EasyPath-EPON
Product and common command introduction

- EasyPath-EPON
- EasyPath-EPON Common command
  - Open command
  - OLT Common inspection command
  - OLT Common configuration commands
  - ONU Common maintenance commands
  - ONU Common configuration commands

Common configuration commands

- Create VLAN
- Interface vlan <vlanname> <1-4094>
- GFA8000(config)#interface vlan v1000 1000
- GFA8000(vlan-v1000)#
- Delete VLAN
- Undo interface vlan <vlanname>
- GFA8000(config)#undo interface vlan v1000
- GFA8000(config)#show interface vlan v1000
- % VLAN v1000 does not exist.

Common configuration commands

- Join port VLAN
- Add port <portlist> {tagged|untagged}
- GFA8000(vlan-v1000)#add port 1/1 tagged
- GFA8000(vlan-v1000)#
- One port to untagged can only join one VLAN；
- Tagged can be join multiple VLAN

- VLAN delete：
- Delete port <portlist> {tagged|untagged}
- GFA8000(vlan-v1000)#delete port 1/1 tagged
- GFA8000(vlan-v1000)#

Common configuration commands

- VLAN Batch creation
- GFA8000(config)#vlan 100-200
- Batch creation 100 – 200 vlan number

- Add a port in bulk to a lot in vlan：
- GFA8000(if-eth1/1)#vlan join 100-200 tagged
- Join1/1 After port use vlan join 100-200 tagged command can be achieved

- ONU 5/1/1
- Pty
- Username Admin Password greenway
- Enable （config）#onu

Common configuration commands

- On ONUspeed limit：
- port fc 1 1\\Start the flow control function.

- port ingress_rate 1 0 8000 pause 12k\\Use ONU 1 the port entry direction speed limit is 8M flow control
- port ingress_rate 1 0 8000\\Use ONU 1 Port speed limit is 8M discard method.
- port egress_rate 1 8000 \\Use ONU 1The speed limit of the exit of the port is 8M the way

Common configuration commands

- Set the upstream bandwidth of the ONU based on the PON port:
- Command： bandwidth class 2 delay low fixed-bw <0-1000000> assured-bw <64-1000000> up <onuid_list(1-64)>
- Example：
- GFA8000(epon-pon6/2)#bandwidth class 2 delay low assured-bw 15000 best-effort-bw 100000 up 1
- GFA8000(epon-pon5/1)#undo bandwidth up 1 Cancel command（216 release version）
- GFA8000(epon-pon6/2)#show bandwidth logical-link 1
- onu 6/2/1 bandwidth Information(unit:kbit/s)
- Uplink: class: 1 fixed bw: 20000
- assured bw: 30000 best-effort bw: 50000
- Downlink: class: -- delay: --
- assured bw:No policer best-efort bw: --

Common configuration commands

- Add a default bandwidth configuration for the bandwidth OLT
- onu default-bandwidth uplink <64-1000000> <64-1000000> {downlink [0|<64-1000000>] [0|<64-1000000>]}*1
- After using this command, all ONUs on the network will be assigned the bandwidth configured above by default.

Common configuration commands

- Set the ONU to learn the number of MAC addresses.
- Manner 1: When you need to set the number of MAC addresses learned by the ONU under the PON port in batches, you can enter the PON port and type the command onu max-mac <1-8192> <1-64>, and you can use show ONU max-mac < 1-64>Command View the number of MAC addresses that the current ONU can learn.

Example:

- GFA8000(config)#pon 6/1
- GFA8000(epon-pon6/1)#onu max-mac 555 1-3
- GFA8000(epon-pon6/1)#show onu max-mac 1-64
- onu6/1/1 max-mac supported---555

- Manner 2: If you only need to set the number of MAC addresses that can be learned on a single ONU, you can enter the ONU node to set the number of MAC addresses that can be learned. The command is the same as above.
- GFA8000(config)#onu 6/1/1
- GFA8000(epon-onu6/1/1)#onu max-mac 500
- GFA8000(epon-onu6/1/1)#show onu max-mac
- onu6/1/1 supported max-mac number is 500

Common configuration commands

- About the use of pre-configuration files
- The first step is to create a pre-configuration file:
- GFA8000(config)#config onu-profile test -----test Pre-config file name
- Step 2 Associate one or more ONUs
- GFA8000(config)#onu-profile associate 5/2 2 test ---- Association 5/2/2ONU

- Batch pre-configuration introduction
- Step 1: Create a pre-configuration file
- vlan dot1q_add onu_range <slot/port/onuid> <slot/port/onuid> <2-4094> [1|2] {<port_list>}*1

Example：

onu-profile(test)#vlan dot1q_add onu_range 5/2/1 5/2/64 vlan-range 101 164 1 2

ONU range is 5/2/1 – 5/2/64 vlan range is 101 164 where ONU corresponds to vlan101 and so on. All ports of each ONU are added in untagged form.

Second step: Associate batch pre-configuration files

GFA8000(config)#onu-profile associate 5/2 1-64 test

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ONU Common maintenance commands

GFA8000(config)#onu 4/1/1
GFA8000(epon-onu4/1/1)#port link_show

Port	Status
1	UP
2	UP
3	UP
4	UP

Check the ON/DOWN status of the Ethernet port on the ONU.
GFA8000(epon-onu4/1/1)#port en 2 1
2 is the port number 1 is enabled 0 is off

ONUCommon maintenance commands

- GFA8000(epon-onu4/1/1)#port mode_show 1
- Port 1 : AutoNegotiation enabled Max speed 100 M, current speed 100 M, Duplex full.
- Physical status is up, Administrator status is up

- Check the working mode of the ONU's Ethernet port.

ONUCommon maintenance commands

- GFA8000(config)#onu 4/1/3
- GFA8000(epon-onu4/1/3)#atu show

no	mac	portlist	static	vid	priority
1	00-0f-e9-00-4a-c0	5	0	1	0
2	00-0f-e9-03-48-06	5	1	1	0
3	00-0f-e9-05-16-70	5	1	1	0
4	00-30-88-15-2c-da	5	0	1	0
5	01-00-5e-00-00-01	1,2,3,4,5	1	1	0
6	d8-5d-4c-32-e3-3d	2	0	1	0
7	ff-ff-ff-ff-ff-ff	1,2,3,4,5	1	1	0

- Total number of ATU table is 7.
- View the MAC address table of the switch chip of the ONU.

ONUCommon maintenance commands

- GFA8000(epon-onu4/1/3)#vlan dot1q_show
- Interface VLAN default is up.
- Physical status is up, administrator status is up.
- MTU 1600 bytes.
- IP address:
- 192.4.1.21/24
- IP binding disabled.
- MulitiCast Flood Mode is 2.
- Vlan id is 1.
- Port member list:
- eth1/1(u) eth1/2(u) eth1/3(u) eth1/4(u)
- eth1/5(u)
- Trunk member list:
-
- View the VLAN information of the ONU.

ONUCommon maintenance commands

- GFA8000(epon-onu4/1/3)#event show
- Log information
- --
- Oct 7 15:31:18 EMERG : PON : No uplink traffic for 30 second.
- Oct 7 15:30:37 EMERG : PON : No uplink traffic for 30 second.
- Oct 7 15:29:57 EMERG : PON : No uplink traffic for 30 second.
- Oct 7 15:29:25 WARNING : TRAP : Interface eth1/2 changed state to up
- --
- View the alarm information of the ONU.

ONUCommon maintenance commands

- GFA8000(epon-onu4/1/3)#show device information

- onu 4/1/3 Device Information list:

- device Type:GT811_A device desc:Easypath GT811_A - 4FE
- Mac addr:000f.e905.1670

- Vendor Info:GW Technologies Co.,Ltd
- ponchip version: PAS6301
- device SN:GT811T1004100125
- product Date:2010-04-08
- Oam version:3 OAM standard according to 802.3ah Standard 3.0

- onu name:GT811_A
- onu description:GT811_A Version 1.2(Build 084 on Dec 15 2009, 19:43:21)
- onu location:DefaultsysLocation

ONUCommon maintenance commands

- Boot Ver:V1.0.0 Software Ver:V1R02B084
- Hardware Ver:V9.5B2 Firmware Ver:V1.4.2.4
- ONU version information
- opStatus: up encrypt started:not started
- Range:5504m Encrypt direction:none
- on-line time:0001:17:55:14 Encrypt Keytime:120(s)
- Start time: 2011-10-07, 15:29:25 onu traffic service:enable
- Up-Bandwidth:15000(kbit/s) Dn-Bandwidth:No policer
- Up-fixed:0(kbit/s)

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Common configuration commands

- Add VLAN on the ONU
- command： vlan dot1q_add <2-4094>
- vlan dot1q_del <2-4094>
- vlan dot1q_port_add <2-4094> <port_list> [1|2]
- vlan dot1q_port_del <2-4094> <port_list>
- vlan dot1q_show <1-4094>

Example：

GFA8000(config)#onu 6/2/1 Enter the ONU node

GFA8000(epon-onu6/2/1)#vlan dot1q_add

<2-4094> Please input the Vlan Vid(2-4094)

GFA8000(epon-onu6/2/1)#vlan dot1q_add 212 Create VLAN-212

GFA8000(epon-onu6/2/1)#vlan dot1q_port_add 212

GFA8000(epon-onu6/2/1)#vlan dot1q_port_add 212 1-4

1 Tagged

2 Untagged

GFA8000(epon-onu6/2/1)#vlan dot1q_port_add 212 1-4 2

Add ports 1-4 to VLAN 212 in untagged mode.

ONU common configuration commands

- Name the device through the command line configuration
- command：device name ＜onu-name＞
- The ONU device name can be viewed on the ONU node show device information or on the OLT configuration node show onu-list.
- Example：
- GFA8000(epon-onu6/2/1)#device name test
- Mgt config save
- GFA8000(epon-onu6/2/1)#show device information
- onu 6/2/1 Device Information list:
- <onu name:test>

- GFA8000(config)#show onu-list
- [TOTAL ONU COUNTER = 1]
- Idx Mac addr type status Lastedtime userName
- ----------
- Pon(slot6)/port2 [Onu counter = 1]
- 1 000f.e903.7167 GT811_A up 0000:03:14:44 test