

5-4-5 分析 DHCP 協定



協定運作

- ◆ 尋找 DHCP 伺服器 : **DHCP Discover**
- ◆ 提供 IP 組用位址 : **DHCP Offer**
 - ARP 運作
- ◆ 接受 IP 租約 : **DHCP Request**
- ◆ 租約確認 : **DHCP Ack**
 - ARP 運作

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The screenshot displays a network simulation environment. The 'Logical' view shows a 'Server-PT DHCP_Server' connected to a '2960-24T1 SW1' switch, which is connected to two 'PC-PT PC0' devices. The 'Simulation Panel' shows an event list with the following data:

Vis.	Time(sec)	Last Device	At Device	Type	Info
	150.005	SW1	PC1	DHCP	
	150.005	SW1	DHCP...	DHCP	
	150.005	--	DHCP...	ARP	
	150.006	DHCP...	SW1	ARP	
	150.007	SW1	PC0	ARP	
	150.007	SW1	PC1	ARP	

The 'PDU Information at Device: PC0' window shows the details of a DHCP packet:

DHCP			
0	8	16	24
OP:0x000000	HW TYPE:1	HW LEN:6	HOPS:0
000000000	TRANSACTION ID		
SECS:0	FLAGS:0x0000000000000000 00000000000008000		
CLIENT ADDRESS:0.0.0.0			
YOUR CLIENT ADDRESS:0.0.0.0			
SERVER ADDRESS:0.0.0.0			
RELAY AGENT ADDRESS:0.0.0.0			
CLIENT HARDWARE ADDRESS (16 BYTES)			
SERVER HOSTNAME (64 BYTES)			
FILE (128 BYTES)			

