

Virtualization Configuration Commands

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Chapter 1 Virtualization Configuration Commands

1.1 Virtualization Configuration Commands

Virtualization Configuration Commands include:

- `bvss`
- `bvss enable`
- `bvss domain-id`
- `bvss member-id`
- `bvss mode`
- `bvss priority`
- `bvss slot`
- `bvss interface`
- `bvss mac-address mode`

1.1.1 `bvss`

Syntax

To enter the virtualization configuration mode, run this command.

`bvss`

Parameters

None

Default Value

Disabled

Usage Guidelines

Run this command in configuration mode to enter the virtualization configuration mode. Other virtualization configuration commands must be run in virtualization configuration mode.

Example

The following example shows how to enter the virtualization configuration mode.

```
Switch_config#  
Switch_config#bvss  
Switch_config_bvss#
```

1.1.2 bvss enable

Syntax

To enable/disable the virtualization function, run the following commands. The command takes effect when the device restarts up.

bvss enable

[no] bvss enable

Parameters

None

Default Value

Disabled

Usage Guidelines

The command can be used when the virtualization function is enabled. The command takes effect only when the virtualization configuration is saved and the device restarts up.

Example

The following example shows how to enable the virtualization function:

```
Switch_config_bvss#
```

```
Switch_config_bvss#bvss enable
```

1.1.3 bvss domain-id

Syntax

bvss domain-id *id*

To set the virtualization domain and use the domain to differentiate the virtualization group, run this command. One device can only belong to one virtualization domain. Only devices in the same domain can establish the virtualization device.

Parameters

Parameters	Description
<i>id</i>	Stands for the virtualization domain ID, which ranges from 1 to 255.

Default Value

Default: 0

Usage Guidelines

The command is configured in the virtualization mode and set the domain ID of the virtualization device. Only devices of the same domain can be virtualized.

Example

The following example shows how to set the virtualization domain of the device to 1.

```
Switch_config_bvss#bvss domain-id 1
```

1.1.4 bvss member-id

Syntax

To set the member ID of the virtualization device, run the following command. The device within the same domain needs to set with different member IDs.

`bvss member-id` *id*

Parameters

Parameters	Description
<i>id</i>	The member ID of the virtualization device, which ranges from 1 to 2.

Default Value

Default: 0

Usage Guidelines

The command must be configured in the virtualization mode. The device within the same domain cannot configure with the same member ID.

Example

The following example shows how to set the member ID of the device to 1.

```
Switch_config_bvss# bvss member-id 1
```

1.1.5 bvss mode

Syntax

To set the virtualization mode, run this command. The virtualization mode has two types: normal and enhanced. The normal mode only supports the virtualization of two devices and the enhanced mode support virtualization of 4 devices.

bvss mode [normal | enhanced]

[no] bvss mode [normal | enhanced]

Parameters

None

Default Value

The default is the independent mode (no virtualization).

Usage Guidelines

The command is set in the virtualization configuration mode. It is the independent mode by default. After the virtualization is enabled, the virtualization mode must configure. At present the device only supports normal mode. Use the no form of this command to return to the default setting.

Example

The following example shows how to set the virtualization to normal mode.

```
Switch_config_bvss#bvss mode normal
```

1.1.6 bvss priority

Syntax

To set the priority of the device, run this command. The virtualization protocol is used in negotiating the master device. The device with the highest priority will be selected as the master device.

bvss priority *priority*

[no] bvss priority *priority*

Parameters

Parameters	Description
<i>priority</i>	Means the priority of the device, whose value ranges from 1 to 255.

Default Value

Default: 0

Usage Guidelines

The command is used to set the priority of the device in the virtualization configuration mode. The device with the highest priority in the same domain will be negotiated as the master device.

Example

The following example shows how to set the priority of the device to 5.

```
Switch_config_bvss#bvss priority 5
```


1.1.7 bvss slot

Syntax

To configure virtualization line cards, which are used to connect different devices in the same domain, run this command.

bvss slot *slot*

Parameters

Parameters	Description
<i>slot</i>	Slot number

Default Value

None

Usage Guidelines

In the virtualization configuration mode, the command is used to specify the virtualization line card. When there is a virtualized line card in the device, the virtualization negotiation can be carried out with the device in the same domain. Only two virtualization line cards can be configured at most.

Example

The following example shows how to configure slot 1 as virtualization line card:

```
Switch_config_bvss# bvss slot 1
```

1.1.8 bvss interface

Syntax

To set the virtualization port, run this command. The virtualization port can be used to connect different devices in the same domain.

bvss interface *num* **slot** *slot* **port** *port*

no bvss interface *num*

Parameters

Parameters	Description
<i>num</i>	The virtualized port number, which ranges from 1 to 8.
<i>slot</i>	The slot number of the virtualization port.
<i>Port</i>	The port number of the virtualization port.

Default Value

None

Usage Guidelines

The command is used to designate the virtualization port in the virtualization configuration mode. The virtualization ports are used to connect different devices and establish the virtualization domain.

Example

The following example shows how to configure the virtualization port to slot 1/1.

```
Switch_config_bvss# bvss interface 1 slot 1 port 1
```

There is no port type specified in this command. If the virtualized line cards are all TGigaEthernet ports, then TGigaEthernet1/1 is a virtualized port.

1.1.9 bvss mac-address mode

Syntax

To configure the MAC address of the virtualization system, run this command.

bvss mac-address mode [use-active-member | use-static-pool]

Use the mac address of the master device as the virtualization system mac.

bvss mac-address mode use-active-member

Use the mac in the reservation address pool as the virtualization system mac.

bvss mac-address mode use-static-pool

Parameters

None

Default Value

use-active-member mode

Usage Guidelines

The command is used to configure the virtualization system mac mode in the virtualization configuration mode.

Example

The following example shows how to set the mac of the master device to mac of the virtualization system.

```
Switch_config_bvss#bvss mac-address mode use-active-member
```

1.1.10 show bvss

Syntax

To show information of virtualization, run this command.

show bvss [current-config | running-config | management | statistics]

To show the current configuration of virtualization, run the following command. These configurations cannot take effect until they are saved and the device restarts up.

show bvss current-config

To show the running configuration of the virtualization, run the following command.

show bvss running-config

To show the virtualization management information, run the following command.

show bvss management

To show virtualization statistics information, run the following command.

show bvss statistics

Parameters

None

Default Value

None

Usage Guidelines

The command can be used in the configuration mode or the management mode. It shows the relevant information of the virtualization management.

Example

The following example shows how to display the virtualization running configuration, the current configuration and the management information.

```
Switch#show bvss running-config
```

bvss configuration information:

```
  bvss enable: TRUE
  bvss domain-id: 254
  bvss member-id : 1
  bvss mode: normal
  bvss priority: 4
  bvss mac-address mode: use-active-member
  bvss slot1: 1, slot2: 2
```

```
Switch#show bvss current-config
```

bvss configuration information:

```
  bvss enable: TRUE
  bvss domain-id: 1
  bvss member-id : 1
  bvss mode: normal
  bvss priority: 5
  bvss mac-address mode: use-active-member
  bvss slot1: 1, slot2: 2
```

```
Switch#show bvss management
```

bvss management information:

```
  active member: 2, standby member: 1
  lgroup: , rgroup: 10,13
  orphan group:-1, normal group:-1
  HT[l]:, HT[r]:, HT[a]:7,17
  internal topology:2
  present slot:1
  SL slot1:1, slot2:2
  HTLc slot1:0, slot2:0
  slot a:0,b:0
  my member_id:1 topo distance:
  L to member 1: unknown R to member 1:unknown
  L to member 2: unknown R to member 2:1
  L to member 3: unknown R to member 3:unknown
  L to member 4: unknown R to member 4:unknown
  hg route
  to member 1: local
  to member 2: r
  to member 3: unreachable
  to member 4: unreachable
```

1.1.11 debug bvss

Syntax

To debug bvss, run this command.

debug bvss [event | message | packet]

To enable the virtualized event debug information, run the following command.

debug bvss event

To enable the virtualized message debug information, run the following command.

debug bvss message

To enable the virtualized packet debug information, run the following command.

debug bvss packet

Parameters

None

Default Value

None

Usage Guidelines

The command is used to show the debug log information of the virtualization module.

Example

None

1.2 Configuration Example

The following example shows how to set the virtualization normal mode.

```
bvss enable
bvss mode normal
bvss domain-id 254
bvss member-id 1
bvss priority 4
bvss slot 1
bvss interface 1 slot 1 port 1
bvss interface 2 slot 1 port 2
!
interface TGigaEthernet1/1
bvss-link-group 2
!
interface TGigaEthernet1/2
bvss-link-group 2
!
```

The above command specifies slot 1 as the virtualization card, and TGigaEthernet1/1 and TGigaEthernet1/2 as the virtualization ports. The remaining ports on Slot 1 can be used as service