ONU Template Configuration

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Chapter 1 **ONU Configuration Template**

1.1 Overview of the ONU Configuration Template

The ONU configuration template is used to provide the default settings for the ONU with null configuration at this registration of this null-configuration ONU, which can realize the rapid access of ONU. When a brand-new ONU accesses a PON port, ONU can read the preset configuration information according to the configuration template on the PON port. The presetting can realize that all ports of ONU belong to the corresponding VLAN and other original settings can also be realized. The users in a community can access the Internet rapidly without any configuration to be done by users for each ONU, which greatly make ONU deployment convenient.

1.2 Presetting Function Configuration Tasks

- Obtaining the Presetting Command
- Configuring the Presetting Template
- Applying the Presetting Template

1.2.1 Obtaining the Presetting Commands

Configure all commands manually on a currently online ONU and then run **show running interface epon XX** on the manually configured LLID port to obtain the configuration information about the current port. These displayed commands will be used as the presetting commands to configure the template.

1.2.2 Configuring the Presetting Template

The configuration template provides all presetting commands. Users can create multiple configuration templates according different deployment. According to different LLIDs under a PON port, multiple templates can be applied.

To set the configuration template, run the following commands in global mode:

Command	Purpose
epon onu-config-template word	Defines a ONU configuration template and enters the template mode.
cmd-sequence number **command**	Sets the template commands.

Note:

The spelling of the template commands must be correct, which must be same to that of the commands that are obtained through the obtainment of the presetting commands. The sequence number of a command cannot be duplicate.

1.2.3 Applying the Presetting Template

By default, no configuration template is on the PON port. Users can use the same template for a LLID group according to requirements and LLID differences. The ONUs that uses the same template have the same presetting commands. Several configuration templates can be applied on the same PON port.

To apply the configuration template, run the following commands in PON port mode:

Command	Purpose
Interface EPON XX	Enters the port mode.
epon pre-config-template name **binded-onu-llid** llid-num	Applies the templates on this PON port.

1.2.4 Configuration Example

Example 1: the following example shows how to create a presetting template whose name is 123, in which two commands are included:

```
epon onu vlan 1-64

epon onu port 1 ctc vlan mode tag 10
```

Apply template 123 on interface EPON1/1 only when LLID is a value between 1 and 8.

```
epon onu-config-template 123
cmd-sequence 1 epon onu vlan 1-64
cmd-sequence 2 epon onu port 1 ctc vlan mode tag 10
!
interface EPON5/1
epon pre-config-template 123 binded-onu-llid 1-8
```

Example 2: Apply several templates on the PON port.

```
epon onu-config-template 123
 cmd-sequence 1 epon onu vlan 1-64
 cmd-sequence 2 epon onu port 1 ctc vlan mode tag 10
!
epon onu-config-template 456
 cmd-sequence 1 epon onu vlan 101-164
!
interface EPON5/1
 epon bind-onu 00e0.0fcb.9c52 2
 epon bind-onu 00e0.0fca.9b84 9
 epon pre-config-template 456 binded-onu-llid 9-10
 epon pre-config-template 123 binded-onu-llid 1-8
!
```

```
interface EPON5/1:2
  onu-configuration
    epon onu vlan 1-64
    epon onu port 1 ctc vlan mode tag 10
!!onu-configuration-end
!
interface EPON5/1:9
  onu-configuration
    cmd-sequence 1 epon onu vlan 101-164
!!onu-configuration-end
!
```