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 가 (Mpeg mail server) ;
 MMS ;
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 MMS ;
 MMS

14.

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 가 ;
 MMS / ;
 CMS , , MMS ;
 MMS ; / , , ;
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CMS ;

CMS IP ;

가 ; ,

가 가 , CMS MCS ;

MCS CMS ;

CMS ;

CMS MCS ; ,

/ ;

MCS ; ,

MCS / ;

/ ;

, CMS ;

CMS , , 가 MCS ; 가

CMS DB ;

MCS / , MCS /

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CMS , MCS (MCS)

MCS ; / /

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, CMS ;

CMS ;

CMS MCS ;

CMS 가 ;

CMS ;

MCS

18.

7

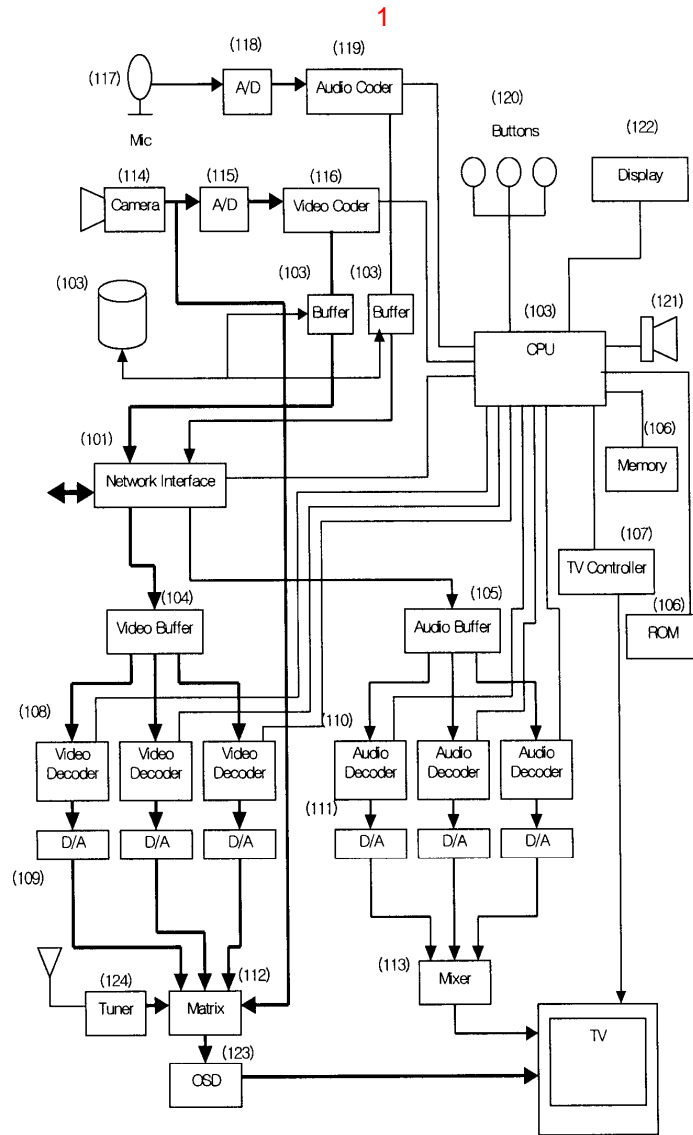
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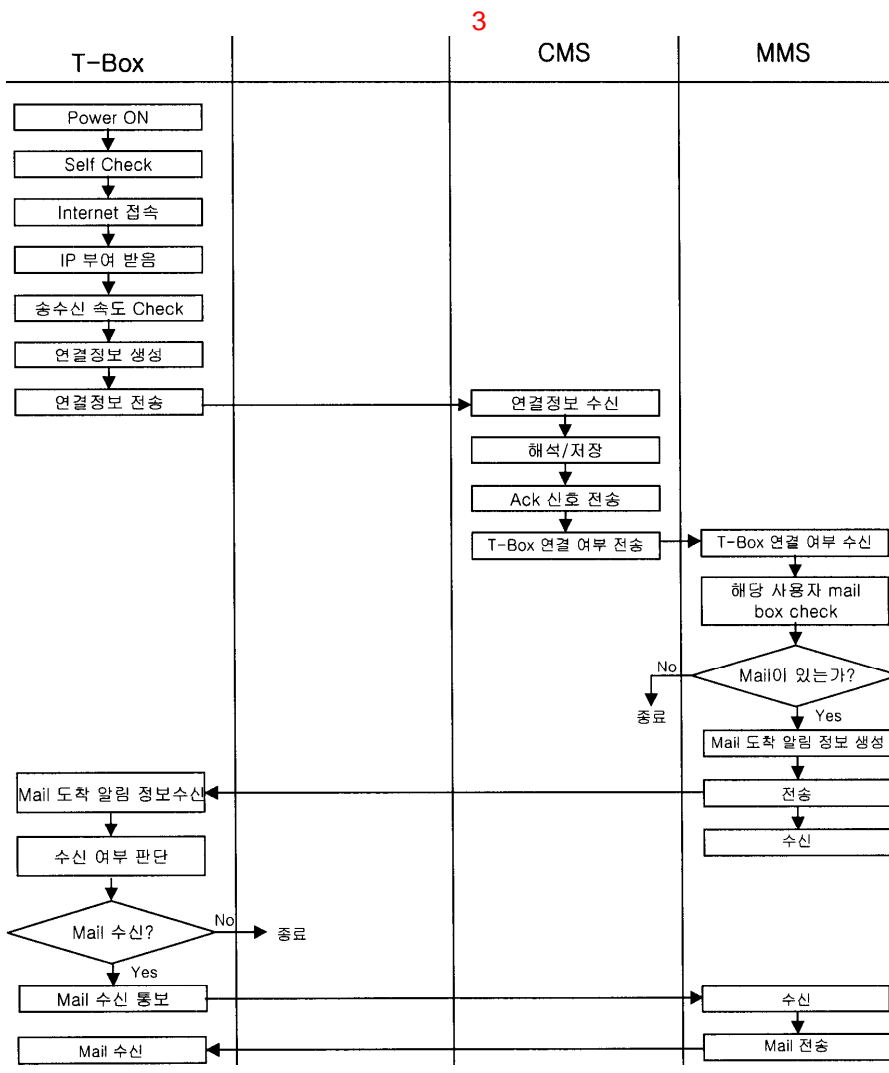
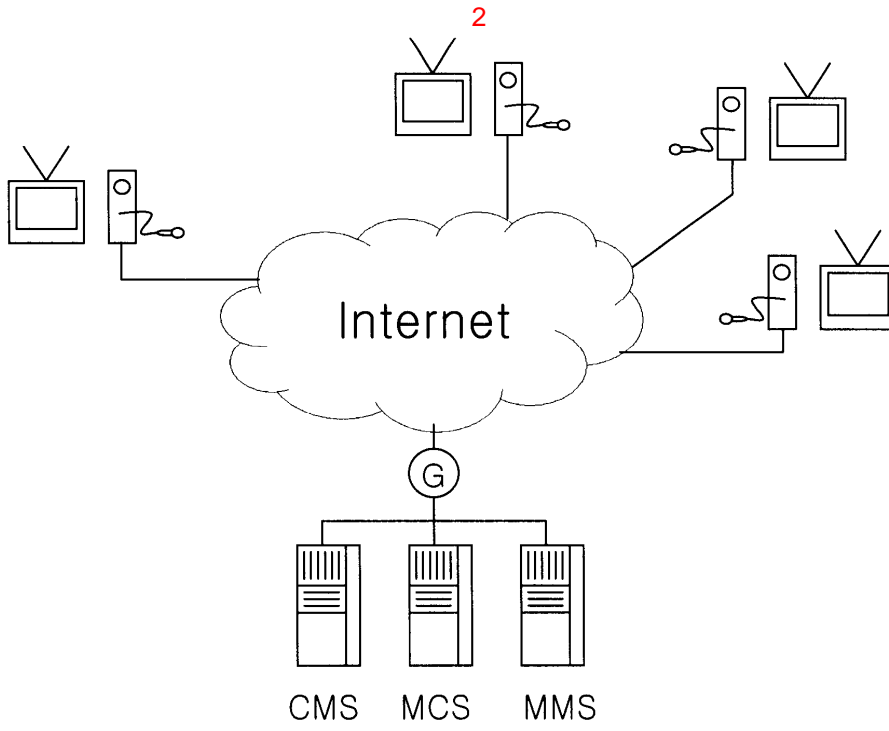
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20.

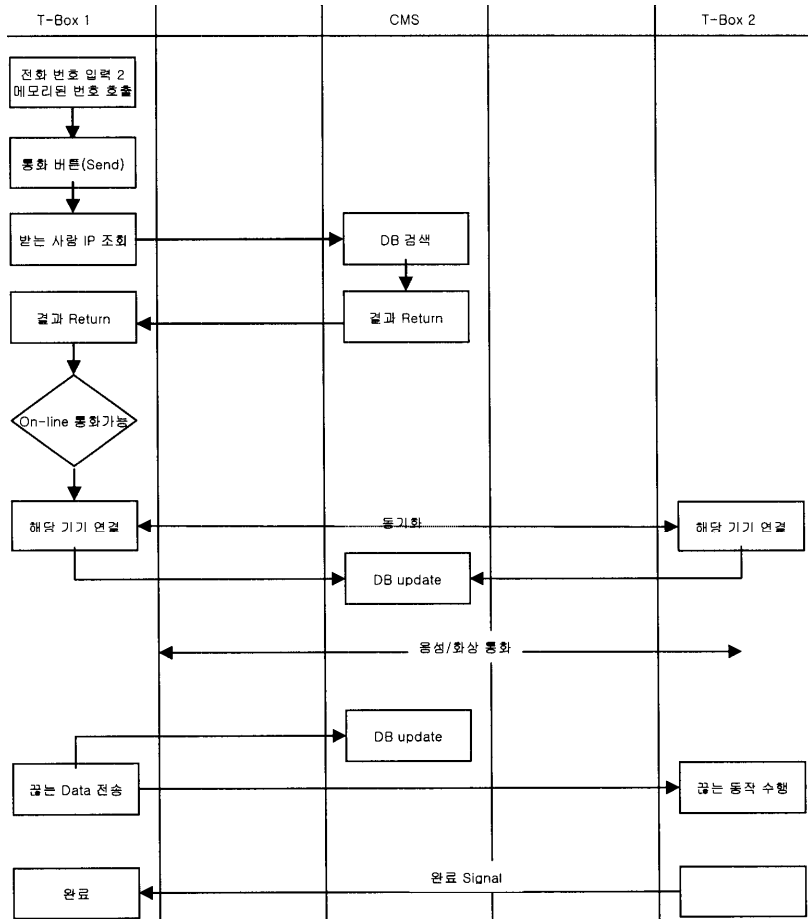
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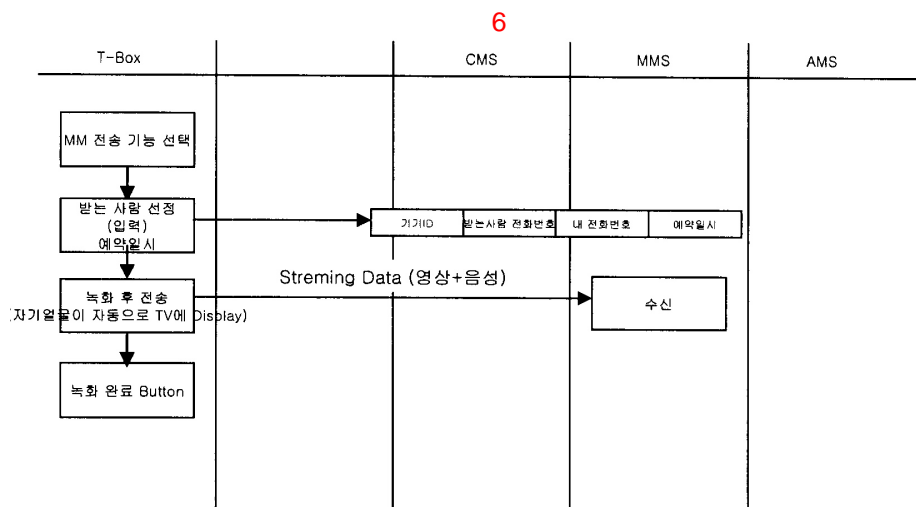
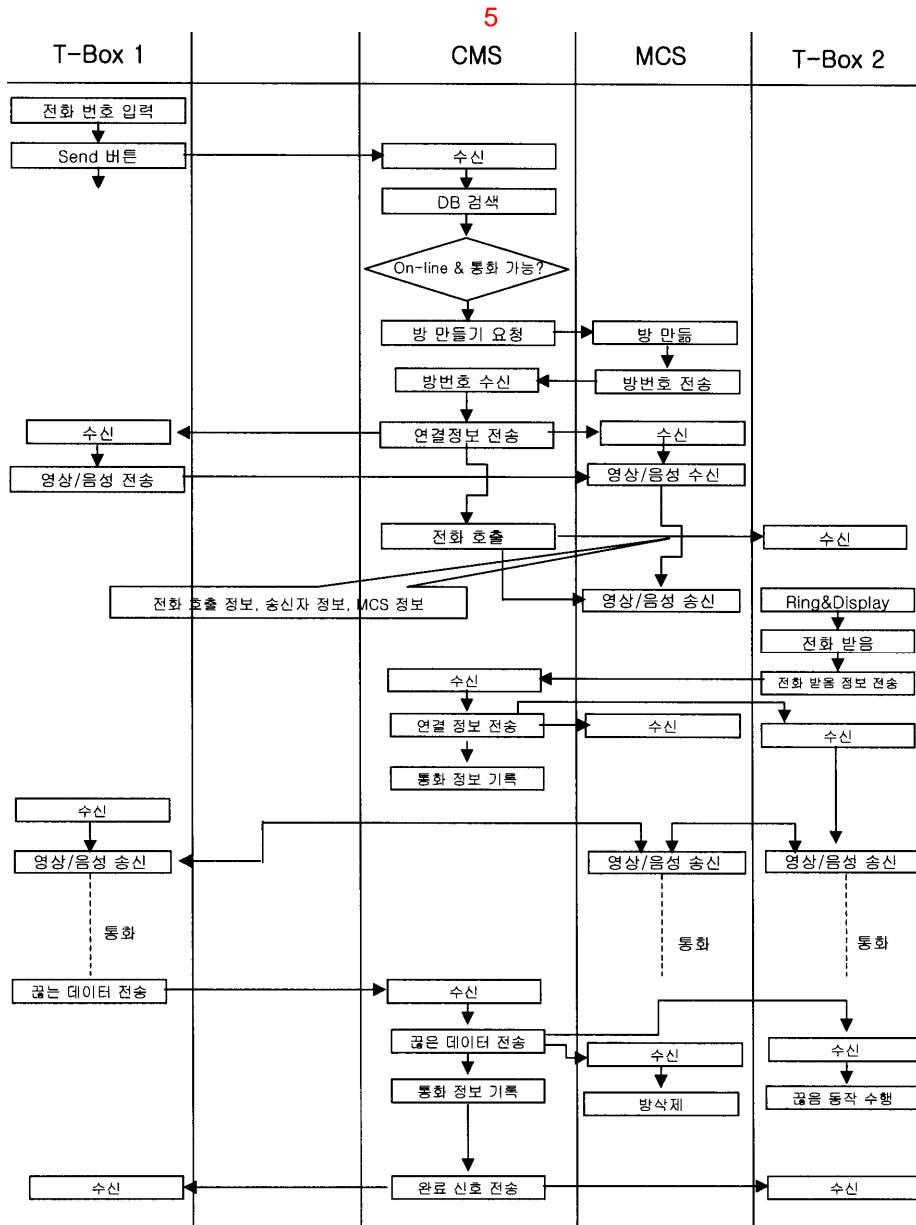
ADSL





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