

MACFF Configuration Commands

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Chapter 1 MACFF Configuration Commands

MACFF configuration commands include:

- `macff enable`
- `macff vlan vlan_id enable`
- `macff vlan vlan_id enable default-ar A.B.C.D`
- `macff vlan vlan_id enable other_ar A.B.C.D`
- `debug macff`

1.1.1 `macff enable`

Syntax

`macff enable`

`no macff enable`

To enable global MACFF, run **`macff enable`**. To resume the default value, run **`no macff enable`**.

Parameter

N/A

Default value

The MACFF function is disabled by default.

Remarks

N/A.

Example

The following example shows how to enable the MACFF function.

```
Switch_config#macff enable
```

```
Switch_config#
```

1.1.2 `macff vlan vlan_id enable`

Syntax

macff vlan *vlan_id* enable

no macff vlan *vlan_id* enable

Parameter

Parameter	Description
<i>vlan id</i>	Stands for the ID of a VLAN. Value range: 1-4094

Default value

N/A

Remarks

This command is used to enable MACFF in VLAN.

Example

The following example shows how to enable MACFF in VLAN2 and set its default gateway address to **192.168.1.1**.

```
Switch_config#arp 192.168.1.1 00:e0:0f:17:92:ed
```

```
Switch_config#macff vlan 2 enable
```

```
Switch_config#
```

1.1.3 `macff vlan vlan_id default-ar A.B.C.D`

Syntax

macff vlan *vlan_id* default-ar *A.B.C.D*

no macff vlan *vlan_id* default-ar *A.B.C.D*

To bind DHCP snooping to standby TFTP server, run **macff vlan *vlan_id* default-ar *A.B.C.D***.

Parameter

Parameter	Description
<i>A.B.C.D</i>	Stands for the IP address of default gateway.

Default value

There is no default gateway settings.

Remarks

This command is used when you set the IP address of the client host and the default gateway manually. Of course, you also need to add the DHCP snooping binding table manually.

Example

The following example shows how to set the address of MACFF binding gateway in vlan1 to **192.168.1.1** and the client's address to **192.168.1.10**.

```
Switch_config#arp 192.168.1.1 00:e0:0f:17:92:ed
```

```
Switch_config#ip source binding 6c-62-6d-59-18-b6 192.168.1.10 interface  
GigaEthernet0/1
```

```
Switch_config# macff vlan 1 default-ar 192.168.1.1
```

```
Switch_config#
```

1.1.4 macff vlan *vlan_id* enable other_ar *A.B.C.D*

Syntax

macff vlan *vlan_id* other_ar *A.B.C.D*

no macff vlan *vlan_id* other_ar *A.B.C.D*

Parameter

Parameter	Description
<i>A.B.C.D</i>	Stands for the IP address of service AR.

Default value

N/A

Remarks

When the network segment where the client host is has other service ARs and these ARs are only accessed by the client directly without the need of gateway to forwarding packets, this command can be used to add these service ARs.

Example

The following example shows how to set an AR with its IP being 192.168.2.254 and its MAC being 00:e0:0f:23:02:fc on port g0/1 in vlan1.

```
Switch_config#arp 192.168.2.254 00:e0:0f:23:02:fc
Switch_config#interface g0/1
Switch_config_g0/1# dhcp snooping trust
Switch_config_g0/1#exit
Switch_config#macff vlan vlan_id enable other_ar A.B.C.D
```

1.1.5 macff disable

Syntax

macff disable
no macff disable

Parameter

N/A

Default value

A specified port is allowed to enable MACFF.

Remarks

Though MACFF is enabled in a VLAN, MACFF can be disabled on one of the ports in this VLAN. The DHCP snooping functionality is not affected on this port after disabled its MACFF functionality.

Example

The following example shows how to disable MACFF on port g0/1.

```
Switch_config_g0/1#macff disable
Switch_config_g0/1#
```

1.1.6 debug macff

Syntax

debug macff

no debug macff

Parameter

N/A

Default value

N/A

Remarks

This command is used to enable or disable the MACFF debugging switch.

Example

The following example shows how to enable the debugging switch of MACFF.

```
Switch_config#debug macff
```

```
Switch_config#
```