

# FlexLinkLite Configuration Commands

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# Chapter 1 FlexLinkLite Configuration Commands

## 1.1 FlexLinkLite Commands

### 1.1.1 Setting the Backup Port

To set another port as the backup of an existing port, run the following command:

**switchport backup interface** *backup-intf-name* as [active | backup]

To delete the backup port group, run the following command:

**no switchport backup interface**

#### Parameter

Parameter	Description
backup-intf-name	Stands for the name of a backup port, such as G0/1 or F0/10.
active	Stands for the active port, to which <b>backup-intf-name</b> corresponds, when the current port is a backup one..
backup	Stands for the backup port, to which <b>backup-intf-name</b> corresponds, when the current port is an active one.

#### Explanation

- A pair of ports, which back up each other, can be two physical ports, or a physical port and an aggregation port, or two aggregation ports.
- The port on which FlexLinkLite is set cannot be used for STP calculation or EAPS settings.
- After **switchport backup interface** is set on an interface, the corresponding settings will automatically generate on the backup port without any manual operations.

## Example

The following example shows how to set interface G0/2 to be the backup interface of interface G0/1, which blocks the data from being forwarded.

```
Switch# config
Switch_config# interface gigaEthernet0/1
Switch_config_g0/1# switchport backup interface g0/2 as backup
```

## Related command

To browse the state of the backup port group, run the following command:

**show backup interfaces**

### 1.1.2 Setting the Preempt Mode of a Backup Port

**switchport backup interface preempt**

To set the preempt mode of a backup port, run the following command:

**switchport backup interface preempt mode [none | role]**

To set the preempt delay of a backup port, run the following command:

**switchport backup interface preempt delay [immediately | time-sec]**

To resume the default value of the preempt delay, run the following command:

**no switchport backup interface preempt delay**

#### Parameter

Parameter	Description
none	Sets the preempt mode to be not a preempt mode.
role	Sets the preempt mode to be a role-based one, which is the default configuration.
immediately	Sets the delay time of the preempt to be no delay, that is, immediate preempt.
time-sec	Sets the delay time of preempt, which ranges between 1 and 600 seconds and whose default value is 3 seconds.

### Default value

In the default settings, the preempt mode of a backup port is a role-based one and its delay time is 3 seconds.

### Command mode

Physical interface configuration mode or aggregation port configuration mode

### Explanation

N/A

### Example

The following example shows how to set the default role preempt and how to set the delay to 15 seconds.

```
Switch_config_g0/1# switchport backup interface preempt delay 15
```

### Related command

To browse the state of the backup port group, run the following command:

```
show backup interfaces
```

## 1.1.3 Setting the Transmission and Reception of TCN Packets

```
switchport backup interface tcn
```

To set a port to forward the TCN packets, run the following command:

```
switchport backup interface tcn transmit
```

To forbid a port to forward the TCN packets, run the following command:

```
no switchport backup interface tcn transmit
```

To allow a port to receive and process the TCN packets, run the following command:

```
switchport backup interface tcn accept
```

To forbid a port to receive and process the TCN packets, run the following command:

```
no switchport backup interface tcn accept
```

### Parameter

N/A

#### Default value

In the default settings, a port does not receive or transmit the TCN packets.

#### Command mode

Physical interface configuration mode or aggregation port configuration mode

#### Explanation

The **transmit** command can be enabled on the device with a configured backup port. When a backup port is switched, it will transmit the TCN packets.

The **accept** command can be enabled on the uplink device. If this command is enabled on a uplink device, it can receive the TCN packets and delete the MAC addresses that are learned by the downlink port.

#### Example

The following example shows how to make related settings to enable the TCN packets to be transmitted.

```
Switch_config_g0/1# switchport backup interface tcn transmit
```

The following example shows how to make related settings to enable the TCN packets to be received.

```
Switch_config# interface range g0/1 , 2
Switch_config_if_range# switchport backup interface tcn accept
```

#### Related command

N/A

### 1.1.4 Browsing the State of the Port Backup Group

show backup interfaces

To browse the state of the backup port group, run the following command:

**show backup interfaces**

#### Parameter

N/A

Default value

N/A

Command mode

Monitor mode or global mode

Explanation

N/A

Example

The following example shows how to browse the status of the backup port group:

```
Switch_config# show backup interfaces
```

```
Backup interface pairs:
```

```
    Active Backup State Preemption
```

```
-----
```

```
    G0/1 G0/2 Active Up/Backup standby Role/15/0
```