



## Getting Started With OLT Network

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# add inner-vlan

To configure VLAN stacking rule, use the **add inner-vlan** command in VLAN profile configuration mode. To delete the VLAN stacking rule, use the **no add inner-vlan** command.

**add inner-vlan** *inner-vlan-id* {*priority* | **outer-vlan** *outer-vlan-id* [*priority*]}

**no add inner-vlan** *inner-vlan-id* [*priority*]

Syntax Description		
<i>inner-vlan-id</i>	The inner VLAN ID. The range is from 0 to 4094.	
<i>outer-vlan-id</i>	The outer VLAN ID. The range is from 0 to 4094.	
<i>priority</i>	The 802.1 priority value. The range is from 0 to 7.	

**Command Modes** VLAN profile configuration (deploy-profile-vlan)

**Usage Guidelines** A VLAN profile type must be configured.  
Modifying and activating the VLAN template will cause the ONT that references the template to go online again.

**Examples** This example shows how to configure VLAN stacking rule.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile vlan
Device(deploy-profile-vlan)# aim 5
Device(deploy-profile-vlan-5)# add inner-vlan 2 3 outer-vlan 2 3
Device(deploy-profile-vlan-5)# active
```

Related Commands	Command	Description
	<b>deploy profile</b>	Deploys a profile type
	<b>aim</b>	Creates aim based on the profile.

# aim

To create profile based aim. use the **aim** command in profile configuration mode.

## For alarm, dba, line, downstream traffic, upstream traffic and VLAN profile configuration modes

**aim** {*index\_number* | **name** *name*}

## For rule and unique profile configuration modes

**aim** {*slot-num/pon-num/ont-num* | **name** *name*}

Syntax	Description
<i>index_number</i>	The profile index number. The range is from 0 to 1023.
<i>name</i>	The profile name. The format is string. The string length range is from 1 to 128.
<i>slot-num/pon-num/ont-num</i>	The ONT ID. <ul style="list-style-type: none"> <li>• <i>slot-num</i>: The slot number. The value is 0.</li> <li>• <i>pon-num</i>: The PON number. The range is from 1 to 8.</li> <li>• <i>ont-num</i>: The ONT number. The range is from 1 to 128.</li> </ul>

**Command Modes** Profile configuration (deploy-profile)

**Usage Guidelines** A profile type must be configured.

**Examples** This example shows how to create a VLAN aim.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile vlan
Device(deploy-profile-vlan)# aim 5
Device(deploy-profile-vlan-5)#
```

### Example

This example shows how to create a unique aim.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile unique
Device(deploy-profile-unique)# aim 0/1/1
Device(deploy-profile-unique-0/1/1)#
```

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>delete aim</b>	Deletes profile based aim.

# alarm ont register-record

To enable ONT register record alarm and set an alarm threshold, use the **alarm ont register-record** command in global configuration mode. To disable the alarm, use the **no alarm ont register-record** command.

**alarm ont register-record** [**threshold**]*threshold\_value*

**no alarm ont register-record** [**threshold**]*threshold\_value*

## Syntax Description

*threshold\_value*

The threshold value.

The range is from 1 to 128. The default is 64.

## Command Modes

Global configuration (config)

## Usage Guidelines

You can limit the number of ONTs that can be registered on the PON port by setting a threshold value. If the number of ONTs on the PON port exceeds the threshold value, an alarm is generated. The alarm is cancelled once the number of ONTs is less than the threshold value.

## Examples

This example shows how to set an ONT register record alarm threshold value.

```
Device> enable
Device# configure terminal
Device(config)# alarm ont register-record threshold 80
```

## Related Commands

Command	Description
<b>show alarm ont register-record</b>	Displays information about register record alarm of an ONT

# crypto key

To configure or remove a key, use the **crypto key** command in privileged EXEC mode.

**crypto key {generate rsa | refresh | zeroize rsa}**

## Syntax Description

<b>generate rsa</b>	Configures a default key.
<b>refresh</b>	Activates the key.
<b>zeroize rsa</b>	Removes the key.

## Command Modes

Privileged EXEC (#)

## Usage Guidelines

SSH must be enabled on the device.

## Examples

This example shows how to configure a default key.

```
Device> enable
Device# crypto key generate rsa
Generate default SSH key successfully.
```

This example shows how to activate the key.

```
Device> enable
Device# crypto key refresh
Refresh SSH key successfully.
```

## Example

This example shows how to remove the key.

```
Device> enable
Device# crypto key zeroize rsa
Zeroize SSH key successfully.
```

## Related Commands

Command	Description
<b>ssh</b>	Enables SSH on an OLT.

## default vlan

To configure the VLAN tagging rule, use the **default vlan** command in VLAN profile configuration mode. To delete the VLAN tagging rule, use the **no default vlan** command.

**default vlan** *vlan\_id* [*priority*]

Syntax Description		
<i>vlan_id</i>	The VLAN ID.	The range is from 1 to 4094.
<i>priority</i>	The 802.1 priority value.	The range is from 0 to 7.

**Command Modes** VLAN profile configuration (deploy-profile-vlan)

**Usage Guidelines** A VLAN profile type must be configured.  
Modifying and activating the VLAN template will cause the ONT that references the template to go online again.

**Examples** This example shows how to configure the VLAN tagging rule.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile vlan
Device(deploy-profile-vlan)# aim 5
Device(deploy-profile-vlan-5)# default vlan 5 5
Device(deploy-profile-vlan-5)# active
```

Related Commands	Command	Description
	<b>deploy profile</b>	Deploys a profile type
	<b>aim</b>	Creates aim based on the profile.



# delete aim

To delete profile based aim, use the **delete aim** command in profile configuration mode.

**For alarm, dba, line, downstream traffic, upstream traffic and VLAN profile configuration modes**

```
delete aim {profile_list | name name}
```

**For rule and unique profile configuration modes**

```
delete aim {slot-num/pon-num/ont-num | name name}
```

Syntax Description		
<i>index_number</i>	The profile index number. The range is from 0 to 1023.	
<i>name</i>	The profile name. The format is string. The string length range is from 1 to 128.	
<i>slot-num/pon-num/ont-num</i>	The ONT ID. <ul style="list-style-type: none"> <li><i>slot-num</i>: The slot number. The value is 0.</li> <li><i>pon-num</i>: The PON number. The range is from 1 to 8.</li> <li><i>ont-num</i>: The ONT number. The range is from 1 to 128.</li> </ul>	

**Command Modes** Profile configuration (deploy-profile)

**Usage Guidelines** A profile type and profile based aim must be created on the device.

**Examples** This example show how to delete a VLAN aim configuration.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile vlan
Device(deploy-profile-vlan)# delete aim 5
```

Related Commands	Command	Description
	<b>deploy profile</b>	Deploys a profile type
	<b>aim</b>	Creates aim based on the profile.

# deploy profile

To deploy a profile type, use the **deploy profile** command in global configuration mode.

**deploy profile** {**alarm** | **dba** | **ds-traffic** | **line** | **rule** | **unique** | **us-traffic** | **vlan**}

Syntax	Description
<b>alarm</b>	The alarm profile.
<b>dba</b>	The DBA profile.
<b>ds-traffic</b>	The downstream traffic profile.
<b>line</b>	The line profile.
<b>rule</b>	The rule profile.
<b>unique</b>	The unique profile.
<b>us-traffic</b>	The upstream traffic profile.
<b>vlan</b>	The VLAN profile.

**Command Modes** Global configuration (config)

**Examples** This example shows how to deploy a line profile.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile line
```

Related Commands	Command	Description
	<b>aim</b>	Creates aim based on the profile.

# description

To configure an ONT description, use the **description** *ont\_description* command in unique profile configuration mode. To delete an ONT description, use the **no description** *ont\_description* command.

**description** *ont\_description*

**no description** *ont\_description*

## Syntax Description

<i>ont_description</i>	The ONT description.
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## Command Modes

Unique profile configuration (deploy-profile-unique)

## Usage Guidelines

A unique profile type must be configured.

## Examples

This example shows how to configure an ONT description.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile unique
Device(deploy-profile-unique)# aim 0/1/1
Device(deploy-profile-unique-0/1/1)# description cisco
```

## Related Commands

Command	Description
<b>deploy profile</b>	Deploys a profile type
<b>aim</b>	Creates aim based on the profile.

# device type

To configure a device type, use the **device type** *type* command in line profile configuration mode.

**device type** *type*

<b>Syntax Description</b>	<i>type</i>	The ONT device type name. The name of the ONT device type should conform to the GPON Terminal Naming Specification formulated.
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**Command Modes** Line profile configuration (deploy-profile-line)

**Usage Guidelines** A line profile type must be configured.

Modifying and activating the line traffic profile will cause the ONT that references the template to go online again.

## Examples

This example shows how to configure a device type.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile line
Device(deploy-profile-line)# aim 5
Device(deploy-profile-line-5)# device type c40-100
Device(deploy-profile-line-5)# active
```

## Related Commands

Command	Description
<b>deploy profile</b>	Deploys a profile type
<b>aim</b>	Creates aim based on the profile.

## ds car bandwidth

To configure committed access rate (CAR) downlink of a GEM port, use the **ds car bandwidth** command in downlink traffic profile configuration mode.

**ds car bandwidth** *bandwidth\_rate*

Syntax Description	<i>bandwidth_rate</i>	The downstream bandwidth in kbps. The value range is from 64 to 2608832.
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**Command Modes** Downlink traffic profile (deploy-profile-ds-traffic)

**Usage Guidelines** A downlink profile type must be configured.  
Modifying and activating the downlink traffic profile will cause the ONT that references the template to go online again.

### Examples

This example shows how to configure a GEM port

```
Device> enable
Device# configure terminal
Device(config)# deploy profile ds-traffic
Device(deploy-profile-ds-traffic)# aim 5
Device(deploy-profile-ds-traffic-5)# ds car bandwidth 1024
```

Related Commands	Command	Description
	<b>deploy profile</b>	Deploys a profile type
	<b>aim</b>	Creates aim based on the profile.

## flow port default

To create a default flow rule, use the **flow** *flow\_id* **port** {**eth** *port-id* | **veip** | **iphost**} **default** command. To delete a default VLAN flow rule, use the **no** form of this command.

**flow** *flow\_id* **port** {**eth** *port-id* | **veip** | **iphost**} **default** **vlan** *destination\_vlan\_id* [*priority*]

**no flow** *flow\_id*

Syntax	Description
<i>flow_id</i>	The flow index. The range is from 0 to 63.
<i>port-id</i>	The ONT Ethernet port ID. The range is from 1 to 24.
<b>default</b>	Specifies the default configuration.
<i>destination_vlan_id</i>	The destination VLAN ID The range is from 1 to 4094.
<i>priority</i>	The VLAN priority. The range is from 0 to 7.

**Command Modes** Line profile configuration (deploy-profile-line)

**Usage Guidelines** A line profile type must be configured.  
Modifying and activating the line traffic profile will cause the ONT that references the template to go online again.

**Examples** This example shows how to create a default VLAN flow rule.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile line
Device(deploy-profile-line)# aim 5
Device(deploy-profile-line-5)# flow 2 port eth 3 default vlan 3 3
```

### Related Commands

Command	Description
<b>deploy profile</b>	Deploys a profile type
<b>aim</b>	Creates aim based on the profile.

## flow port etype

To create a flow rule based on ethernet frame type, use the **flow** *flow\_id* **port** {**eth** *port-id* | **veip** | **iphost**} **etype** {**arp** | **ipoe** | **pppoe**} {**default** **vlan** *source\_vlan\_id* *priority* | **transparent** | **vlan** *source\_vlan\_id* {*priority* | **add** **vlan** *destination\_vlan\_id* [*priority*] | **keep** | **translate** **vlan** *destination\_vlan\_id* [*priority*]}}

**flow** *flow\_id* **port** {**eth** *port-id* | **veip** | **iphost**} **etype** {**arp** | **ipoe** | **pppoe**} {**default** **vlan** *source\_vlan\_id* *priority* | **transparent** | **vlan** *source\_vlan\_id* {*priority* | **add** **vlan** *destination\_vlan\_id* [*priority*] | **keep** | **translate** **vlan** *destination\_vlan\_id* [*priority*]}}

**no** **flow** *flow\_id*

Syntax	Description
<i>flow_id</i>	The flow index. The range is from 0 to 63.
<i>port-id</i>	The ONT Ethernet port ID. The range is from 1 to 24.
<b>default</b>	Specifies the default configuration.
<i>destination_vlan_id</i>	The destination VLAN ID The range is from 1 to 4094.
<i>priority</i>	The VLAN priority. The range is from 0 to 7.
<b>etype</b>	Specifies user ethernet frame type as the configuration.
<b>arp</b>	Specifies ARP as the filter type.
<b>ipoe</b>	Specifies IPoE as the filter type.
<b>pppoe</b>	Specifies PPPOE as the filter type.
<i>source_vlan_id</i>	The source VLAN ID The range is from 1 to 4094.
<b>transparent</b>	Specifies the service type as transparent
<b>add</b>	Adds outer service VLAN
<b>keep</b>	Adds trunk as the service type.
<b>translate</b>	Add translate as the service type.

**Command Modes** Line profile configuration (deploy-profile-line)

**Usage Guidelines** A line profile type must be configured.

Modifying and activating the line traffic profile will cause the ONT that references the template to go online again.

### Examples

This example shows how to create a translate flow rule based on ethernet frame type.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile line
Device(deploy-profile-line)# aim 5
Device(deploy-profile-line-5)# flow 2 port iphost etype arp vlan 3 translate vlan 4 1
```

### Related Commands

Command	Description
<b>deploy profile</b>	Deploys a profile type
<b>aim</b>	Creates aim based on the profile.



# flow port transparent

To create a transparent flow rule, use the **flow *flow\_id* port {eth *port-id* | veip | iphost} transparent** command. To delete a transparent flow rule, use the **no** form of this command.

**flow *flow\_id* port {eth *port-id* | veip | iphost} transparent**

**no flow *flow\_id***

Syntax Description		
<i>flow_id</i>		The flow index. The range is from 0 to 63.
<i>port-id</i>		The ONT Ethernet port ID. The range is from 1 to 24.
<b>transparent</b>		Specifies the service type as transparent

**Command Modes** Line profile configuration (deploy-profile-line)

**Usage Guidelines** A line profile type must be configured.

Modifying and activating the line traffic profile will cause the ONT that references the template to go online again.

## Examples

This example shows how to create a transparent flow rule.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile line
Device(deploy-profile-line)# aim 5
Device(deploy-profile-line-5)# flow 2 port eth 3 transparent
```

Related Commands	Command	Description
	<b>deploy profile</b>	Deploys a profile type
	<b>aim</b>	Creates aim based on the profile.

## flow port vlan

To create a VLAN flow rule, use the **flow flow\_id port {eth port-id | veip | iphost} vlan** command. To delete a VLAN flow rule, use the **no** form of this command.

**flow flow\_id port {eth port-id | veip | iphost} vlan source\_vlan\_id {priority | add vlan destination\_vlan\_id [priority] | keep | translate vlan destination\_vlan\_id [priority]}**

**no flow flow\_id**

### Syntax Description

<i>flow_id</i>	The flow index. The range is from 0 to 63.
<i>port-id</i>	The ONT Ethernet port ID. The range is from 1 to 24.
<i>destination_vlan_id</i>	The destination VLAN ID The range is from 1 to 4094.
<i>priority</i>	The VLAN priority. The range is from 0 to 7.
<i>source_vlan_id</i>	The source VLAN ID The range is from 1 to 4094.
<b>add</b>	Adds outer service VLAN
<b>keep</b>	Adds trunk as the service type.
<b>translate</b>	Add translate as the service type.

### Command Modes

Line profile configuration (deploy-profile-line)

### Usage Guidelines

A line profile type must be configured.

Modifying and activating the line traffic profile will cause the ONT that references the template to go online again.

### Examples

This example shows how to create a VLAN keep flow rule.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile line
Device(deploy-profile-line)# aim 5
Device(deploy-profile-line-5)# flow 2 port eth 3 vlan 2 keep
```

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>deploy profile</b>	Deploys a profile type
<b>aim</b>	Creates aim based on the profile.

# gempport

To create a GEM port and configure the parameters, use the **gempport** *gem\_index* **tcont** *tcont\_id* command in line profile configuration mode.

## For line profile configuration mode

```
gempport gem_index tcont tcont_id {vlan-profile | us-traffic-profile | ds-traffic-profile} {index_number | name name}
```

## For unique profile configuration mode.

```
gempport gem_index {vlan-profile | us-traffic-profile | ds-traffic-profile} {index_number | name name}
```

## Syntax Description

<i>gem_index</i>	The GEM port index number. The range is from 1 to 1024. Currently, at most 24 GEM ports can be created in each line profile.
<i>tcont_id</i>	The T-CONT ID to bind to the GEM port. The range is from 1 to 8.
<b>vlan-profile</b>	The VLAN profile.
<b>us-traffic-profile</b>	The upstream traffic profile.
<b>ds-traffic-profile</b>	The downstream traffic profile.
<i>index_number</i>	The index of the template. The range is from 0 to M, where M is the maximum number of ONUs supported by the whole machine.
<i>name</i>	The name of the template.

## Command Modes

Line profile configuration (deploy-profile-line)

## Usage Guidelines

A line profile type must be configured.

Modifying and activating the line traffic profile will cause the ONT that references the template to go online again.

## Examples

This example show how to create a gempport and configure a T-CONT to the gempport.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile line
Device(deploy-profile-line)# aim 5
GPON(deploy-profile-line-5)# device type n40-100-1
GPON(deploy-profile-line-5)# tcont 2 profile dba 1
Device(deploy-profile-line-5)# gempport traffic-mode car
Device(deploy-profile-line-5)# gempport 2 tcont 2 vlan-profile 1
```

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>deploy profile</b>	Deploys a profile type
<b>aim</b>	Creates aim based on the profile.
<b>gemport traffic-mode</b>	Configures the GEM traffic mode

# gemport traffic-mode

To configure the GEM traffic mode, use the **gemport traffic-mode** command in line profile configuration mode.

**gemport traffic-mode** {car | queue}

Syntax Description	car	queue
	Specifies committed access rate (CAR) as GEM traffic mode.	Specifies priority scheduling queue as GEM traffic mode.

**Command Modes** Line profile configuration (deploy-profile-line)

**Usage Guidelines** A line profile type must be configured.

Modifying and activating the line traffic profile will cause the ONT that references the template to go online again.

## Examples

This example shows how to configure the GEM port traffic mode based on queue.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile line
Device(deploy-profile-line)# aim 5
Device(deploy-profile-line-5)# gemport traffic-mode queue
```

## Related Commands

Command	Description
<b>deploy profile</b>	Deploys a profile type
<b>aim</b>	Creates aim based on the profile.

# load keyfile

To download the key from the external key server, use the **load keyfile** command in privileged EXEC mode.

## Download from a TFTP server

**load keyfile** {**public** | **private**} **tftp**{**inet** | **inet6**}*server\_ip filename*

## Download from a FTP server

**load keyfile** {**public** | **private**} **ftp**{**inet** | **inet6**}*server\_ip filename username password*

Syntax Description		
<b>public</b>		The public SSH key file
<b>private</b>		The private SSH key file
<b>tftp</b>		Loads the file from the TFTP server.
<b>ftp</b>		Loads the file from FTP server.
<b>inet</b>		The IPv4 address family.
<b>inet6</b>		The IPv6 address family
<i>server_ip</i>		The server IP address
<i>filename</i>		The key filename.
<i>username</i>		The FTP username
<i>password</i>		The FTP password.

**Command Modes** Privileged EXEC (#)

**Usage Guidelines** SSH must be enabled on the device.

## Examples

This example shows how to download the public key from the FTP server

```
Device> enable
Device# load keyfile public ftp inet 100.100.100.11 mykey admin 123456
```

Related Commands	Command	Description
	<b>ssh</b>	Enables SSH on an OLT.
	<b>upload keyfile</b>	Uploads the local key to the key server.

# mapping

To create GEM port mapping, use the **mapping** *index\_number* in line profile configuration mode. To disable GEM port mapping, use the **no mapping** *index\_number* command.

**mapping** *index\_number* {**port** {**eth** *port\_id* | **veip** | **iphost**} | **priority** *priority\_value* | **vlan** *vlan\_id*} **gemport** *gemport\_index*

**no mapping** *index\_number*

## Syntax Description

<i>index_number</i>	The mapping index number. The value range is from 0 to 47.
<i>port_id</i>	The ONT Ethernet port ID. The range is from 1 to 24.
<b>eth</b>	The ONT Ethernet interface. Optional for SFU
<b>veip</b>	The ONT WAN interface. Optional for HGU
<b>iphost</b>	The ONT voice IP interface.
<i>gemport_index</i>	The GEM Port index number. The ranges is from 1 to 1024. Currently, only 24 GEM Ports can be created in each line profile.
<i>priority</i>	The 802.1P. The range is from 0 to 7.
<i>vlan_id</i>	The VLAN ID The range is from 1 to 4094.

## Command Modes

Line profile configuration (deploy-profile-line)

## Usage Guidelines

A line profile type must be configured.

Modifying and activating the line traffic profile will cause the ONT that references the template to go online again.

## Examples

This example shows how to create GEM port mapping using ethernet port.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile line
Device(deploy-profile-line)# aim 5
Device(deploy-profile-line-5)# mapping 2 port eth 3 gemport 3
```



**Related Commands**

<b>Command</b>	<b>Description</b>
<b>deploy profile</b>	Deploys a profile type
<b>aim</b>	Creates aim based on the profile.

# mapping mode

To configure the GEM port mapping mode, use the **mapping mode** command in line profile configuration mode.

**mapping mode**{**port** | **port-priority** | **port-vlan** | **port-vlan-priority** | **priority** | **vlan** | **vlan-priority**}

Syntax Description	port	Configures port as the mapping mode.
	<b>port-priority</b>	Configures port and 802.1p priority as the mapping mode
	<b>port-vlan</b>	Configures port and VLAN as the mapping mode
	<b>port-vlan-priority</b>	Configures port, VLAN and 802.1p priority as the mapping mode
	<b>priority</b>	Configures 802.1p priority as the mapping mode
	<b>vlan</b>	Configures VLAN as the mapping mode
	<b>vlan-priority</b>	Configures VLAN and 802.1p priority as the mapping mode

**Command Modes** Line profile configuration (deploy-profile-line)

**Usage Guidelines** A line profile type must be configured.

Modifying and activating the line traffic profile will cause the ONT that references the template to go online again.

## Examples

This example shows how to configure the GEM port mapping mode as VLAN

```
Device> enable
Device# configure terminal
Device(config)# deploy profile line
Device(deploy-profile-line)# aim 5
Device(deploy-profile-line-5)# mapping mode vlan
```

## Related Commands

Command	Description
<b>deploy profile</b>	Deploys a profile type
<b>aim</b>	Creates aim based on the profile.

# no shutdown

To enable a shutdown port, use the **no shutdown** command in interface configuration mode. To disable a port use the **shutdown** command.

**no shutdown**

**shutdown**

---

## Command Modes

Interface configuration (config-if)

---

## Examples

This example shows how to enable a shutdown port.

```
Device> enable
Device# configure terminal
Device(config)# interface ethernet 1/1
Device(config-if-ethernet-1/1)# no shutdown
```

## ont-find distance

To configure the ONT logical distance, use the **ont-find distance** command to global configuration mode. To disable the logical distance, use the **no ont-find distance** command.

**ont-find distance min** *minimum\_distance* **max** *maximum\_distance* **interface gpon** {*slot-number/port-number* | **all**}

**no ont-find distance interface gpon** {*slot-number/port-number* | **all**}

### Syntax Description

<b>min</b> <i>minimum_distance</i>	The minimum distance. The range is from 0 to 40. The default is 0.
<b>max</b> <i>maximum_distance</i>	The maximum distance. The distance range is from 0 to 60. The default is 20.
<i>slot-number/port-number</i>	<i>slot-number/port-number</i> : The port ID. <ul style="list-style-type: none"> <li>• <i>slot-number</i>: <ul style="list-style-type: none"> <li>• GPON: The value is 0.</li> <li>• GE Ethernet: The value is 1.</li> <li>• 10GE Ethernet: The value is 2.</li> </ul> </li> <li>• <i>port-number</i>: <ul style="list-style-type: none"> <li>• GPON: The range is from 1 to 8.</li> <li>• GE Ethernet: The range is from 1 to 4.</li> <li>• 10GE Ethernet: The range is from 1 to 2.</li> </ul> </li> </ul>
<b>all</b>	All ports.

### Command Modes

Global configuration (config)

### Examples

This example shows how to configure the ONT logical distance.

```
Device> enable
Device# configure terminal
Device(config)# ont-find distance min 10 max 30 interface gpon 0/1
Change the logic distance will reset the PON port, are you sure(y/n)?[n]y
Config success: 1, failed: 0.
```

### Related Commands

Command	Description
<b>ont-find interface gpon</b>	Enables auto-discover configuration.
<b>ont-find interval-time</b>	Configures the auto-discover interval time.

<b>Command</b>	<b>Description</b>
<b>ont-find list-age</b>	Configures the auto-discover aging time.
<b>show ont-find config</b>	Displays information about ONT auto find configuration and other related parameters.
<b>show ont-find list</b>	Displays information about ONT find list.

## ont-find interface gpon

To enable auto-discover configuration, use the **ont-find interface gpon** command in global configuration mode. To disable the logical distance, use the **no ont-find interface gpon** command.

**ont-find interface gpon** {*slot-number/port-number* | **all**}

**no ont-find interface gpon** {*slot-number/port-number* | **all**}

### Syntax Description

*slot-number/port-number*

*slot-number/port-number* : The port ID.

- *slot-number*:
  - GPON: The value is 0.
  - GE Ethernet: The value is 1.
  - 10GE Ethernet: The value is 2.
- *port-number*:
  - GPON: The range is from 1 to 8.
  - GE Ethernet: The range is from 1 to 4.
  - 10GE Ethernet: The range is from 1 to 2.

**all**

All ports.

### Command Modes

Global configuration (config)

### Examples

This example shows how to enable auto-discover configuration.

```
Device> enable
Device# configure terminal
Device(config)# ont-find interface gpon 0/1
```

### Related Commands

Command	Description
<b>ont-find distance</b>	Configures the ONT logical distance.
<b>ont-find interval-time</b>	Configures the auto-discover interval time.
<b>ont-find list-age</b>	Configures the auto-discover aging time.
<b>show ont-find config</b>	Displays information about ONT auto find configuration and other related parameters.
<b>show ont-find list</b>	Displays information about ONT find list.

## ont-find interval-time

To configure the auto-discover interval time, use the **ont-find interval-time** command in global configuration mode. To disable the auto-discover interval time, use the **no ont-find interval-time** command.

**ont-find interval-time** *interval\_time* **interface gpon** {*slot-number/port-number* | **all**}

**no ont-find interface gpon** {*slot-number/port-number* | **all**}

### Syntax Description

<i>interval_time</i>	The interval time. The range is from 3 to 30. The default is 10.
<b>all</b>	All ports.
<i>slot-number/port-number</i>	<i>slot-number/port-number</i> : The port ID. <ul style="list-style-type: none"> <li>• <i>slot-number</i>: <ul style="list-style-type: none"> <li>• GPON: The value is 0.</li> <li>• GE Ethernet: The value is 1.</li> <li>• 10GE Ethernet: The value is 2.</li> </ul> </li> <li>• <i>port-number</i>: <ul style="list-style-type: none"> <li>• GPON: The range is from 1 to 8.</li> <li>• GE Ethernet: The range is from 1 to 4.</li> <li>• 10GE Ethernet: The range is from 1 to 2.</li> </ul> </li> </ul>

### Command Modes

Global configuration (config)

### Examples

This example shows how to configure the ONT auto-discover interval time.

```
Device> enable
Device# configure terminal
Device(config)# ont-find interval-time 20 interface gpon 0/1
Config success: 1, failed: 0.
```

### Related Commands

Command	Description
<b>ont-find interface gpon</b>	Enables auto-discover configuration.
<b>ont-find distance</b>	Configures the ONT logical distance.
<b>ont-find list-age</b>	Configures the auto-discover aging time.
<b>show ont-find config</b>	Displays information about ONT auto find configuration and other related parameters.

Command	Description
show ont-find list	Displays information about ONT find list.



# ont-find list-age

To configure the auto-discover aging time, use the **ont-find list-age time** command in global configuration mode. Use the **no ont-find list-age time** command.

**ont-find list-age time** *aging\_time* **interface gpon** {*slot-number/port-number* | **all**}

**no ont-find list-age interface gpon** {*slot-number/port-number* | **all**}

## Syntax Description

<i>aging_time</i>	The discovery mode timeout time. The unit is hour. The value range is from 1 to 168.
<i>slot-number/port-number</i>	<i>slot-number/port-number</i> : The port ID. <ul style="list-style-type: none"> <li>• <i>slot-number</i>: <ul style="list-style-type: none"> <li>• GPON: The value is 0.</li> <li>• GE Ethernet: The value is 1.</li> <li>• 10GE Ethernet: The value is 2.</li> </ul> </li> <li>• <i>port-number</i>: <ul style="list-style-type: none"> <li>• GPON: The range is from 1 to 8.</li> <li>• GE Ethernet: The range is from 1 to 4.</li> <li>• 10GE Ethernet: The range is from 1 to 2.</li> </ul> </li> </ul>
<b>all</b>	All ports.

## Command Modes

Global configuration (config)

## Examples

This example shows how to configure the auto-discover aging time.

```
Device> enable
Device# configure terminal
Device(config)# ont-find list-age time 600 interface gpon 0/1
Config success: 1, failed: 0.
```

## Related Commands

Command	Description
<b>ont-find interface gpon</b>	Enables auto-discover configuration.
<b>ont-find distance</b>	Configures the ONT logical distance.
<b>ont-find interval-time</b>	Configures the auto-discover interval time.
<b>show ont-find config</b>	Displays information about ONT auto find configuration and other related parameters.

Command	Description
show ont-find list	Displays information about ONT find list.

## ont-silent auth-fail

To enable the ONT auth-fail silent configuration, use the **ont-silent auth-fail** command in global configuration mode. To disable the ONT auth-fail silent configuration, use the **no ont-silent auth-fail** command.

**ont-silent auth-fail** {time *silence\_period* | interface **gpon** {*slot-number/port-number* | **all**}}

**no ont-silent auth-fail interface gpon** {*slot-number/port-number* | **all**}

Syntax Description		
<i>silence_period</i>		The silent period after a failed authentication. The unit in seconds. The range is from 1 to 86400. The default is 60.
<i>slot-number/port-number</i>		<i>slot-number/port-number</i> : The port ID. <ul style="list-style-type: none"> <li>• <i>slot-number</i>:               <ul style="list-style-type: none"> <li>• GPON: The value is 0.</li> <li>• GE Ethernet: The value is 1.</li> <li>• 10GE Ethernet: The value is 2.</li> </ul> </li> <li>• <i>port-number</i>:               <ul style="list-style-type: none"> <li>• GPON: The range is from 1 to 8.</li> <li>• GE Ethernet: The range is from 1 to 4.</li> <li>• 10GE Ethernet: The range is from 1 to 2.</li> </ul> </li> </ul>
<b>all</b>		All ports.

**Command Modes** Global configuration (config)

### Examples

This example shows how to enable the ONT auth-fail silent configuration.

```
Device> enable
Device# configure terminal
Device(config)# ont-silent auth-fail time 40 interface gpon 0/1
Config success: 1, failed: 0.
```

### Related Commands

Command	Description
<b>ont-silent offline</b>	Enables auto-discover configuration.

## ont-silent offline

To enable the ONT offline silent configuration, use the **ont-silent offline** command in global configuration mode. To disable the ONT offline silent configuration, use the **no ont-silent offline** command.

**ont-silent offline** {time *silence\_period* | interface **gpon** {*slot-number/port-number* | **all**}}

**no ont-silent offline interface gpon** {*slot-number/port-number* | **all**}

Syntax Description		
<i>silence_period</i>	The silent period after a failed authentication. The unit in seconds. The range is from 1 to 86400. The default is 60.	
<i>slot-number/port-number</i>	<i>slot-number/port-number</i> : The port ID.	<ul style="list-style-type: none"> <li>• <i>slot-number</i>:               <ul style="list-style-type: none"> <li>• GPON: The value is 0.</li> <li>• GE Ethernet: The value is 1.</li> <li>• 10GE Ethernet: The value is 2.</li> </ul> </li> <li>• <i>port-number</i>:               <ul style="list-style-type: none"> <li>• GPON: The range is from 1 to 8.</li> <li>• GE Ethernet: The range is from 1 to 4.</li> <li>• 10GE Ethernet: The range is from 1 to 2.</li> </ul> </li> </ul>
<b>all</b>	All ports.	

**Command Modes** Global configuration (config)

### Examples

This example shows how to enable the ONT offline silent configuration.

```
Device> enable
Device# configure terminal
Device(config)# ont-silent offline time 40 interface gpon 0/1
Config success: 1, failed: 0.
```

### Related Commands

Command	Description
<b>ont-silent auth-fail</b>	Enables ONT auth-fail silent configuration

## ont auto-config

To enable ONT auto-configuration, use the **ont auto-config** command in global configuration mode. To disable ONT auto-configuration, use the **no ont auto-config** command.

```
ont auto-config [{index_number name name | name name }]{all-ont | device-type device_type}
```

```
no ont auto-config [{index_number name name | name name }]{all-ont | device-type device_type}
```

Syntax Description		
	<i>index_number</i>	The index of the template. The range is from 0 to M, where M is the maximum number of ONUs supported by the whole machine.
	<i>name</i>	The name of the template.
	<b>all-ont</b>	All ONTs.
	<b>device-type</b> <i>device_type</i>	The device identifier. The format is in string. The range is 1-256.

**Command Modes** Global configuration (config)

### Examples

This example shows how to enable auto-configuration.

```
Device> enable
Device# configure terminal
Device(config)# ont auto-config
```

# permit loid-lopw

To create a logical ONT ID and logical ONT ID password permit profile, use the **permit loid-lopw** command in rule profile configuration mode.

```
permit loid-lopw lopw loid line {profile_line_list | name name} {default line {index_number | name name} | once-on {no-aging | aging-time time}}
```

Syntax Description		
	<i>lopw</i>	The logical ONT ID password.
	<i>loid</i>	The logical ONT ID.
	<i>profile_line_list</i>	The profile line list number.
	<i>index_number</i>	The profile index number. The range is from 0 to 1023.
	<i>name</i>	The profile name. The format is string. The string length range is from 1 to 128.
	<b>no-aging</b>	Configures no timeout for discovery mode.
	<b>aging-time</b> <i>time</i>	Configures timeout for discovery mode. The unit is hour. The range is from 1 to 168.

**Command Modes** Rule profile configuration (deploy-profile-rule)

**Usage Guidelines** A rule profile type must be configured.

## Examples

This example shows how to create a logical ONT ID permit profile and logical ONT ID password permit profile.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile rule
Device(deploy-profile-rule)# aim 0/1/1
Device(deploy-profile-rule-0/1/1)# permit loid-lopw logical1 password1 line 1 default line 1 once-on no-aging
```

## Related Commands

Command	Description
<b>deploy profile</b>	Deploys a profile type
<b>aim</b>	Creates aim based on the profile.

# permit loid

To create a logical ONT ID permit profile, use the **permit loid** command in rule profile configuration mode.

```
permit loid loid line {profile_line_list | name name} {default line {index_number | name name} | once-on
{no-aging | aging-time time}}
```

Syntax Description		
	<i>loid</i>	The logical ONT ID.
	<i>profile_line_list</i>	The profile line list number.
	<i>index_number</i>	The profile index number. The range is from 0 to 1023.
	<i>name</i>	The profile name. The format is string. The string length range is from 1 to 128.
	<b>no-aging</b>	Configures no timeout for discovery mode.
	<b>aging-time</b> <i>time</i>	Configures timeout for discovery mode. The unit is hour. The range is from 1 to 168.

**Command Modes** Rule profile configuration (deploy-profile-rule)

**Usage Guidelines** A rule profile type must be configured.

**Examples** This example shows how to create a logical ONT ID permit profile.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile rule
Device(deploy-profile-rule)# aim 0/1/1
Device(deploy-profile-rule-0/1/1)# permit loid logical1 line 1 default line 1 once-on
no-aging
```

Related Commands	Command	Description
	<b>deploy profile</b>	Deploys a profile type
	<b>aim</b>	Creates aim based on the profile.

## permit lopw

To create a logical ONT ID password permit profile, use the **permit lopw** command in rule profile configuration mode.

```
permit lopw lopw line {profile_line_list | name name} {default line {index_number | name name} | once-on
{no-aging | aging-time time}}
```

### Syntax Description

<i>lopw</i>	The logical ONT ID password.
<i>profile_line_list</i>	The profile line list number.
<i>index_number</i>	The profile index number. The range is from 0 to 1023.
<i>name</i>	The profile name. The format is string. The string length range is from 1 to 128.
<b>no-aging</b>	Configures no timeout for discovery mode.
<b>aging-time</b> <i>time</i>	Configures timeout for discovery mode. The unit is hour. The range is from 1 to 168.

### Command Modes

Rule profile configuration (deploy-profile-rule)

### Examples

This example shows how to create a logical ONT ID password permit profile.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile rule
Device(deploy-profile-rule)# aim 0/1/1
Device(deploy-profile-rule-0/1/1)# permit lopw password1 line 1 default line 1 once-on
no-aging
```



# permit pw

To create a password permit profile, use the **permit pw** command in rule profile configuration mode.

```
permit pw {string string_password | hex hex_password}line {profile_line_list | name name} {default line
{index_number | name name} | once-on {no-aging | aging-time time}}
```

Syntax Description		
<i>string_password</i>		The ONT password in Hex.
<i>hex_password</i>		The ONT password in string.
<i>profile_line_list</i>		The profile line list number.
<i>index_number</i>		The profile index number. The range is from 0 to 1023.
<i>name</i>		The profile name. The format is string. The string length range is from 1 to 128.
<b>no-aging</b>		Configures no timeout for discovery mode.
<b>aging-time</b> <i>time</i>		Configures timeout for discovery mode. The unit is hour. The range is from 1 to 168.

**Command Modes** Rule profile configuration (deploy-profile-rule)

**Usage Guidelines** A rule profile type must be configured.

**Examples** This example shows how to create a password permit profile.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile rule
Device(deploy-profile-rule)# aim 0/1/1
Device(deploy-profile-rule-0/1/1)# permit pw string password1 line 1 default line 1
```

Related Commands	Command	Description
	<b>deploy profile</b>	Deploys a profile type
	<b>aim</b>	Creates aim based on the profile.

## permit sn-pw

To create a serial number and password permit profile, use the **permit sn-pw** command in rule profile configuration mode.

```
permit sn-pw {string-hex string_serial_number | hex hex_serial_number} {string string_password | hex hex_password}line {profile_line_list | name name}default line {index_number | name name}
```

Syntax Description		
	<i>hex_serial_number</i>	The ONT serial number in Hex.
	<i>string_serial_number</i>	The ONT serial number in string.
	<i>string_password</i>	The ONT password in Hex.
	<i>hex_password</i>	The ONT password in string.
	<i>profile_line_list</i>	The profile line list number.
	<i>index_number</i>	The profile index number. The range is from 0 to 1023.
	<i>name</i>	The profile name. The format is string. The string length range is from 1 to 128.

**Command Modes** Rule profile configuration (deploy-profile-rule)

**Usage Guidelines** A rule profile type must be configured.

**Examples** This example shows how to create a serial number and password permit profile.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile rule
Device(deploy-profile-rule)# aim 0/1/1
Device(deploy-profile-rule-0/1/1)# permit sn-pw string-hex GPON-1790032e string password1
line 1 default line 1
```

### Related Commands

Command	Description
<b>deploy profile</b>	Deploys a profile type
<b>aim</b>	Creates aim based on the profile.

# permit sn

To create a serial number permit profile, use the **permit sn** command in rule profile configuration mode.

**permit sn** {**string-hex** *string\_serial\_number* | **hex** *hex\_serial\_number*}**line** {*profile\_line\_list* | **name** *name*}**default line** {*index\_number* | **name** *name*}

## Syntax Description

<i>hex_serial_number</i>	The ONT serial number in Hex.
<i>string_serial_number</i>	The ONT serial number in string.
<i>profile_line_list</i>	The profile line list number.
<i>index_number</i>	The profile index number. The range is from 0 to 1023.
<i>name</i>	The profile name. The format is string. The string length range is from 1 to 128.

## Command Modes

Rule profile configuration (deploy-profile-rule)

## Usage Guidelines

A rule profile type must be configured.

## Examples

This example shows how to create a ONT serial number permit profile.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile rule
Device(deploy-profile-rule)# aim 0/1/1
Device(deploy-profile-rule-0/1/1)# permit sn string-hex GPON-1790032e line 1 default line 1
```

## Related Commands

Command	Description
<b>deploy profile</b>	Deploys a profile type
<b>aim</b>	Creates aim based on the profile.

# show alarm ont register-record

To display information about register record alarm of an ONT, use the **show alarm ont register-record** command in privileged EXEC or global configuration mode.

## show alarm ont register-record

---

### Command Modes

Privileged EXEC (#)

Global configuration (config)

---

### Examples

This example shows how to view information about register record alarm of an ONT

```
Device> enable
Device# configure terminal
Device(config)# show alarm ont register-record
register ont record threshold alarm status : enable
register ont record threshold value       : 64
register ont record current value        :
gpon port 0/1 : 1(normal)
gpon port 0/2 : 0(normal)
gpon port 0/3 : 0(normal)
gpon port 0/4 : 0(normal)
gpon port 0/5 : 0(normal)
gpon port 0/6 : 0(normal)
gpon port 0/7 : 0(normal)
gpon port 0/8 : 0(normal)
```

# show keyfile

To display the key file information, use the **show keyfile** command in privileged EXEC or global configuration mode.

```
show keyfile {public | private}
```

Syntax	Description
<b>public</b>	The SSH public key file.
<b>private</b>	The SSH private key file.

**Command Modes**

Privileged EXEC (#)  
Global configuration (config)

## Examples

This example shows how to view the key file information

```
Device> enable  
Device# show keyfile public
```

## show ont-find config

To display information about ONT auto find configuration, use the **show ont-find config** command in privileged EXEC or global configuration mode.

**show ont-find config interface gpon** {*port\_list* | **all**}

Syntax Description		
	<i>port_list</i>	The GPON port.
	<b>all</b>	All ports.

Command Modes	
	Privileged EXEC (#)
	Global configuration (config)

### Examples

This example shows how to view information about ONT auto find configuration.

```
Device> enable
Device# configure terminal
Device(config)# show ont-find config interface gpon 0/1
Port  Find    Find-interval  Age    Aging-time  D-min  D-max
g0/1  enable  10             enable  600         0      20
```

## show ont-find list

To display information about ONT find list, use the **show ont-find list** command in privileged EXEC or global configuration mode.

```
show ont-find list {interface gpon {slot-number/port-number | all} | sn {string-hex string_serial_number | hex hex_serial_number}}
```

Syntax Description		
<i>slot-number/port-number</i>	The port ID.	<ul style="list-style-type: none"> <li>• <i>slot-number</i>:               <ul style="list-style-type: none"> <li>• GPON: The value is 0.</li> <li>• GE Ethernet: The value is 1.</li> <li>• 10GE Ethernet: The value is 2.</li> </ul> </li> <li>• <i>port-number</i>:               <ul style="list-style-type: none"> <li>• GPON: The range is from 1 to 8.</li> <li>• GE Ethernet: The range is from 1 to 4.</li> <li>• 10GE Ethernet: The range is from 1 to 2.</li> </ul> </li> </ul>
<b>all</b>	All ports.	
<i>hex_serial_number</i>	The ONT serial number in Hex.	
<i>string_serial_number</i>	The ONT serial number in string.	

**Command Modes**

Privileged EXEC (#)

Global configuration (config)

### Examples

This example shows how to view information about ONT find list

```
Device> enable
Device# configure terminal
Device(config)# show ont-find list interface gpon 0/1
```

## show ont-silent config

To display information about ONT silent function, use the **show ont-silent config** command in privileged EXEC or global configuration mode.

**show ont-silent config interface gpon** *{port\_list | all}*

Syntax Description	<i>port_list</i>	The GPON port.
	<b>all</b>	All ports.

**Command Modes** Privileged EXEC (#)  
Global configuration (config)

### Examples

This example shows how to view the information about ONT silent function.

```
Device> enable
Device# configure terminal
Device(config)# show ont-silent config interface gpon 0/1
Port Auth-fail time Offline time
g0/1 enable 40 disable -
```



## show ont-silent list

To display information about silent ONT, use the **show ont-silent list** command in privileged EXEC or global configuration mode.

```
show ont-silent list {interface gpon {slot-number/port-number | all} | sn {string-hex string_serial_number | hex hex_serial_number}}
```

Syntax Description		
<i>slot-number/port-number</i>	The port ID.	<ul style="list-style-type: none"> <li>• <i>slot-number</i>:               <ul style="list-style-type: none"> <li>• GPON: The value is 0.</li> <li>• GE Ethernet: The value is 1.</li> <li>• 10GE Ethernet: The value is 2.</li> </ul> </li> <li>• <i>port-number</i>:               <ul style="list-style-type: none"> <li>• GPON: The range is from 1 to 8.</li> <li>• GE Ethernet: The range is from 1 to 4.</li> <li>• 10GE Ethernet: The range is from 1 to 2.</li> </ul> </li> </ul>
<b>all</b>	All ports.	
<i>hex_serial_number</i>	The ONT serial number in Hex.	
<i>string_serial_number</i>	The ONT serial number in string.	

**Command Modes**

Privileged EXEC (#)

Global configuration (config)

### Examples

This example shows how to view the information about silent ONT.

```
Device> enable
Device# configure terminal
Device(config)# show ont-silent list interface gpon 0/1
```

## show ont brief count

To display brief information about an ONT interface, use the **show ont brief count** command in privileged EXEC or global configuration mode.

**show ont brief count interface interface gpon** {*slot-number/port-number* | **all**}

Syntax	Description
<i>slot-number/port-number</i>	<p>The port ID.</p> <ul style="list-style-type: none"> <li>• <i>slot-number</i>:               <ul style="list-style-type: none"> <li>• GPON: The value is 0.</li> <li>• GE Ethernet: The value is 1.</li> <li>• 10GE Ethernet: The value is 2.</li> </ul> </li> <li>• <i>port-number</i>:               <ul style="list-style-type: none"> <li>• GPON: The range is from 1 to 8.</li> <li>• GE Ethernet: The range is from 1 to 4.</li> <li>• 10GE Ethernet: The range is from 1 to 2.</li> </ul> </li> </ul>
<b>all</b>	All ports.

Command Modes	Description
Privileged EXEC (#)	
Global configuration (config)	

### Examples

This example shows how to view the brief information about an ONT interface.

```
Device> enable
Device# configure terminal
Device(config)# show ont brief count interface gpon 0/1
Port  Online-num  Offline-num  Total
g0/1  1             4            5
Total entries: 1.
```

# show ont description

To display the description of an ONT, use the **show ont description** command in privileged EXEC or global configuration mode.

**show ont description** {*slot-num/pon-num/ont-num* | **interface gpon** *slot-number/port-number* }

## Syntax Description

*slot-num/pon-num/ont-num*

The ONT ID.

- *slot-num*: The slot number. The value is 0.
- *pon-num*: The PON number. The range is from 1 to 8.
- *ont-num*: The ONT number. The range is from 1 to 128.

*slot-number/port-number*

The port ID.

- *slot-number*:
  - GPON: The value is 0.
  - GE Ethernet: The value is 1.
  - 10GE Ethernet: The value is 2.
- *port-number*:
  - GPON: The range is from 1 to 8.
  - GE Ethernet: The range is from 1 to 4.
  - 10GE Ethernet: The range is from 1 to 2.

## Command Modes

Privileged EXEC (#)

Global configuration (config)

## Examples

This example shows how to view the description of an ONT

```
Device> enable
Device# configure terminal
Device(config)# show ont description interface gpon 0/1
```

## show ont info

To display detailed information about an ONT, use the **show ont info** command in privileged EXEC or global configuration mode.

**show ont info** *slot-num/pon-num/ont-num*

Syntax Description	<i>slot-num/pon-num/ont-num</i>	The ONT ID.
		<ul style="list-style-type: none"> <li>• <i>slot-num</i>: The slot number. The value is 0.</li> <li>• <i>pon-num</i>: The PON number. The range is from 1 to 8.</li> <li>• <i>ont-num</i>: The ONT number. The range is from 1 to 128.</li> </ul>

Command Modes	Privileged EXEC (#)
	Global configuration (config)

### Examples

This example shows how to view detailed information about an ONT

```
Device> enable
Device# configure terminal
Device(config)# show ont info 0/1/5
ONT : 0/1/5
Description : -
TYPE : -
Status : online
Distance (m) : 3
Vendor ID : CSCCO
Software Version : 1.1.2.5/1.1.2.6
Firmware Version : N40-428-1
Equipment ID : 4GE-POE-2POTS-CATV
SN : GPON-5aa7012a
Password : 123456
LOID : 000a5aa7012a
LOID Password : a7012a
Uplink PON ports : 1
ETH/POTS/TDM/MOCA ports : 4/2/0/0
CATV ANI/UNI ports : 0/1
T-CONTs/GEM ports : 31/127
Traffic Schedulers : 31
PQs in T-CONT 1-8 : 8/8/8/8/8/8/8/8
DBA method : NSR
IP configuration : not support
Type of flow control : GEMPORT CAR and PQ SCHEDULED
TX power cut off : Not Support
Online/Offline time : 05:04:03 2001/12/08
Up/Down time : 1 day(s) 17 hour(s) 34 minute(s)
```

# show ssh

To display SSH configuration, use the **show ssh** command in privileged EXEC or global configuration mode.

## show ssh

---

### Command Modes

Privileged EXEC (#)

Global configuration (config)

---

### Examples

This example shows how to view the SSH configuration

```
Device> enable
Device# show ssh
ssh version   : 2.0
ssh state     : on
ssh key file  : available
```

# show ssh limit

To display the maximum number of the users, use the **show ssh limit** command in privileged EXEC or global configuration mode.

## show ssh limit

---

### Command Modes

Privileged EXEC (#)

Global configuration (config)

---

### Examples

This example shows how to view the maximum number of the users.

```
Device> enable
Device# show ssh limit
SSH user limit is 5, current is 0.
```

# show telnet

To display the telnet information, use the **show telnet** command in privileged EXEC or global configuration mode.

## show telnet

---

### Command Modes

Privileged EXEC (#)

Global configuration (config)

---

### Examples

This example shows how to display the telnet information.

```
Device> enable
Device# configure terminal
Device(config)# show telnet
Telnet service port is 23, using port is 23, user limit is 5, current is 1.
```

# sip agent

To configure the SIP proxy server, use the **sip agent proxy-server** command in unique profile configuration mode. To disable the SIP proxy server, use the **no sip agent proxy-server** command.

**sip agent proxy-server** *proxy\_server\_uri* {**outbound-proxy** | **registrar-server** | **signal-port** } *proxy\_server\_uri*

**no sip agent**

## Syntax Description

<i>proxy_server_uri</i>	The proxy server URI.
<b>outbound-proxy</b>	The outbound proxy.
<b>registrar-server</b>	The registrar server.
<b>signal-port</b>	The signal port.

## Command Modes

Unique profile configuration (deploy-profile-unique)

## Usage Guidelines

A unique profile type must be configured.

## Examples

This example shows how to configure the SIP proxy server.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile unique
Device(deploy-profile-unique)# aim 0/1/1
Device(deploy-profile-unique-0/1/1)# sip agent proxy-server 2
```

## Related Commands

Command	Description
<b>deploy profile</b>	Deploys a profile type
<b>aim</b>	Creates aim based on the profile.



# sip digitmap

To configure the SIP digit map, use the **sip digitmap** command in unique profile configuration mode.

**sip digitmap dial-plan-id** *dial\_plan\_id* **dial-plan-token** *token*

Syntax Description		
<i>dial_plan_id</i>	The digit map index	The range is from 1 to 10.
<i>token</i>	The token	

**Command Modes** Unique profile configuration (deploy-profile-unique)

**Usage Guidelines** A unique profile type must be configured.

## Examples

This example shows how to configure the SIP digit map.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile unique
Device(deploy-profile-unique)# aim 0/1/1
Device(deploy-profile-unique-0/1/1)# sip digitmap dial-plan-id 3 dial-plan-token token1
```

Related Commands	Command	Description
	<b>deploy profile</b>	Deploys a profile type
	<b>aim</b>	Creates aim based on the profile.

# sip user

To configure the SIP users, use the **sip user** *user\_id* command in unique profile configuration mode. To disable SIP users, use the **no sip user** *user\_id* command.

**sip user** *pots\_number* {**name** *username* **password** *password* | **telno** *telephone\_number*}

**no sip user** *pots\_number*

## Syntax Description

<i>pots_number</i>	The ONT POTS port number. The value range is from 1 to 2
<i>username</i>	The SIP username. The username length is from 1 to 25.
<i>password</i>	The SIP password. The password length is from 1 to 25
<i>telephone_number</i>	The ONT local phone number. The digit length is from 1 to 25.

## Command Modes

Unique profile configuration (deploy-profile-unique)

## Usage Guidelines

A unique profile type must be configured.

## Examples

This example shows how to configure the SIP users

```
Device> enable
Device# configure terminal
Device(config)# deploy profile unique
Device(deploy-profile-unique)# aim 0/1/1
Device(deploy-profile-unique-0/1/1)# sip user 2 name user 1 password 123
```

## Related Commands

Command	Description
<b>deploy profile</b>	Deploys a profile type
<b>aim</b>	Creates aim based on the profile.

## sip user mode

To configure an SIP interface, use the **sip user mode** command in unique profile configuration mode. To disable the SIP interface, use the **no sip user mode** command.

**sip user mode** {**static ip-address** *ip\_address* **mask** *mask* **gateway** *gateway\_address* **master-dns** *master\_dns\_address* **slave-dns** *slave\_dns\_address* | **dhcp**} **vlan** *vlan\_id* **priority** **host** *host\_number*

**no sip user mode**

Syntax	Description
<b>ip-address</b> <i>ip_address</i>	The IP address
<b>mask</b> <i>mask</i>	The IP network mask
<b>gateway</b> <i>gateway_address</i>	The gateway address.
<b>master-dns</b> <i>master_dns_address</i>	The master DNS IP address
<b>slave-dns</b> <i>slave_dns_address</i>	The slabe DNS address
<b>vlan</b> <i>vlan_id</i>	The VLAN ID The range is from 1 to 4094.
<b>priority</b>	The priority The range is from 0 to 7.
<b>host</b> <i>host_number</i>	The host number. The range is from 1 to 4.

**Command Modes** Unique profile configuration (deploy-profile-unique)

**Usage Guidelines** A unique profile type must be configured.

**Examples** This example shows how to configure an SIP interface

```
Device> enable
Device# configure terminal
Device(config)# deploy profile unique
Device(deploy-profile-unique)# aim 0/1/1
Device(deploy-profile-unique-0/1/1)# sip usr mode dhcp vlan 2 4 host 4
```

Related Commands	Command	Description
	<b>deploy profile</b>	Deploys a profile type
	<b>aim</b>	Creates aim based on the profile.

## snmp-server

To enable the snmp server to send traps or disable the snmp server, use the **snmp-server** command in global configuration mode.

**snmp-server** {**enable** | **disable**}

Syntax Description	enable	disable
	Enables the snmp server to send traps.	Disables the snp server.

**Command Modes** Global configuration (config)

### Examples

This example shows how to disable the snmp server.

```
Device> enable
Device# configure terminal
Device(config)# snmp-server disable
```

# ssh

To enable SSH, use the **ssh** command in global configuration mode. To disable SSH, use the **no ssh** command.

**ssh**

**no ssh**

## Command Modes

Global configuration (config)

## Examples

This example shows how to enable SSH.

```
Device> enable
Device# configure terminal
Device(config)# ssh
Config SSH state successfully.
```

## Related Commands

Command	Description
<b>ssh limit</b> <i>value</i>	Limits the number of user logins on SSH.
<b>stop vty</b> { <i>vty_list</i>   <b>all</b> }	Removes logged in users.
<b>crypto key</b>	Configures or removes a key.
<b>upload keyfile</b>	Uploads the local key to the key server
<b>load keyfile</b>	Downloads the key from the external key server

# ssh limit

To limit the number of user logins on SSH, use the **ssh limit** command in global configuration mode.

**ssh limit** *value*

## Syntax Description

*value*

The user login limit value.

The range is 0-5.

## Command Modes

Global configuration (config)

## Usage Guidelines

SSH must be enabled on the device.

## Examples

This example shows how to limit the number of user logins on SSH.

```
Device> enable
Device# configure terminal
Device(config)# ssh limit 5
```

## Related Commands

Command	Description
<b>aim</b>	Creates .

## stop telnet client

To remove logged in Telnet clients, use the **stop telnet client** command in privileged EXEC mode.

**stop telnet client** {*terminal\_id* | **all**}

Syntax Description	<i>terminal_id</i>	Telnet clients logged in through a particular terminal. The range is 0-5.
	<b>all</b>	All Telnet clients.

**Command Modes** Privileged EXEC (#)

**Usage Guidelines** Use this command on the OLT configured as the Telnet server.

### Examples

This example shows how to remove logged in Telnet clients

```
Device> enable
Device# stop telnet client all
Stop all telnet clients successfully.
```

Related Commands	Command	Description
	<b>telnet enable</b>	Enables Telnet on a OLT and configures the OLT as the Telnet server.

# stop vty

To remove logged in users, use the **stop vty** command in privileged EXEC mode.

**stop vty** {*vtty\_list* | **all**}

Syntax Description		
	<i>vtty_list</i>	Users on the vty list only
	<b>all</b>	All logged in users.

**Command Modes** Privileged EXEC (#)

**Usage Guidelines** SSH must be enabled on the device.

**Examples** This example shows how to remove logged in users.

```
Device> enable
Device# stop vty 3
```

Related Commands	Command	Description
	<b>ssh</b>	Enables SSH on an OLT.



## tcont *tcont\_id*

To create a transmission container (T-CONT), use the **tcont** *tcont\_id* command in line profile configuration mode. To delete a T-CONT, use the **no tcont** *tcont\_id* command.

**tcont** *tcont\_id* **profile dba** {*index\_number* | **name** *name*}

**no tcont** *tcont\_id*

Syntax Description		
<i>tcont_id</i>		The T-CONT ID. The range is from 1 to 8.
<i>index_number</i>		The index of the template. The range is from 0 to M, where M is the maximum number of ONUs supported by the whole machine.
<i>name</i>		The name of the template.

**Command Modes** Line profile configuration (deploy-profile-line)

**Usage Guidelines** A line profile type must be configured.  
Modifying and activating the line traffic profile will cause the ONT that references the template to go online again.

**Examples** This example shows how to create a T-CONT.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile line
Device(deploy-profile-line)# aim 5
Device(deploy-profile-line-5)# tcont 6 profile dba 100
Device(deploy-profile-line-5)# active
```

Related Commands	Command	Description
	<b>deploy profile</b>	Deploys a profile type
	<b>aim</b>	Creates aim based on the profile.

# telnet disable

To disable Telnet on an OLT, use the **telnet disable** command in global configuration mode.

## telnet disable

**Command Modes** Global configuration (config)

**Usage Guidelines** Use this command on the OLT configured as the Telnet server.

**Examples** This example shows how to disable Telnet on an OLT.

```
Device> enable
Device# configure terminal
Device(config)# telnet disable
```

## Related Commands

Command	Description
<b>telnet enable</b>	Enables Telnet on a OLT and configures the OLT as the Telnet server.

# telnet enable

To enable Telnet on an OLT and configures the OLT as the Telnet server , use the **telnet enable** command in global configuration mode.

## telnet enable

### Command Modes

Global configuration (config)

### Examples

This example shows how to enable Telnet on an OLT

```
Device> enable
Device# configure terminal
Device(config)# telnet enable
```

### Related Commands

Command	Description
<b>telnet disable</b>	Disables Telnet on an OLT.
<b>telnet limit</b> <i>value</i>	Limits the number of users that can login to the Telnet server.
<b>timeout</b> <i>value</i>	Enables the client timeout and configures the timeout value.
<b>stop telnet client</b> { <i>terminal_id</i>   <b>all</b> }	Removes logged in Telnet clients.

# telnet limit

To limit the number of users that can login to the Telnet server, use the **telnet limit** command in global configuration mode.

**telnet limit** *value*

Syntax Description	<i>value</i>	The limit of the number of users. The range is 0-5.
--------------------	--------------	--

**Command Modes** Global configuration (config)

**Usage Guidelines** Use this command on the OLT configured as the Telnet server.

**Examples** This example shows how to limit the number of users that can login to the Telnet server.

```
Device> enable
Device# configure terminal
Device(config)# telnet limit 3
```

Related Commands	Command	Description
	<b>telnet enable</b>	Enables Telnet on a OLT and configures the OLT as the Telnet server.

## telnet *server-ip*

To login to the Telnet server, use the **telnet** *server-ip* command in Privileged EXEC mode.

```
telnet server-ip {port-number | /localecho}
```

Syntax	Description
<i>server-ip</i>	The Telnet server IP address
<i>port-number</i>	The port number.
<b>/localecho</b>	

**Command Modes** Privileged EXEC (#)

### Examples

This example shows how to login to the Telnet server.

```
Device> enable
Device# telnet 100.100.100.1
```

Related Commands	Command	Description
	<b>telnetclient timeout</b> <i>value</i>	Enables client timeout and configures the timeout interval.

# telnetclient timeout

To enable client timeout , use the **telnetclient timeout** command in global configuration mode. To disable client timeout, use the **no telnetclient timeout** command.

**telnetclient timeout** [*value*]

**no telnetclient timeout**

## Syntax Description

*value*

The system idle timeout value.

The unit is minutes. The range is from 1 to 480.

## Command Modes

Global configuration (config)

## Usage Guidelines

Use this command on the OLT configured as the Telnet client. To enable client timeout, use the **telnetclient** command in global configuration mode. To configure the timeout interval, use the **telnetclient value** command.

## Examples

This example shows how to enable client timeout.

```
Device> enable
Device# configure terminal
Device(config)# telnetclient timeout
```

## Related Commands

Command	Description
<b>telnet</b> <i>server-ip</i>	Logins to the Telnet server

# timeout

To enable the client timeout, use the **timeout** command in privileged EXEC mode. To disable the client timeout function, use the **no timeout** command.

**timeout** *value*

**no timeout**

## Syntax Description

*value*

The system idle timeout value.

The unit is minutes. The range is from 1 to 480.

## Command Modes

Privileged EXEC (#)

## Usage Guidelines

Use this command on the OLT configured as the Telnet server. To enable the client timeout, use the **timeout** command. To configure the client timeout value, use the **timeout value** command.

## Examples

This example shows how to configure a client timeout interval of 30 minutes.

```
Device> enable
Device# timeout 30
```

## Related Commands

Command	Description
<b>telnet enable</b>	Enables Telnet on a OLT and configures the OLT as the Telnet server.

## translate old-vlan

To configure the VLAN translate rule, use the **translate old-vlan** command in VLAN profile configuration mode. To disable the **no translate old-vlan** command.

```
translate old-vlan vlan_id {priority | new-vlan vlan_id [priority]}
```

```
no translate old-vlan vlan_id [priority]
```

Syntax Description		
	<i>priority</i>	The priority value. The range is from 0 to 7.
	<i>vlan_id</i>	The VLAN ID The range is from 1 to 4094.

**Command Modes** VLAN profile configuration (deploy-profile-vlan)

**Usage Guidelines** A VLAN profile type must be configured.  
Modifying and activating the VLAN template will cause the ONT that references the template to go online again.

**Examples** This example shows how to configure the VLAN translate rule

```
Device> enable
Device# configure terminal
Device(config)# deploy profile vlan
Device(deploy-profile-vlan)# aim 5
Device(deploy-profile-vlan-5)# translate old-vlan 2 2 new-vlan 10 5
Device(deploy-profile-vlan-5)# active
```

Related Commands	Command	Description
	<b>deploy profile</b>	Deploys a profile type
	<b>aim</b>	Creates aim based on the profile.



## type 1 fix

To configure only a fixed bandwidth, use the **type 1 fix** *fixed\_bandwidth* command in DBA profile configuration mode.

**type 1 fix** *fixed\_bandwidth*

<b>Syntax Description</b>	<i>fixed_bandwidth</i>	The fixed bandwidth in kbps. The range is from 256 to 800000.  The fixed bandwidth must be divisible by 64 kbps. The default is 256 kbps
---------------------------	------------------------	--

**Command Modes** DBA profile configuration (deploy-profile-dba)

**Usage Guidelines** Type 1 T-CONT is preferred for services that are sensitive to the data forwarding delay. For example, VoIP services.

A DBA profile type must be configured.

Modifying and activating the DBA profile will cause the ONT that references the template to go online again.

### Examples

This example shows how to configure type 1 T-CONT.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile dba
Device(deploy-profile-dba)# aim 5
Device(deploy-profile-dba-5)# type 1 fix 1024
Device(deploy-profile-dba-5)# active
```

Command	Description
<b>deploy profile</b>	Deploys a profile type
<b>aim</b>	Creates aim based on the profile.

## type 2

To configure only the assured bandwidth, use the **type 2 assured** *assured\_bandwidth* command in DBA profile configuration mode.

**type 2 assured** *assured\_bandwidth*

Syntax Description	<i>assured_bandwidth</i>	The assured bandwidth in kbps. The range is from 0 to 800000.  The assured bandwidth must be divisible by 64 kbps. The default is 256 kbps.
--------------------	--------------------------	---

**Command Modes** DBA profile configuration (deploy-profile-dba)

**Usage Guidelines** Type 2 T-CONT is preferred for services without strict delay and jitter requirements. For example, IPTV multicast services.

A DBA profile type must be configured.

Modifying and activating the DBA profile will cause the ONT that references the template to go online again.

### Examples

This example shows how to configure type 2 T-CONT.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile dba
Device(deploy-profile-dba)# aim 5
Device(deploy-profile-dba-5)# type 2 assured 1024
Device(deploy-profile-dba-5)# active
```

Command	Description
<b>deploy profile</b>	Deploys a profile type
<b>aim</b>	Creates aim based on the profile.

## type 3

To configure both assured bandwidth and non-assured bandwidth, use the **type 3 assured** *assured\_bandwidth* **max** *max\_bandwidth* command in DBA profile configuration mode.

**type 3 assured** *assured\_bandwidth* **max** *max\_bandwidth*

Syntax Description		
<i>assured_bandwidth</i>		The assured bandwidth in kbps. The range is from 0 to 800000.  The assured bandwidth must be divisible by 64 kbps. The default is 256 kbps.
<i>max_bandwidth</i>		The maximum bandwidth in kbps. The range is from 256 to 1200000.  The maximum bandwidth must be divisible by 64 kbps. The default is 256 kbps

**Command Modes** DBA profile configuration (deploy-profile-dba)

**Usage Guidelines** Type 3 T-CONT is preferred for services with variable-rate burst traffic.  
A DBA profile type must be configured.  
Modifying and activating the DBA profile will cause the ONT that references the template to go online again.

### Examples

This example show how to configure both assured bandwidth and non-assured bandwidth.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile dba
Device(deploy-profile-dba)# aim 5
Device(deploy-profile-dba-5)# type 3 assured 1024 max 2500
Device(deploy-profile-dba-5)# active
```

Command	Description
<b>deploy profile</b>	Deploys a profile type
<b>aim</b>	Creates aim based on the profile.

## type 4

To configure the optimum bandwidth, use the **type 4 max *max\_bandwidth*** command in DBA profile configuration mode.

**type 4 max *max\_bandwidth***

<b>Syntax Description</b>	<i>max_bandwidth</i>	The maximum bandwidth in kbps. The range is from 256 to 1200000.  The maximum bandwidth must be divisible by 64 kbps. The default is 256 kbps.
---------------------------	----------------------	--

**Command Modes** DBA profile configuration (deploy-profile-dba)

**Usage Guidelines** Type 4 T-CONT is preferred for services with variable-rate burst traffic which does not exhibit delay sensitivity. For example, internet data services.

A DBA profile type must be configured.

Modifying and activating the DBA profile will cause the ONT that references the template to go online again.

### Examples

This example show how to configure the optimum bandwidth.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile dba
Device(deploy-profile-dba)# aim 5
Device(deploy-profile-dba-5)# type 4 max 1024
Device(deploy-profile-dba-5)# active
```

Command	Description
<b>deploy profile</b>	Deploys a profile type
<b>aim</b>	Creates aim based on the profile.

## type 5

To configure a combination of fixed, assured and best-effort bandwidth, use the **type 5 fix** *fixed\_bandwidth* **assured** *assured\_bandwidth* **max** *max\_bandwidth* command in DBA profile configuration mode.

**type 5 fix** *fixed\_bandwidth* **assured** *assured\_bandwidth* **max** *max\_bandwidth*

Syntax	Description
<i>fixed_bandwidth</i>	The fixed bandwidth in kbps. The range is from 256 to 800000.  The fixed bandwidth must be divisible by 64 kbps. The default is 256 kbps
<i>assured_bandwidth</i>	The assured bandwidth in kbps. The range is from 0 to 800000.  The assured bandwidth must be divisible by 64 kbps. The default is 256 kbps.
<i>max_bandwidth</i>	The maximum bandwidth in kbps. The range is from 256 to 1200000.  The maximum bandwidth must be divisible by 64 kbps. The default is 256 kbps.

**Command Modes** DBA profile configuration (deploy-profile-dba)

**Usage Guidelines** Type 5 T-CONT is preferred for services with general traffic.  
A DBA profile type must be configured.  
Modifying and activating the DBA profile will cause the ONT that references the template to go online again.

**Examples** This example show how to configure a combination of fixed, assured and best-effort bandwidth

```
Device> enable
Device# configure terminal
Device(config)# deploy profile dba
Device(deploy-profile-dba)# aim 5
Device(deploy-profile-dba-5)# type 5 fix 1024 assured 1024 max 1024
Device(deploy-profile-dba-5)# active
```

Command	Description
<b>deploy profile</b>	Deploys a profile type
<b>aim</b>	Creates aim based on the profile.

# upload keyfile

To upload the local key to the key server, use the **upload keyfile** command in privileged EXEC mode.

## Upload to a TFTP server

```
upload keyfile {public | private} tftp {inet | inet6} server_ip filename
```

## Upload to a FTP server

```
upload keyfile {public | private} ftp {inet | inet6} server_ip filename
```

### Syntax Description

<b>public</b>	The public SSH key file
<b>private</b>	The private SSH key file
<b>tftp</b>	Loads the file from the TFTP server.
<b>ftp</b>	Loads the file from FTP server.
<b>inet</b>	The IPv4 address family.
<b>inet6</b>	The IPv6 address family
<i>server_ip</i>	The server IP address
<i>filename</i>	The key filename.

### Command Modes

Privileged EXEC (#)

### Usage Guidelines

SSH must be enabled on the device.

### Examples

This example shows how to upload the local key to the FTP server

```
Device> enable
Device# upload keyfile public ftp inet 100.100.100.1 mykey admin 123456
```

### Related Commands

Command	Description
<b>ssh</b>	Enables SSH on an OLT.
<b>load keyfile</b>	Downloads the key from the external key server

## us car

To configure GEM port traffic control, use the **us car cir cir cbs cbs pir pir pbs pbs** command in uplink traffic profile configuration mode.

**us car cir cir cbs cbs pir pir pbs pbs**

Syntax Description		
<b>cir cir</b>	The committed information rate in kbps. The range is from 64 to 800000	
<b>cbs cbs</b>	The committed burst size in KB. The range is from 2 to 25000.	
<b>pir pir</b>	The peak information rate in kbps. The range is from 64 to 1024000.	
<b>pbs pbs</b>	The peak burst size in KB. The range is from 2 to 25000.	

**Command Modes** Uplink traffic profile (deploy-profile-us-traffic)

**Usage Guidelines** An uplink profile type must be configured.  
The peak information rate requirement is greater than or equal to committed information rate.  
Modifying and activating the uplink traffic profile will cause the ONT that references the template to go online again.

**Examples** This example shows how to configure GEM port traffic control.

```
Device> enable
Device# configure terminal
Device(config)# deploy profile us-traffic
Device(deploy-profile-us-traffic)# aim 5
Device(deploy-profile-us-traffic-5)# us queue 1
Device(deploy-profile-us-traffic-5)# us car cir 128 cbs 1024 pir 128 pbs 24
Device(deploy-profile-us-traffic-5)# active
```

Related Commands	Command	Description
	<b>deploy profile</b>	Deploys a profile type
	<b>aim</b>	Creates aim based on the profile.

## us queue

To configure GEM port queue priority, use the **us queue** command in uplink traffic profile configuration mode.

**us queue** *priority\_queue*

### Syntax Description

*priority\_queue*

The priority queue.

The range is from 0 to 7.

### Command Modes

Uplink traffic profile (deploy-profile-us-traffic)

### Usage Guidelines

An uplink profile type must be configured.

### Examples

This example shows how to configure GEM port queue priority

```
Device> enable
Device# configure terminal
Device(config)# deploy profile us-traffic
Device(deploy-profile-us-traffic)# aim 5
Device(deploy-profile-us-traffic-5)# us queue 1
```

### Related Commands

Command	Description
<b>deploy profile</b>	Deploys a profile type
<b>aim</b>	Creates aim based on the profile.