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2004 06 30
10-0437726
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(21) 10-2002-0008432
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(73) () 351-22 3

1267 38-8 108 802

(72) 1267 38-8 108 802

2가1 268-5 1 304

(74)

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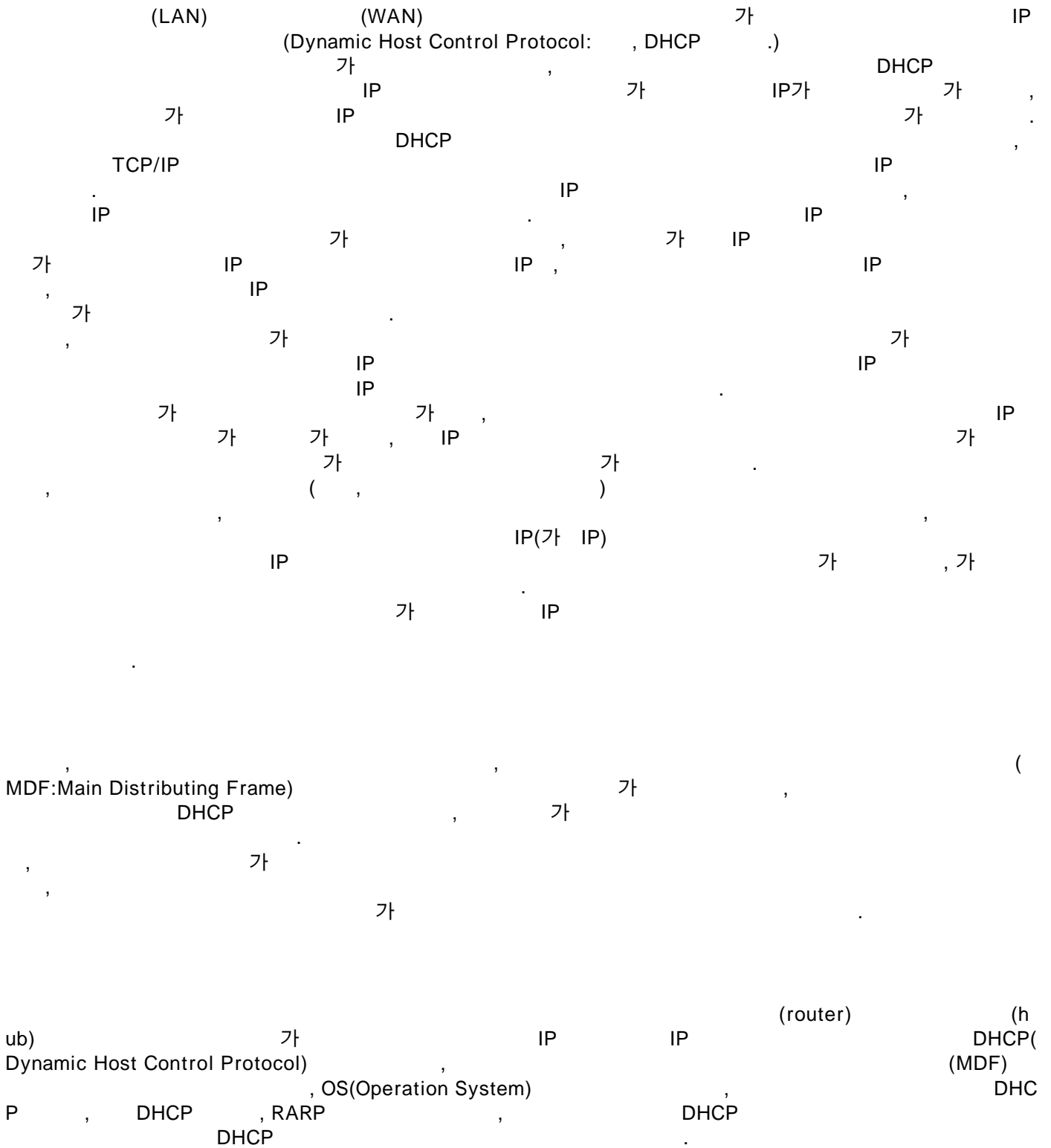
(54)

(LAN) (WAN) 가 IP
(, DHCP) DHCP 가 IP
가 IP , 가 IP가 가 . 가 IP
, DHCP ,

1

, DHCP, SyGate, LAN, WAN, IP, MAC, ARP, RARP,

- 1 DHCP
- 2 DHCP
- 3 DHCP



, RARP (Reverse Address Resolution Protocol) , ARP 가
 MAC(Media Access Control) IP , ARP 가
 (Address Resolution Protocol) , IP , IP 가 MAC ,
 MAC LAN , IP () IP , IP 가 MAC ,
 , DHCP , DHCP 가 IP
 , DHCP 50%가 (broadcasting) 87.5%가
 DHCP (discover) DHCP (offer) , ,
 IP 1 IP 가 IP
 , DHCP (offer) DHCP (disc
 over) DHCP DHCP (offer) DHCP MAC(Media Access Control)
 , DHCP DHCP (offer) RARP(Reverse Address Resolution Protocol)
 1 , RARP IP 2
 P IP IP 3 , DHCP DHCP DHC
 rotocol) DHCP DHCP 4 ARP(Address Resolution P
 , IP IP IP IP
 P , RARP RARP IP IP 가 가 I
 MAC 가 , MAC ARP IP MAC (mapping) RARP
 IP , MAC ARP IP IP
 , DHCP DHCP DHCP 가 DHCP ARP (broadca
 sting) DHCP 가 IP DHCP
 , DHCP
 가 'B' ARP(Address Resolution Protocol) , 'A'가 IP 157.80.84.3
 가 가 IP 157.80.84.3 가 (broadcasting).
 RARP(Reverse Address Resolution Protocol) , IP , IP
 B IP , RARP ARP , IP , MAC IP
 , DHCP ARP
 , DHCP
 1 DHCP
 15) (14) 가 (12) (MDF)(11) (16) (((13)가)
 (10) , 가 DHCP DHCP가 가 가
 , 가 가
 2 DHCP (100), DHCP (200), RARP (300) , OS(Operation System)
 DHCP LAN (500) DHCP (offer) DHCP (400)
 RARP (300) MAC RARP(Reverse Address Resolution Protocol) MAC(Media Access Control)
 RARP (300) MAC IP , DHCP (200)

IP DHCP DHCP (200) IP
 MAC (mapping) DHCP , RARP ARP(Address Resolution Protocol) IP
 3 , DHCP (discover) (101). DHCP (offer) (102).
 DHCP MAC (103). MAC (mapping) (303)
 IP ARP (302) RARP (301) R
 ARP (300) IP (104). DHCP DHCP (105) IP
 DHCP 가 (201). DHCP (가) ARP DHCP 가 (2
 02). DHCP 가 (204), DHCP (IP) (205) ARP
 ARP (206) (SyGate) DHCP (207).
 (Configuration)
 DHCP 가 ARP ,
 DHCP 가 ,
 DHCP (RACK TYPE) 가 ,
 IP IP 가 .

- (57)
1. (router) (h
 ub) 가 IP IP DHCP(
 Dynamic Host Control Protocol) , (MDF) , OS(Operation
 System) DHCP , DHCP , RARP
 (DHCP)
 2. DHCP (disc
 over) 가 DHCP 가 IP DHCP (offer) DHCP (disc
 DHCP (offer) DHCP MAC(Media Access Control)
 RARP(Reverse Address Resolution Protocol)
 1 ; MAC IP 2 ;
 RARP IP ; DHCP
 3 ; DHCP
 DHCP DHCP ARP(Address Resolution Protocol)
 DHCP 4 ; (DHCP)
 3. IP IP 가 가 IP
 2 RARP , RARP IP IP 가 가 RARP
 MAC 가 , MAC IP MAC (mapping)

