Optical Fiber Protection Shift Commands

Table of Contents

Chapter 1 Optical Fiber Protection Shift Commands

1.1 epon b-psg

Syntax

epon b-psg [sequence *sequence-number* **]**

no epon b-psg sequence *sequence-number*

The commands above are used to create and delete a B-type PSG port respectively.

Parameter

Parameter	Parameter description
sequence-number	Stands for the sequence number of the logic port, which ranges from 1 to 8.

Default value

If the sequence number of the logic port is not designated, you should take the unused minimum value between 1 and 8.

Command mode

Global configuration mode

Remarks

This command is used to create a virtual port ; after the virtual port is successfully created, you have to run **epon psg member active *epon-port* standby *epon-port*** immediately to bind the to-be-protected PON port.

Example

The following example shows how to create a B-type PSG port.

```
switch_config#epon b-psg sequence 1
switch_config#
```

1.2 epon c-psg

Syntax

epon c-psg [sequence *sequence-number* **]**

no epon c-psg sequence *sequence-number*

The commands above are used to create and delete a C-type PSG port respectively.

Parameter

Parameter	Parameter description
sequence-number	Stands for the sequence number of the logic port, which ranges from 1 to 8.

Default value

If the sequence number of the logic port is not designated, you should take the unused minimum value between 1 and 8.

Command mode

Global configuration mode

Remarks

This command is used to create a virtual port ; after the virtual port is successfully created, you have to run **epon psg member active *epon-port* standby *epon-port*** immediately to bind the to-be-protected PON port.

Example

The following example shows how to create a C-type PSG port.

```
switch_config#epon c-psg sequence 1
switch_config#
```

1.3 epon psg member

Syntax

epon psg member active *epon-port* **standby** *epon-port*

no epon psg member active *epon-port* **standby** *epon-port*

The first command is used to add a protected PON port to the PSG port.

Parameter

Parameter	Parameter description
epon-port	Stands for the EPON port.

Default value

None

Command mode

PSG port configuration mode

Remarks

This command is to add the actually to-be-protected PON port to the PSG port. Currently only when two PON ports are on the same OLT chip can they be supported.

Example

The following example shows how to bind EPON0/1 and EPON0/4 to PSG0/1:

```
switch_config#epon b-psg sequence 1
switch_config#interface psg 0/1
switch_config_psg0/1#epon psg member active e0/1 standby e0/4
```

1.4 epon psg switch

Syntax

epon psg member switch interface *psg-port*

It is used to force the switchover of the key PON port of B-type PSG.

Parameter

Parameter	Parameter description
psg-port	PSG port

Default value

None

Command mode

Privileged mode

Remarks

This command is used to force the switchover of the PSG port only on the CTC B-type protection mechanism.

Example

The following example shows how to switch over the PSG port mandatorily.

```
switch_config# epon psg switch interface psg 0/1
```