Chapter 27: Static Multicast Table

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27.1 Static Multicast Table Overview

In addition to dynamic learning, multicast tables support manually configuration, and a manually configured multicast table is a static multicast table. The static multicast MAC table will not be aged and it cannot be lost after being saved.

At present, only the corresponding multicast entries of ipv4 can be static configured, and ipv6 multicast entries cannot be static configured.

27.2 Configure Static Multicast Table

27.2.1 Static Multicast GroupConfiguration List

Configuration Task	Description	Detailed Configuration
Create a Static Multicast Group	Required	27.2.2
Add a Port to the Multicast Group	Required	27.2.3
Create a Static Multicast Group based on Group IP	Optional	27.2.4
Display and Maintenance of Static MulticastTable	Optional	27.2.5

27.2.2 Create a Static Multicast Group

Operation	Command	Remarks
Enter global configuration mode	**system-view**	
Create a static multicast group	**multicast mac-address mac-address vlan vlan-id**	
Delete a static multicast group	**undo multicast [mac-address mac-address vlan vlan-id]**	

The parameter mac refers to the mac address of the multicast group. It is required to use the multicast address format, for example: 01: 00: 5e: **: **: **, ip refers to multicast ip, for example, 224.0.1.1; vlan-id refers to VLAN ID, with the range of 1 to 4094. It must be an existed VLAN. If the added static multicast group belongs to a VLAN that does not exist,, the multicast group fails to be added.

27.1.1 Add a Port to the Multicast Group

Operation	Command	Remarks
Enter global configuration mode	**system-view**	
Add a port to a static multicast group	**Multicast mac-address** *mac-address* **vlan** *vlan-id* **interface** { **all** | **ethernet** *interface-list* }	

Operation	Command	Remarks
Delte a por from static multicast group	**undo multicast mac-address** *mac-address* **vlan** *vlan-id* **interface** { **all** | **ethernet** *interface-list* }	

27.1.2 Create a Static Multicast Group based on Group IP

Operation	Command	Remarks
Enter global configuration mode	**system-view**	
Create a static multicast group based on group IP	**multicast ip-address** *ip-address* **vlan** *vlan-id*	
Delete a static multicast group based group IP	**undo multicast ip-address** *ip-address* **vlan** *vlan-id*	
Add a port to a static multicast group base on group IP	**multicast ip-address** *ip-address* **vlan** *vlan-id* **interface** { **all** | **ethernet** *interface-list* }	
Delte a por from static multicast group base on group IP	**undo multicast ip-address** *ip-address* **vlan** *vlan-id* **interface** { **all** | **ethernet** *interface-list* }	

27.1.1 Display and Maintenance of Static Multicast Table

Operation	Command	Remarks
DisplayStatic MulticastTable by MAC	**display multicast mac-address** *mac-address*	
DisplayStatic MulticastTable by IP	**display multicast ip-address** *ip-address*	