Backuplink Configuration Commands

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Chapter 1 Backuplink Configuration Commands

1.1 Global Commands

1.1.1 backup-link-group id

Syntax

To set the BackupLink group, run this command.

backup-link-group id

To delete the BackupLink group, use the no form of this command.

no backup-link-group id

Parameters

Parameters	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

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 this 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

Parameters

Parameters	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

Usage Guidelines

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

Parameters

Parameters	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

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

Parameters

Parameters	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.

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 primary port configuration of a port, run the following command:
no backup-link-group id

Parameters

Parameters	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

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 edge port configuration of a port, run the following command:
no backup-link-group id

Parameters

Parameters	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

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

Parameters

Parameters	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

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.

For different BackupLink groups, the same group VLAN can be configured, or they have overlapping 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, typically, when the load balancing VLAN group is configured, it is better to select the VLAN group without overlapping.

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

Parameters

None

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

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

Parameters

None

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

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

Parameters

Parameters	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

Usage Guidelines

If the MonitorLink group port role is directly configured for the port in the case that the MonitorLink group is not established, the system will automatically create the MonitorLink group .

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

Parameters

Parameters	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

Usage Guidelines

If the MonitorLink group port role is directly configured for the port in the case that the MonitorLink

group is not established, the system will automatically create the MonitorLink group .

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

Syntax

To display the information about the backuplink group, run the following command:
show backup-link-group id

Parameters

Parameters	Description
Id	Stands for the instance ID of the backuplink group.

Default Value

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 configure the instance ID of the monitorlink group, run the following command.
show monitor-link-group id

Parameters

Parameters	Description
Id	Stands for the instance ID of the monitorlink group.

Default Value

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