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10-2004-0107221  
2004 12 20

(21) 10-2003-0038228  
(22) 2003 06 13

(71) 20

(72) 2 3 310 103

(74)  
:

(54) 가

SP:Virtual Signal Point) Signaling 가 , Signal 가 , (V 가  
4096 가

가 (TCAP), , MTP1, MTP2, MTP3, ITU-T Q.7xx (SCCP), 가  
, MTP3 MDC/MR SRM

가,

3

, 가

1 ISUP

2 VSP ISUP  
 3  
 4  
 5 NR(Network Routing)  
 6

:Virtual Signal Point) Signaling 가 , Signal 가 (VSP 가  
 4096 가  
 Narrowband MTP(Message Transfer Part, 'MTP' )  
 가 ITU-T Q.700  
 4096 가 4096 Broadband

ISUP ISUP MTP가  
 1:1 SAP(Service Access Point)  
 Signal Point 1:1 ISUP MTP Signal Point 1:1

1 N-Band ISUP N-Band MTP ISUP(TUP )  
 4096 (ASP:Adjacent Signal Point) (CIC:Circuit Index Code)가 12bit  
 (OSP:Own Signal Point) 가

OSI OSI Layer3 MTP3 Layer4 Layer7 ISUP  
 MTP3 SNM(Signal Network Management) SMH(Signal  
 Message Handling) . SNM(Signal Network Management) / /  
 SMH(Signal Message Handling) / /

3 (Protocol Stack) ISUP/TUP SCCP(Signaling Connection Con  
 trol Part),TCAP(Transaction Capabilities Application Part) MTP ISUP  
 가 . MTP MAP, ISUP/TUP  
 가

MTP3  
 MDC(Message Discrimination)/MR(Message Routing)  
 SR MD(Message D  
 istribution) . MD(Message Distribution) 가 ISUP ISUP

ISUP 가  
 ISUP (CIC) (0-4095)  
 ISUP DSP(Destination Signal Point) MTP DSP(Destination Signal Point)  
 (Setup) DSP(Destination Signal Point) (CIC:Circuit Index Code)  
 (DSP) MTP3 SMH(Signal Message Handling) MD(Message Distribution)  
 (ASP) 16 SLM(Signaling Link Management)  
 SRM(Signaling Route Management),  
 STM(Signaling Traffic Management) (OSP Restart),  
 (ASP Restart) 가  
 MDC(Message Discrimination)/MR(Message Routing)  
 (OSP) (ASP) Link Set  
 , 16  
 ISUP ASP 12bit (CIC) 4096  
 ISUP ISUP MTP가  
 Signal Signal 1:1 SAP(Service Access Point)  
 1:1 가 Signal Point 1:1 ISUP MTP Signal Point  
 , 4096 12bit  
 CIC 4096  
 4096 가  
 100000 가  
 IMT-2000 GSM  
 가 가 ITU-T Q.7  
 xx 4096 (VSP)  
 가 4096 Broadband  
 가  
 ITU-T Q.7xx

MTP1, MTP2, MTP3, (SCCP), (TCAP), MT  
P3 MDC/MR SRM , ,

(DPC) MTP3 가 MDC/MR 가 ,  
(VPC)

가 MTP3 MDC/MR 가 (VSP) SRM P-TFP  
(VSP) 가

가 , 가 ,

2 가 가 (VSP) , 가 (VSP)  
Signaling 가 가 (VSP) N 가 (VSP) Signal 가 N\*4096 (VSP) 4096

3 가 (VSP) 가 S/W DA  
TA TABLE 가 . 가

SP(Signal Point) MTP 가 가 .  
가 가 (VSP)

가 U-T Q.7xx VSP+DSP 가 (VSP) IT  
(OSP)

가 가 가 (VSP) 가 (OSP) 가 (DPC) 가  
, 가 (VSP) 가 (VSP) 가

3 (OSP) 가 (VSP)  
, Network  
가 DATA TABLE

4

가 (DPC) MDC(Message Discrimination)/MR(Message Routing) SR MD(Messag  
가 (VPC) 가 (VPC) MD(Message Distribution) . MD(Messag

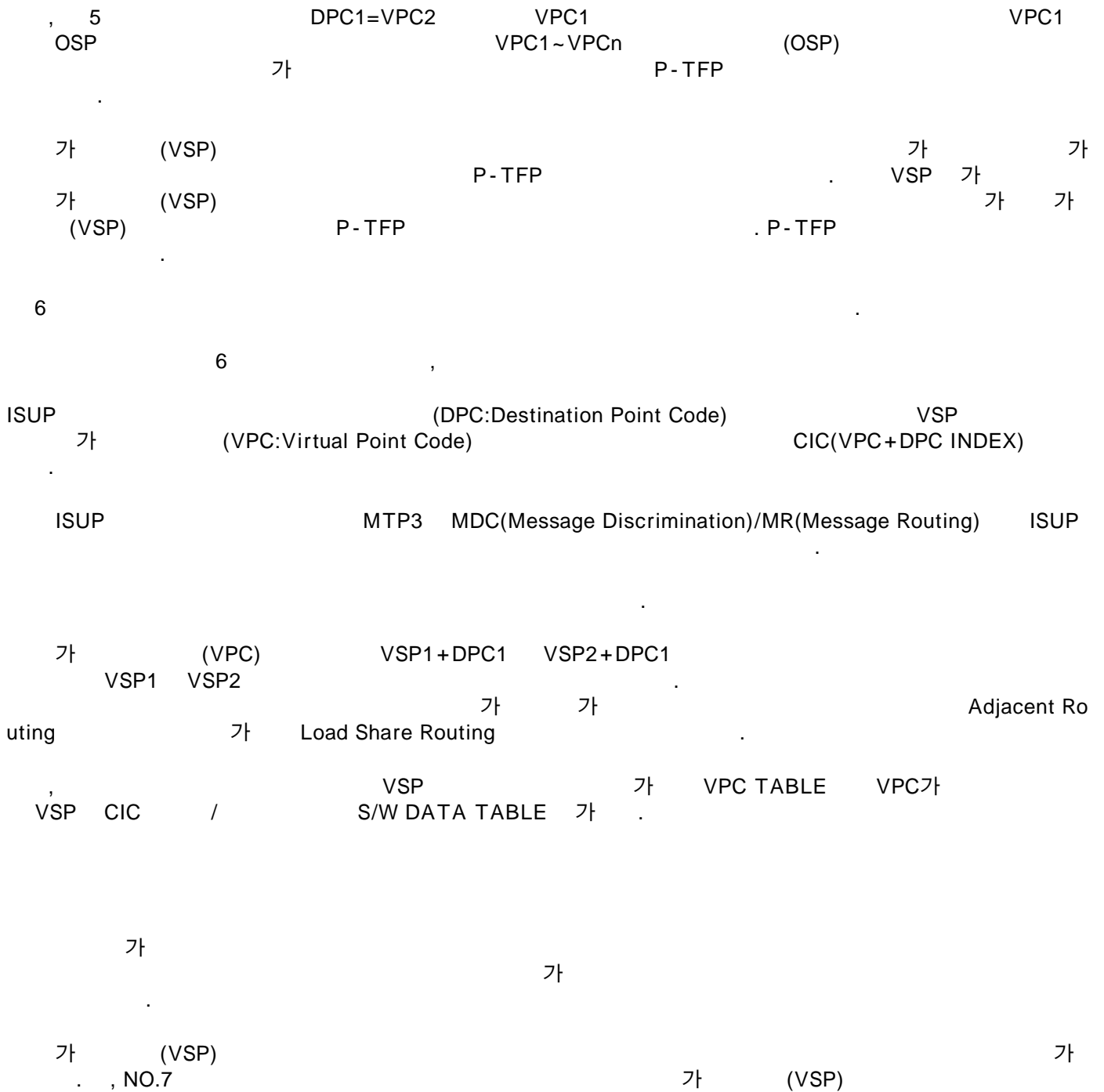
e Distribution) 가 ISUP ISUP

(VPC) MDC(Message Discrimination)/MR(Message Routing) 가  
(DPC) 가 (OPC) 1 (OSP)  
DSP=VSP

VSP+DPC DATA TABLE

5 가 가 가 (VSP)  
VSP1 가 VSP2

, 5 (Y) P-TFP(Prevented - TransFer Prohibit) , OPC VPC1~VPCn



(57)

1.  
ITU-T Q.7xx

MTP1, MTP2, MTP3, (SCCP), (TCAP),  
가, 가,  
MTP3, MDC/MR, SRM, 가

2.  
1

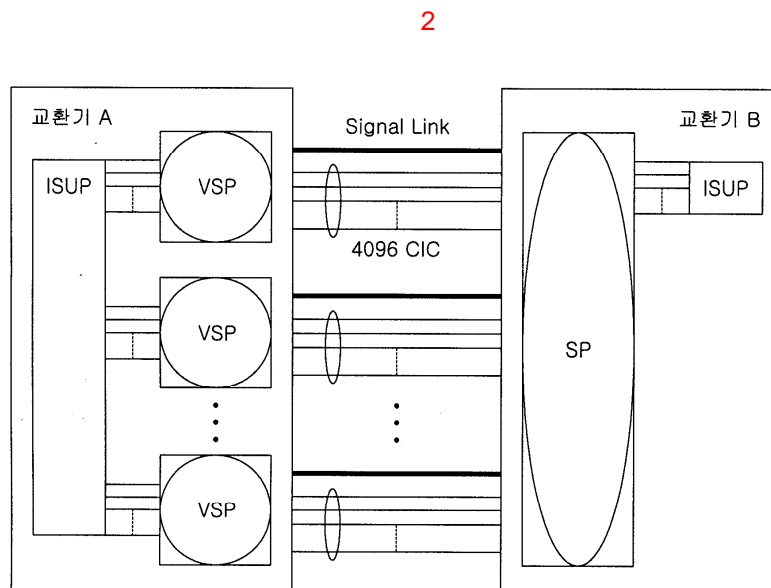
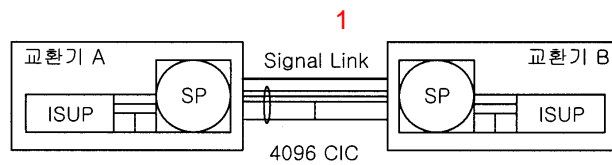
가 (DPC) MTP3 가 MDC/MR (VPC) 가

3. 1 ,

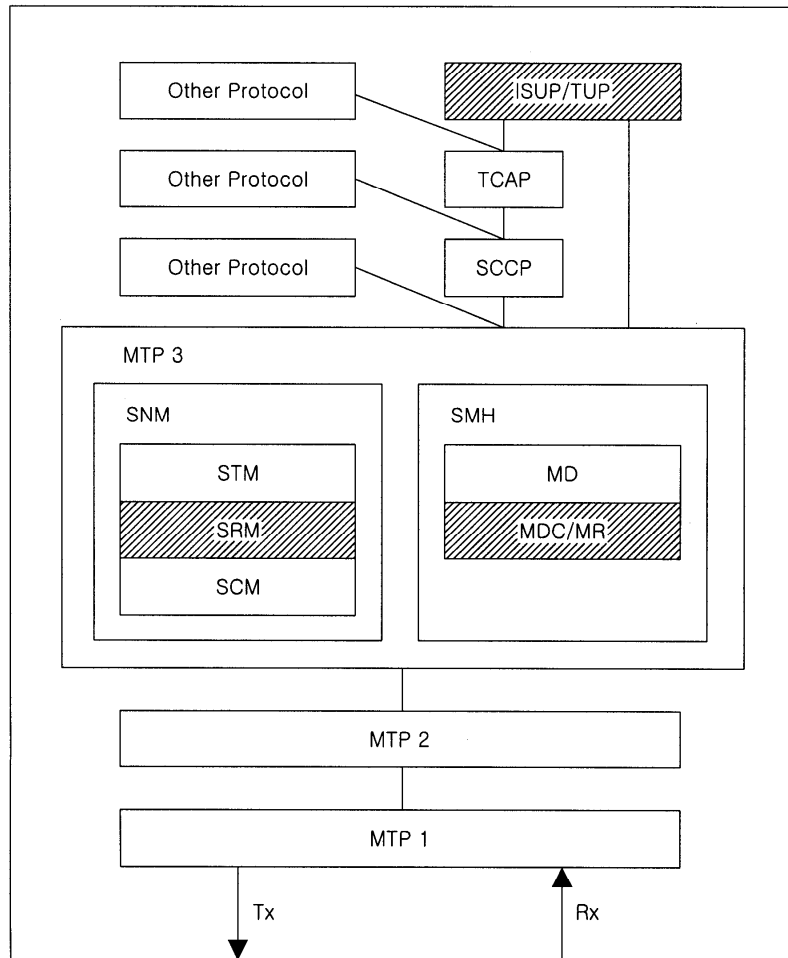
가 MTP3 (VSP) MDC/MR 가 (VSP) 가 (VSP) SRM P-TFP 가

4. 1 ,

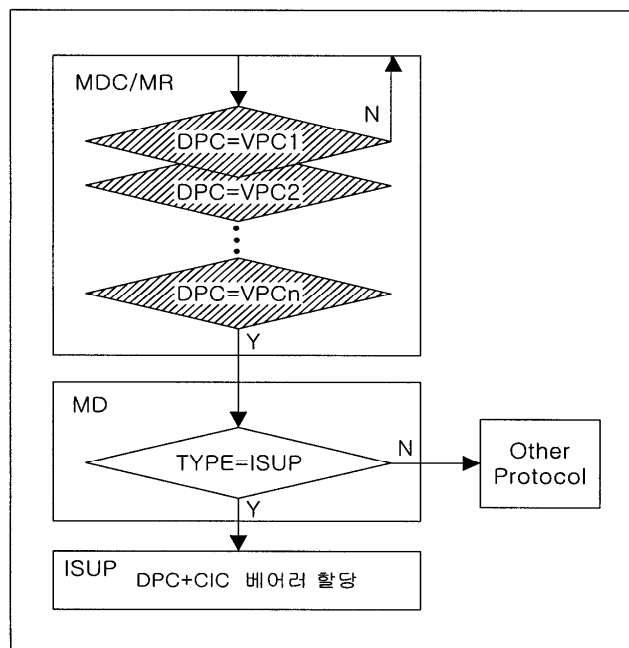
가 가 가 ,



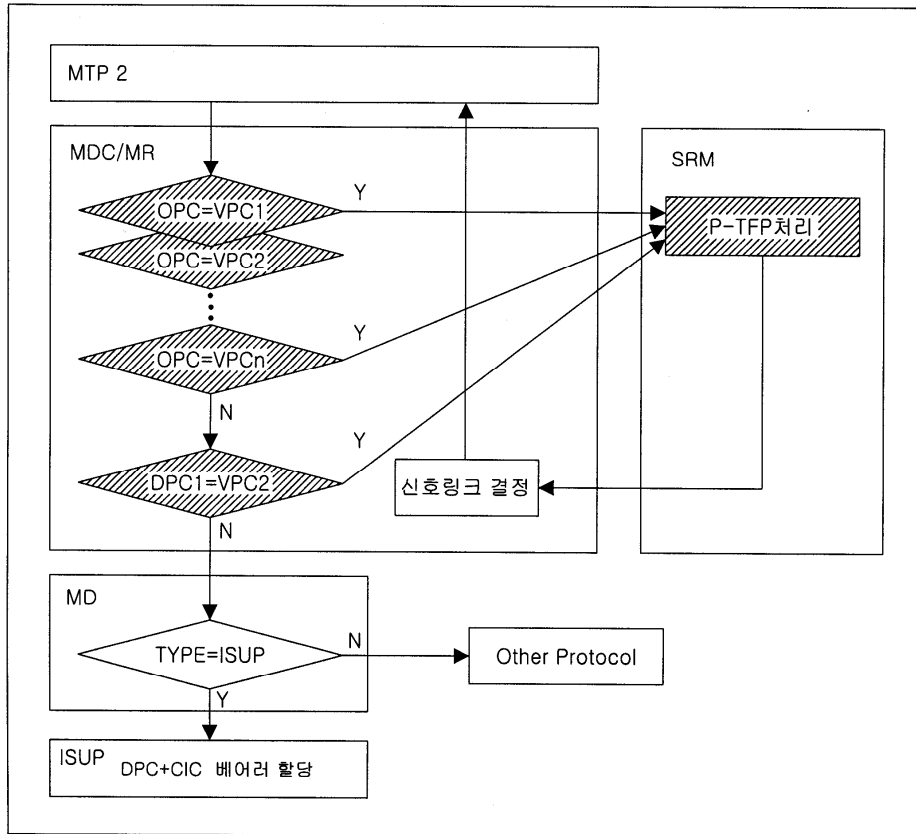
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4



5



6

