ARP프로토콜

김평안

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ARP 프로토콜

ARP 프로토콜

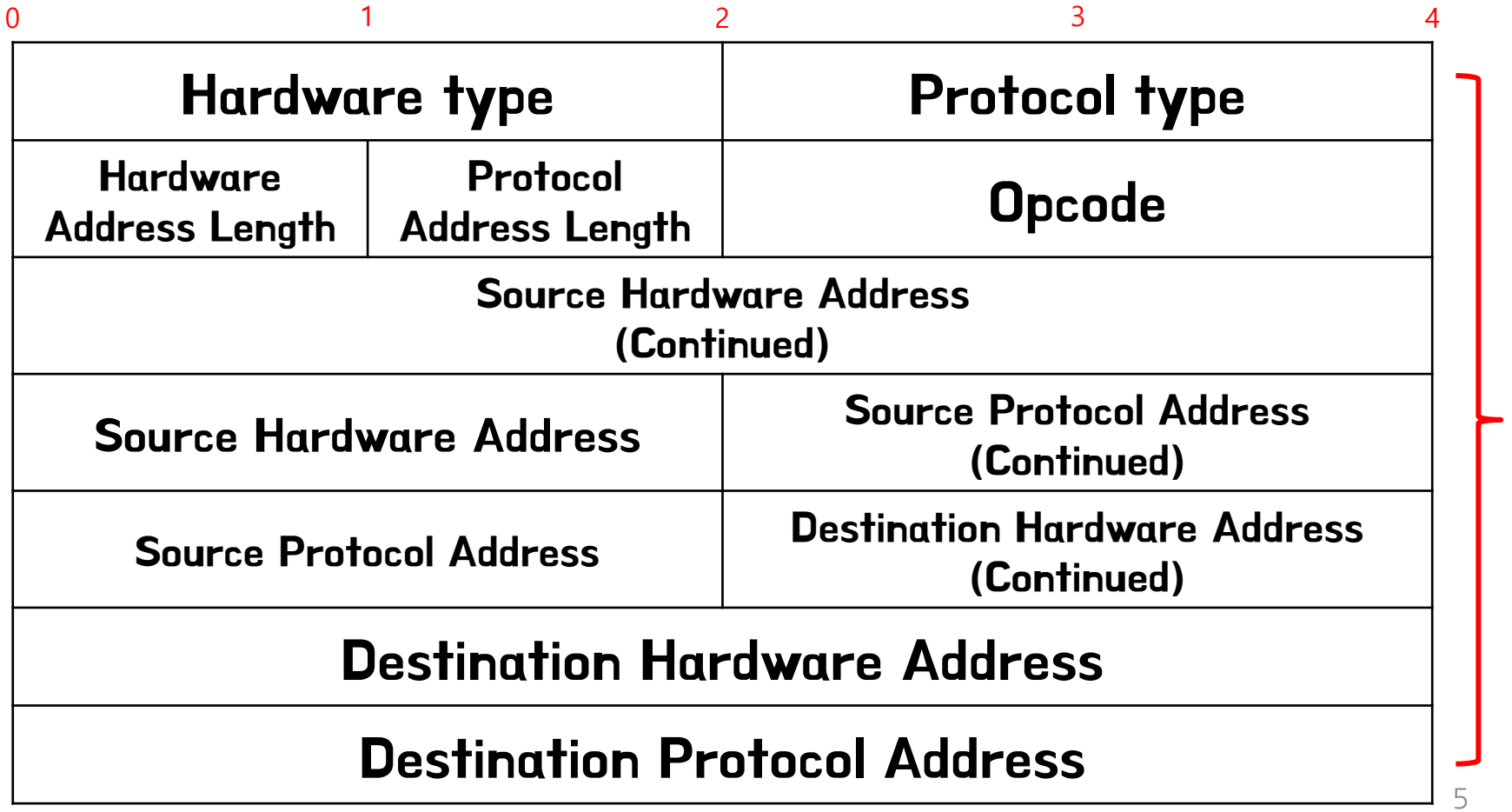
- Address Resolution Protocol

OSI 7 Layer > Layer 3 (Network Layer)

같은 네트워크에서 통신을 하기 위한 MAC 주소를 IP주소를 이용해 알아오는 프로토콜

ARP 프로토콜

- ARP 프로토콜의 구조



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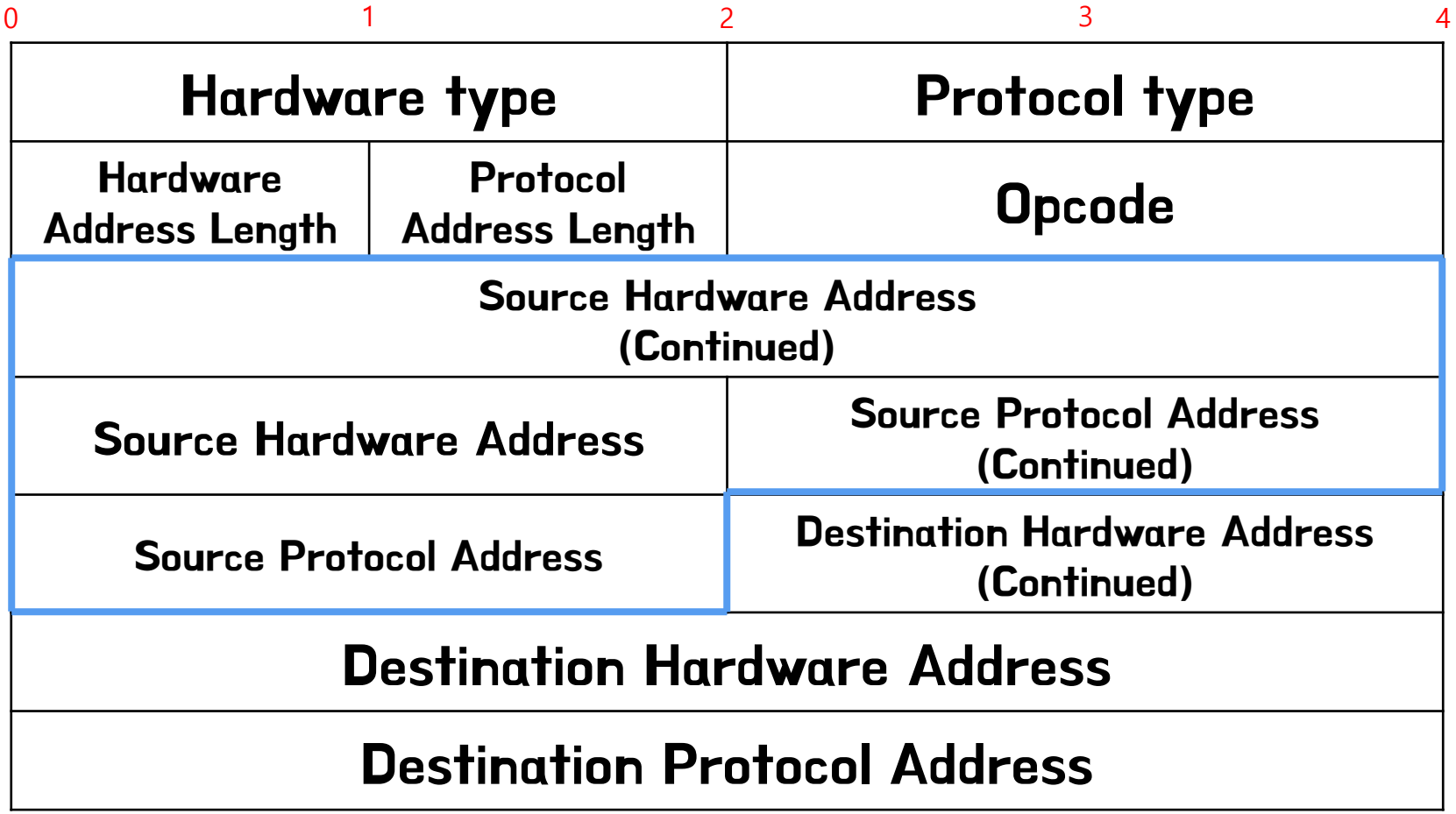

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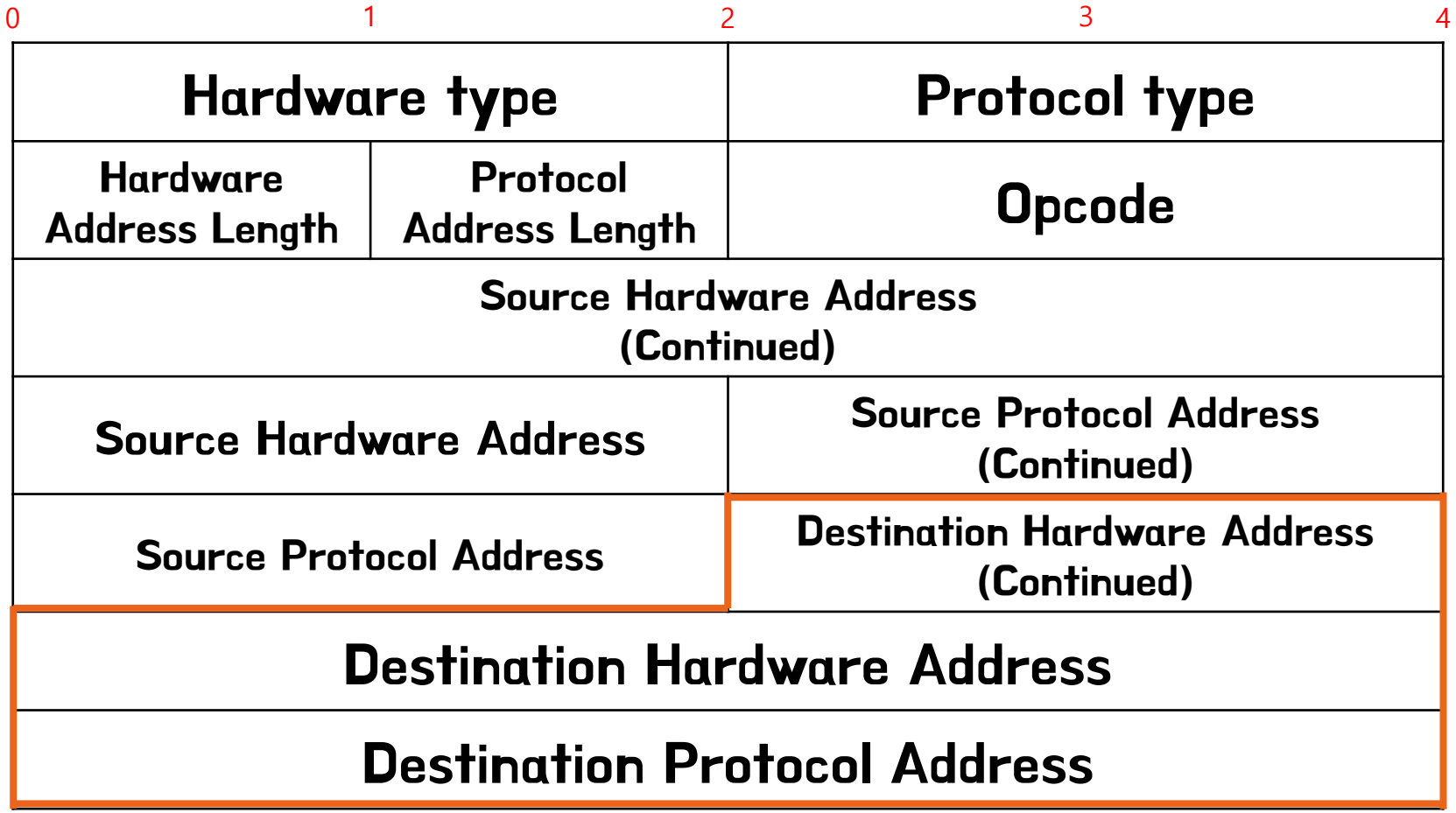

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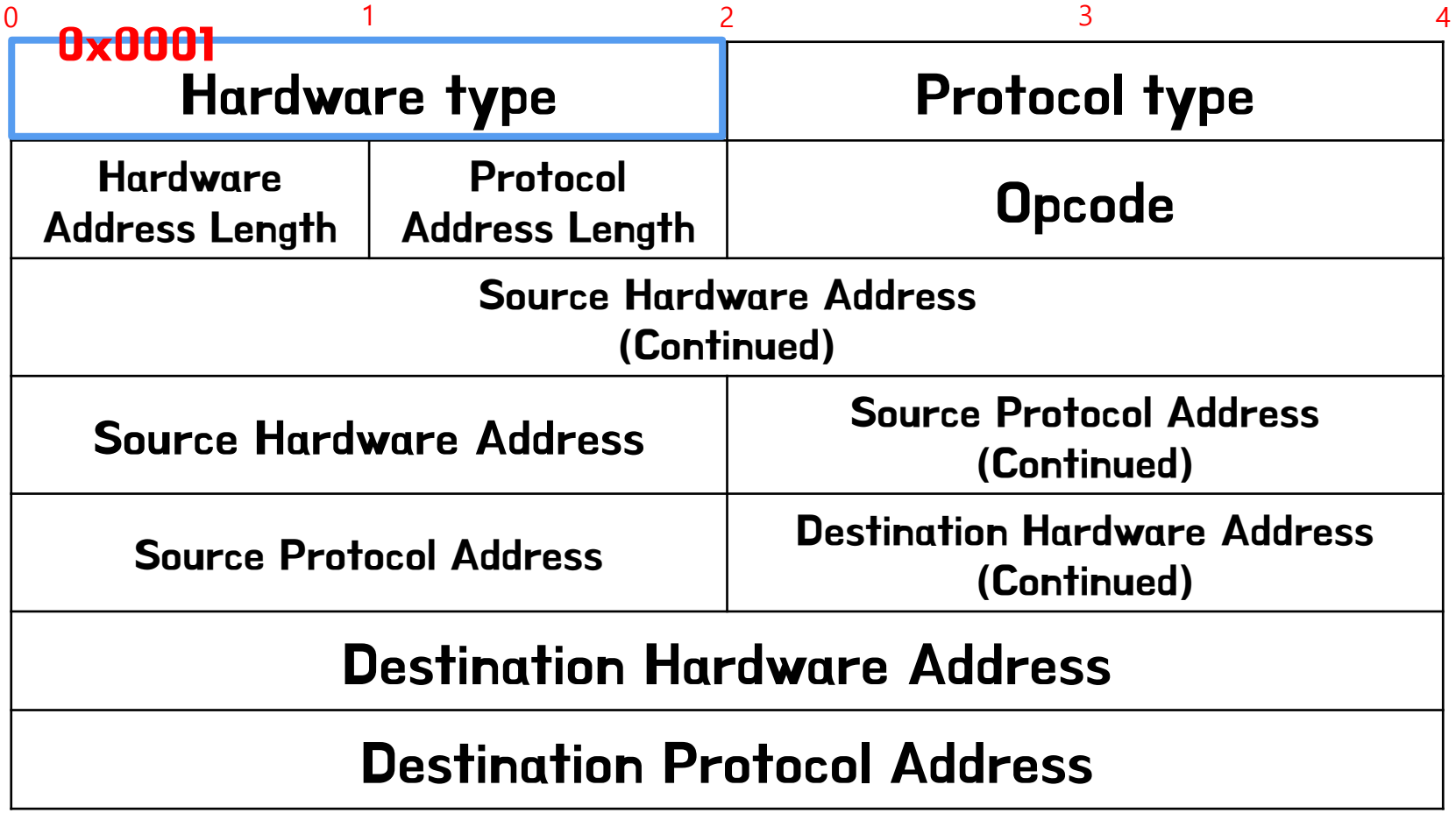

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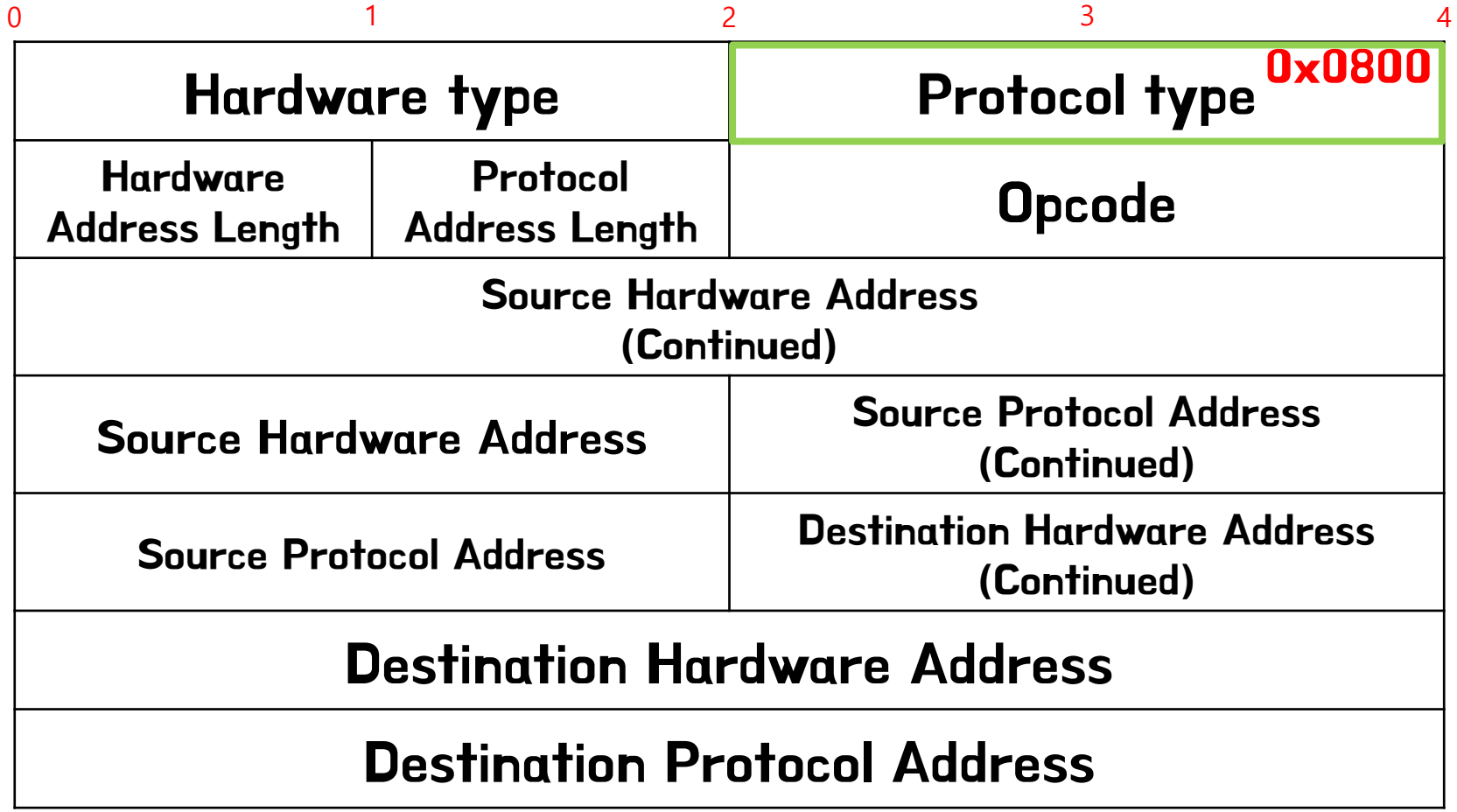

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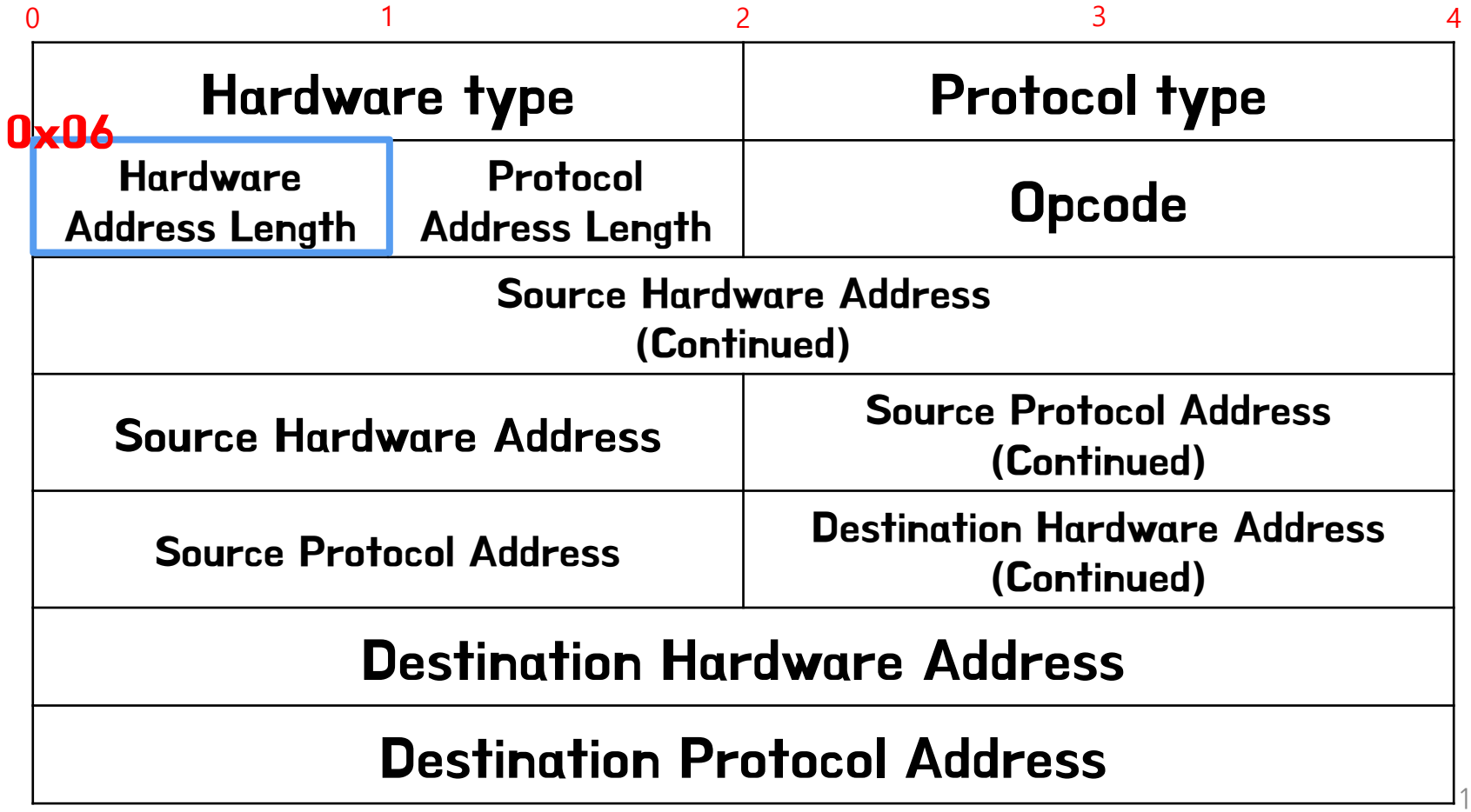

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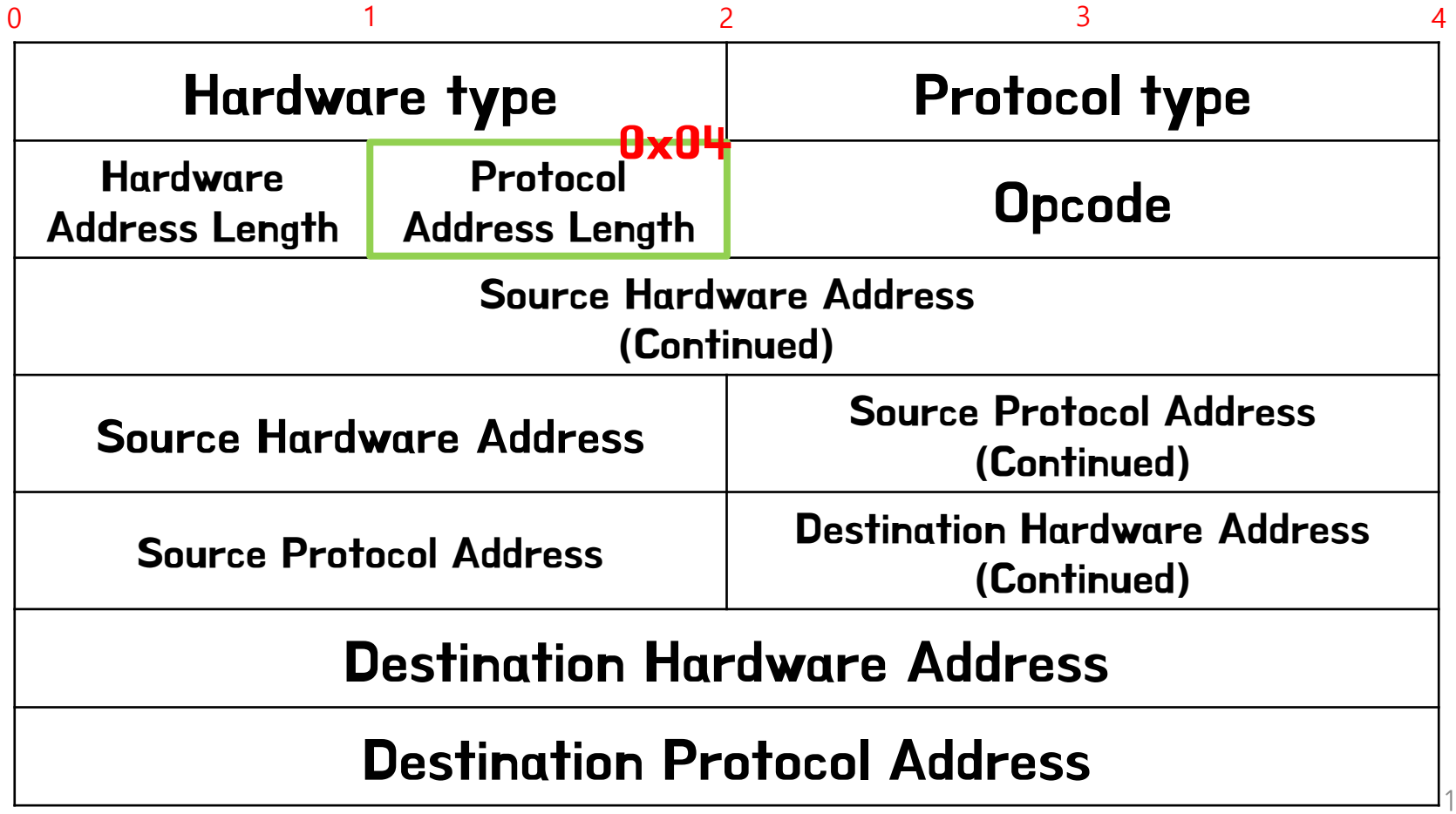

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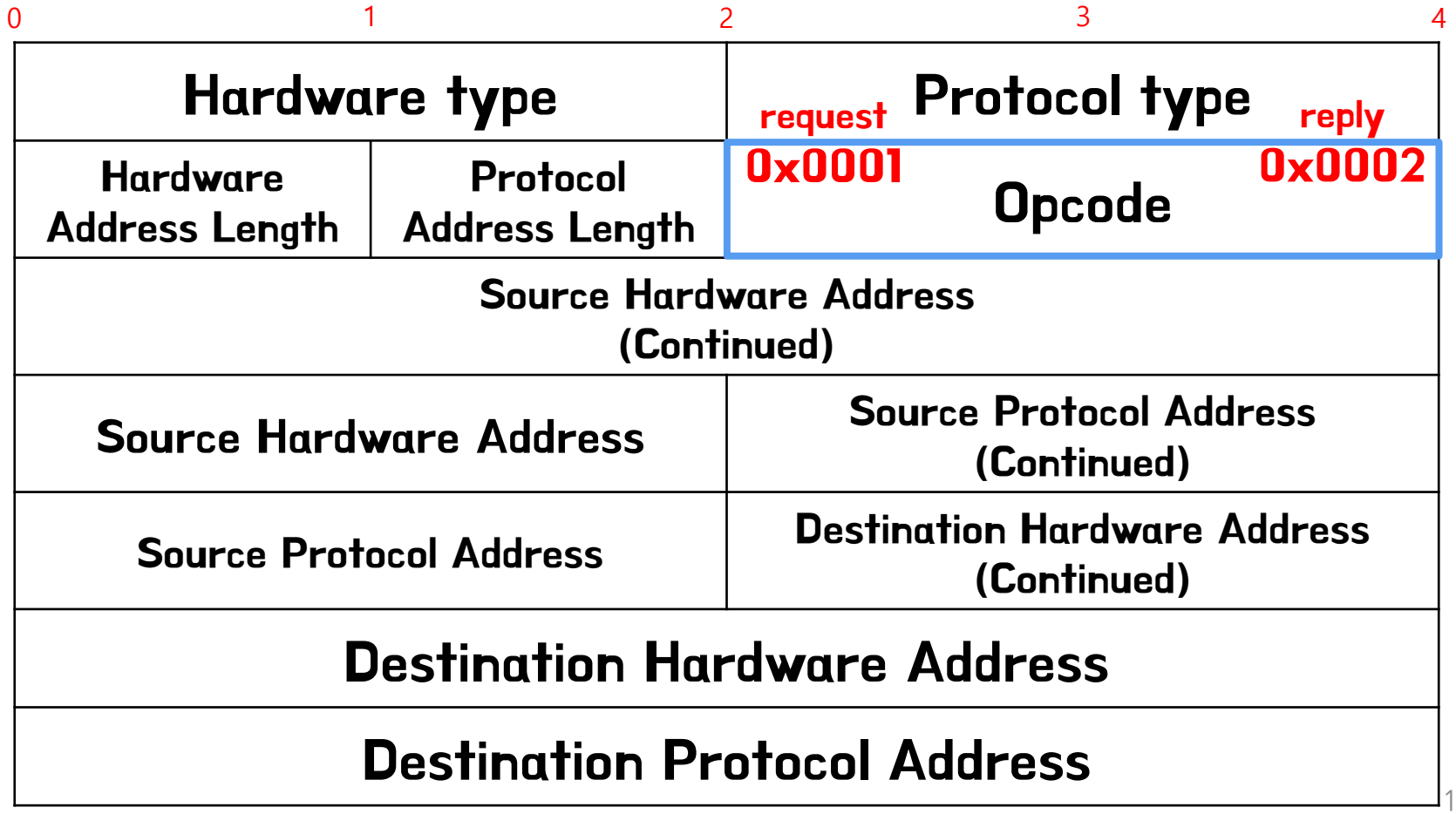
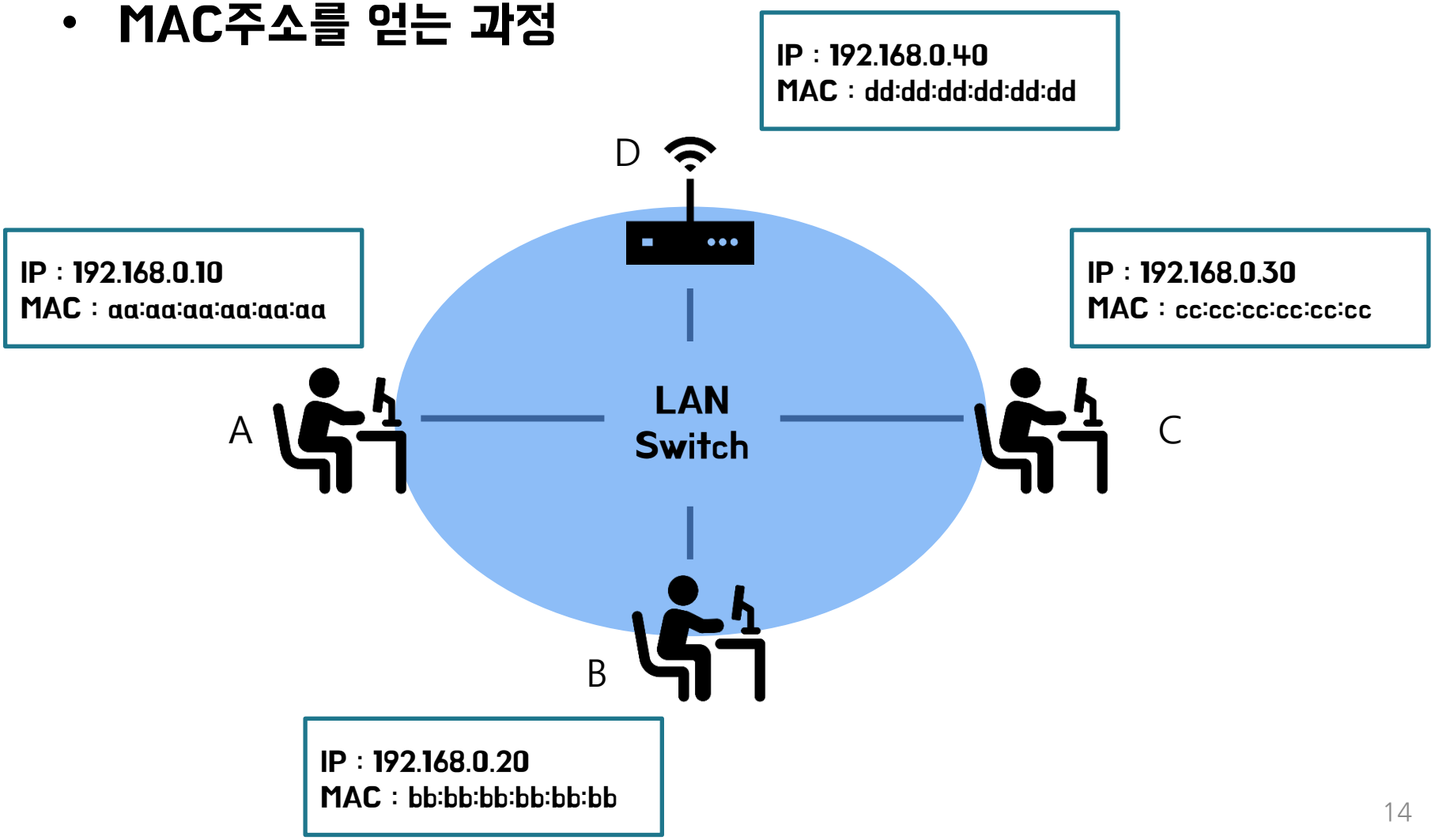


ARP 프로토콜 통신 과정

ARP 프로토콜 통신 과정

- MAC주소를 얻는 과정



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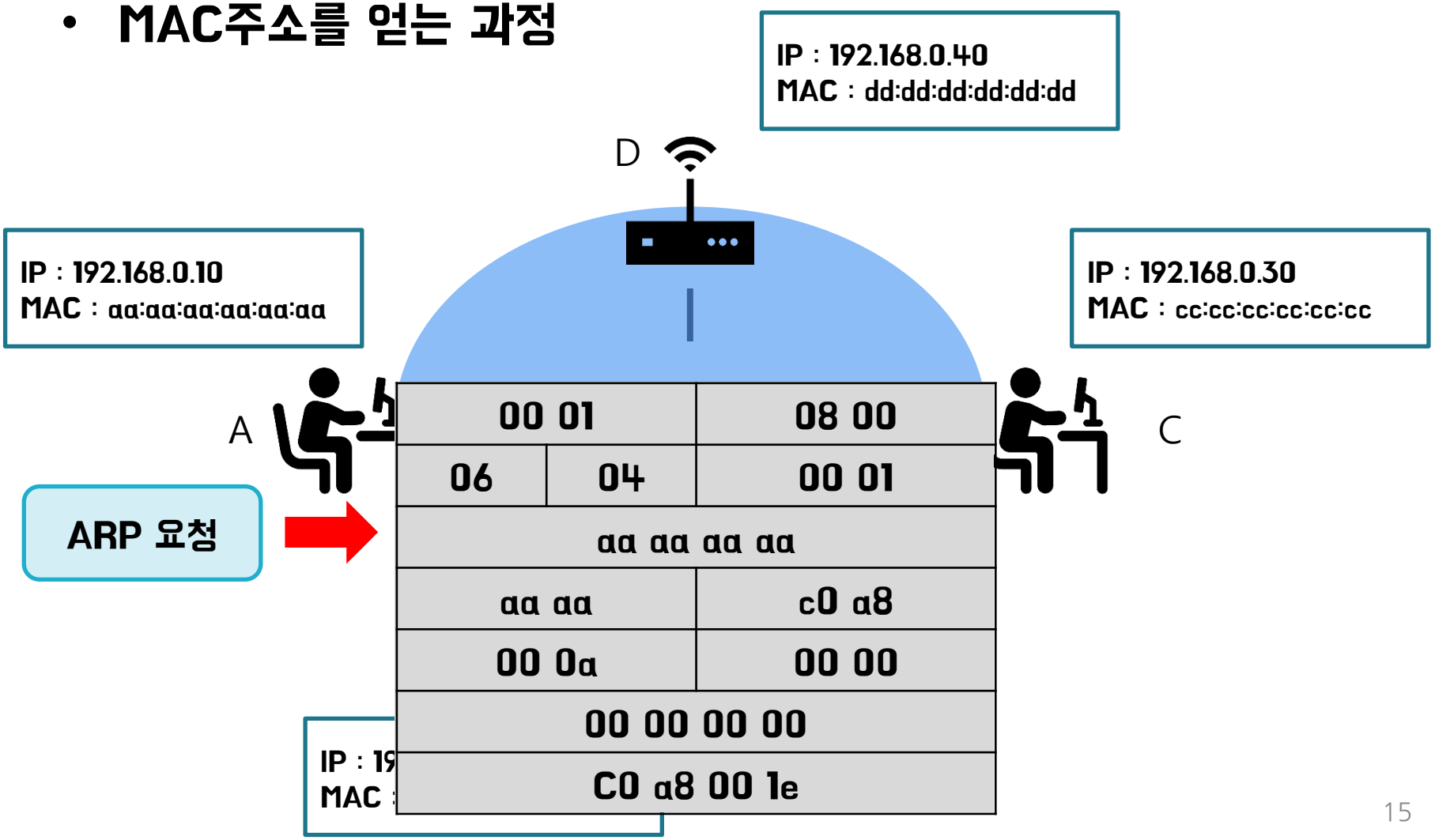

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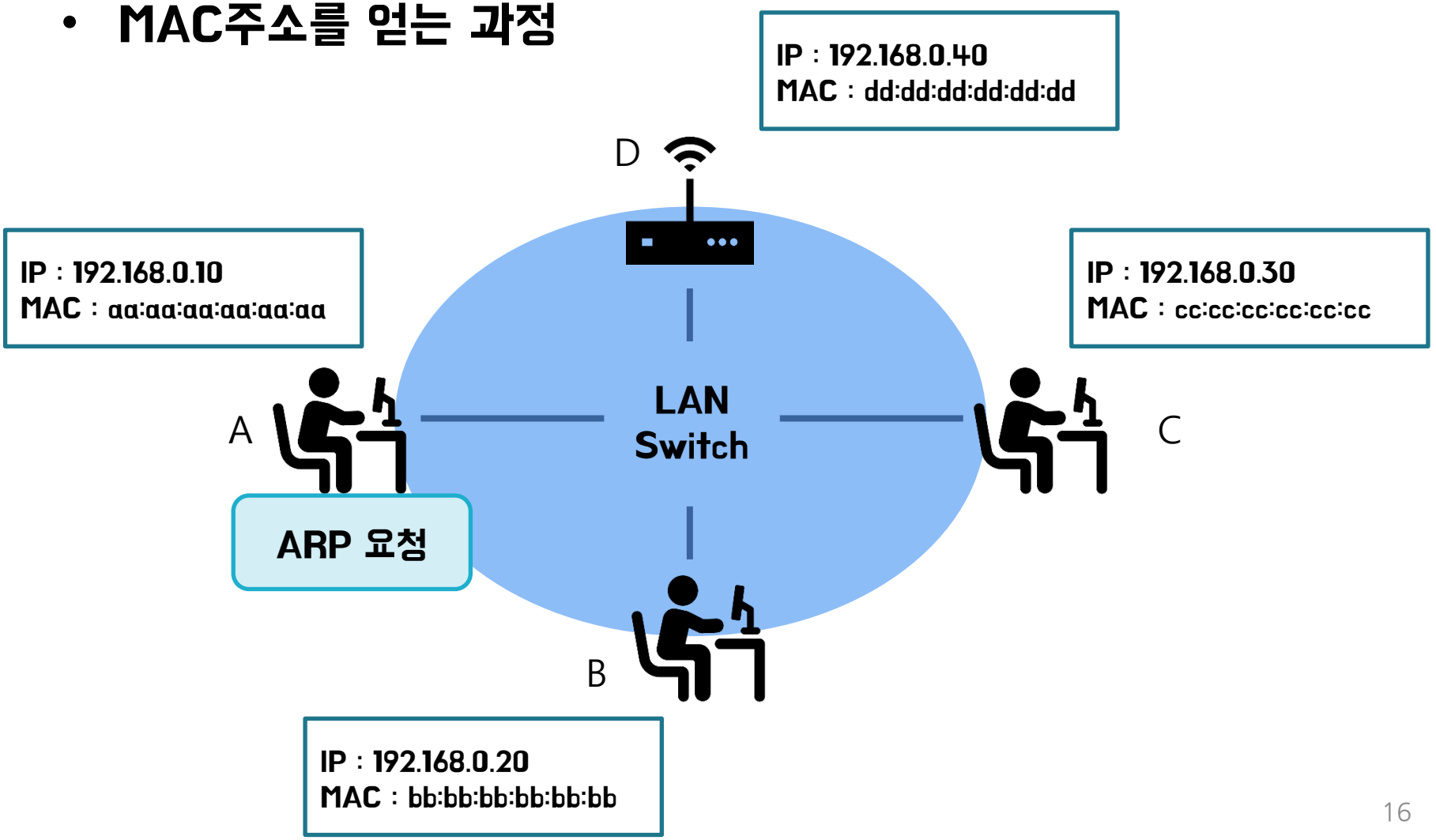

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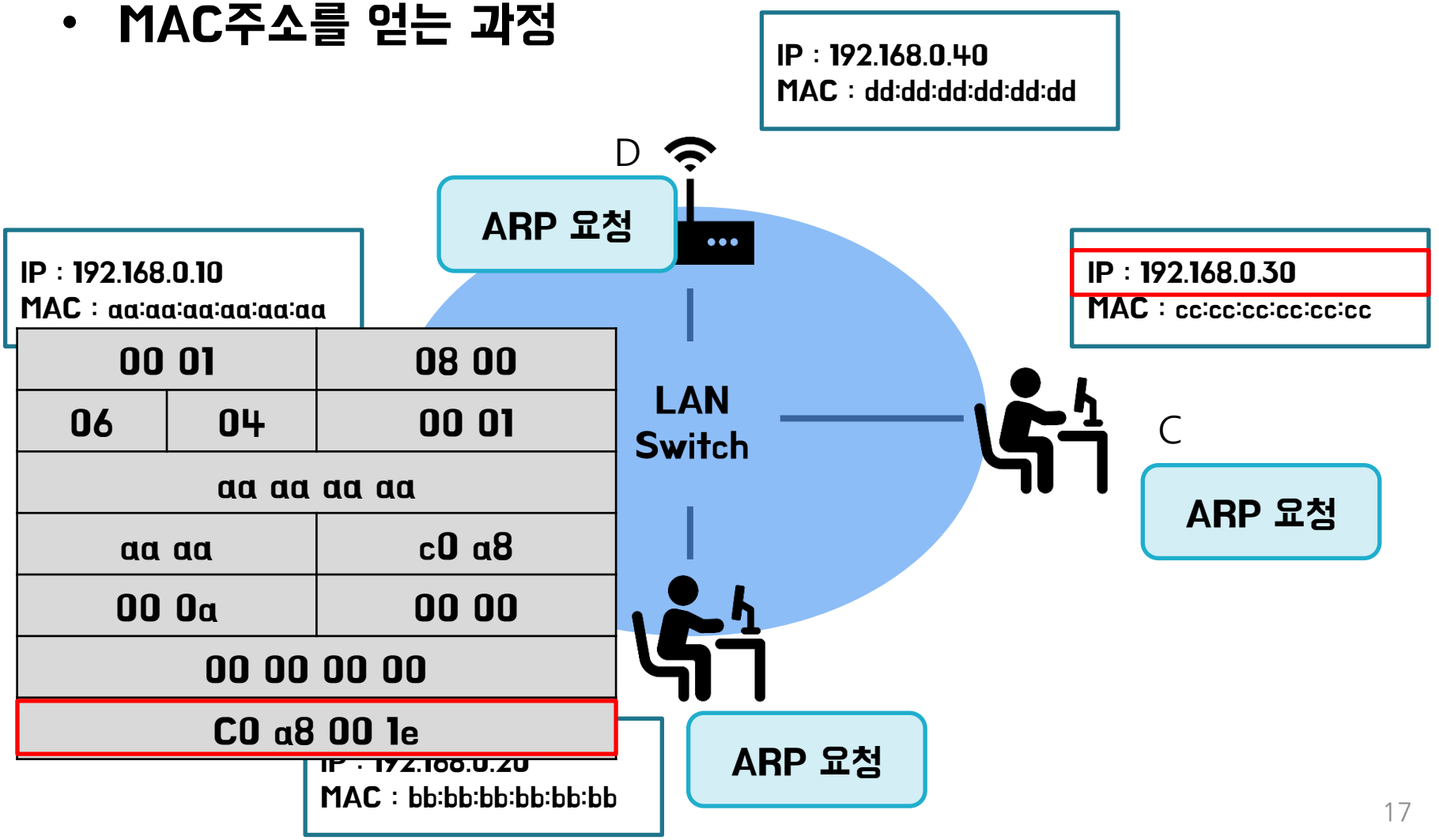

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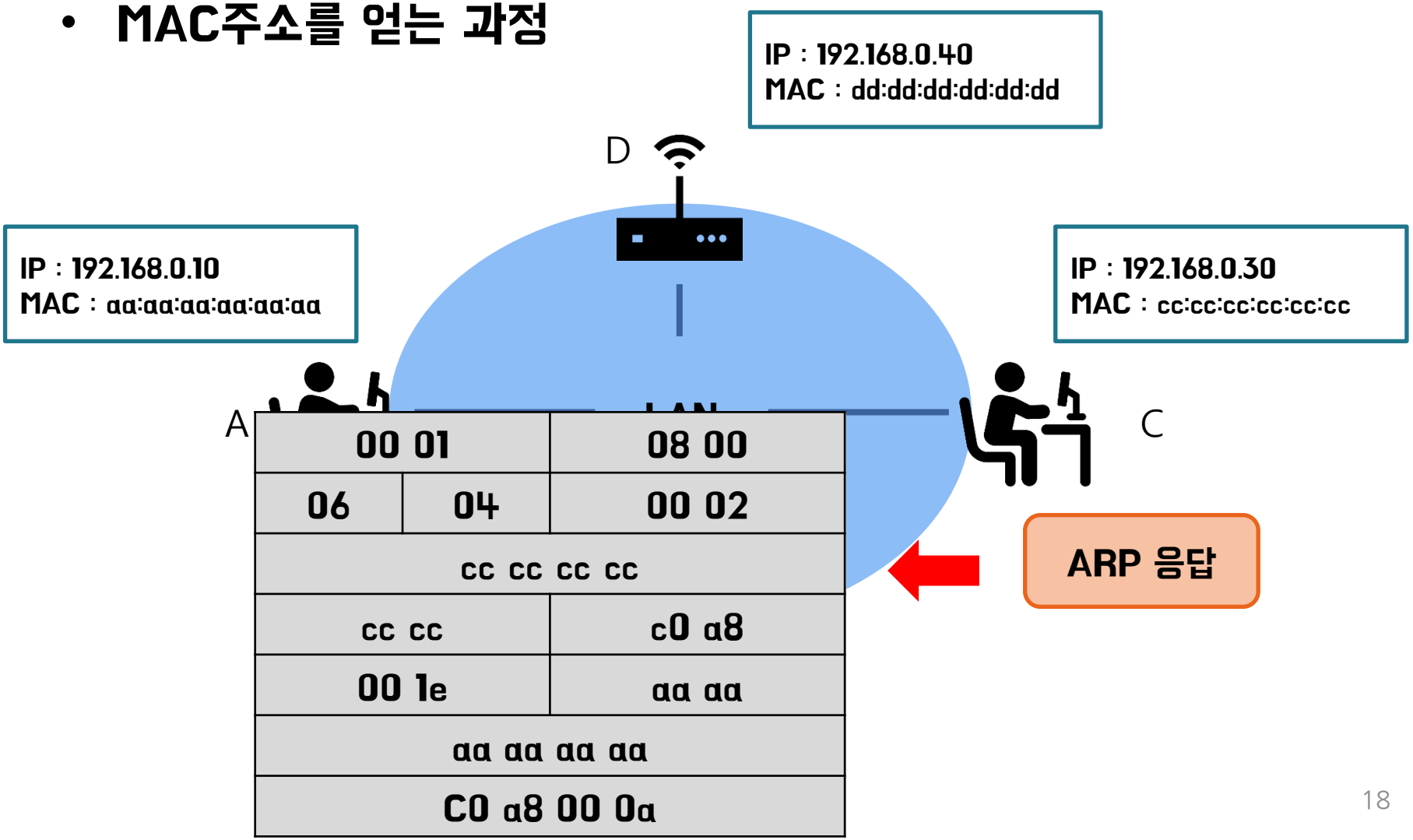

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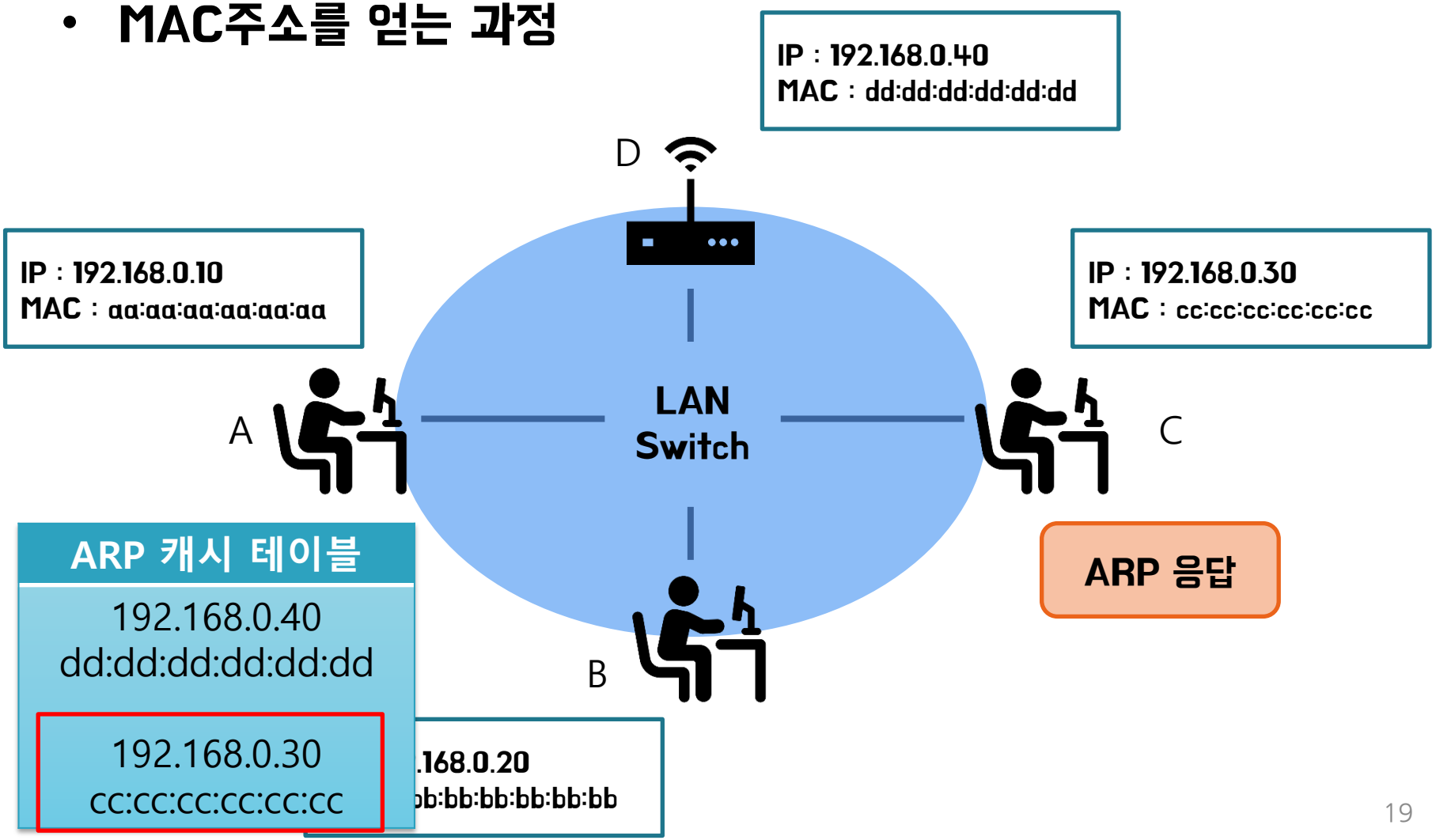
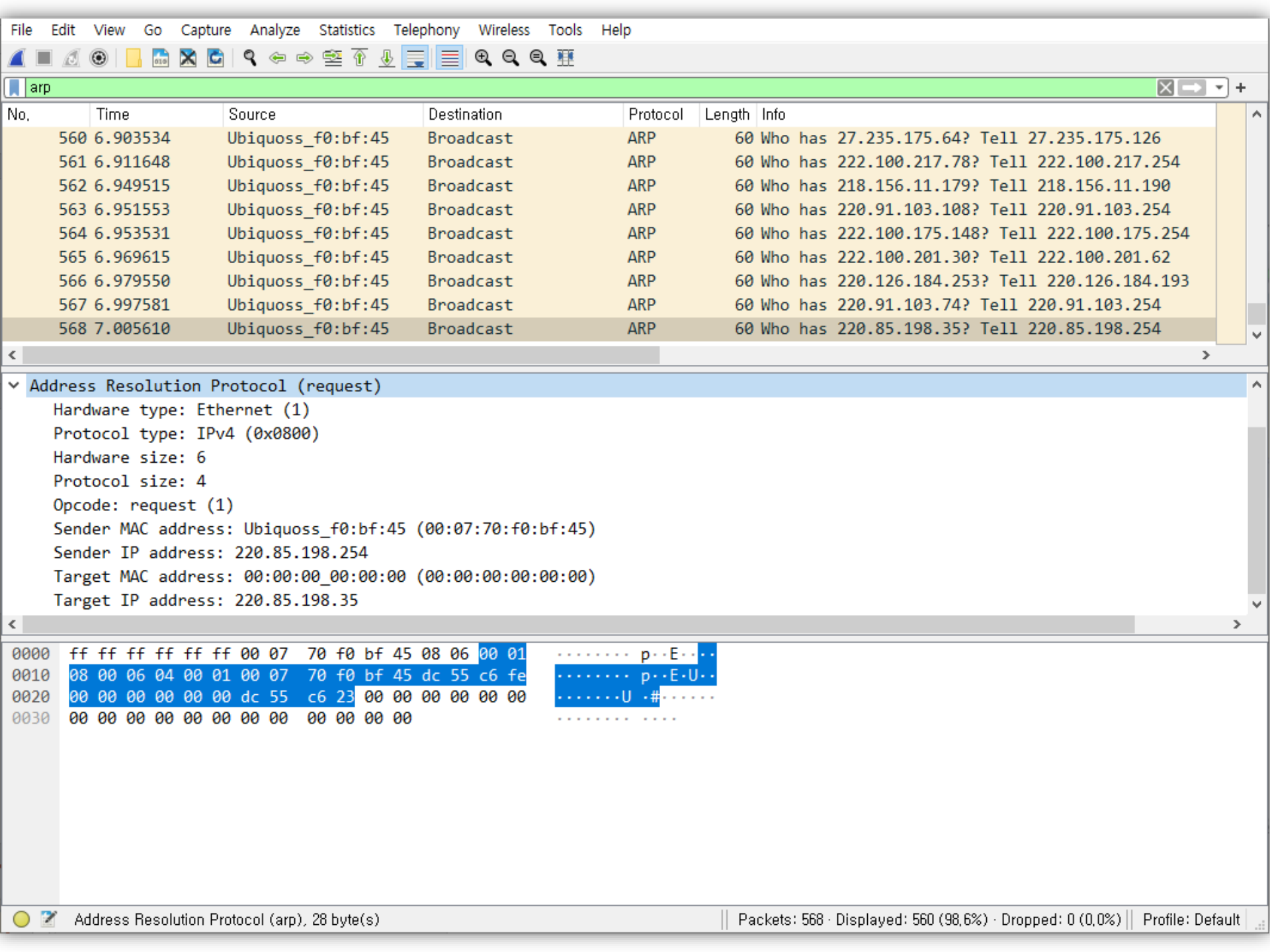
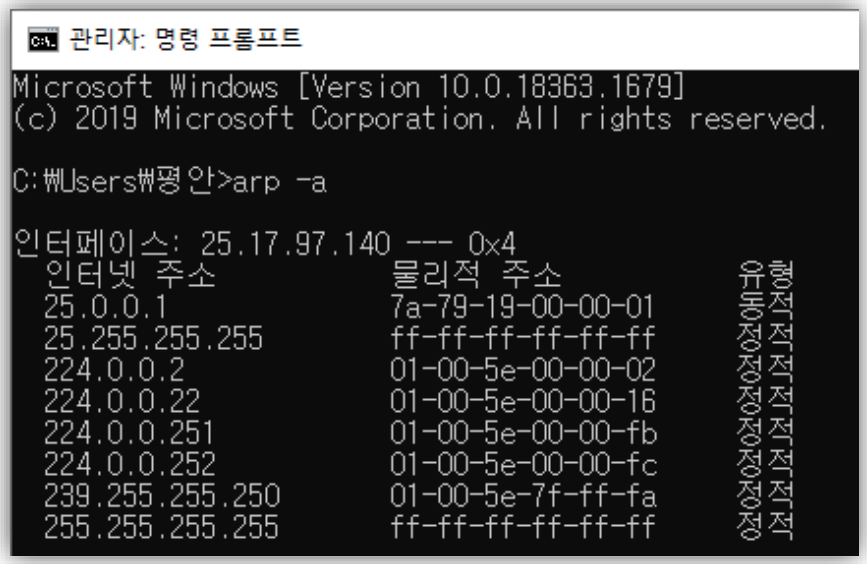



File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
arp
No. Time Source Destination Protocol Length Info
560 6.903534 Ubiquoss_f0:bf:45 Broadcast ARP 60 Who has 27.235.175.64? Tell 27.235.175.126
561 6.911648 Ubiquoss_f0:bf:45 Broadcast ARP 60 Who has 222.100.217.78? Tell 222.100.217.254
562 6.949515 Ubiquoss_f0:bf:45 Broadcast ARP 60 Who has 218.156.11.179? Tell 218.156.11.190
563 6.951553 Ubiquoss_f0:bf:45 Broadcast ARP 60 Who has 220.91.103.108? Tell 220.91.103.254
564 6.953531 Ubiquoss_f0:bf:45 Broadcast ARP 60 Who has 222.100.175.148? Tell 222.100.175.254
565 6.969615 Ubiquoss_f0:bf:45 Broadcast ARP 60 Who has 222.100.201.30? Tell 222.100.201.62
566 6.979550 Ubiquoss_f0:bf:45 Broadcast ARP 60 Who has 220.126.184.253? Tell 220.126.184.193
567 6.997581 Ubiquoss_f0:bf:45 Broadcast ARP 60 Who has 220.91.103.74? Tell 220.91.103.254
568 7.005610 Ubiquoss_f0:bf:45 Broadcast ARP 60 Who has 220.85.198.35? Tell 220.85.198.254
Address Resolution Protocol (request)
Hardware type: Ethernet (1)
Protocol type: IPv4 (0x0800)
Hardware size: 6
Protocol size: 4
Opcode: request (1)
Sender MAC address: Ubiquoss_f0:bf:45 (00:07:70:f0:bf:45)
Sender IP address: 220.85.198.254
Target MAC address: 00:00:00_00:00:00 (00:00:00:00:00:00)
Target IP address: 220.85.198.35
0000 ff ff ff ff ff ff 00 07 70 f0 bf 45 08 06 00 01
0010 08 00 06 04 00 01 00 07 70 f0 bf 45 dc 55 c6 fe
0020 00 00 00 00 00 00 dc 55 c6 23 00 00 00 00 00 00
0030 00 00 00 00 00 00 00 00 00 00 00 00
Address Resolution Protocol (arp), 28 byte(s)
Packets: 568 · Displayed: 560 (98,6%) · Dropped: 0 (0,0%)
Profile: Default

ARP 캐시 테이블

ARP 캐시 테이블
192.168.0.40 dd:dd:dd:dd:dd:dd
192.168.0.30 cc:cc:cc:cc:cc:cc



ARP -α

감사합니다