

# 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
<b>any</b>	Any value	—
<b>host</b>	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
<b>arp</b>	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 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
<b>any</b>	Any value	—
<b>host</b>	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
<b>arp</b>	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
<b>Vlan</b>	THE ACCESS LIST IS APPLIED IN INGRESS.
<i>Word</i>	VLAN RANGE TABLE
<b>add</b>	ADD VLAN RANGE TABLE
<b>remove</b>	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
```