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(72)

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2603

(74)

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(54)

(26) (26) (26) (23) (26) (21) (26) (26)

(IMSI) (PPP) (Setup) (Push Service) (Paging)

가 PPP , , SMS (Paging) PPP가 PPP

(S201-S203), (S204), (S205-S210), (

2

1  
 2 IT - 2000  
 3 IMT - 2000  
 .  
 21,31 : 22 :  
 23,33 : 24,34 :  
 25,35 : 26,36 :

- - (Point-to-Point Protocol : PPP) ( Setup) (P  
aging) 가 PPP (Push Service)  
, PPP가 PPP  
1 (SMS) 1  
, (Contents Provider : CP)(11) (PAP)  
(Mobile Station : MS)(14) (Push Proxy  
Gateway : PPG)(12) CP(11) 'username@sktelecom.comm'  
(user-defined- identifier) PPG(12) PPG(12)  
- - (IMSI) 가 IP 가 (S101).  
PPG(12)가 MS(14)가 PPP 가  
MS(14)가 PPP 가 (Short Message)  
(Session Initiation Request : SIR) (Short Message Service Center  
: SMSC)(13) (S102). MS(14) (S103). MS(14)가 SIR  
SMSC(13) SIR MS(14) (Session Initiation Application : SIA)  
(S104). MS(14) SIA PPG(12) (S105). PPG(12)  
MS(14) MS(14) (S106), MS(14)  
, (S107). (Real-time) 가  
, SMS (Infra)가 PPP가  
SMS SMS  
, SMS가 (Paging)  
PP PPP 가 P  
SMS , SMS , PPP가  
PPS PPP ,  
, (IP) 1 ;

1 (IMSI) , (MS)  
(Push Proxy Gateway : PPG) (IMSI) (Contents Provider : CP)  
(PUSH Protocol : TBD) , NAI-like id

2 ; (IP) 1 ; - - 3 ; 4 ;

5 ; 6 ;

1 2 5 IP 가 6 IP  
2 2 가 , MSISDN 가 FQ  
DN, MSISDN IP (IMSI) 가 , MSISDN (PDNS) 가

IMT - 2000

2 IMT - 2000

(Contents Provider : CP)(21) (Push Proxy Gateway : PPG)(22)  
(MS)(26) (22)  
(Contents Provider : CP)(21) (2)  
6) PPG(22) CP(21) (NAI-like id) MS(26) (P)  
USH Protocol : TBD) , CP(21) - (NAI-like id) MS(26)

PPG(22) (HLR)(24) MS(26) PPG(22)  
MS(26)가 (MSC)(25) HLR(24) PPG(22) NAI  
-like id (MSISDN)( MDN) (mapping) 가 PPG(22)

(S202) HLR(24) MS(26)가 MSC(25) PPG(22) (S  
203)

PPG(22) MS(26)가 PPP  
MSC(25) (S204)  
MSC(25) (BS)( ) M  
S(26) (S205), MS(26) (S206),  
BS (BS Ack Order) MS(26) (S207). BS MS(26)

(S208).  
MSC(25) S204 PPP PPG(22) (S209)  
MS(26) PDSN(23) PPP (S210), PPP PD  
SN(23) MS(26) IP PPG(22) (S211). MS(26) S201  
PPG(22) IP MS(26)

3 IMT - 2000

(CP)(31)가 (MS)(36) - - (end-to-end)  
CP(31) (Packet Domain Name Server : PDNS)(32) DNS (query)  
(S301)

PDNS (32)가 MS(36) IP 가 , IP CP(31)  
 , S302 S311 , PDNS (32)가 MS(36) IP  
 가 , PDNS (32) (HLR)(34) MS(36)가  
 (MSC)(35) , PDNS (32) MS FQDN, MSISDN IP  
 가 , MSISDN HLR 가 .(S302)  
 , HLR(34) MSC(35) PDNS(32) (S303), PDNS ( M  
 32) MSC(35) MS(36)가 PPP M  
 SC(35) (S304).  
 , MSC(35) (BS)( )  
 MS(36) (S305), MS(36) (S306),  
 BS (BS Ack Order) MS(36) (S307). BS MS(36)  
 (S308).  
 , MSC(35) S304 PPP PDNS (32)  
 (S309), MS(36) (Packet Data Serving Node : PDSN)(33)  
 PPP (S310).  
 , PPP , PDSN(33) MS(36) IP PDNS (32)  
 (S311).  
 , PDNS (32) IP S301 DNS (query)  
 MS(36) CP(31) (S312), CP(31) MS IP  
 (S313).

, (Paging) PPP  
 SMS SMS 가 ,  
 가 , PPP가 PPP

- (57)
1. (CP) (IP)  
 1 ; (Point-to-Point)  
 2 ; 3 ;  
 4
  2. 1 , (CP)  
 1 (IMSI)
  3. 1 , (CP) , (PPG:Push P  
 roxy Gateway) (IMSI)
  4. 3 , (PUSH Protocol : TBD)  
 - (NAI-like id)
  5. 4 ,

(HLR) (HLR)

6. (HLR) (Mapping) 가 (NAI-like id) (MSISDN) (M

3 DN) 5

7. (CP) (CP) (PDNS) (IP)

1 ; 2 ; (Point-to-Point)

가 ; 3 ; 4 ;

(IP) (IP) (PDNS) 5 ; 6

8. (IP) (PDNS) 2 가 5

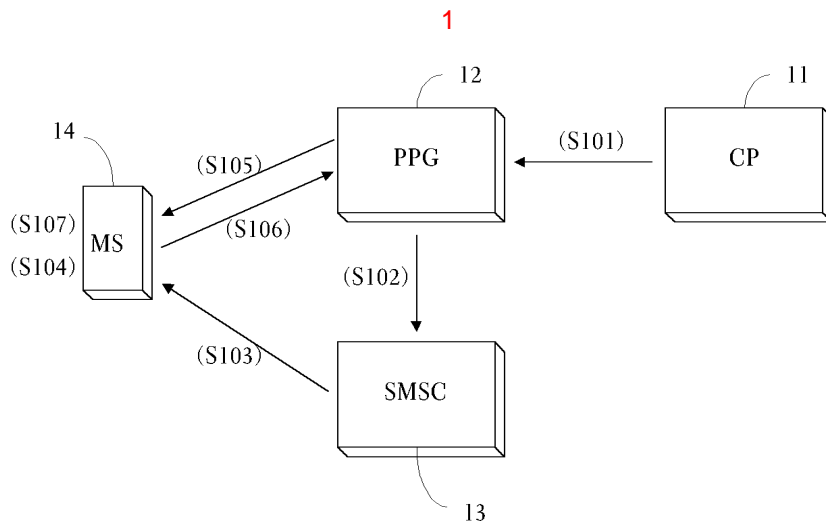
7 1 ; 6

9. (IMSI) (CP)

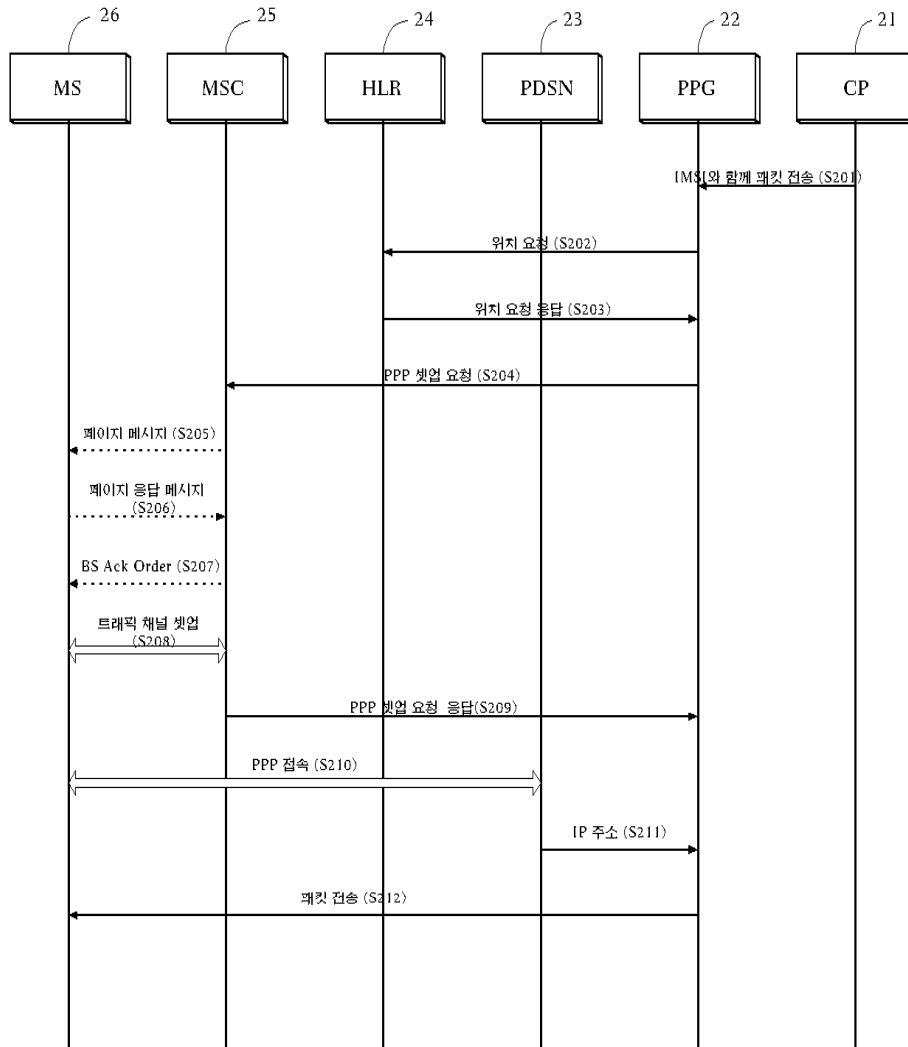
7 2 ;

10. (PDNS) (Mapping) 가 (FQDN), (MSISDN)

9 (IP) (MSISDN) (HLR) 가



2



3

