



MAC Address List Characteristic Configuration Commands

As our products undergo continuous development the specifications are subject to change without prior notice.

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Chapter 1 MAC Access List Configuration Commands

1.1 MAC Access List Configuration Commands

Mac access list configuration commands include:

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

1.1.1 `mac access-list`

Syntax

To add a MAC access list, use the **mac access-list** command. To delete a MAC access list, use the **no mac access-list** command.

[no] mac access-list *name*

Parameter

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

Default

If there is any entry is configured, one **deny any any** will be added at the end by default, and it is not displayed.

Command Mode

Global configuration mode

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`

Syntax

To add a permit entry to the MAC access list, use the **permit** command. To delete a permit entry to the MAC access list, use the **no permit** command.

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

Parameter

Parameter	Description	Value range
any	Any value	-
host	Host	-
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
arp	Matched arp message	-
src-ip-addr	Source IP address	A.B.C.D
dst-ip-addr	Destination IP address	A.B.C.D
<i>ethertype</i>	Types of the matching ethernet data packet.	0x0600-0xFFFF
<i>cos value</i>	Header mark of message	0-7

Default

Deny all.

Command Mode

MAC access list configuration mode

Example

The following example shows how to permit host whose source MAC address is 1234.5678.abcd:

```
Switch-config-macl#permit host 1234.5678.abcd any
```

1.1.3 deny

Syntax

To add/ delete a deny entry to the MAC access list, use the following command.

```
[no] deny {any | host src-mac-addr | src-mac-addr src-mac-mask } {any | host  
dst-mac-addr | dst-mac-addr dst-mac-mask}[ arp [{any | src-ip-addr} {any |  
dst-ip-addr}]] | ethertype | cos value]
```

Parameter

Parameter	Description	Value range
any	Any value	-

host	Host	-
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
arp	Matched arp message	-
src-ip-addr	Source IP address	A.B.C.D
dst-ip-addr	Destination IP address	A.B.C.D
<i>ethertype</i>	Types of the matching ethernet data packet.	0x0600-0xFFFF
<i>cos value</i>	Header mark of message	0-7

Default

Deny all.

Comamnd mode

MAC access list configuration mode

Example

The following example shows how to deny host whose source MAC address is 1234.5678.abcd:

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

1.1.4 mac access-group

Syntax

Apply the configured MAC access list in interface configuration mode or global configuration mode, or delete the MAC access list applied in interface configuration mode or global configuration mode.

Global configuration mode:

mac access-group *name* [**vlan** {*word* | **add word** | **remove word**}]

[**no**] **mac access-group** *name* [**vlan**]

Interface configuration mode:

[**no**] **mac access-group** *name*

Parameter

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

Vlan	The access list is applied to the inbound VLAN.
<i>Word</i>	VLAN range table
add	Add VLAN range table
remove	Remove VLAN range table

Default

No MAC access list is applied.

Command Mode

Use the command in layer-2 global or interface configuration mode. If the access list does not exist, an access list with no rule will be created.

Example

The following example shows how to configure MAC access list named macacl on interface g0/1:

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