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2004 07 27

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(22) 2003 01 17

(71) 20

(72) 604

7 1620-16

(74)
:

(54) (DNS)

6 가 (DNS) , IPv4 IPv6
 . IPv4 IPv6 , DNS IPv4 IPv6
 IPv4 IPv6 (230) IPv6 (240)가 ,
 (NAT)(210) , (210) IPv4 IPv6
 220) (210) DNS (

2a

1 IPv4 IPv6 가 .

2 (DNS) ,

2a IPv4 DNS .

2b IPv6 DNS .

3 DNS

4 6 DNS

* *

210 : 220 : DNS

230 : IPv4 240 : IPv6

(DNS), IPv4 IPv6 가
 IPv4 가 IPv6 가
 IPv6 IPv4 가 IPv6
 IPv6가 가 IPv4
 , IPv4 IPv6 가 2
 가 NAT(Network Address Translation ;)가 NAT
 IP IP 가 ID가 IETF
 , ID NAT
 ALG(Application Level Gateway)
 ALG IPv6
 , ALG DNS IPv4 IPv6 가
 DNS-ALG
 1 IPv4 IPv6 가
 1 IPv6 IPv4 IPv4 IPv6 IPv6/IPv4 NAT
 , 1 DNS IPv6 DNS IPv4 DNS IPv4 DNS IPv6
 DNS
 , 2 DNS IP 가 가 ,

, IPv4 IPv6 DNS IPv4 IPv6
 , node.co.kr IPv4 가 DNS 가 , IPv4 DNS
 , node.co.kr IPv4 NAT .
 , node.co.kr IPv6 DNS IPv6 A6 AAAA .
 , node.co.kr IPv4/IPv6 .
 , IPv4 IPv6 가 IP 가 DNS
 DNS , IPv4 IPv6 (DNS) ,
 , IPv4 IPv6 가 IPv4 IPv6
 , IPv4 IPv6 , IPv4 IPv6 가
 , (NAT) , IPv4 IPv6 DNS
 , DNS-ALG NAT , 가 IPv4 IPv6
 , , IPv4 IPv6 IPv4 IPv6 , IPv4 IPv6 가 ,
 , (DNS) 2 , IPv4 (230) , IPv6 (240) , IPv4 ()
 230) IPv6 (240) DSN (A AAAA) A AAAA) IPv4 (230) IPv6 (240) DNS
 A AAAA (210) , (210) A AAAA DNS (220)
 (210) DNS-
 ALG NAT .
 2a IPv4

, IPv4 (230)가 DNS A (210) A AAAA DNS (220) (210) .

, DNS (220) IPv4 DNS A IPv6 DNS AAAA .

, DNS (210) (220) IPv6 가 IPv4 AAAA DNS A DNS .

, DNS (220) DNS 가 (210) .

30) , (210) DNS (220) DNS A IPv4 (2) , AAAA A .

, 2b IPv6 .

2b 2a IPv4 DNS 2 IPv4 .

, IPv6 (240) IPv6 AAAA DNS (210) DNS (220) DNS AAAA AAAA DNS (220) DNS (210) AAAA DNS IPv6 (240) , A AAAA .

, 2(a)(b) 3 6 .

3 DNS 가 DNS ID , 4 DNS , 5 , 6 4 , 5 가 DNS PTR AAAA .

, (210) 3 .

TR DNS A AAAA P www.lg.com , www.lg.com .

, A DNS ID ID AAAA , AAAA DNS ID ID A , PTR PTR PTR ID .

) , RR A AAAA DNS (220) .

, (210) 4 6 .

TR DNS A AAAA P IP PTR DNS PTR DNS PTR IP IP .

, A AAAA ID 가 PTR 가 PTR 가 PTR 가 가 , www.lg.com 150.150.150.333 가 150.150.150.333 가 .

2

(DNS)

6.

5 , 1

IPv4 (DNS) IPv6 DNS ID

7.

5 , 1

PTR PTR PTR (DNS)

8.

5 , 2

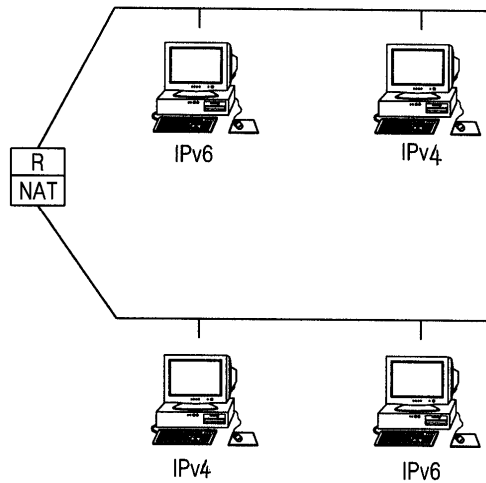
가 DNS ID (DNS)

9.

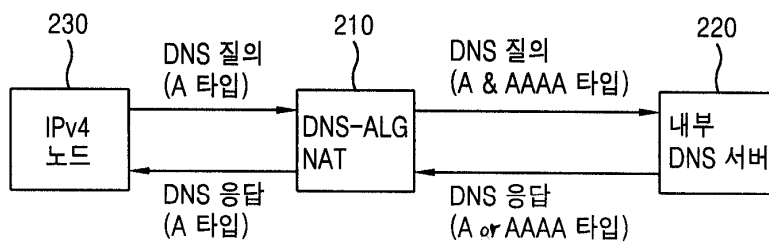
5 , 2

PTR DNS (DNS)

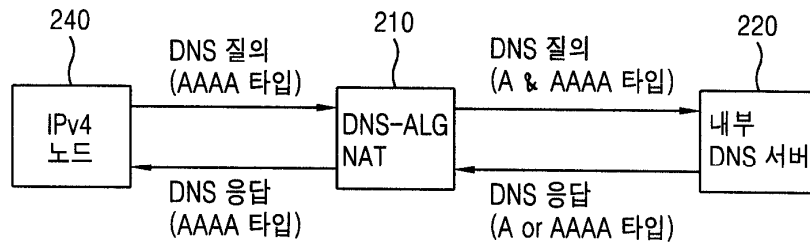
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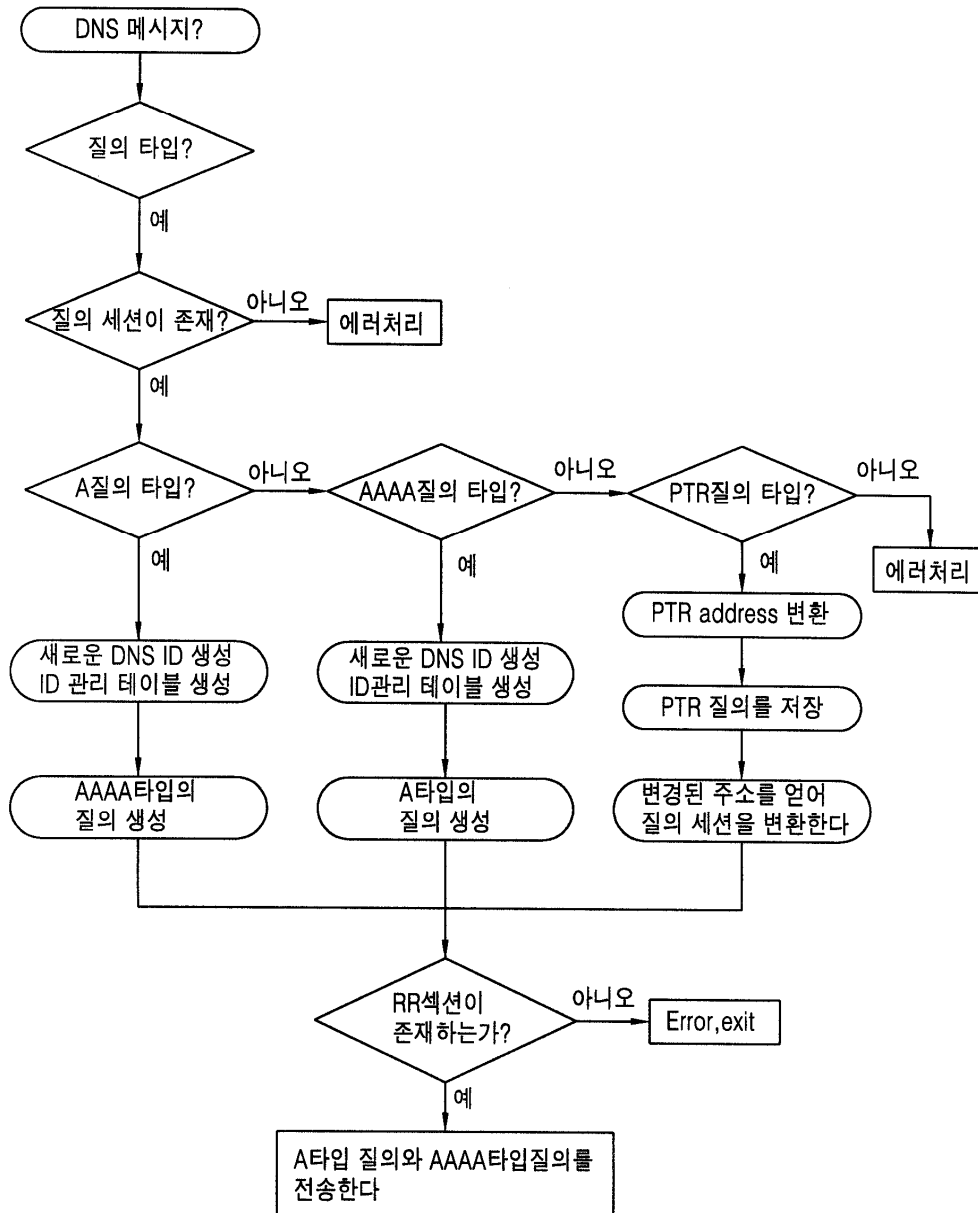
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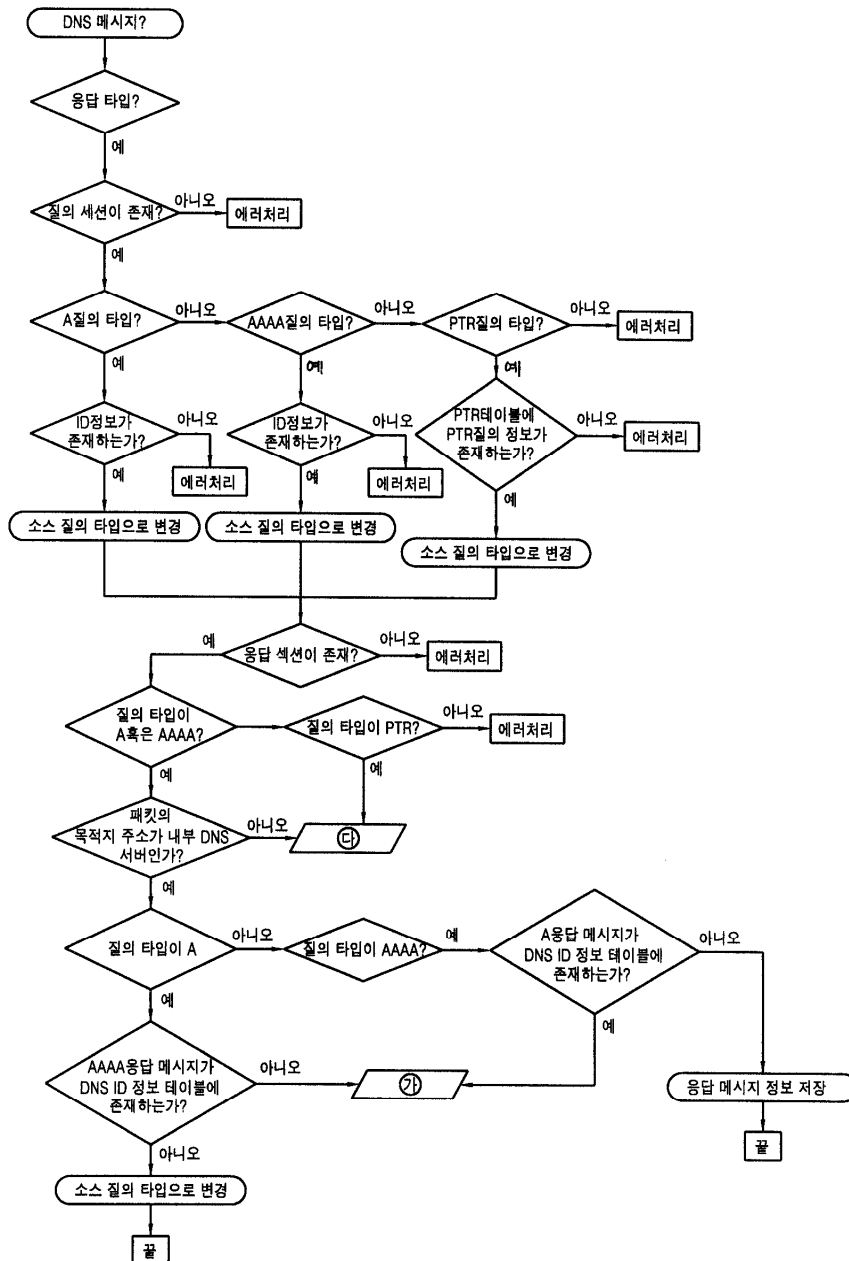


2b

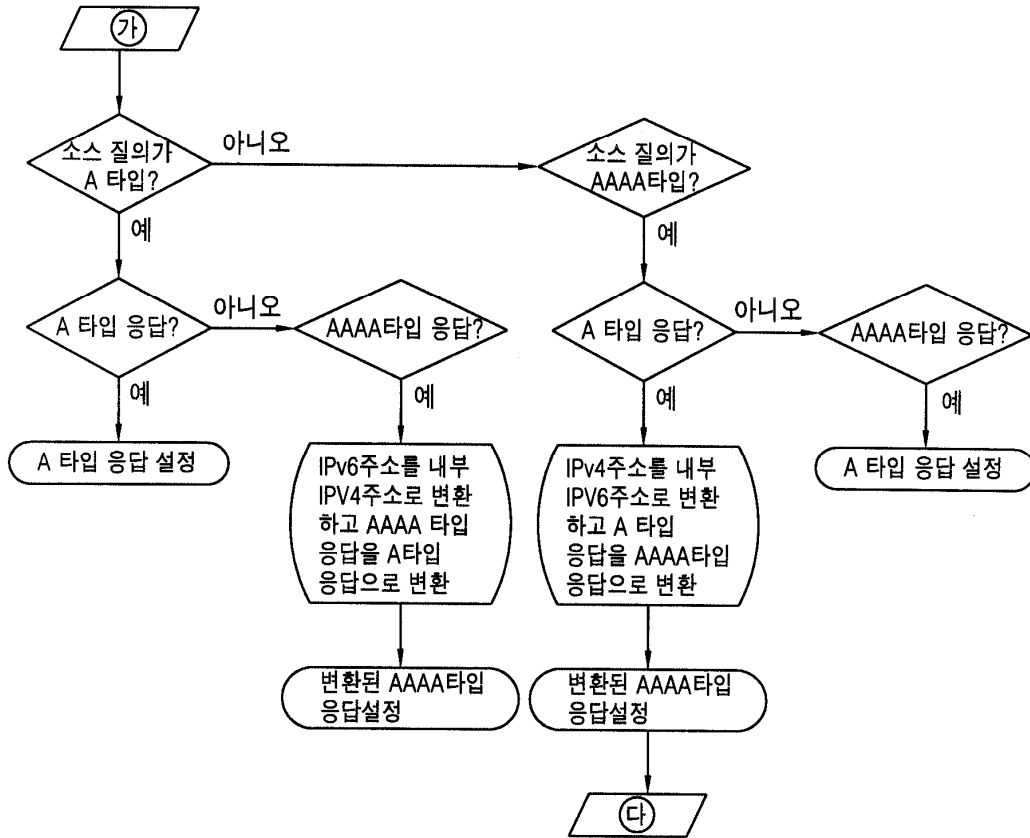


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5



6

