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## Backuplink Configuration Commands

# Table of Contents

Chapter 1 BackupLink Configuration Commands .....	1
1.1 Global Commands .....	1
1.1.1 backup-link-group <i>id</i> .....	1
1.1.2 backup-link-group <i>id</i> preemption-mode forced { <i>delay value</i> } .....	2
1.1.3 backup-link-group <i>id</i> preemption-mode bandwidth { <i>delay value</i> } .....	2
1.1.4 monitor-link-group <i>id</i> .....	3
1.2 Port Configuration Commands .....	4
1.2.1 backup-link-group <i>id</i> active .....	4
1.2.2 backup-link-group <i>id</i> backup .....	5
1.2.3 share-load vlan <i>vlanmap</i> .....	6
1.2.4 backup-link-group mmu transmit .....	7
1.2.5 backup-link-group mmu receive .....	8
1.2.6 monitor-link-group <i>id</i> uplink .....	8
1.2.7 monitor-link-group <i>id</i> downlink .....	9
1.3 Show .....	10
1.3.1 show backup-link-group <i>id</i> .....	10
1.3.2 show monitor-link-group <i>id</i> .....	11

# Chapter 1 BackupLink Configuration Commands

## 1.1 Global Commands

### 1.1.1 backup-link-group *id*

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.

#### Default value

The backuplink group is not configured by default.

#### Command mode

Global configuration mode

#### Explanation

N/A.

#### Example

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

#### Related command

N/A.

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

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.
value	Stands for the delay time.

#### Default value

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

#### Command mode

Global configuration mode

#### Explanation

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*}

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.
value	Stands for the delay time.

#### Default value

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

#### Command mode

Global configuration mode

#### Explanation

N/A.

#### 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*

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.

## Default value

The MonitorLink group is not configured by default.

## Command mode

This command is run in global configuration mode.

## Explanation

N/A.

## Example

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

## Related command

N/A.

## 1.2 Port Configuration Commands

### 1.2.1 backup-link-group *id* active

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.

## Default value

The primary port is not configured by default.

### Command mode

The physical port configuration mode and the converged port configuration mode

### Explanation

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

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.

### Default value

The backup port is not configured by default.

### Command mode

The physical port configuration mode and the converged port configuration mode



## Explanation

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*

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.

## Default value

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

## Command mode

The physical port configuration mode and the converged port configuration mode

## Explanation

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

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

N/A.

### Default value

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 converged port configuration mode

### Explanation

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

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

N/A.

Default value

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

Command mode

The physical port configuration mode and the converged port configuration mode

Explanation

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

N/A.

### 1.2.6 monitor-link-group id uplink

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.

## Default value

The uplink port is not configured by default.

## Command mode

The physical port configuration mode and the converged port configuration mode

## Explanation

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

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.

### Default value

The downlink port is not configured by default.

### Command mode

The physical port configuration mode and the converged port configuration mode

### Explanation

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

### 1.3.1 show backup-link-group *id*

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.

## Default value

N/A.

## Command mode

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

## Explanation

N/A.

## 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

N/A.

1.3.2 show monitor-link-group *id*

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.

**Default value**

N/A.

**Command mode**

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

**Explanation**

N/A.

**Example**

```
Switch_config#show monitor-link-group 1
```

```
uplink interface: GigaEthernet0/2    Forwarding
```

```
downlink interface:
```

```
    GigaEthernet0/1    Forwarding
```

```
    GigaEthernet0/3    Forwarding
```

**Related command**

N/A.