Backuplink Configuration Commands
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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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Id</td>
<td>Stands for the instance ID of the backuplink group.</td>
</tr>
</tbody>
</table>

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 backup link group, run the following command:

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

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

```
no backup-link-group id
```

Parameter

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Id</td>
<td>Stands for the instance ID of the backup link group.</td>
</tr>
<tr>
<td>value</td>
<td>Stands for the delay time.</td>
</tr>
</tbody>
</table>

Default value

The backup link 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 backup link 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 backup link 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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Id</td>
<td>Stands for the instance ID of the backuplink group.</td>
</tr>
<tr>
<td>value</td>
<td>Stands for the delay time.</td>
</tr>
</tbody>
</table>

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
### 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**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>id</em></td>
<td>Stands for the instance ID of the backuplink group.</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Id</td>
<td>Stands for the instance ID of the backuplink group.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>vlanmap</td>
<td>Stands for the VLAN value.</td>
</tr>
</tbody>
</table>

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
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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Id</td>
<td>Stands for the instance ID of the monitorlink group.</td>
</tr>
</tbody>
</table>

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
Backup Link Configuration Commands

Parameter

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Id</td>
<td>Stands for the instance ID of the monitorlink group.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Id</td>
<td>Stands for the instance ID of the backuplink group.</td>
</tr>
</tbody>
</table>
Backup Link Configuration Commands

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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Id</td>
<td>Stands for the instance ID of the monitorlink group.</td>
</tr>
</tbody>
</table>
Backup Link Configuration Commands

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.