

set interface gigabit-ethernet breakout

The **set interface gigabit-ethernet breakout** command breaks out the 40G and 100G ports into four interfaces.

NOTE:

- Restart PICOS after commit this command to make the setting take effect.
- When performing the port breakout and merge operation, before restarting the system, you need to manually delete the configurations of the unavailable interfaces, to make sure that the configuration file can be loaded normally when the system boots up.

Command Syntax

set interface gigabit-ethernet *<port-name>* **breakout** *<true | false>*

Parameter

| Parameter | Description |
|--|--|
| gigabit-ethernet <i><port-name></i> | Specifies the port name of 40G or 100G port. |
| breakout <i><true false></i> | Specifies the breakout mode. The value could be true or false . <ul style="list-style-type: none">• true: Breakout the 40G or 100G port.• false: Not breakout the 40G or 100G port. |

Usage Guidelines

The 40GE interfaces can be split into 4 x 10GE sub-interfaces, the 100GE interface can be split into 4 x 25G or 4 x 10G Ethernet sub-interfaces. By default, the 100G interface is split into 4 x 25G Ethernet sub-interfaces. If you want to split into 4 x 10G Ethernet sub-interfaces, you need to configure the four sub-interfaces rate to 10G through the command line after port breakout. Note: The rate of the four sub-interfaces is required to be consistent.

After a single interface is split into four sub-interfaces, the 10GE optical sub-interface or the 25GE optical sub-interface supports the same configurations and features as other non-breakout optical interface except that the interface is named in a different way. For example, the port name of the 100GE and 40GE optical interfaces is xe-1/1/n before port breakout; however, after port breakout the port names of the four sub-interfaces are xe-1/1/n.1, xe-1/1/n.2, xe-1/1/n.3 and xe-1/1/n.4.

Example

- Split the 40GE port xe-1/1/25 into 4 x 10GE ports.

```
admin@XorPlus# set interface gigabit-ethernet xe-1/1/25 breakout true
admin@XorPlus# co
Commit OK.
Save done.
Interface breakout setting has been changed, please reboot the system for changes to take effect!
Make sure to delete all the configurations associated with the unavailable interfaces, otherwise loading
startup configuration will fail.
admin@XorPlus# exit
admin@XorPlus> request system reboot
```

- Do not split the 100G port xe-1/1/53.

```
admin@XorPlus# set interface gigabit-ethernet xe-1/1/53 breakout false
admin@XorPlus# co
Commit OK.
Save done.
Interface breakout setting has been changed, please reboot the system for changes to take effect!
Make sure to delete all the configurations associated with the unavailable interfaces, otherwise loading
startup configuration will fail.
admin@XorPlus# exit
admin@XorPlus> request system reboot
```