

MAC Address List Characteristic Configuration Commands

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CHAPTER 1 MAC ACCESS LIST CONFIGURATION COMMANDS

1.1. MAC Access List Configuration Commands

- mac access-list
- permit
- deny
- mac access-group

1.1.1. mac access-list

Description

To add a MAC access list, use the mac access-list command. To delete a MAC access list, use the mac access-list command.

[no] mac access-list *name*

Parameter

Parameter	Description
<i>name</i>	MAC access list name.

Default value

None

Command mode

Global configuration

Example

The following example establishes MAC access list named mac-acl:

```
Switch-config_# mac access-list mac-acl
```

```
Switch-config-macl#
```

1.1.2. permit

Description

To add a permit entry to the MAC access list, use the permit command. Use the no form of this command to delete a permit entry from the MAC access list.

[no] permit {any | host *src-mac-addr* | *src-mac-addr* *src-mac-addr-mask*} {any | host *dst-mac-addr* | *dst-mac-addr* *dst-mac-addr-mask*}[*ethertype*]

Parameter

Parameter	Description	Value range
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any	Any value	<input type="checkbox"/>
host	Host	<input type="checkbox"/>
src-mac-addr	Source MAC address	H.H.H
src-mac-addr-mask	Source MAC address mask	H.H.H
dst-mac-addr	Destination MAC address	H.H.H
dst-mac-addr-mask	Destination MAC address mask	H.H.H
<i>ethertype</i>	Types of the matching ethernet data packet.	0-0xFFFF

Default value

If there is no any entry is configured, the command is disabled; if one entry is configured and no **permit any any**, one **deny any any** will be added which means no flow of any entry will be dropped.

Command mode

MAC access list configuration mode

Example

The following example permits host whose source MAC address is 1234.5678.abcd:
Switch-config-macl#permit host 1234.5678.abcd any 0x806

1.1.3. deny

Syntax

To add a deny entry to the MAC access list, use the deny command. Use the no form of this command to delete a deny entry from the MAC access list.

[no] deny {any | host src-mac-addr | src-mac-addr src-mac-addr-mask } {any | host dst-mac-addr | dst-mac-addr dst-mac-addr-mask }[ethertype]

Parameter

Parameter	Description	Value range
any	Any value	<input type="checkbox"/>

host	Host	<input type="checkbox"/>
src-mac-addr	Source MAC address	H.H.H
src-mac-addr-mask	Source MAC address mask	H.H.H
dst-mac-addr	Destination MAC address	H.H.H
dst-mac-addr-mask	Destination MAC address mask	H.H.H
<i>ethertype</i>	Types of the matching ethernet data packet.	0-0xFFFF

Default value

If there is no any entry is configured, the command is disabled; if one entry is configured and no **permit any any**, one **deny any any** will be added which means no flow of any entry will be dropped.

Comamnd mode

MAC access list configuration mode

Example

The following example denies host whose source MAC address is 1234.5678.abcd:

```
Switch-config-macl#deny host 1234.5678.abcd any 0x806
```

1.1.4. mac access-group

Syntax

To apply the configured MAC access list in global configuration mode, use the `mac access-group` command. Use the `no` form of this command to delete the mac access-list.

[no] mac access-group *name*

Parameter

Parameter	Description
<i>name</i>	Name of the MAC access list.

Default value

No MAC access list is applied.

Command mode

PON port or uplink interface configuration

Example

The following example configures MAC access list named macacl on interface g0/1:

```
Switch_config_g0/1#mac access-group macacl
```