

States	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
A		B1													
B			C2												O3
C				D4											O5
D					E										
E						F6		H7							
F							G								
G								H							
H									I9						O8
I										J10	K11				
J											K				
K												L13			O12
L													M		
M														N	
N	A														
O	A														

	States
A	Idle
B	Hardware Type Check
C	Protocol Check
D	Merge_flag = False
E	Check ARPcache for Sender
F	Update ARPcache with Senders Info
G	Merge_flag = True
H	Self Destination Protocol Address Check
I	Merge_flag = False Check
J	Add Sender to ARPcache
K	Operation Code Request Check
L	Swap Fields into Sender Field
M	Set Operation Code to Reply
N	Send Packet to New Target Hardware
O	Discard Packet

	Transtitions
1	Packet Received
2	Hardware Type Is Supported
3	Hardware Type Not Supported
4	Protocol Type Is Supported
5	Protocol Type Not Supported
6	Sender Is In ARPcache
7	Sender Is Not In ARPcache
8	Not The Destination Protocol Address
9	This Is The Destination Address
10	Merge_field == False
11	Merge_field == True
12	Operation Code Is Reply
13	Operation Code Is Request

ARP Transition Matrix

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