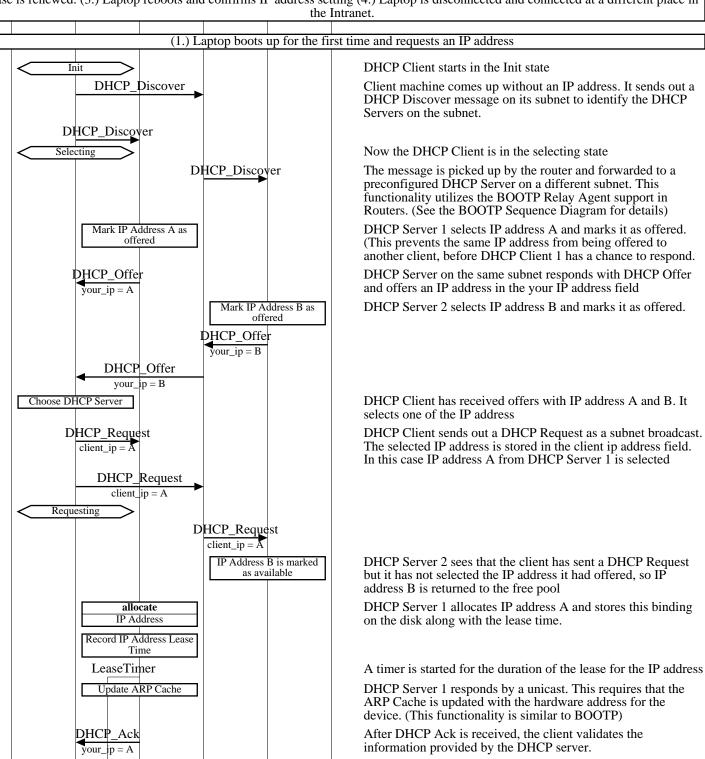
DHCP - Dynamic Host Configuration Protocol (Normal Operation)						
Subnet 1			Intranet	Subnet 2	Subnet 3	
PC	Laptop 1	Server 1	Router	Server 2	Laptop 3	EventHelix.com/EventStudio 1.0
PC	DHCP Client 1	DHCP Server 1	BOOTP Relay Agent	DHCP Server 2	DHCP Client 3	10-Feb-02 23:12 (Page 1)

Dynamic Host Configuration Protocol (DHCP) is used to dynamically provide IP addresses and configuration information to client nodes. DHCP provides greater flexibility by leasing out IP addresses to host nodes. DHCP supports mechanisms that can be used by hosts to renew their lease. This sequence diagram describes the DHCP interactions between a Laptop and the DHCP servers in the intranet. Four different cases are covered. (1.) Laptop boots up for the first time and requests an IP address. (2.) Laptop's IP address lease is renewed. (3.) Laptop reboots and confirms IP address setting (4.) Laptop is disconnected and connected at a different place in

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Client verifies that the IP address assigned to it is unique. This

can be accomplished by sending out an ARP Request for the assigned IP address. If no node responds to the ARP request,

Check IP address and

configuration parameters

