Chapter 20: **ARP**

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Chapter 20 ARP

20.1 ARP overview

Address Resolution Protocol (ARP) is used to resolve an IP address into a data link layer address.

An IP address is the address of a host at the network layer. To send a network layer packet to adestination host, the device must know the data link layer address (such as the MAC address)of the destination host. To this end, the IP address must be resolved into the corresponding data link layer address.

Unless otherwise stated, the data link layer addresses that appear in this chapter refer to the48-bit Ethernet MAC addresses.

20.2 Configure ARP

20.2.1 ARP configuration list

Configuration Task	Description	Detailed Configuration
Add/Delete ARP	Required	20.2.2
Bind dynamic arp to static	Optional	20.2.3
Display ARP entry	Optional	20.2.4
Configure ARP aging-time	Optional	20.2.5

20.2.2 Add/Delete ARP

Operation	Command	Remarks
Enter global configuration mode	**system-view**	
Add ARP	**arp** *ip-address* **mac** *mac-address* **vid** *vlan-id* **port** *interface-num*	
Delete ARP	**undo arp** { all | static | dynamic | *ip-address* }	

20.2.3 Bind Dynamic ARP to static

Operation	Command	Remarks
Enter global configuration mode	**system-view**	
Bind dynamic arp	**arp bind dynamic** { *ip-address* | all }	

20.2.4 Display ARP Entry

Operation	Command	Remarks
Display arp entry	**display arp** { all | static | dynamic | *ip-address* | interface { vlan-interface *vlan-id* |supervlan-interface *vlan-id* } }	

20.2.5 Configure ARP Aging-time

Operation	Command	Remarks
Enter global configuration mode	**system-view**	
Configure ARP aging-time	**arp aging-time aging-time**	
Configure default ARP aging-time	**undo arp aging-time**	20minutes by default
Display arp aging-time	**display arp aging-time**	