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DHCP
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DHCP
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DHCP

DHCP

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DHCP, ARP,

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, MAC

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DHCP
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DHCP

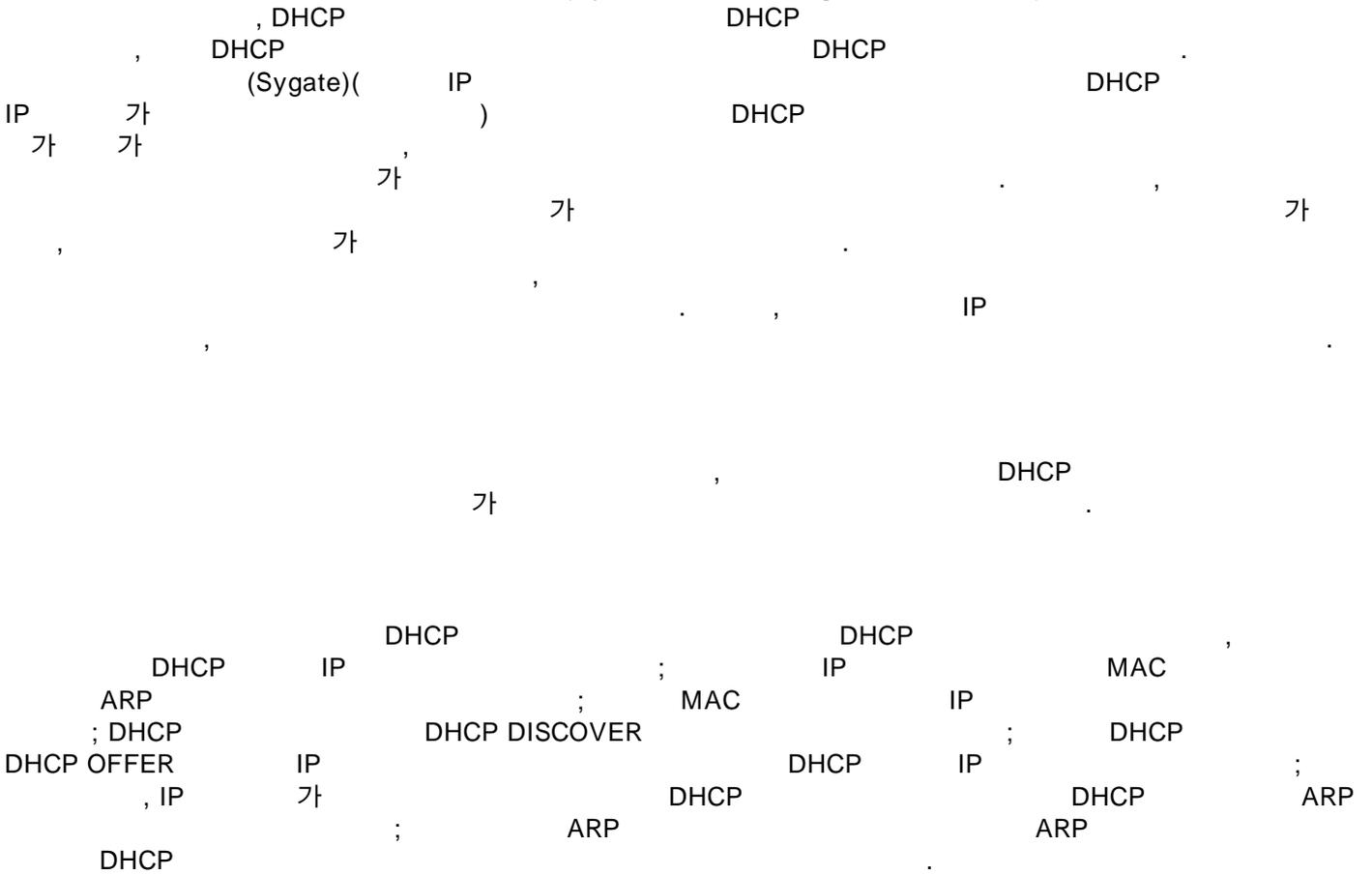
DHCP

5 DHCP 가

100 : DHCP
300 : ARP

200: DHCP

DHCP(Dynamic Host Configuration Protocol)



1) DHCP

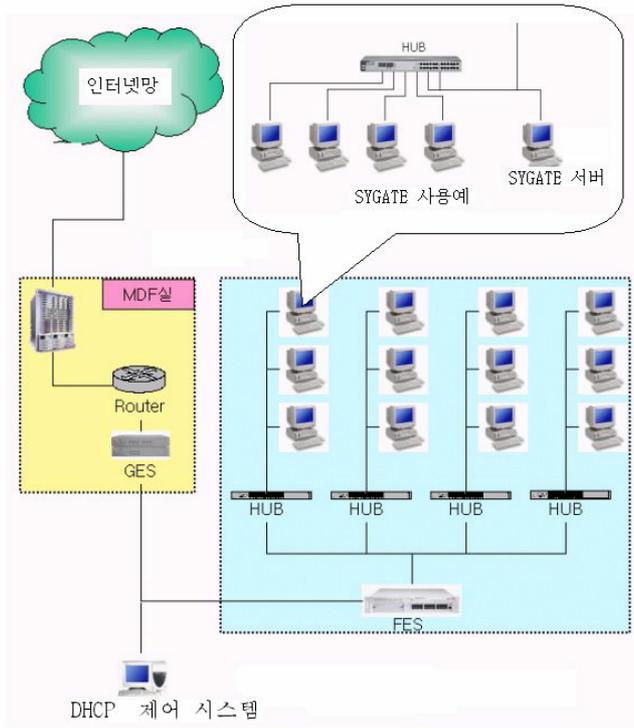
DHCP PC IP PC , DHCP R
 IP 가 , DHCP R
 FC 1533, 1534, 1541, 1542
 DHCP IP , DHCP
 a. Discover (DHCP DISCOVER) : DHCP 가 DHCP
 IP : 가 0.0.0.0
 IP : 255.255.255.255
 : MAC
 b. Offer (DHCP OFFER) : DHCP , DHCP
 DHCPOFFER
 IP : DHCP IP
 IP : IP 가 ,
 255.255.255.255
 Offered IP : IP
 : 가 MAC

, DHCP IP (S100). DHCP
 , IP MAC 가 ARP (S110)
 , IP MAC IP (S120).
 , DHCP DHCP DISCOVER (S130).
 IP DHCP DHCP OFFER IP DHCP
 , DHCP DHCP IP 가 (S140). DHCP IP DHCP
 (S150). DHCP DHCP ARP
 , ARP ARP DHCP
 (S160). ARP
 , DHCP 가 DHCP
 ARP DHCP DISCOVER
 9, 13, 16 0 1000
 4 IP DHCP 가 , DHCP , IP , 5
 DHCP 가
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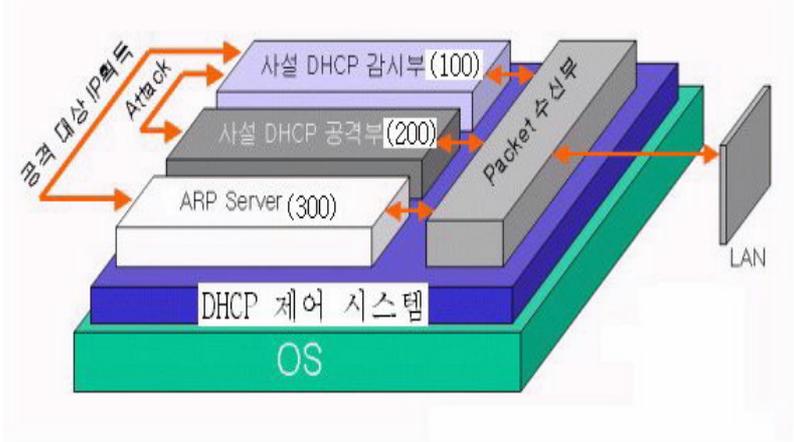
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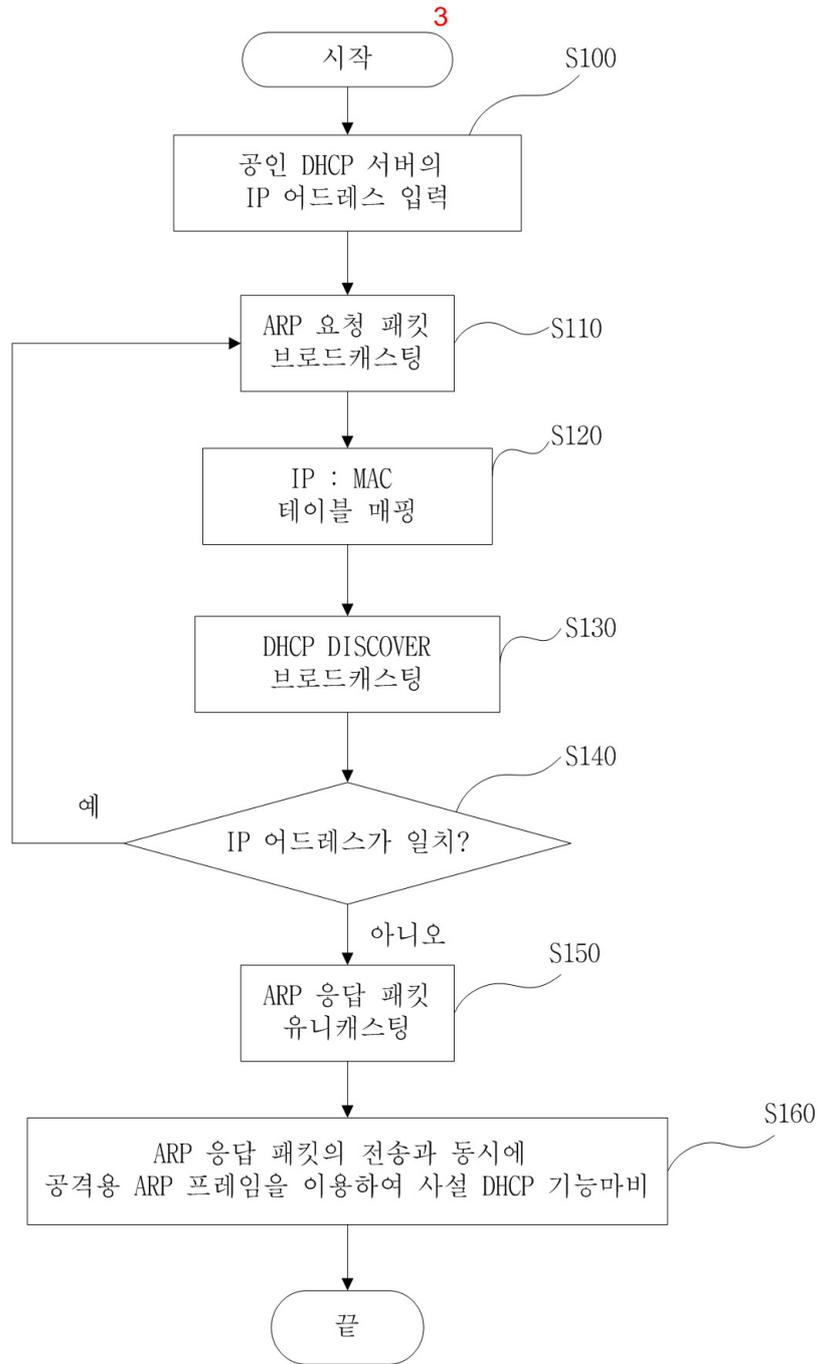
1. DHCP IP ; ARP ;
 IP MAC ;
 DHCP MAC IP DHCP DISCOVER ;
 DHCP DHCP OFFER IP DHCP IP
 , IP ; 가 DHCP DHCP A
 RP ; ARP DHCP
 ARP DHCP DHCP
2. 1 , ARP DHCP DISCOVER
 DHCP

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4

The screenshot shows the Network Packet Manager interface. The main window is titled "Network Packet Manager" and contains several sections:

- IP 주소 현황 (IP Address Status):** A table listing IP addresses and their corresponding MAC addresses. The table has columns for IP 주소, MAC 주소, and DHCP 서버. The IP addresses range from 210.120.100.193 to 210.120.100.217.
- Packet수 / 초 (Packets per second):** A bar chart showing network activity, with a scale from 0 to 1K.
- Byte수 / 초 (Bytes per second):** A bar chart showing network activity, with a scale from 0 to 1M.
- 송신된 Packet (Transmitted Packets):** A list of outgoing packets, including "Send ARP to 210.120.100.193", "Send DHCP Discover", and "Send ARP to 210.120.100.200".
- 수신된 Packet (Received Packets):** A list of incoming packets, including "Receive ARP [210.124.173.59]", "Receive ARP [210.124.173.60]", and "Receive ARP [210.124.173.61]".
- IP 주소 범위 설정 (IP Address Range Setting):** A table with columns for 시작 주소 (Start Address) and 종료 주소 (End Address). It lists the range 210.120.100.193 to 210.124.173.33.
- DHCP 서버 [라우터, Gateway] 등록 (DHCP Server Registration):** A table for registering DHCP servers, with columns for IP 주소 and buttons for adding, deleting, and changing entries.

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The screenshot shows the Sygate Manager interface. A message box titled "Sygate Message" is displayed, indicating a failure to start the Sygate engine. The message text reads: "Sygate engine fails to start. Please see the Troubleshooting Log under the Help menu." The message box has a red 'X' icon and a "확인" (OK) button. The Sygate Manager window shows a "Start" button and a "Ready" status indicator.