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2002 05 16

(21) 10 - 2000 - 0066158
(22) 2000 11 08

(71)

206

(72)

313 1503

464 - 1

304 - 108

113 1101

(74)

:

(54) (I M T - 2000)

(IMT - 2000)

(E - mail)

, IMSI 가

(MSISDN)

가

, 가

,
,
가

1
2
3 2
4 3
5 2
6 5 PDP
7 5
8 5 IP
< >
10, 12, 100 : 14, 16 :
18, 19 : 20 :
30 : IP 40 :
50, 55 : SGSN 60 : GGSN
62, 64 : 66 :
68, 70 : 110 :
200 : 205 : /
210 : 215 :
220 : 225 : PDP
230 : 232, 314, 324 :
234 : 236 :
240 : 300 :
310, 320 : 312, 322 :
330 :

(International Mobile Telecommunication - 2000 : IMT - 2000)
 (mobile - terminated service)

가 (Internet Protocol address : IP address) , (Id
 entifier : ID) 가 가 (Directory service)
 (IP) 가
 (Agent service)

(Packet data service) (Mobile Or
 ientied : MO) (Mobile Terminated : MT) . 3GPP(3rd Generation Par
 tnership Project)

(push service) 가 가 peer - to - peer

가 가 (Static IP
 address) 가 가 3GPP (3G TS 23.060)
 가 가
 (Dynamic IP address) 가 가
 가 가 IPv4(Internet Protocol version 4)
 가 가 3GPP

1 ,

1 가 (Mobile Station :MS)(10,12) ;

(Base Station : BS)(
 14,16) ;

(Radio Network Controller : RNC)(18, 19) ;

IP IP (30) ;

(10, 12) (40) ;

(10, 12)

(62, 64) ;

(10, 12) (:) (66);

(10, 12)

(Web server) (68, 70)

IP (30)

SG

SN(Serving GPRS(General Packet Radio Service) Support Node) (50, 55);

GGSN(Gateway GPRS Support Node) (60)

(20)

가 (: ISP,)

(IP)

(Univ

ersal Mobile Telecommunication System : UMS)

(bearer)

IP

(Bearer Service) ,

IP

가

1

IP

(10, 12)가

(40)

SGSN(50) GGSN(60)

GGSN(60)

가

가

가

GGSN(60)

GGSN(60)

가

가

(unique)

IMSI(International Mobile Subscriber identity)가

IMSI

가

URL(Uniform

Resource Locator)

(e - mail)

가

(ID)

가

(Local ID)

가

가

s Identifier)	(E - mail)	(ID) (unique)	(Domain name)	NAI(Network Acces
---------------	------------	------------------	---------------	-------------------

, IMSI(International Mobile Subscriber identity)

가

가

(IMT - 2000)

IP

3GPP 3G TS 23.060

GGSN(Gateway GPRS Surport Node)

GGSN

IP

가

GGSN

2
 (200) , 가
 P , 가 (20) () I
 2 가 (100) ;
 (100) (UMTS)
 (20) ;
 (100) GGSN(60) IP
 (200);
 (100) (100) , IP (110)
 (200) (100)
 () (: ,) (300) .
 3 2 (200) , (300)
 / (205) (210) ;
 (230) ;
 (100) (215) ;
 (100) GGSN(60) IP GGSN(60)
 (220) ;
 (100) GGSN(60) PDP (100) PDP (Packet
 Data Protocol context) (225);
 (215) (220) PDP (2
 25) / (205) (300) (240)
 (200) (232) ;
 가 (100) (MSISDN(Mobile Station Integrat
 ed System Digital Network)) (234);
 (100) (IP address) (236) .
 (E - mail) (ID) (Domain name) NAI(Netw
 ork Access Identifier) 가 , IP
 , 가 kjbaeck@imt2000.co.kr kjbaeck
 , imt2000.co.kr .

가 (200) 가 ,

(300) () 가 (200)

(100) , (200) (1

00) (300) 가 (236) .

가 , (300) , 가

(234) (100) GGSN(60) IP

GGSN(60) (100) PDP (Network - requested PDP context activation procedure)

GGSN(60) (200) , (200)

(300) .

(300) GGSN(60) IP (Packet Data Unit : PDU)

, GGSN(60) (100) IP .

4 3 , IP (30) (: ,)

4 (:) (310, 320) (330) (300) , (310, 3

20) 가 .

(310, 320) (312, 322);

(314, 324) .

(310, 320) (100)

(314, 324) (100)

(200) .

5 2 ,

(200) (300) (S2).

가 (230) (S4), 가

(300) (S16).

0) PDP 가 가 (S6), (10

(100) PDP (), PDP (S8),

(300) (S14).

(S10), S14 (100) (),

(300) (S14).

, GGSN(60) (100) IP (), IP

(S12), S14 (300)

(S14).

6 5 PDP , GGSN(60)
 (100) 가 PDP .
 (230) (234) (100) (S30),
 GGSN(60) (MSISDN) PDP (S32).
 GGSN(60) (100) PDP 가 (S34),
 (100) PDP 가 (200) (S38),
 PDP 가 (S36). (100) PDP (200)

7 5 , (100) ,
 가 GGSN(60)
 .
 (100) (236) (100)
 가 (S52), 가 (S54).
 , 가 (300) , 가
 6 PDP (S60).
 PDP (S62), , (100) 가
 4), 가 (200) 가 (300) (S6
 (S66).
 8 5 IP , 6 PDP
 (S72).
 , GGSN IP (S72), (200)
 (100) (300) (S82), GGS
 N(60) IP (S76).
 GGSN(60) PDP , (100) GGSN(60) IP
 (S78), GGSN(60) PDP (200)
 100) (200) (S80).
 , (300) (100) (MSISDN) 가
 (200) ,
 (VOIP) SIP(Session Initiation Protocol) .
 , 가 가
 , 가 가
 , 가

, ,가 가 , 가 .

, , 가 가 , .

(57)

1.

, ; , ; GGSN(Gateway GPRS Support Node) ; ;

GGSN IP 가 GGSN

2.

1

, ; ;

3.

, ; ; ; ;

4.

3

5.

3

GGSN IP

IP

6.

5

GGSN

(PDP)

PDP

GGSN

PDP

PDP

PDP

7.

5

가

;

가 ,

;

가 ,
GGSN

PDP GGSN PDP ,

8.

5 ,

IP ,

;

IP ,

;

IP

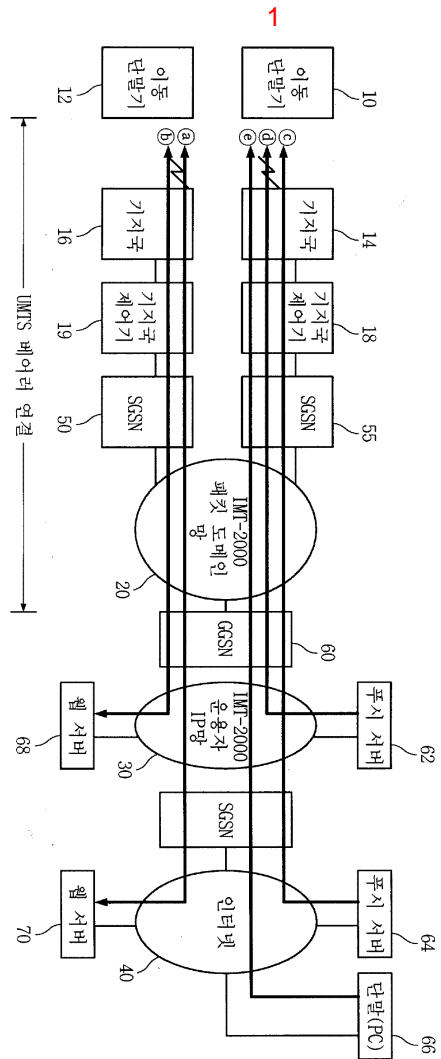
GGSN

IP

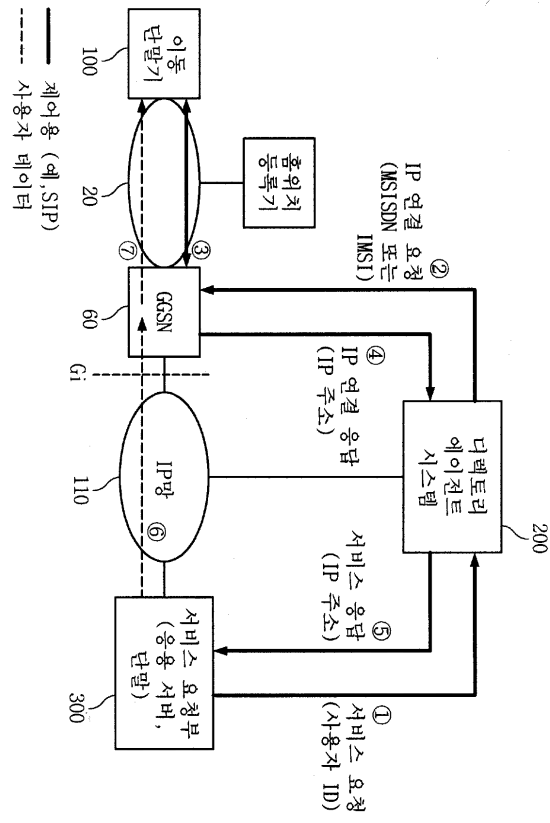
GGSN , IP

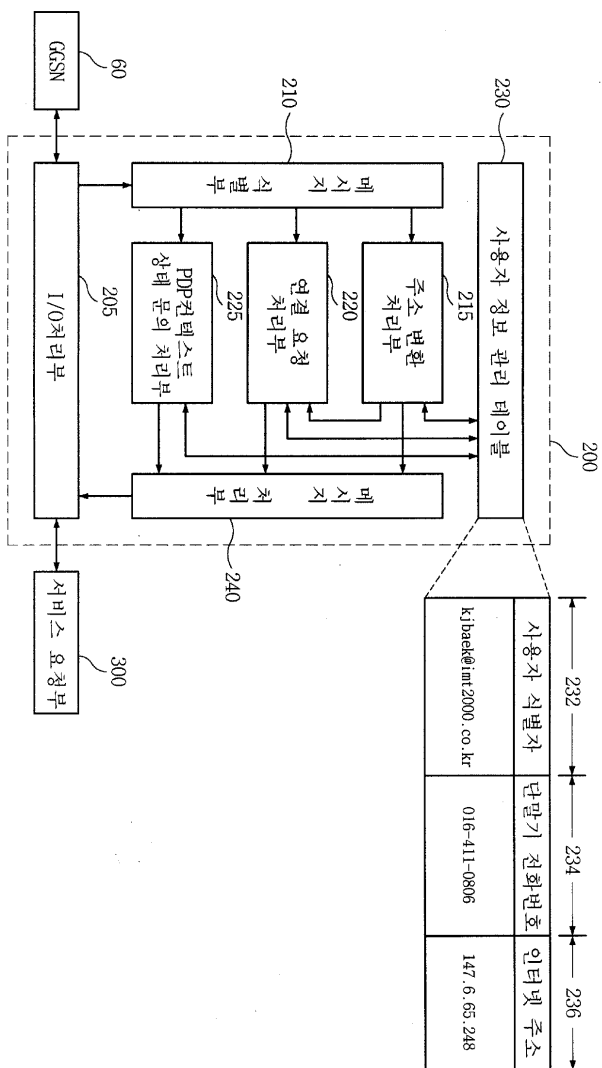
GGSN , PDP
IP

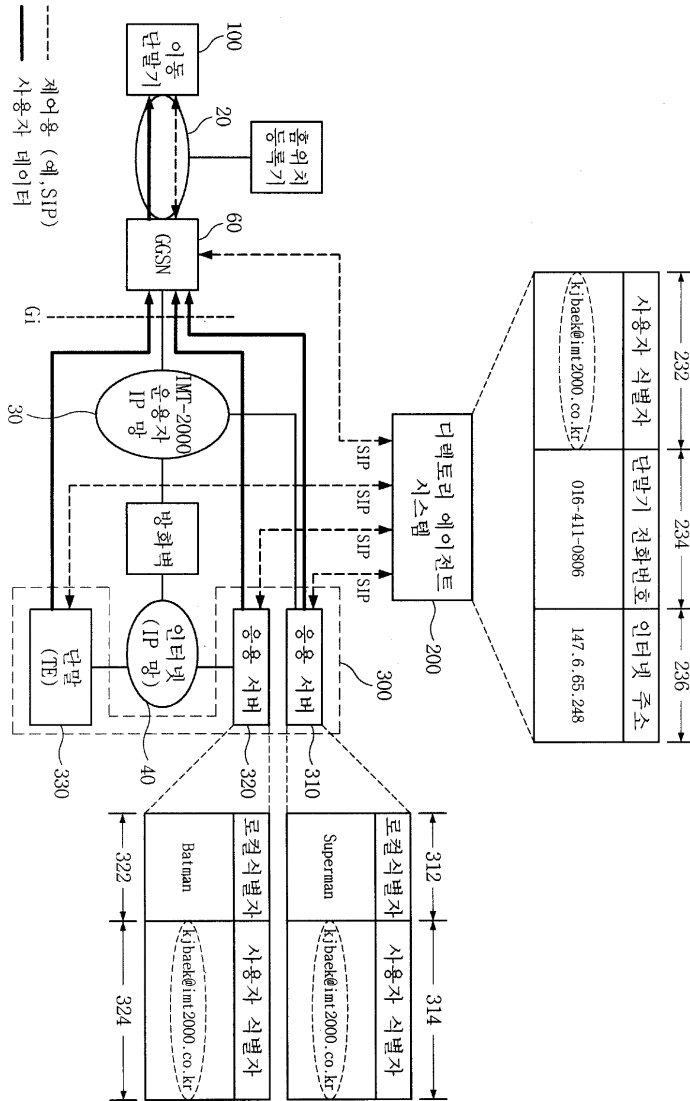
GGSN



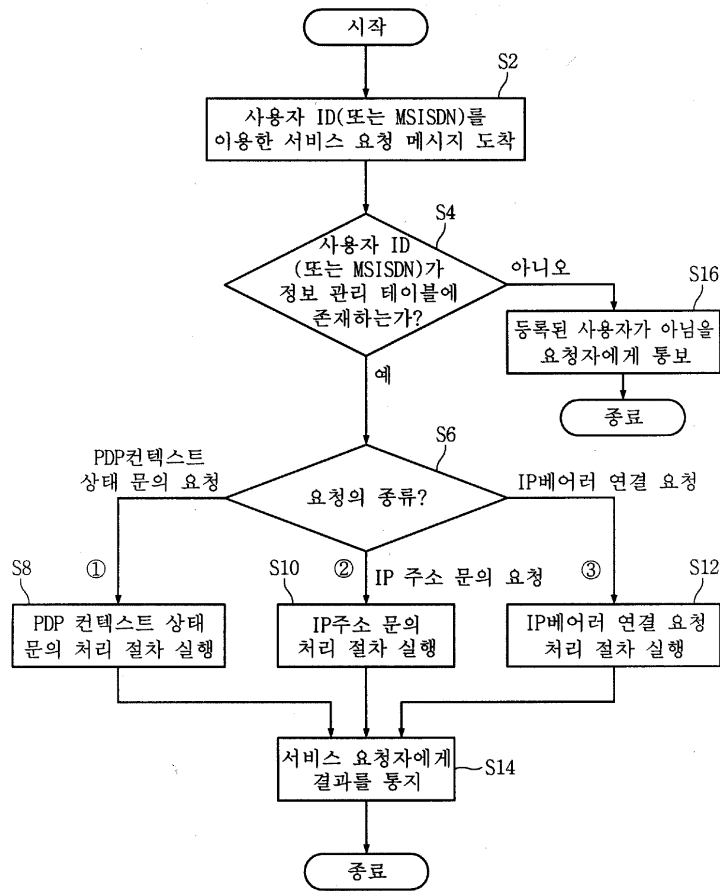
2



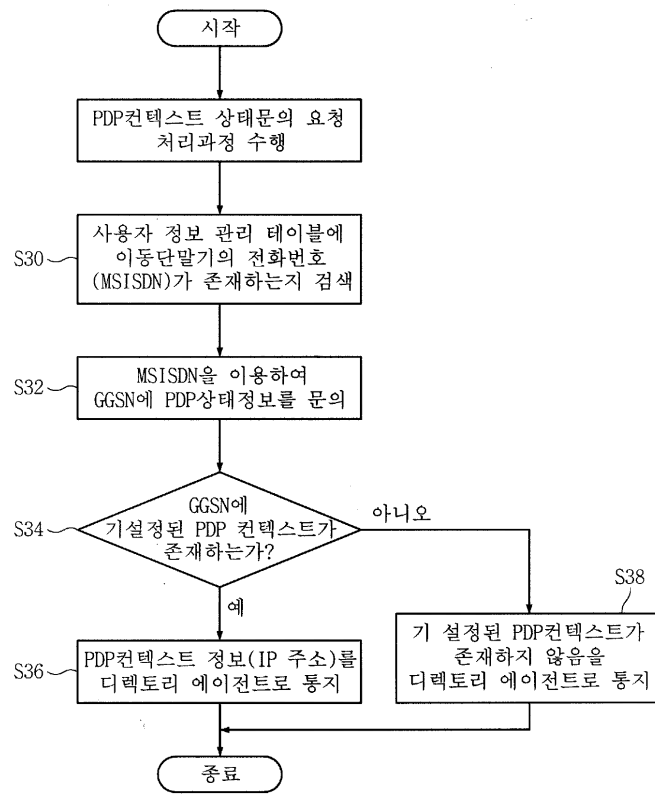


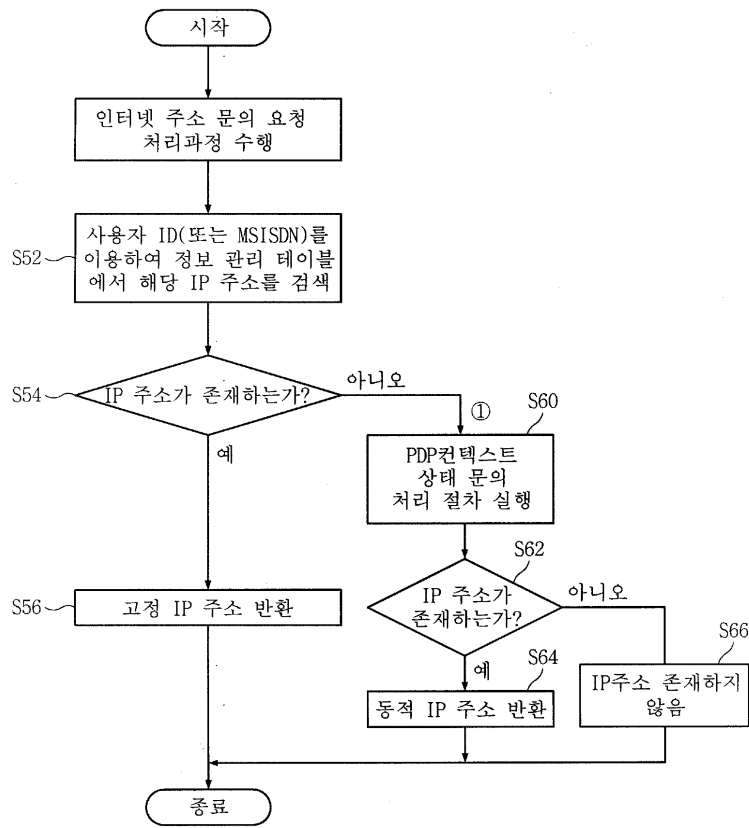


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6





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