

MAC Access List Configuration Commands



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Chapter 1 MAC Access List Configuration Commands

1.1 MAC Access List Configuration Commands

The MAC access list configuration commands include:

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

1.1.1 `mac access-list`

Syntax

To add or cancel a MAC access list, run the following command.

[no] `mac access-list` *name*

Parameters

Parameters	Description
<i>name</i>	MAC: Name of the MAC access list

Default Value

When there is a rule in the access list, an item- `deny any any-` will be added to the end by default and the item will not show.

Usage Guidelines

This command is run in global configuration mode.

Example

The following example shows how to configure a `mac-acl` MAC access list.

```
Switch-config# mac access-list mac-acl
Switch-config-macl#
```

1.1.2 permit

Syntax

To add or cancel an item to or from the MAC access list, run the following 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*]**

Parameters

Parameters	Description	Value Range
any	Any value	—
host	Chassis	—
<i>src-mac-addr</i>	Stands for source MAC address	H.H.H
<i>src-mac-mask</i>	Stands for source mac mask	H.H.H
<i>dst-mac-addr</i>	Stands for destination MAC address	H.H.H
<i>dst-mac-mask</i>	Stands for destination mac mask	H.H,H
arp	Stands for matched arp packets	—
<i>src-ip-addr</i>	Stands for source IP address	A.B.C.D
<i>dst-ip-addr</i>	Stands for the destination IP address	A.B.C.D
<i>ethertype</i>	Type of the matched Ethernet packet	0x0600-0xFFFF

Default Value

All items are rejected.

Usage Guidelines

This command is running in MAC access list configuration mode.

Example

The following example shows how to set the MAC address of a host to 1234.5678.abcd.

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

1.1.3 deny

Syntax

To add or cancel an item rejected by the MAC access list, run 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]
```

Parameters

Parameters	Description	Value Range
any	Any value	—
host	Chassis	—
src-mac-addr	Stands for source MAC address	H.H.H
src-mac-mask	Stands for source mac mask	H.H.H
dst-mac-addr	Stands for destination MAC address	H.H.H
dst-mac-mask	Stands for destination mac mask	H.H,H
arp	Stands for matched arp packets	—
src-ip-addr	Stands for source IP address	A.B.C.D
dst-ip-addr	Stands for the destination IP address	A.B.C.D
ethertype	Type of the matched Ethernet packet	0x0600-0xFFFF

Default Value

All items are rejected.

Usage Guidelines

This command is running in MAC access list configuration mode.

Example

The following example shows how to reject a host whose MAC address is 1234.5678.abcd.

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

1.1.4 mac access-group

Syntax

Global:

To apply the established MAC access list to an interface or in the global mode or cancel a MAC access list which is already applied to an interface or in the global mode, run the following command.

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

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

Port

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

Parameters

Parameters	Description
<i>name</i>	MAC: Name of the MAC access list
Vlan	THE ACCESS LIST IS APPLIED IN INGRESS.
<i>Word</i>	VLAN RANGE TABLE
add	ADD VLAN RANGE TABLE
remove	DELETE VLAN RANGE TABLE

Default Value

No MAC access list is applied to an interface.

Usage Guidelines

This command is configured in layer-2 interface configuration mode or the interface configuration mode. If there is no access list, an access list with the empty rule will be created.

Example

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

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