

Backuplink Configuration Commands

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Chapter 1 Backup Link Configuration Commands

1.1 Global Configuration Commands

1.1.1 backup-link-group *id*

Syntax

To set the BackupLink group, run the following command:

backup-link-group *id*

To delete the BackupLink group, run the following command:

no backup-link-group *id*

Parameter

Parameter	Description
Id	Stands for the instance ID of the backuplink group, ranging from 1 to 8.

Default

The backuplink group is not configured by default.

Command Mode

Global configuration mode

Usage Guidelines

None

Example

```
Switch_config#backup-link-group 1
Switch_config#
```

Related Command

None

1.1.2 backup-link-group *id* preemption-mode forced {delay *value*}

Syntax

To set the port-based preemption mode for the backuplink group, run the following command:

backup-link-group *id* preemption-mode forced {delay *value*}

To delete the port-based preemption mode for the backuplink group, run the following command:

no backup-link-group *id*

Parameter

Parameter	Description
id	Stands for the instance ID of the backuplink group, ranging from 1 to 8.
value	Stands for the delay time, ranging from 0s to 60s.

Default

The backuplink group has not been set with the trait of port-based preemption by default.

Command Mode

Global configuration mode

Usage Guidelines

The **backup-link-group id preemption-mode forced {delay *value*}** command can be used to create the backuplink group directly.

Example

```
Switch_config#backup-link-group 1 preemption-mode forced delay 5
Switch_config#
```

Related Command

[backup-link-group id](#)

[backup-link-group id preemption-mode bandwidth {delay *value*}](#)

1.1.3 backup-link-group *id* preemption-mode bandwidth {delay *value*}

Syntax

To set port bandwidth preemption mode for the backuplink group, run the following command:

backup-link-group *id* preemption-mode bandwidth {delay *value*}

To delete port bandwidth preemption mode for the backuplink group, run the following command:

no backup-link-group *id*

Parameter

Parameter	Description
id	Stands for the instance ID of the backuplink group, ranging from 1 to 8.
value	Stands for the delay time, ranging from 0s to 60s.

Default

The backuplink group has not been set with the trait of port bandwidth preemption by default.

Command Mode

Global configuration mode

Usage Guidelines

None

Example

```
Switch_config#backup-link-group 1 preemption-mode bandwidth delay 5
Switch_config#
```

Related Command

[backup-link-group *id*](#)

[backup-link-group *id* preemption-mode forced {delay *value*}](#)

1.1.4 monitor-link-group *id*

Syntax

To set the MonitorLink group, run the following command:

monitor-link-group *id*

To delete the MonitorLink group, run the following command:

no monitor-link-group *id*

Parameter

Parameter	Description
Id	Stands for the instance ID of the monitorlink group, ranging from 1 to 8.

Default

The MonitorLink group is not configured by default.

Command Mode

Global configuration mode.

Usage Guidelines

None

Example

```
Switch _config# monitor-link-group 1
Switch_config#
```

Related Command

None

1.2 Port Configuration Commands

1.2.1 backup-link-group *id* active

Syntax

To set a port to be an active port, run the following command:

backup-link-group *id* active

To cancel the active port, run the following command:

no backup-link-group *id*

Parameter

Parameter	Description
id	Stands for the instance ID of the backuplink group, ranging from 1 to 8.

Default

The primary port is not configured by default.

Command Mode

The physical port configuration mode and the aggregation port configuration mode

Usage Guidelines

If the backuplink group is not established, it will be automatically created when you configure the backuplink group on a port directly.

Example

```
Switch_config#interface gigaEthernet 0/1
Switch_config_g0/1#backup-link-group 1 active
Switch_config_g0/1#exit
```

Related Command

[backup-link-group *id*](#)

[backup-link-group *id* backup](#)

1.2.2 backup-link-group *id* backup

Syntax

To set a port to be a backup port, run the following command:

backup-link-group *id* backup

To cancel the backup port, run the following command:

no backup-link-group *id*

Parameter

Parameter	Description
Id	Stands for the instance ID of the backuplink group, ranging from 1 to 8.

Default

The backup port is not configured by default.

Command Mode

The physical port configuration mode and the aggregation port configuration mode

Usage Guidelines

If the backuplink group is not established, it will be automatically created when you configure the backuplink group on a port directly.

Example

```
Switch_config#interface gigaEthernet 0/1
Switch_config_g0/1#backup-link-group 1 backup
Switch_config_g0/1#exit
```

Related Command

[backup-link-group *id*](#)

[backup-link-group *id* active](#)

1.2.3 share-load vlan *vlanmap*

Syntax

To set VLAN load balance for the backup port, run the following command:

share-load vlan *vlanmap*

To delete VLAN load balance for the backup port, run the following command:

no share-load vlan

Parameter

Parameter	Description
vlanmap	Stands for the VLAN value, ranging from 1 to 4049.

Default

VLAN load balance is not set for the backup port by default.

Command Mode

The physical port configuration mode and the aggregation port configuration mode

Usage Guidelines

This command can be set only on the backup port, that is, a port must be set to be a backup port before VLAN load balance is set on the port.

Different BackupLink groups can be set to have the same VLAN group or the overlapped VLAN segments. If there are overlapped VLAN segments, the system will classify these VLANs into different MSTs (STGs) and conduct operations toward a group of ports, the statuses of these ports in different MSTs vary. So, you'd better rule out those overlapped VLAN groups when configuring load balance for VLANs.

Example

```
Switch_config#interface gigaEthernet 0/1
Switch_config_g0/1# share-load vlan 100-200
Switch_config_g0/1#exit
```

Related Command

[backup-link-group id](#)

[backup-link-group id backup](#)

1.2.4 backup-link-group mmu transmit

Syntax

To set MMU transmission for the ports of the backuplink group, run the following command:

backup-link-group mmu transmit

To delete MMU transmission for the ports of the backuplink group, run the following command:

no backup-link-group mmu

Parameter

None

Default

The MMU transmission function for the ports of the backuplink group is not set by default.

Command Mode

The physical port configuration mode and the aggregation port configuration mode

Usage Guidelines

Only the ports of the backuplink group can be set to **transmit**, that is, the ports must be set to **active** or **backup**.

Example

```
Switch_config#interface gigaEthernet 0/1
Switch_config_g0/1#backup-link-group mmu transmit
Switch_config_g0/1#exit
```

Related Command

[backup-link-group id](#)

1.2.5 backup-link-group mmu receive

Syntax

To set MMU reception for ports, run the following command:

backup-link-group mmu receive

To delete MMU reception for ports, run the following command:

no backup-link-group mmu

Parameter

None

Default

The MMU reception function for the ports is not set by default.

Command Mode

The physical port configuration mode and the aggregation port configuration mode

Usage Guidelines

The ports that are set to **receive** are not necessarily the ports of the backuplink group.

Example

```
Switch_config#interface gigaEthernet 0/1
Switch_config_g0/1#backup-link-group mmu receive
Switch_config_g0/1#exit
```

Related Command

None

1.2.6 monitor-link-group *id* uplink

Syntax

To set a port to be an uplink port, run the following command:

monitor-link-group *id* uplink

To cancel the uplink port configuration, run the following command:

no monitor-link-group *id*

Parameter

Parameter	Description
Id	Stands for the instance ID of the monitorlink group, ranging from 1 to 8.

Default

The uplink port is not configured by default.

Command Mode

The physical port configuration mode and the aggregation port configuration mode

Usage Guidelines

If the Monitorlink group is not established, it will be automatically created when you configure the Monitorlink group on a port directly.

Example

```
Switch_config#interface gigaEthernet 0/1
Switch_config_g0/1# monitor-link-group 1 uplink
Switch_config_g0/1#exit
```

Related Command

[monitor-link-group *id*](#)

[monitor-link-group *id* downlink](#)

1.2.7 monitor-link-group *id* downlink

Syntax

To set a port to be a downlink port, run the following command:

monitor-link-group *id* downlink

To cancel the downlink port configuration, run the following command:

no monitor-link-group *id*

Parameter

Parameter	Description
Id	Stands for the instance ID of the monitorlink group, ranging from 1 to 8.

Default

The downlink port is not configured by default.

Command Mode

The physical port configuration mode and the aggregation port configuration mode

Usage Guidelines

If the Monitorlink group is not established, it will be automatically created when you configure the Monitorlink group on a port directly.

Example

```
Switch_config#interface gigaEthernet 0/1
Switch_config_g0/1# monitor-link-group 1 downlink
Switch_config_g0/1#exit
```

Related Command

[monitor-link-group id](#)

[monitor-link-group id uplink](#)

1.3 Show Configuration Commands

1.3.1 show backup-link-group *id*

Syntax

To display the information about the backuplink group, run the following command:

show backup-link-group *id*

Parameter

Parameter	Description
Id	Stands for the instance ID of the backuplink group, ranging from

	1 to 8.
--	---------

Default

None

Command Mode

Monitoring mode, global configuration mode, node configuration mode or port configuration mode

Usage Guidelines

None

Example

Switch_config# show backup-link-group 1

Active Interface	Backup Interface	State	Vlan State

GigaEthernet0/2	GigaEthernet0/4	Forward/Block	Block/Block

Share load vlan: 100-200,port[GigaEthernet0/4] vlan state: Forwarding

Preemption Mode: No Preempt

Preemption Delay: 0 seconds

Related Command

None

1.3.2 show monitor-link-group *id***Syntax**

To display the information about the monitorlink group, run the following command:

show monitor-link-group *id*

Parameter

Parameter	Description
Id	Stands for the instance ID of the monitorlink group, ranging from 1 to 8.

Default

None

Command Mode

Monitoring mode, global configuration mode, node configuration mode or port configuration mode

Usage Guidelines

None

Example

```
Switch_config#show monitor-link-group 1
uplink interface: GigaEthernet0/2      Forwarding
downlink interface:
    GigaEthernet0/1      Forwarding
    GigaEthernet0/3      Forwarding
```

Related Command

None