

4-2-1 ARP 協定概述



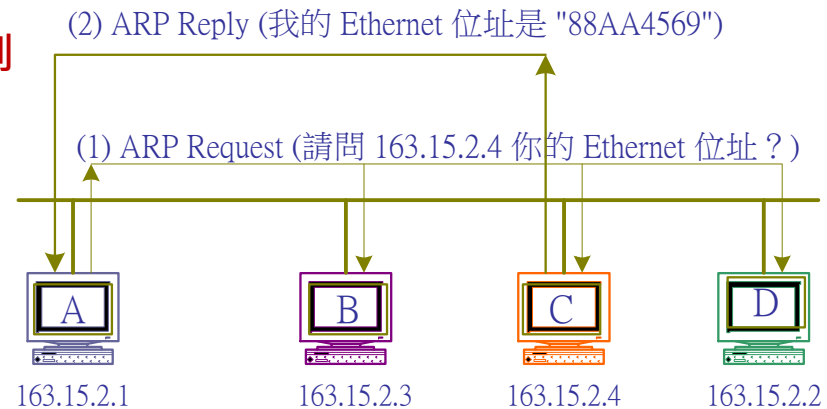
『位址解析協定』 (Address Resolution Protocol)

- ◆ **Ethernet Address** : 主機在實體網路間識別
- ◆ **IP Address** : 主機在網際網路間識別
- ◆ 利用對方的 **IP Address** 詢問它的 **Ethernet Address** 。

- ◆ **ARP Cache**

ARP 封包結構

- ◆ **Hardware Type = 0x0001**
- ◆ **Protocol = 0x0800**
- ◆ **Operation type**
 - **0x01 = ARP Request**
 - **0x02 = ARP Reply**
- ◆ **Sender IP/HA**
- ◆ **Target IP/HA**



0	8	16	24	31
Hardware Type		Protocol Type		
HLEN	PLEN	Operation Type		
Sender HA (Byte 0 ~ 3)				
Sender HA (Byte 4 ~ 5)		Sender IP (Byte 0 ~ 1)		
Sender IP (Byte 2 ~ 3)		Target HA (Byte 0 ~ 1)		
Target HA (Byte 2 ~ 5)				
Target IP (Byte 0 ~ 3)				

