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10 - 2000 - 0070020
2000 11 23

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136 - 1

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APT209 906

22 216 - 503

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(54)

IP , (private network)
DNS(Domain Name Service)

IP

2

, IP , , NAT, DNS

1 IP ,

- 2 ,
- 3 ,
- 4 ,
- 5 .

* *

100: NAT 200: DNS
 300: 400: DHCP
 1000:

te network) IP , (priva
 IP .

ork) IP (public network) (public netw
 NAT(Network Address Translation) . , NAT IP 가
 가 IP IP , IP
 IP 1 , 가 IP (30)
 0) IP (30) IP IP NAT (1
 Center) IP 가 IP 가 (40) NIC(Network Information
 .

ivate network) IP , DNS NAT (pr
 .
 , IP
 DHCP(Dynamic Host Configuration Protocol) ;

IP NAT (Network Address Translation)

IP NAT IP DNS (Domain Name Service Server);

DNS NAT IP IP DNS

DNS(Domain Name Service) 가 1 ;

DNS 가 가 NAT IP

2 ;

IP 2 NAT 가 IP NAT IP

IP 3 ;

DNS 가 , IP , IP 4

" (service server)" FTP, TELNET, WEB 가 IP

" (private network)" , IP

IMT - 2000 가

2 NAT (100), DNS (200),

(300) DHCP (400)

(public network) 가 (private network) 가 DNS

(200) . DHCP(Dynamic Host Configuration Protocol) (400)

IP , IP 가 IP 가 IP

DHCP (400)

DNS (Domain Name Service Server) (200) IP ,

가 가 DHCP (400) IP , DNS (200)

00) NAT (100) IP

NAT (100) IP IP DNS (200) (300) DNS (200) NAT
 (100) IP (300)
 .
 NAT DNS (200) 가
 NAT , 0 1
 , IP IP가 ,
 (1000) 가 DNS (200) (300) IP NAT (100)
 IP IP (300) NAT
 .
 3
 가
 가 DNS(Domain Name Service) (S1).
 1 가
 ,
 ,
 DNS 가 가 NAT IP (S2).
 2 NAT 가 IP NAT IP IP
 IP (S3). DNS 가 , IP , IP
 (S4).
 , 가 IP
 , 가
 , IP (pool) 0 , NAT 가 NAT DNS IP
 .
 4 IP
 .
 P (dhcp_request) (1). DHCP IP DHCP I
 hp_reply(private IP)) (2). 가 IP 가 (dc
 IP dns_register DNS DHCP (3). , ,
 dns_register control field 1 . D
 NS 가 dns_register NAT
 DNS IP nat_request(private IP) NAT (4).
 IP NAT IP (pool) NAT IP
 IP DNS nat_reply(public IP) (5). DNS
 (6). 가 IP , IP , dns_reg_reply
 가
 DNS dns_request(d

omain name) (7). DNS IP
 dns_reply(public IP address) (8).
 IP (service_request(public IP) NAT
 (9). NAT NAT IP
 (10). (service_reply) NAT
 (11). NAT NAT IP IP
 (12).
 (13).

5 가 IP
 . , deregister(
) 0 DNS dns_deregister(flag=0)
 (21). DNS NAT (nat_dereg_request) (22).
 NAT NAT IP NAT IP
 DNS (nat_dereg_reply) (23). NAT
 가 dns_dereg_reply (24).
 DNS

IP IP 가 ,
 IP 가 IP , NIC
 가 가 IP
 IP IMT 2000
 IP

(57)

1.

ocol) ; IP DHCP(Dynamic Host Configuration Prot

IP NAT
 (Network Address Translation) IP , NAT
 NAT IP
 DNS (Domain Name Service Server);
 DNS NAT IP IP DNS
 NAT

2.

1 , DNS 가 가 N
 AT

3.

가 1 ; DNS(Domain Name Service)
 DNS 2 ; NAT IP
 IP 2 NAT 가 IP NAT IP
 IP 3 ;
 DNS 가 , IP , IP 4
 .

4.

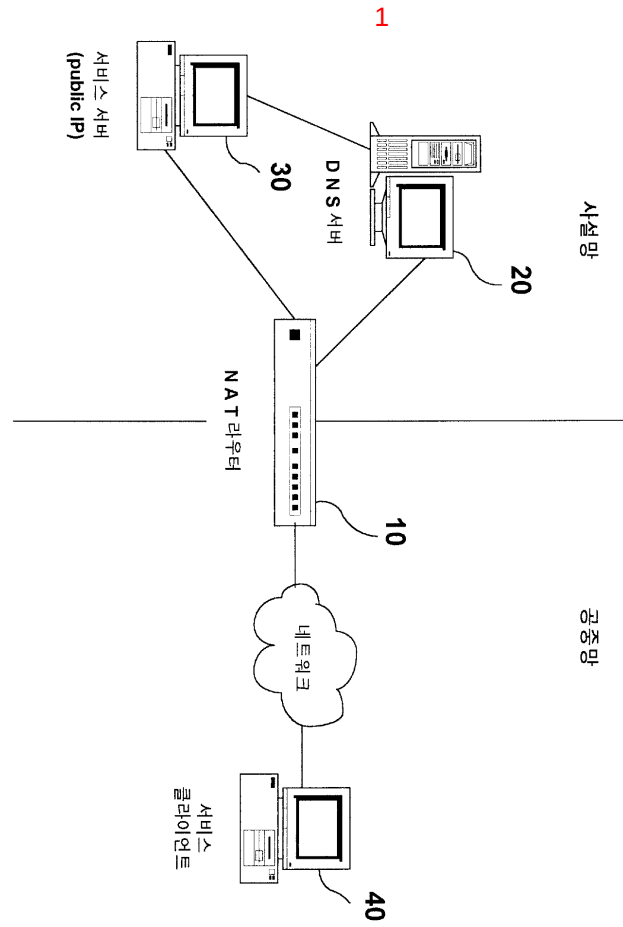
3 ,
 가 1 가
 .

5.

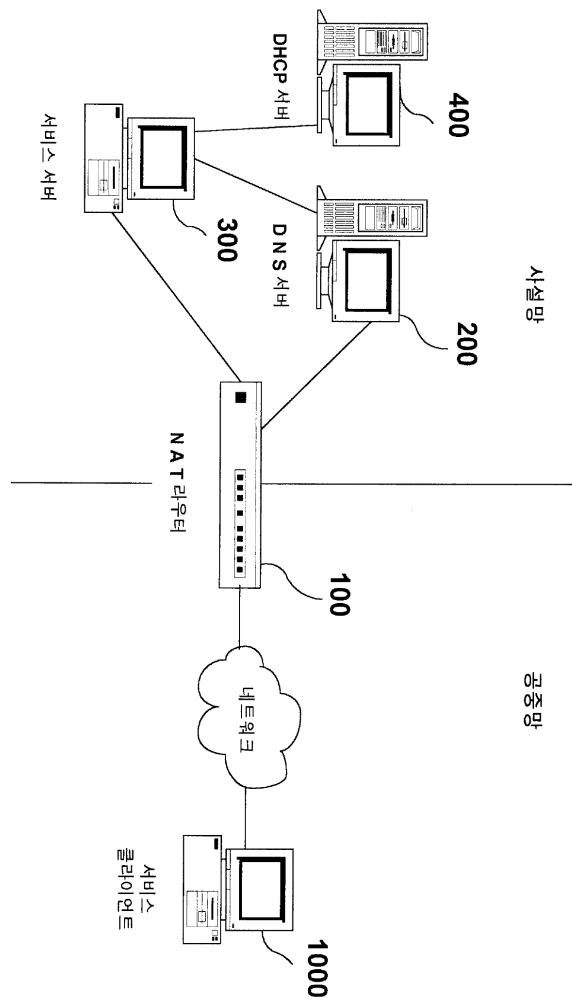
3 , 가
 .
 가 DNS ;
 NAT가 NAT IP IP (pool) .

6.

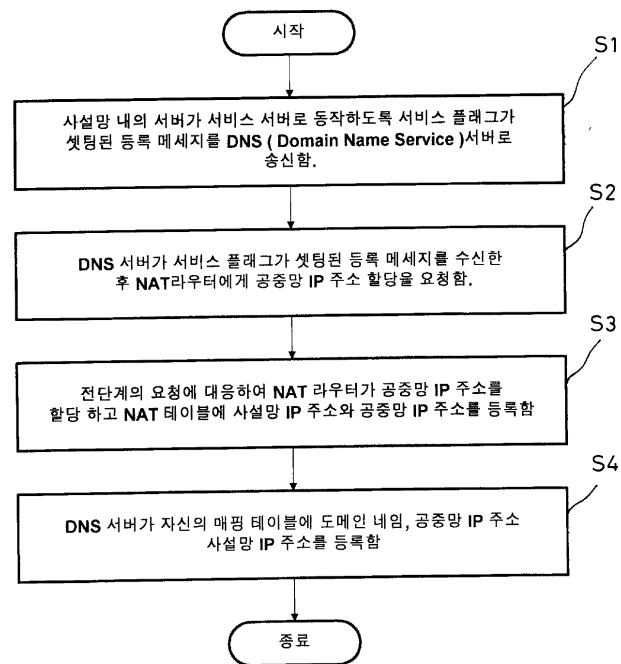
5 , 0 가
 .



2



3



4

