**PHỤ LỤC 01**

**Tập lệnh khai báo dịch vụ đấu chéo trên các vendor**

|  | **OLT Dasan** | **OLT ZTE** | **OLT Huawei** | **OLT ALU** |
| --- | --- | --- | --- | --- |
| **H4M0V0** | **Profile H4M0V0**  **1. Khai báo extended-vlan-tagging-operation (mode gpon configure)**  gpon  extended-vlan-tagging-operation HSI-35-VHT create  downstream-mode enable  single-tagged-frame 1  filter inner vid 35 cos any tpid any  treat remove single  treat inner vid 35 cos 5 tpid 0x8100  apply  !  gpon  extended-vlan-tagging-operation 2501\_FTP create  downstream-mode enable  untagged-frame 1  treat inner vid 2501 cos 3 tpid 0x8100  apply  !  **2. Khai báo traffic-profile ( mode gpon configure)**  Gpon  traffic-profile H4M0V0\_VHT create  mgmt-mode uni eth 1 non-omci link virtual-eth 1  mgmt-mode uni eth 2 non-omci link virtual-eth 1  mgmt-mode uni eth 3 non-omci link virtual-eth 1  mgmt-mode uni eth 4 non-omci link virtual-eth1  tcont 1  gemport 1/1  dba-profile HSI  tcont 2  gemport 2/1  dba-profile FTP  mapper 1  gemport count 1  mapper 2  gemport count 1  bridge 1  ani mapper 1  vlan-filter vid 35 untagged discard  uni virtual-eth 1  extended-vlan-tagging-operation HSI-35-VHT  bridge 2  ani mapper 2  link ip-host-config 1  ip-host-config 1  ip address dhcp  extended-vlan-tagging-operation 2501\_FTP  apply  !  **3. Cấu hình onu-profile (mode gpon configure)**  onu-profile H4M0V0\_VHT create  traffic-profile H4M0V0\_VHT  apply  **4. Khai báo ONU SN (mode gpon:gpon-olt)**  gpon-olt 1/1  onu add 1 VTNW77f1bb78 auto-learning  onu-profile 1 H4M0V0\_VHT  **5. Cấu hình pppoe account cho ONU**  V8240(gpon)#gpon-olt 1/1  V8240(config-gpon-olt[1/1])# onu pppoe 1 host 2 user-account kv1\_test\_fiber\_11 kcsvtt | **Profile H4M0V0**  **1. Khai báo ONU type (mode config:pon)**  onu-type VIETTEL-vG-421WD gpon description 4ETH,WIFI  onu-type VIETTEL-vG-421WD gpon max-tcont 16  onu-type VIETTEL-vG-421WD gpon max-gemport 64  onu-type VIETTEL-vG-421WD gpon max-iphost 4  onu-type-if VIETTEL-vG-421WD eth\_0/1  onu-type-if VIETTEL-vG-421WD eth\_0/2  onu-type-if VIETTEL-vG-421WD eth\_0/3  onu-type-if VIETTEL-vG-421WD eth\_0/4  onu-type-if VIETTEL-vG-421WD wifi\_0/1  **2. Khai báo onu profile (mode config:pon:onu-profile)** pon  onu-profile gpon H4I0V0\_VHT  tcont 1 name HSI profile HSI  tcont 7 name TR069 profile TR069  gemport 1 name HSI tcont 1  gemport 7 name TR069 tcont 7  remote  service HSI gemport 1 vlan 35  service TR069 gemport 7 vlan 2501  wan-ip 3 mode dhcp vlan-profile TR069 host 3  dhcp-ip ethuni eth\_0/1 from-onu  dhcp-ip ethuni eth\_0/2 from-onu  dhcp-ip ethuni eth\_0/3 from-onu  dhcp-ip ethuni eth\_0/4 from-onu  wan 1 service internet host 1  **2. Khai báo Service Port cho ONU (mode interface gpon-onu)** interface gpon-onu\_1/1/1:1  service-port 1 vport 1 user-vlan 35 vlan 35  service-port 7 vport 7 user-vlan 2501 vlan 2501  **3. Khai báo ONU SN ( mode config:interface gpon)** interface gpon-olt\_1/1/1  onu 1 type VIETTEL-vG-421WD sn VTNW77F1BB78  onu 1 profile H4I0V0\_VHT  **4. Cấu hình pppoe accounts cho ONU ( mode interface gpon-onu)** pon-onu-mng gpon-onu\_1/1/1:1  wan-ip 1 mode pppoe username kv1\_test\_fiber\_12 password kcsvtt vlan-profile wan35 host 1 | **Profile H4M0V0**  **1**. **Khai báo line profile (mode config)**  ont-lineprofile gpon profile-name H4M0V0 tcont 1 dba-profile-name TR069 tcont 2 dba-profile-name HSI gem add 1 eth tcont 1 gem add 2 eth tcont 2 gem mapping 1 0 vlan 2501 gem mapping 2 0 vlan 35 commit quit **2. Khai báo service profile (mode config)** ont-srvprofile gpon profile-name H4M0V0 ont-port pots adaptive 2 eth adaptive 4  **3. Khai báo ONU SN (mode config:interface gpon)**  ont add “PonPortID” “ONU\_ID” sn-auth “SN” omci ont-lineprofile-name H4M0V0 ont-srvprofile-name H4M0V0  **4. Khai báo service port (mode config)** service-port vlan 2501 gpon 0/0/0 ont 1 gemport 1 multi-service user-vlan 2501 tag-transform translate  service-port vlan 35 gpon 0/0/1 ont 1 gemport 2 multi-service user-vlan 35 tag-transform translate | **Profile H4M0V0**  **1. Khai báo add ont:**  configure equipment ont interface 1/1/1/1/1 sw-ver-pland disabled sw-dnload-version disabled sernum VTNW:77F1BB70 fec-up enable enable-aes enable  configure equipment ont interface 1/1/1/1/1 admin-state up  exit all  **2. Khai báo ethernet**  configure equipment ont slot 1/1/1/1/1/1 planned-card-type 10\_100base plndnumdataports 4 plndnumvoiceports 0 admin-state up  configure ethernet ont 1/1/1/1/1/1/[1...4] admin-state up  configure ethernet ont 1/1/1/1/1/1/[1...4] auto-detect auto  exit all  **3. Khai báo dịch vụ Internet**  configure qos  interface 1/1/1/1/1/10/1  upstream-queue 0  bandwidth-profile name:UP\_HSI\_100M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/10/1  max-unicast-mac 20  vlan-id 35  tag single-tagged  configure interface port uni:1/1/1/1/1/10/1  admin-up  exit all |
| **H3M1V0** | **Profile H3M1V0**  **1. Khai báo extended-vlan-tagging-operation (mode gpon configure)**  gpon  extended-vlan-tagging-operation HSI-35-VHT create  downstream-mode enable  single-tagged-frame 1  filter inner vid 35 cos any tpid any  treat remove single  treat inner vid 35 cos 5 tpid 0x8100  apply  !  gpon  extended-vlan-tagging-operation 2502\_MTS create  downstream-mode enable  untagged-frame 1  treat inner vid 2502 cos 3 tpid 0x8100  apply  !  gpon  extended-vlan-tagging-operation 2501\_FTP create  downstream-mode enable  untagged-frame 1  treat inner vid 2501 cos 3 tpid 0x8100  apply  **2. Khai báo Multicast-profile (mode gpon configure)**  gpon  multicast-profile MULTICAST\_VHT create  igmp robustness-variable 3  igmp access-list vid 2502 dst-ip start 224.0.0.0 end 239.255.255.255 gem 4094  apply  !  **3. Khai báo traffic-profile ( mode gpon configure)**  Gpon  traffic-profile H3M1V0\_VHT create  mgmt-mode uni eth 1 non-omci link virtual-eth 1  mgmt-mode uni eth 2 non-omci link virtual-eth 1  mgmt-mode uni eth 3 non-omci link virtual-eth 1  mgmt-mode uni eth 4 omci  tcont 1  gemport 1/1  dba-profile HSI  tcont 4  gemport 4/1  dba-profile FTP  tcont 5  gemport 5/1  dba-profile MTS  mapper 1  gemport count 1  mapper 4  gemport count 1  mapper 5  gemport count 1  bridge 1  ani mapper 1  vlan-filter vid 35 untagged discard  uni virtual-eth 1  extended-vlan-tagging-operation HSI-35-VHT  bridge 4  ani mapper 4  link ip-host-config 1  bridge 5  ani mapper 5  vlan-filter vid 2502 untagged discard  uni eth 4  multicast-profile MULTICAST\_VHT  extended-vlan-tagging-operation 2502\_MTS  max-frame 2036  ip-host-config 1  ip address dhcp  extended-vlan-tagging-operation 2501\_FTP  apply  !  **4. Cấu hình onu-profile (mode gpon configure)**  onu-profile H3M1V0\_VHT create  traffic-profile H3M1V0\_VHT  apply  **5. Khai báo ONU SN**  gpon-olt 1/1  onu add 13 VTNW77f1bb78 auto-learning  onu-profile 13 H3M1V0\_VHT  **6. Cấu hình pppoe account cho ONU**  gpon-olt 1/1  onu pppoe 1 host 2 user-account kv1\_test\_fiber\_11 kcsvtt | **Profile H3M1V0**  **1. Khai báo onu profile ( mode pon config)** pon  onu-profile gpon H3M1V0\_VHT  tcont 1 name HSI profile HSI  tcont 5 name Multiscreen profile Multiscreen  tcont 7 name TR069 profile TR069  gemport 1 name HSI tcont 1  gemport 5 name Multiscreen tcont 5  gemport 7 name TR069 tcont 7  remote  service HSI gemport 1 vlan 35  service Multiscreen gemport 5 vlan 2502  service TR069 gemport 7 vlan 2501  wan-ip 3 mode dhcp vlan-profile TR069 host 3  vlan port eth\_0/4 mode tag vlan 2502 pri 3  dhcp-ip ethuni eth\_0/1 from-onu  dhcp-ip ethuni eth\_0/2 from-onu  dhcp-ip ethuni eth\_0/3 from-onu  dhcp-ip ethuni eth\_0/4 from-internet  mvlan 2502  mvlan tag eth\_0/4 strip  wan 1 service internet host 1  **2. Khai báo ONU SN ( mode config:interface gpon)** interface gpon-olt\_1/1/1  onu 66 type VIETTEL-vG-421WD sn VTNW77F1BB78  onu 66 profile H3M1V0\_VHT  **3. Khai báo Service Port cho ONU (mode interface gpon-onu)**  interface gpon-onu\_1/1/1:66  service-port 1 vport 1 user-vlan 35 vlan 35  service-port 5 vport 5 user-vlan 2502 vlan 2502  service-port 7 vport 7 user-vlan 2501 vlan 2501  **4. Cấu hình pppoe accounts cho ONU ( mode interface gpon-onu)**  pon-onu-mng gpon-onu\_1/1/1:66  wan-ip 1 mode pppoe username kv1\_test\_fiber\_13 password kcsvtt vlan-profile wan35 host 1  **5. Khai báo IGMP service (mode confiuge)** igmp mvlan 2502 receive-port gpon-onu\_1/1/1:66 vport 5 | **Profile H3M1V0**  **1. Khai báo line profile (mode config)**  ont-lineprofile gpon profile-name H3M1V0 tcont 1 dba-profile-name TR069 tcont 2 dba-profile-name HSI tcont 3 dba-profile-name Multiscreen gem add 1 eth tcont 1 gem add 2 eth tcont 2 gem add 3 eth tcont 3 gem mapping 1 0 vlan 2501 gem mapping 2 0 vlan 35 gem mapping 3 0 vlan 2502 commit quit **2. Khai báo service profile (mode config)** ont-srvprofile gpon profile-name H3M1V0 ont-port pots adaptive 2 eth adaptive 4 native-vlan unconcern multicast-forward tag translation 2502 port vlan eth 4 q-in-q 2502 0 user-vlan untagged  **3. Khai báo ONU SN (mode config:interface gpon)**  ont add “PonPortID” “ONU\_ID” sn-auth “SN” omci ont-lineprofile-name H3M1V0 ont-srvprofile-name H3M1V0  **4. Khai báo service port (mode config)** service-port vlan 2501 gpon 0/0/0 ont 1 gemport 1 multi-service user-vlan 2501 tag-transform translate  service-port vlan 35 gpon 0/0/1 ont 1 gemport 2 multi-service user-vlan 35 tag-transform translate service-port vlan 2502 gpon 0/0/1 ont 1 gemport 3 multi-service user-vlan 2502 tag-transform translate  **5. Khai báo IGMP (mode config:btv)** igmp user add service-port “service\_port”  multicast-vlan 2502 igmp multicast-vlan member service-port "service\_port" | **Profile H3M1V0**  **1. Khai báo add ont:**  configure equipment ont interface 1/1/1/1/1 sw-ver-pland disabled sw-dnload-version disabled sernum VTNW:77F1BB70 fec-up enable enable-aes enable  configure equipment ont interface 1/1/1/1/1 admin-state up  exit all  **2. Khai báo ethernet**  configure equipment ont slot 1/1/1/1/1/1 planned-card-type 10\_100base plndnumdataports 4 plndnumvoiceports 0 admin-state up  configure ethernet ont 1/1/1/1/1/1/[1...4] admin-state up  configure ethernet ont 1/1/1/1/1/1/[1...4] auto-detect auto  exit all  **3. Khai báo dịch vụ Internet**  configure qos  interface 1/1/1/1/1/10/1  upstream-queue 0  bandwidth-profile name:UP\_HSI\_100M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/10/1  max-unicast-mac 20  vlan-id 35  tag single-tagged  configure interface port uni:1/1/1/1/1/10/1  admin-up  exit all  **4. Khai báo dịch vụ IPTV**  configure qos  interface 1/1/1/1/1/1/4  upstream-queue 5  bandwidth-profile name:UP\_MULTISCREEN\_6M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/1/4  max-unicast-mac 20  vlan-id 2502  tag untagged  vlan-scope local  network-vlan 2502  max-unicast-mac 10  exit  pvid 2502  exit all  configure igmp channel vlan:1/1/1/1/1/1/4:2502  max-num-group 40  configure igmp channel vlan:1/1/1/1/1/1/4:2502 fullview-packages [1...1024]  exit all  configure interface port uni:1/1/1/1/1/1/4  admin-up  exit all  **5. Khai báo TR069**  configure qos  interface 1/1/1/1/1/10/1  upstream-queue 5  bandwidth-profile name:UP\_TR69\_2M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/10/1  max-unicast-mac 20  vlan-id 2501  tag single-tagged  configure interface port uni:1/1/1/1/1/10/1  admin-up  exit all |
| **H2M2V0** | **Profile H2M2V0**  **1. Khai báo extended-vlan-tagging-operation (mode gpon configure)**  gpon  extended-vlan-tagging-operation HSI-35-VHT create  downstream-mode enable  single-tagged-frame 1  filter inner vid 35 cos any tpid any  treat remove single  treat inner vid 35 cos 5 tpid 0x8100  apply  !  gpon  extended-vlan-tagging-operation 2502\_MTS create  downstream-mode enable  untagged-frame 1  treat inner vid 2502 cos 3 tpid 0x8100  apply  !  gpon  extended-vlan-tagging-operation 2501\_FTP create  downstream-mode enable  untagged-frame 1  treat inner vid 2501 cos 3 tpid 0x8100  apply  **2. Khai báo Multicast-profile (mode gpon configure)**  gpon  multicast-profile MULTICAST\_VHT create  igmp robustness-variable 3  igmp access-list vid 2502 dst-ip start 224.0.0.0 end 239.255.255.255 gem 4094  apply  !  **3. Khai báo traffic-profile ( mode gpon configure)**  Gpon  traffic-profile H2M2V0\_VHT create  mgmt-mode uni eth 1 non-omci link virtual-eth 1  mgmt-mode uni eth 2 non-omci link virtual-eth 1  mgmt-mode uni eth 3 omci  mgmt-mode uni eth 4 omci  tcont 1  gemport 1/1  dba-profile HSI  tcont 4  gemport 4/1  dba-profile FTP  tcont 5  gemport 5/1  dba-profile MTS  mapper 1  gemport count 1  mapper 4  gemport count 1  mapper 5  gemport count 1  bridge 1  ani mapper 1  vlan-filter vid 35 untagged discard  uni virtual-eth 1  extended-vlan-tagging-operation HSI-35-VHT  bridge 4  ani mapper 4  link ip-host-config 1  bridge 5  ani mapper 5  vlan-filter vid 2502 untagged discard  uni eth 3  multicast-profile MULTICAST\_VHT  extended-vlan-tagging-operation 2502\_MTS  max-frame 2036  uni eth 4  multicast-profile MULTICAST\_VHT  extended-vlan-tagging-operation 2502\_MTS  max-frame 2036  ip-host-config 1  ip address dhcp  extended-vlan-tagging-operation 2501\_FTP  apply  !  **4. Cấu hình onu-profile (mode gpon configure)**  onu-profile H2M2V0\_VHT create  traffic-profile H2M2V0\_VHT  apply  **5. Khai báo ONU SN**  gpon-olt 1/1  onu add 1 VTNW77f1bb78 auto-learning  onu-profile 1 H2M2V0\_VHT  **6. Cấu hình pppoe account cho ONU**  gpon-olt 1/1  onu pppoe 1 host 2 user-account kv1\_test\_fiber\_11 kcsvtt | **Profile H2M2V0**  **1. Khai báo onu profile ( mode pon config)** pon  onu-profile gpon H2M2V0\_VHT  tcont 1 name HSI profile HSI  tcont 5 name Multiscreen profile Multiscreen  tcont 7 name TR069 profile TR069  gemport 1 name HSI tcont 1  gemport 5 name Multiscreen tcont 5  gemport 7 name TR069 tcont 7  remote  service HSI gemport 1 vlan 35  service Multiscreen gemport 5 vlan 2502  service TR069 gemport 7 vlan 2501  wan-ip 3 mode dhcp vlan-profile TR069 host 3  vlan port eth\_0/3 mode tag vlan 2502 pri 3  vlan port eth\_0/4 mode tag vlan 2502 pri 3  dhcp-ip ethuni eth\_0/1 from-onu  dhcp-ip ethuni eth\_0/2 from-onu  dhcp-ip ethuni eth\_0/3 from-internet  dhcp-ip ethuni eth\_0/4 from-internet  mvlan 2502  mvlan tag eth\_0/3 strip  mvlan tag eth\_0/4 strip  wan 1 service internet host 1  **2. Khai báo ONU SN ( mode config:interface gpon)** interface gpon-olt\_1/1/1  onu 66 type VIETTEL-vG-421WD sn VTNW77F1BB78  onu 66 profile H2M2V0\_VHT  **3. Khai báo Service Port cho ONU (mode interface gpon-onu)**  interface gpon-onu\_1/1/1:1  service-port 1 vport 1 user-vlan 35 vlan 35  service-port 5 vport 5 user-vlan 2502 vlan 2502  service-port 7 vport 7 user-vlan 2501 vlan 2501  **4. Cấu hình pppoe accounts cho ONU ( mode interface gpon-onu)** pon-onu-mng gpon-onu\_1/1/1:1  wan-ip 1 mode pppoe username kv1\_test\_fiber\_12 password kcsvtt vlan-profile wan35 host 1  **5. Khai báo IGMP service (mode confiuge)**  igmp mvlan 2502 receive-port gpon-onu\_1/1/1:66 vport 5 | **Profile H2M2V0**  **1. Khai báo line profile (mode config)**  ont-lineprofile gpon profile-name H2M2V0 tcont 1 dba-profile-name TR069 tcont 2 dba-profile-name HSI tcont 3 dba-profile-name Multiscreen gem add 1 eth tcont 1 gem add 2 eth tcont 2 gem add 3 eth tcont 3 gem mapping 1 0 vlan 2501 gem mapping 2 0 vlan 35 gem mapping 3 0 vlan 2502 commit quit **2. Khai báo Service Profile (mode config)** ont-srvprofile gpon profile-name H2M2V0 ont-port pots adaptive 2 eth adaptive 4 native-vlan unconcern multicast-forward tag translation 2502 port vlan eth 3 q-in-q 2502 0 user-vlan untagged port vlan eth 4 q-in-q 2502 0 user-vlan untagged  **3. Khai báo ONU SN (mode config:interface gpon)**  ont add “PonPortID” “ONU\_ID” sn-auth “SN” omci ont-lineprofile-name H2M2V0 ont-srvprofile-name H2M2V0  **4. Khai báo service port (mode config)** service-port vlan 2501 gpon 0/0/0 ont 1 gemport 1 multi-service user-vlan 2501 tag-transform translate  service-port vlan 35 gpon 0/0/1 ont 1 gemport 2 multi-service user-vlan 35 tag-transform translate service-port vlan 2502 gpon 0/0/1 ont 1 gemport 3 multi-service user-vlan 2502 tag-transform translate  **5. Khai báo IGMP (mode config:btv)** igmp user add service-port “service\_port” no-auth multicast-vlan 2502 igmp multicast-vlan member service-port "service\_port" | **Profile H2M2V0**  **1. Khai báo add ont:**  configure equipment ont interface 1/1/1/1/1 sw-ver-pland disabled sw-dnload-version disabled sernum VTNW:77F1BB70 fec-up enable enable-aes enable  configure equipment ont interface 1/1/1/1/1 admin-state up  exit all  **2. Khai báo ethernet**  configure equipment ont slot 1/1/1/1/1/1 planned-card-type 10\_100base plndnumdataports 4 plndnumvoiceports 0 admin-state up  configure ethernet ont 1/1/1/1/1/1/[1...4] admin-state up  configure ethernet ont 1/1/1/1/1/1/[1...4] auto-detect auto  exit all  **3. Khai báo dịch vụ Internet**  configure qos  interface 1/1/1/1/1/10/1  upstream-queue 0  bandwidth-profile name:UP\_HSI\_100M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/10/1  max-unicast-mac 20  vlan-id 35  tag single-tagged  configure interface port uni:1/1/1/1/1/10/1  admin-up  exit all  **4. Khai báo dịch vụ IPTV**  configure qos  interface 1/1/1/1/1/1/3  upstream-queue 5  bandwidth-profile name:UP\_MULTISCREEN\_6M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/1/3  max-unicast-mac 20  vlan-id 2502  tag untagged  vlan-scope local  network-vlan 2502  max-unicast-mac 10  exit  pvid 2502  exit all  configure igmp channel vlan:1/1/1/1/1/1/3:2502  max-num-group 40  configure igmp channel vlan:1/1/1/1/1/1/3:2502 fullview-packages [1...1024]  exit all  configure interface port uni:1/1/1/1/1/1/3  admin-up  exit all  configure qos  interface 1/1/1/1/1/1/4  upstream-queue 5  bandwidth-profile name:UP\_MULTISCREEN\_6M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/1/4  max-unicast-mac 20  vlan-id 2502  tag untagged  vlan-scope local  network-vlan 2502  max-unicast-mac 10  exit  pvid 2502  exit all  configure igmp channel vlan:1/1/1/1/1/1/4:2502  max-num-group 40  configure igmp channel vlan:1/1/1/1/1/1/4:2502 fullview-packages [1...1024]  exit all  configure interface port uni:1/1/1/1/1/1/4  admin-up  exit all  **5. Khai báo TR069**  configure qos  interface 1/1/1/1/1/10/1  upstream-queue 5  bandwidth-profile name:UP\_TR69\_2M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/10/1  max-unicast-mac 20  vlan-id 2501  tag single-tagged  configure interface port uni:1/1/1/1/1/10/1  admin-up  exit all |
| **H1M3V0** | **Profile H1M3V0**  **1. Khai báo extended-vlan-tagging-operation (mode gpon configure)**  gpon  extended-vlan-tagging-operation HSI-35-VHT create  downstream-mode enable  single-tagged-frame 1  filter inner vid 35 cos any tpid any  treat remove single  treat inner vid 35 cos 5 tpid 0x8100  apply  !  gpon  extended-vlan-tagging-operation 2502\_MTS create  downstream-mode enable  untagged-frame 1  treat inner vid 2502 cos 3 tpid 0x8100  apply  !  gpon  extended-vlan-tagging-operation 2501\_FTP create  downstream-mode enable  untagged-frame 1  treat inner vid 2501 cos 3 tpid 0x8100  apply  **2. Khai báo Multicast-profile (mode gpon configure)**  gpon  multicast-profile MULTICAST\_VHT create  igmp robustness-variable 3  igmp access-list vid 2502 dst-ip start 224.0.0.0 end 239.255.255.255 gem 4094  apply  !  **3. Khai báo traffic-profile ( mode gpon configure)**  gpon  traffic-profile H1M3V0\_VHT create  mgmt-mode uni eth 1 non-omci link virtual-eth 1  mgmt-mode uni eth 2 omci  mgmt-mode uni eth 3 omci  mgmt-mode uni eth 4 omci  tcont 1  gemport 1/1  dba-profile HSI  tcont 4  gemport 4/1  dba-profile FTP  tcont 5  gemport 5/1  dba-profile MTS  mapper 1  gemport count 1  mapper 4  gemport count 1  mapper 5  gemport count 1  bridge 1  ani mapper 1  vlan-filter vid 35 untagged discard  uni virtual-eth 1  extended-vlan-tagging-operation HSI-35-VHT  bridge 4  ani mapper 4  link ip-host-config 1  bridge 5  ani mapper 5  vlan-filter vid 2502 untagged discard  uni eth 2  multicast-profile MULTICAST\_VHT  extended-vlan-tagging-operation 2502\_MTS  max-frame 2036  uni eth 3  multicast-profile MULTICAST\_VHT  extended-vlan-tagging-operation 2502\_MTS  max-frame 2036  uni eth 4  multicast-profile MULTICAST\_VHT  extended-vlan-tagging-operation 2502\_MTS  max-frame 2036  ip-host-config 1  ip address dhcp  extended-vlan-tagging-operation 2501\_FTP  apply  !  **4. Cấu hình onu-profile (mode gpon configure)**  onu-profile H1M3V0\_VHT create  traffic-profile H1M3V0\_VHT  apply  **5. Khai báo ONU SN**  gpon-olt 1/1  onu add 1 VTNW77f1bb78 auto-learning  onu-profile 1 H1M3V0\_VHT  **6. Cấu hình pppoe account cho ONU**  gpon-olt 1/1  onu pppoe 1 host 2 user-account kv1\_test\_fiber\_11 kcsvtt | **Profile H1M3V0**  **1. Khai báo onu profile ( mode pon config)** pon  onu-profile gpon H1M3V0\_VHT  tcont 1 name HSI profile HSI  tcont 5 name Multiscreen profile Multiscreen  tcont 7 name TR069 profile TR069  gemport 1 name HSI tcont 1  gemport 5 name Multiscreen tcont 5  gemport 7 name TR069 tcont 7  remote  service HSI gemport 1 vlan 35  service Multiscreen gemport 5 vlan 2502  service TR069 gemport 7 vlan 2501  wan-ip 3 mode dhcp vlan-profile TR069 host 3  vlan port eth\_0/2 mode tag vlan 2502 pri 3  vlan port eth\_0/3 mode tag vlan 2502 pri 3  vlan port eth\_0/4 mode tag vlan 2502 pri 3  dhcp-ip ethuni eth\_0/1 from-onu  dhcp-ip ethuni eth\_0/2 from-internet  dhcp-ip ethuni eth\_0/3 from-internet  dhcp-ip ethuni eth\_0/4 from-internet  mvlan 2502  mvlan tag eth\_0/2 strip  mvlan tag eth\_0/3 strip  mvlan tag eth\_0/4 strip  wan 1 service internet host 1  **2. Khai báo ONU SN ( mode config:interface gpon)**  interface gpon-olt\_1/1/1  onu 66 type VIETTEL-vG-421WD sn VTNW77F1BB78  onu 66 profile H1M3V0\_VHT  **3. Khai báo Service Port cho ONU (mode interface gpon-onu)** interface gpon-onu\_1/1/1:66  service-port 1 vport 1 user-vlan 35 vlan 35  service-port 5 vport 5 user-vlan 2502 vlan 2502  service-port 7 vport 7 user-vlan 2501 vlan 2501  **4. Cấu hình pppoe accounts cho ONU ( mode interface gpon-onu)** pon-onu-mng gpon-onu\_1/1/1:1  wan-ip 1 mode pppoe username kv1\_test\_fiber\_12 password kcsvtt vlan-profile wan35 host 1  **5. Khai báo IGMP service (mode confiuge)** igmp mvlan 2502 receive-port gpon-onu\_1/1/1:1 vport 5 | **Profile H1M3V0**  **1. Khai báo line profile (mode config)**  ont-lineprofile gpon profile-name H1M3V0 tcont 1 dba-profile-name TR069 tcont 2 dba-profile-name HSI tcont 3 dba-profile-name Multiscreen gem add 1 eth tcont 1 gem add 2 eth tcont 2 gem add 3 eth tcont 3 gem mapping 1 0 vlan 2501 gem mapping 2 0 vlan 35 gem mapping 3 0 vlan 2502 commit quit **2. Khai báo Service Profile (mode config)** ont-srvprofile gpon profile-name H1M3V0 ont-port pots adaptive 2 eth adaptive 4 native-vlan unconcern multicast-forward tag translation 2502 port vlan eth 2 q-in-q 2502 0 user-vlan untagged port vlan eth 3 q-in-q 2502 0 user-vlan untagged port vlan eth 4 q-in-q 2502 0 user-vlan untagged  **3. Khai báo ONU SN (mode config:interface gpon)**  ont add “PonPortID” “ONU\_ID” sn-auth “SN” omci ont-lineprofile-name H1M3V0 ont-srvprofile-name H1M3V0  **4. Khai báo service port (mode config)** service-port vlan 2501 gpon 0/0/0 ont 1 gemport 1 multi-service user-vlan 2501 tag-transform translate  service-port vlan 35 gpon 0/0/1 ont 1 gemport 2 multi-service user-vlan 35 tag-transform translate service-port vlan 2502 gpon 0/0/1 ont 1 gemport 3 multi-service user-vlan 2502 tag-transform translate **5. Khai báo IGMP (mode config:btv)**  igmp user add service-port “service\_port” multicast-vlan 2502 igmp multicast-vlan member service-port "service\_port" | **Profile H1M3V0**  **1. Khai báo add ont:**  configure equipment ont interface 1/1/1/1/1 sw-ver-pland disabled sw-dnload-version disabled sernum VTNW:77F1BB70 fec-up enable enable-aes enable  configure equipment ont interface 1/1/1/1/1 admin-state up  exit all  **2. Khai báo ethernet**  configure equipment ont slot 1/1/1/1/1/1 planned-card-type 10\_100base plndnumdataports 4 plndnumvoiceports 0 admin-state up  configure ethernet ont 1/1/1/1/1/1/[1...4] admin-state up  configure ethernet ont 1/1/1/1/1/1/[1...4] auto-detect auto  exit all  **3. Khai báo dịch vụ Internet**  configure qos  interface 1/1/1/1/1/10/1  upstream-queue 0  bandwidth-profile name:UP\_HSI\_100M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/10/1  max-unicast-mac 20  vlan-id 35  tag single-tagged  configure interface port uni:1/1/1/1/1/10/1  admin-up  exit all  **4. Khai báo dịch vụ IPTV**  configure qos  interface 1/1/1/1/1/1/2  upstream-queue 5  bandwidth-profile name:UP\_MULTISCREEN\_6M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/1/2  max-unicast-mac 20  vlan-id 2502  tag untagged  vlan-scope local  network-vlan 2502  max-unicast-mac 10  exit  pvid 2502  exit all  configure igmp channel vlan:1/1/1/1/1/1/2:2502  max-num-group 40  configure igmp channel vlan:1/1/1/1/1/1/2:2502 fullview-packages [1...1024]  exit all  configure interface port uni:1/1/1/1/1/1/2  admin-up  exit all  configure qos  interface 1/1/1/1/1/1/3  upstream-queue 5  bandwidth-profile name:UP\_MULTISCREEN\_6M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/1/3  max-unicast-mac 20  vlan-id 2502  tag untagged  vlan-scope local  network-vlan 2502  max-unicast-mac 10  exit  pvid 2502  exit all  configure igmp channel vlan:1/1/1/1/1/1/3:2502  max-num-group 40  configure igmp channel vlan:1/1/1/1/1/1/3:2502 fullview-packages [1...1024]  exit all  configure interface port uni:1/1/1/1/1/1/3  admin-up  exit all  configure qos  interface 1/1/1/1/1/1/4  upstream-queue 5  bandwidth-profile name:UP\_MULTISCREEN\_6M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/1/4  max-unicast-mac 20  vlan-id 2502  tag untagged  vlan-scope local  network-vlan 2502  max-unicast-mac 10  exit  pvid 2502  exit all  configure igmp channel vlan:1/1/1/1/1/1/4:2502  max-num-group 40  configure igmp channel vlan:1/1/1/1/1/1/4:2502 fullview-packages [1...1024]  exit all  configure interface port uni:1/1/1/1/1/1/4  admin-up  exit all  **5. Khai báo TR069**  configure qos  interface 1/1/1/1/1/10/1  upstream-queue 5  bandwidth-profile name:UP\_TR69\_2M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/10/1  max-unicast-mac 20  vlan-id 2501  tag single-tagged  configure interface port uni:1/1/1/1/1/10/1  admin-up  exit all |
| **H2M1V1** | **Profile H2M1V1**  **1. Khai báo extended-vlan-tagging-operation (mode gpon configure)**  gpon  extended-vlan-tagging-operation HSI-35-VHT create  downstream-mode enable  single-tagged-frame 1  filter inner vid 35 cos any tpid any  treat remove single  treat inner vid 35 cos 0 tpid 0x8100  apply  !  gpon  extended-vlan-tagging-operation 335\_VOIP create  downstream-mode enable  untagged-frame 1  treat inner vid 335 cos 5 tpid 0x8100  apply  !  gpon  extended-vlan-tagging-operation 2502\_MTS create  downstream-mode enable  untagged-frame 1  treat inner vid 2502 cos 3 tpid 0x8100  apply  !  gpon  extended-vlan-tagging-operation 2501\_FTP create  downstream-mode enable  untagged-frame 1  treat inner vid 2501 cos 3 tpid 0x8100  apply  **2. Khai báo Multicast-profile (mode gpon configure)**  gpon  multicast-profile MULTICAST\_VHT create  igmp robustness-variable 3  igmp access-list vid 2502 dst-ip start 224.0.0.0 end 239.255.255.255 gem 4094  apply  !  **3. Khai báo traffic-profile ( mode gpon configure)**  gpon  traffic-profile H2M1V1\_VHT create  mgmt-mode uni eth 1 non-omci link virtual-eth 1  mgmt-mode uni eth 2 non-omci link virtual-eth 1  mgmt-mode uni eth 3 omci  mgmt-mode uni eth 4 omci  tcont 1  gemport 1/1  dba-profile HSI  tcont 2  gemport 2/1  dba-profile MTS  tcont 3  gemport 3/1  dba-profile VOIP  tcont 4  gemport 4/1  dba-profile FTP  mapper 1  gemport count 1  mapper 2  gemport count 1  mapper 3  gemport count 1  mapper 4  gemport count 1  bridge 1  ani mapper 1  uni virtual-eth 1  extended-vlan-tagging-operation HSI-35-VHT  bridge 2  ani mapper 2  uni eth 3  extended-vlan-tagging-operation 2502\_MTS  bridge 3  ani mapper 3  uni eth 4  extended-vlan-tagging-operation 335\_VOIP  bridge 4  ani mapper 4  link ip-host-config 1  ip-host-config 1  ip address dhcp  extended-vlan-tagging-operation 2501\_FTP  apply  !  **4. Cấu hình onu-profile (mode gpon configure)**  onu-profile H2M1V1\_VHT create  traffic-profile H2M1V1\_VHT  apply  **5. Khai báo ONU SN**  gpon-olt 1/1  onu add 12 VTNW77f1bb78 auto-learning  onu-profile 12 H2M1V1\_VHT  **6. Cấu hình pppoe account cho ONU**  gpon-olt 1/1  onu pppoe 12 host 2 user-account kv1\_test\_fiber\_11 kcsvtt | **Profile H2M1V1**  **1. Khai báo onu profile ( mode pon config)** onu-profile gpon H2M1V1\_VHT  omcc-encrypt enable  tcont 1 name HSI profile HSI  tcont 3 name VOIP profile VOIP  tcont 5 name Multiscreen profile Multiscreen  tcont 7 name TR069 profile TR069  gemport 1 name HSI tcont 1  gemport 3 name VOIP tcont 3  gemport 5 name Multiscreen tcont 5  gemport 7 name TR069 tcont 7  remote  service HSI gemport 1 vlan 35  service VOIP gemport 3 vlan 335  service Multiscreen gemport 5 vlan 2502  service TR069 gemport 7 vlan 2501  wan-ip 3 mode dhcp vlan-profile TR069 host 3  vlan port eth\_0/3 mode tag vlan 2502 pri 3  vlan port eth\_0/4 mode tag vlan 335 pri 5  dhcp-ip ethuni eth\_0/1 from-onu  dhcp-ip ethuni eth\_0/2 from-onu  dhcp-ip ethuni eth\_0/3 from-internet  dhcp-ip ethuni eth\_0/4 from-internet  mvlan 2502  mvlan tag eth\_0/3 strip  wan 1 service internet host 1  **2. Khai báo ONU SN ( mode config:interface gpon)** interface gpon-olt\_1/1/1  onu 66 type VIETTEL-vG-421WD sn VTNW77F1BB78  onu 66 profile H2M1V1\_VHT  **3. Khai báo Service Port cho ONU (mode interface gpon-onu)** interface gpon-onu\_1/1/1:66  service-port 1 vport 1 user-vlan 35 vlan 35  service-port 3 vport 3 user-vlan 335 vlan 335  service-port 5 vport 5 user-vlan 2502 vlan 2502  service-port 7 vport 7 user-vlan 2501 vlan 2501  **4. Cấu hình pppoe accounts cho ONU (mode interface gpon-onu)** pon-onu-mng gpon-onu\_1/1/1:66  wan-ip 1 mode pppoe username kv1\_test\_fiber\_13 password kcsvtt vlan-profile wan35 host 1  **5. Khai báo IGMP service (mode confiuge)** igmp mvlan 2502 receive-port gpon-onu\_1/1/1:66 vport 5 | **Profile H2M1V1**  **1. Khai báo traffic profile (mode config)**  ont-lineprofile gpon profile-name H2M1V1 tcont 1 dba-profile-name TR069 tcont 2 dba-profile-name HSI tcont 3 dba-profile-name Multiscreen  tcont 4 dba-profile-name VOIP gem add 1 eth tcont 1 gem add 2 eth tcont 2 gem add 3 eth tcont 3 gem add 4 eth tcont 4 gem mapping 1 0 vlan 2501 gem mapping 2 0 vlan 35 gem mapping 3 0 vlan 2502 gem mapping 4 0 vlan 335 commit quit **2. Khai báo Service Profile (mode config)** ont-srvprofile gpon profile-name H2M1V1 ont-port pots adaptive 2 eth adaptive 4 native-vlan unconcern multicast-forward tag translation 2502 port vlan eth 3 q-in-q 2502 0 user-vlan untagged port vlan eth 4 q-in-q 335 0 user-vlan untagged  **3. Khai báo ONU SN (mode config:interface gpon)** ont add “PonPortID” “ONU\_ID” sn-auth “SN” omci ont-lineprofile-name H2M1V1 ont-srvprofile-name H2M1V1  **4. Khai báo service port (mode config)** service-port vlan 2501 gpon 0/0/0 ont 1 gemport 1 multi-service user-vlan 2501 tag-transform translate  service-port vlan 35 gpon 0/0/1 ont 1 gemport 2 multi-service user-vlan 35 tag-transform translate service-port vlan 2502 gpon 0/0/1 ont 1 gemport 3 multi-service user-vlan 2502 tag-transform translate service-port vlan 335 gpon 0/0/1 ont 1 gemport 4 multi-service user-vlan 335 tag-transform translate  **5. Khai báo IGMP (mode config:btv)**  igmp user add service-prot “service\_port” no-auth  multicast-vlan 2502  igmp multicast-vlan member service-port "service\_port" | **Profile H2M1V1**  **1. Khai báo add ont:**  configure equipment ont interface 1/1/1/1/1 sw-ver-pland disabled sw-dnload-version disabled sernum VTNW:77F1BB70 fec-up enable enable-aes enable  configure equipment ont interface 1/1/1/1/1 admin-state up  exit all  **2. Khai báo ethernet**  configure equipment ont slot 1/1/1/1/1/1 planned-card-type 10\_100base plndnumdataports 4 plndnumvoiceports 0 admin-state up  configure ethernet ont 1/1/1/1/1/1/[1...4] admin-state up  configure ethernet ont 1/1/1/1/1/1/[1...4] auto-detect auto  exit all  **3. Khai báo dịch vụ Internet**  configure qos  interface 1/1/1/1/1/10/1  upstream-queue 0  bandwidth-profile name:UP\_HSI\_100M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/10/1  max-unicast-mac 20  vlan-id 35  tag single-tagged  configure interface port uni:1/1/1/1/1/10/1  admin-up  exit all  **4. Khai báo dịch vụ IPTV**  configure qos  interface 1/1/1/1/1/1/3  upstream-queue 5  bandwidth-profile name:UP\_MULTISCREEN\_6M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/1/3  max-unicast-mac 20  vlan-id 2502  tag untagged  vlan-scope local  network-vlan 2502  max-unicast-mac 10  exit  pvid 2502  exit all  configure igmp channel vlan:1/1/1/1/1/1/3:2502  max-num-group 40  configure igmp channel vlan:1/1/1/1/1/1/3:2502 fullview-packages [1...1024]  exit all  configure interface port uni:1/1/1/1/1/1/3  admin-up  exit all  **5. Khai báo dịch vụ VoIP**  configure qos  interface 1/1/1/1/1/1/4  upstream-queue 6  bandwidth-profile name:UP\_VOICE\_1M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/1/4  max-unicast-mac 20  vlan-id 335  tag untagged  vlan-scope local  network-vlan 335  ds-dedicated-q enable  max-unicast-mac 10  exit  pvid 335  exit all  configure interface port uni:1/1/1/1/1/1/4  admin-up  exit all  **6. Khai báo TR069**  configure qos  interface 1/1/1/1/1/10/1  upstream-queue 5  bandwidth-profile name:UP\_TR69\_2M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/10/1  max-unicast-mac 20  vlan-id 2501  tag single-tagged  configure interface port uni:1/1/1/1/1/10/1  admin-up  exit all |
| **H1M2V1** | **Profile H1M2V1**  **1. Khai báo extended-vlan-tagging-operation (mode gpon configure)**  gpon  extended-vlan-tagging-operation HSI-35-VHT create  downstream-mode enable  single-tagged-frame 1  filter inner vid 35 cos any tpid any  treat remove single  treat inner vid 35 cos 5 tpid 0x8100  apply  !  gpon  extended-vlan-tagging-operation 335\_VOIP create  downstream-mode enable  untagged-frame 1  treat inner vid 335 cos 5 tpid 0x8100  apply  !  gpon  extended-vlan-tagging-operation 2502\_MTS create  downstream-mode enable  untagged-frame 1  treat inner vid 2502 cos 3 tpid 0x8100  apply  !  gpon  extended-vlan-tagging-operation 2501\_FTP create  downstream-mode enable  untagged-frame 1  treat inner vid 2501 cos 3 tpid 0x8100  apply  **2. Khai báo Multicast-profile (mode gpon configure)**  gpon  multicast-profile MULTICAST\_VHT create  igmp robustness-variable 3  igmp access-list vid 2502 dst-ip start 224.0.0.0 end 239.255.255.255 gem 4094  apply  !  **3. Khai báo traffic-profile ( mode gpon configure)**  gpon  traffic-profile H1M2V1\_VHT create  mgmt-mode uni eth 1 non-omci link virtual-eth 1  mgmt-mode uni eth 2 omci  mgmt-mode uni eth 3 omci  mgmt-mode uni eth 4 omci  tcont 1  gemport 1/1  dba-profile HSI  tcont 3  gemport 3/1  dba-profile VOIP  tcont 4  gemport 4/1  dba-profile FTP  tcont 5  gemport 5/1  dba-profile MTS  mapper 1  gemport count 1  mapper 3  gemport count 1  mapper 4  gemport count 1  mapper 5  gemport count 1  bridge 1  ani mapper 1  vlan-filter vid 35 untagged discard  uni virtual-eth 1  extended-vlan-tagging-operation HSI-35-VHT  bridge 3  max-hosts 10  ani mapper 3  uni eth 4  extended-vlan-tagging-operation 335\_VOIP  max-frame 2036  bridge 4  ani mapper 4  link ip-host-config 1  bridge 5  ani mapper 5  vlan-filter vid 2502 untagged discard  uni eth 2  multicast-profile MULTICAST\_VHT  extended-vlan-tagging-operation 2502\_MTS  max-frame 2036  uni eth 3  multicast-profile MULTICAST\_VHT  extended-vlan-tagging-operation 2502\_MTS  max-frame 2036  ip-host-config 1  ip address dhcp  extended-vlan-tagging-operation 2501\_FTP  apply  !  **4. Cấu hình onu-profile (mode gpon configure)**  onu-profile H1M2V1\_VHT create  traffic-profile H1M2V1\_VHT  apply  **5. Khai báo ONU SN**  gpon-olt 1/1  onu add 1 VTNW77f1bb78 auto-learning  onu-profile 1 H1M2V1\_VHT  **6. Cấu hình pppoe account cho ONU**  gpon-olt 1/1  onu pppoe 1 host 2 user-account kv1\_test\_fiber\_11 kcsvtt | **Profile H1M2V1**  **1. Khai báo onu profile ( mode pon config)** pon  onu-profile gpon H1M2V1\_VHT  tcont 1 name HSI profile HSI  tcont 3 name VOIP profile VOIP  tcont 5 name Multiscreen profile Multiscreen  tcont 7 name TR069 profile TR069  gemport 1 name HSI tcont 1  gemport 3 name VOIP tcont 3  gemport 5 name Multiscreen tcont 5  gemport 7 name TR069 tcont 7  remote  service HSI gemport 1 vlan 35  service VOIP gemport 3 vlan 335  service Multiscreen gemport 5 vlan 2502  service TR069 gemport 7 vlan 2501  wan-ip 3 mode dhcp vlan-profile TR069 host 3  vlan port eth\_0/2 mode tag vlan 2502 pri 3  vlan port eth\_0/3 mode tag vlan 2502 pri 3  vlan port eth\_0/4 mode tag vlan 335 pri 5  dhcp-ip ethuni eth\_0/1 from-onu  dhcp-ip ethuni eth\_0/2 from-internet  dhcp-ip ethuni eth\_0/3 from-internet  dhcp-ip ethuni eth\_0/4 from-internet  mvlan 2502  mvlan tag eth\_0/2 strip  mvlan tag eth\_0/3 strip  wan 1 service internet host 1  **2. Khai báo ONU SN ( mode config:interface gpon)** interface gpon-olt\_1/1/1  onu 1 type VIETTEL-vG-421WD sn VTNW77F1BB78  onu 1 profile H1M2V1\_VHT  **3. Khai báo Service Port cho ONU (mode interface gpon-onu)** interface gpon-onu\_1/1/1:1  service-port 1 vport 1 user-vlan 35 vlan 35  service-port 3 vport 3 user-vlan 335 vlan 335  service-port 5 vport 5 user-vlan 2502 vlan 2502  service-port 7 vport 7 user-vlan 2501 vlan 2501  **4. Cấu hình pppoe accounts cho ONU ( mode interface gpon-onu)** pon-onu-mng gpon-onu\_1/1/1:1  wan-ip 1 mode pppoe username kv1\_test\_fiber\_12 password kcsvtt vlan-profile wan35 host 1  **5. Khai báo IGMP service (mode confiuge)** igmp mvlan 2502 receive-port gpon-onu\_1/1/1:1 vport 5 | **Profile H1M2V1**  **1. Khai báo traffic profile (mode config)** ont-lineprofile gpon profile-name H1M2V1 tcont 1 dba-profile-name TR069 tcont 2 dba-profile-name HSI tcont 3 dba-profile-name Multiscreen  tcont 4 dba-profile-name VOIP gem add 1 eth tcont 1 gem add 2 eth tcont 2 gem add 3 eth tcont 3 gem add 4 eth tcont 4 gem mapping 1 0 vlan 2501 gem mapping 2 0 vlan 35 gem mapping 3 0 vlan 2502 gem mapping 4 0 vlan 335 commit quit **2. Khai báo Service Profile (mode config)** ont-srvprofile gpon profile-name H1M2V1 ont-port pots adaptive 2 eth adaptive 4 native-vlan unconcern multicast-forward tag translation 2502 port vlan eth 2 q-in-q 2502 0 user-vlan untagged port vlan eth 3 q-in-q 2502 0 user-vlan untagged port vlan eth 4 q-in-q 335 0 user-vlan untagged  **3. Khai báo ONU SN (mode config:interface gpon)** ont add “PonPortID” “ONU\_ID” sn-auth “SN” omci ont-lineprofile-name H1M2V1 ont-srvprofile-name H1M2V1  **4. Khai báo service port (mode config)** service-port vlan 2501 gpon 0/0/0 ont 1 gemport 1 multi-service user-vlan 2501 tag-transform translate MA5603T(config)#service-port vlan 35 gpon 0/0/1 ont 1 gemport 2 multi-service user-vlan 35 tag-transform translate MA5603T(config)#service-port vlan 2502 gpon 0/0/1 ont 1 gemport 3 multi-service user-vlan 2502 tag-transform translate MA5603T(config)#service-port vlan 335 gpon 0/0/1 ont 1 gemport 4 multi-service user-vlan 335 tag-transform translate **5. Khai báo IGMP (mode config:btv)** igmp user add service-port “service\_port” no-auth multicast-vlan 2502 igmp multicast-vlan member service-port "service\_port" | **Profile H1M2V1**  **1. Khai báo add ont:**  configure equipment ont interface 1/1/1/1/1 sw-ver-pland disabled sw-dnload-version disabled sernum VTNW:77F1BB70 fec-up enable enable-aes enable  configure equipment ont interface 1/1/1/1/1 admin-state up  exit all  **2. Khai báo ethernet**  configure equipment ont slot 1/1/1/1/1/1 planned-card-type 10\_100base plndnumdataports 4 plndnumvoiceports 0 admin-state up  configure ethernet ont 1/1/1/1/1/1/[1...4] admin-state up  configure ethernet ont 1/1/1/1/1/1/[1...4] auto-detect auto  exit all  **3. Khai báo dịch vụ Internet**  configure qos  interface 1/1/1/1/1/10/1  upstream-queue 0  bandwidth-profile name:UP\_HSI\_100M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/10/1  max-unicast-mac 20  vlan-id 35  tag single-tagged  configure interface port uni:1/1/1/1/1/10/1  admin-up  exit all  **4. Khai báo dịch vụ IPTV**  configure qos  interface 1/1/1/1/1/1/2  upstream-queue 5  bandwidth-profile name:UP\_MULTISCREEN\_6M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/1/2  max-unicast-mac 20  vlan-id 2502  tag untagged  vlan-scope local  network-vlan 2502  max-unicast-mac 10  exit  pvid 2502  exit all  configure igmp channel vlan:1/1/1/1/1/1/2:2502  max-num-group 40  configure igmp channel vlan:1/1/1/1/1/1/2:2502 fullview-packages [1...1024]  exit all  configure interface port uni:1/1/1/1/1/1/2  admin-up  exit all  configure qos  interface 1/1/1/1/1/1/3  upstream-queue 5  bandwidth-profile name:UP\_MULTISCREEN\_6M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/1/3  max-unicast-mac 20  vlan-id 2502  tag untagged  vlan-scope local  network-vlan 2502  max-unicast-mac 10  exit  pvid 2502  exit all  configure igmp channel vlan:1/1/1/1/1/1/3:2502  max-num-group 40  configure igmp channel vlan:1/1/1/1/1/1/3:2502 fullview-packages [1...1024]  exit all  configure interface port uni:1/1/1/1/1/1/3  admin-up  exit all  **5. Khai báo dịch vụ VoIP**  configure qos  interface 1/1/1/1/1/1/4  upstream-queue 6  bandwidth-profile name:UP\_VOICE\_1M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/1/4  max-unicast-mac 20  vlan-id 335  tag untagged  vlan-scope local  network-vlan 335  ds-dedicated-q enable  max-unicast-mac 10  exit  pvid 335  exit all  configure interface port uni:1/1/1/1/1/1/4  admin-up  exit all  **6. Khai báo TR069**  configure qos  interface 1/1/1/1/1/10/1  upstream-queue 5  bandwidth-profile name:UP\_TR69\_2M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/10/1  max-unicast-mac 20  vlan-id 2501  tag single-tagged  configure interface port uni:1/1/1/1/1/10/1  admin-up  exit all |
| **ONU\_Bridge** | **Profile ONU\_Bridge**  **1. Khai báo extended-vlan-tagging-operation (mode gpon configure)**  gpon  extended-vlan-tagging-operation PASSTHROUGH create  downstream-mode enable  single-tagged-frame 2  filter inner vid 35 cos any tpid 0x8100  treat remove single  treat inner vid 35 cos copy-inner tpid 0x8100  single-tagged-frame 3  filter inner vid 36 cos any tpid 0x8100  treat remove single  treat inner vid 36 cos copy-inner tpid 0x8100  single-tagged-frame 4  filter inner vid 2502 cos any tpid 0x8100  treat remove single  treat inner vid 2502 cos copy-inner tpid 0x8100  single-tagged-frame 5  filter inner vid 335 cos any tpid 0x8100  treat remove single  treat inner vid 335 cos copy-inner tpid 0x8100  apply  !  gpon  extended-vlan-tagging-operation 2501\_FTP create  downstream-mode enable  untagged-frame 1  treat inner vid 2501 cos 3 tpid 0x8100  apply  **2. Khai báo Multicast-profile (mode gpon configure)**  gpon  multicast-profile MULTICAST\_VHT create  igmp robustness-variable 3  igmp access-list vid 2502 dst-ip start 224.0.0.0 end 239.255.255.255 gem 4094  apply  !  **3. Khai báo traffic-profile ( mode gpon configure)**  Gpon  traffic-profile ONU\_BRIDGE\_VHT create  mgmt-mode uni eth 1 non-omci link virtual-eth 1  mgmt-mode uni eth 2 non-omci link virtual-eth 1  mgmt-mode uni eth 3 omci  mgmt-mode uni eth 4 omci  tcont 2  gemport 2/1  dba-profile BRIDGE  tcont 4  gemport 4/1  dba-profile FTP  mapper 2  gemport count 1  mapper 4  gemport count 1  bridge 2  ani mapper 2  vlan-filter vid 35-36,335,2502 untagged discard  uni eth 3  multicast-profile MULTICAST\_VHT  extended-vlan-tagging-operation PASSTHROUGH  uni eth 4  multicast-profile MULTICAST\_VHT  extended-vlan-tagging-operation PASSTHROUGH  bridge 4  ani mapper 4  link ip-host-config 1  ip-host-config 1  ip address dhcp  extended-vlan-tagging-operation 2501\_FTP  apply  !  **4. Cấu hình onu-profile (mode gpon configure)**  onu-profile ONU\_BRIDGE\_VHT create  traffic-profile ONU\_BRIDGE\_VHT  apply  **5. Khai báo ONU SN**  gpon-olt 1/1  onu add 1 VTNW77f1bb78 auto-learning  onu-profile 1 ONU\_BRIDGE\_VHT | **Profile ONU\_Bridge**  **1. Khai báo onu profile ( mode pon config)** pon  onu-profile gpon ONU\_BRIDGE  tcont 1 name HSI profile HSI  tcont 3 name VOIP profile VOIP  tcont 5 name Multicsreen profile Multiscreen  tcont 7 name TR069 profile TR069  gemport 1 name HSI tcont 1  gemport 3 name VOIP tcont 3  gemport 5 name Multiscreeen tcont 5  gemport 7 name TR069 tcont 7  remote  service HSI gemport 1 vlan 35  service VOIP gemport 3 vlan 335  service Multiscreen gemport 5 vlan 2502  service TR069 gemport 7 vlan 2501  wan-ip 3 mode dhcp vlan-profile TR069 host 3  vlan port eth\_0/3 mode trunk  vlan port eth\_0/4 mode trunk  vlan port eth\_0/3 vlan 35,335,2502  vlan port eth\_0/4 vlan 35,335,2502  dhcp-ip ethuni eth\_0/1 from-onu  dhcp-ip ethuni eth\_0/2 from-onu  dhcp-ip ethuni eth\_0/3 from-internet  dhcp-ip ethuni eth\_0/4 from-internet  mvlan 2502  mvlan tag eth\_0/3 translate 2502:2502  mvlan tag eth\_0/4 translate 2502:2502  wan 1 service internet host 1  **2. Khai báo ONU SN ( mode config:interface gpon)**  interface gpon-olt\_1/1/1  onu 1 type VIETTEL-vG-421WD sn VTNW77F1BB78  onu 1 profile ONU\_BRIDGE  **3. Khai báo Service Port cho ONU (mode interface gpon-onu)** interface gpon-onu\_1/1/1:1  service-port 1 vport 1 user-vlan 35 vlan 35  service-port 3 vport 3 user-vlan 335 vlan 335  service-port 5 vport 5 user-vlan 2502 vlan 2502  service-port 7 vport 7 user-vlan 2501 vlan 2501  **4. Khai báo IGMP service (mode confiuge)** igmp mvlan 2502 receive-port gpon-onu\_1/1/1:66 vport 5 | **Profile ONU\_Bridge**  **1. Khai báo traffic profile (mode config)** ont-lineprofile gpon profile-name ONU\_Bridge tcont 1 dba-profile-name TR069 tcont 2 dba-profile-name HSI  tcont 3 dba-profile-name IPTV tcont 4 dba-profile-name Multiscreen  tcont 5 dba-profile-name VOIP  gem add 1 eth tcont 1 gem add 2 eth tcont 2 gem add 3 eth tcont 3 gem add 4 eth tcont 4  gem add 5 eth tcont 5 gem mapping 1 0 vlan 2501 gem mapping 2 0 vlan 35 gem mapping 3 0 vlan 36 gem mapping 4 0 vlan 2502  gem mapping 5 0 vlan 335 commit quit **2. Khai báo Service Profile (mode config)** ont-srvprofile gpon profile-name ONU\_Bridge ont-port pots adaptive 2 eth adaptive 4 native-vlan unconcern multicast-forward tag translation 2502  port vlan eth 3 translation 35 user-vlan 35  port vlan eth 4 translation 35 user-vlan 35  port vlan eth 3 translation 36 user-vlan 36  port vlan eth 4 translation 36 user-vlan 36  port vlan eth 3 translation 2502 user-vlan 2502  port vlan eth 4 translation 2502 user-vlan 2502  port vlan eth 3 translation 335 user-vlan 335  port vlan eth 4 translation 335 user-vlan 335  **3. Khai báo ONU SN (mode config:interface gpon)** ont add “PonPortID” “ONU\_ID” sn-auth “SN” omci ont-lineprofile-name ONU\_Bridge ont-srvprofile-name ONU\_Bridge  **4. Khai báo service port (mode config)** service-port vlan 2501 gpon 0/0/0 ont 1 gemport 1 multi-service user-vlan 2501 tag-transform translate  service-port vlan 35 gpon 0/0/1 ont 1 gemport 2 multi-service user-vlan 35 tag-transform translate  service-port vlan 36 gpon 0/0/1 ont 1 gemport 3 multi-service user-vlan 36 tag-transform translate  service-port vlan 2502 gpon 0/0/1 ont 1 gemport 4 multi-service user-vlan 2502 tag-transform translate  service-port vlan 335 gpon 0/0/1 ont 1 gemport 5 multi-service user-vlan 335 tag-transform translate  **5. Khai báo IGMP (mode config:btv)** igmp user add service-port “service\_port” no-auth multicast-vlan 2502 igmp multicast-vlan member service-port "service\_port" | **Profile ONU\_Bridge**  **1. Khai báo add ont:**  configure equipment ont interface 1/1/1/1/1 sw-ver-pland disabled sw-dnload-version disabled sernum VTNW:77F1BB70 fec-up enable enable-aes enable  configure equipment ont interface 1/1/1/1/1 admin-state up  exit all  **2. Khai báo ethernet**  configure equipment ont slot 1/1/1/1/1/1 planned-card-type 10\_100base plndnumdataports 4 plndnumvoiceports 0 admin-state up  configure ethernet ont 1/1/1/1/1/1/[1...4] admin-state up  configure ethernet ont 1/1/1/1/1/1/[1...4] auto-detect auto  exit all  **3. Khai báo dịch vụ Internet cho cổng bridge LAN 3 và LAN 4**  configure qos  interface 1/1/1/1/1/1/3  upstream-queue 0  bandwidth-profile name:UP\_HSI\_100M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/1/3  max-unicast-mac 20  vlan-id 35  tag single-tagged  configure interface port uni:1/1/1/1/1/1/3  admin-up  exit all  configure qos  interface 1/1/1/1/1/1/4  upstream-queue 0  bandwidth-profile name:UP\_HSI\_100M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/1/4  max-unicast-mac 20  vlan-id 35  tag single-tagged  configure interface port uni:1/1/1/1/1/1/4  admin-up  exit all  **4. Khai báo dịch vụ IPTV cho cổng bridge LAN 3 và LAN 4**  configure qos  interface 1/1/1/1/1/1/3  upstream-queue 5  bandwidth-profile name:UP\_MULTISCREEN\_6M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/1/3  max-unicast-mac 20  vlan-id 2502  tag single-tagged  vlan-scope local  network-vlan 2502  max-unicast-mac 10  exit all  configure igmp channel vlan:1/1/1/1/1/1/3:2502  max-num-group 40  configure igmp channel vlan:1/1/1/1/1/1/3:2502 fullview-packages [1...1024]  exit all  configure interface port uni:1/1/1/1/1/1/3  admin-up  exit all  configure qos  interface 1/1/1/1/1/1/4  upstream-queue 5  bandwidth-profile name:UP\_MULTISCREEN\_6M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/1/4  max-unicast-mac 20  vlan-id 2502  tag single-tagged  vlan-scope local  network-vlan 2502  max-unicast-mac 10  exit all  configure igmp channel vlan:1/1/1/1/1/1/4:2502  max-num-group 40  configure igmp channel vlan:1/1/1/1/1/1/4:2502 fullview-packages [1...1024]  exit all  configure interface port uni:1/1/1/1/1/1/4  admin-up  exit all  **5. Khai báo dịch vụ VoIP cho cổng bridge LAN 3 và LAN 4**  configure qos  interface 1/1/1/1/1/1/3  upstream-queue 6  bandwidth-profile name:UP\_VOICE\_1M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/1/3  max-unicast-mac 20  vlan-id 335  tag single-tagged  vlan-scope local  network-vlan 335  ds-dedicated-q enable  max-unicast-mac 10  exit all  configure interface port uni:1/1/1/1/1/1/3  admin-up  exit all  configure qos  interface 1/1/1/1/1/1/4  upstream-queue 6  bandwidth-profile name:UP\_VOICE\_1M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/1/4  max-unicast-mac 20  vlan-id 335  tag single-tagged  vlan-scope local  network-vlan 335  ds-dedicated-q enable  max-unicast-mac 10  exit all  configure interface port uni:1/1/1/1/1/1/4  admin-up  exit all  **6. Khai báo TR069**  configure qos  interface 1/1/1/1/1/10/1  upstream-queue 5  bandwidth-profile name:UP\_TR69\_2M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/10/1  max-unicast-mac 20  vlan-id 2501  tag single-tagged  configure interface port uni:1/1/1/1/1/10/1  admin-up  exit all |
| **H2M0V0\_Bridge** | **Profile H2M0V0\_Bridge**  **1. Khai báo extended-vlan-tagging-operation (mode gpon configure)**  gpon  extended-vlan-tagging-operation PASSTHROUGH create  downstream-mode enable  single-tagged-frame 2  filter inner vid 35 cos any tpid 0x8100  treat remove single  treat inner vid 35 cos copy-inner tpid 0x8100  single-tagged-frame 3  filter inner vid 36 cos any tpid 0x8100  treat remove single  treat inner vid 36 cos copy-inner tpid 0x8100  single-tagged-frame 4  filter inner vid 2502 cos any tpid 0x8100  treat remove single  treat inner vid 2502 cos copy-inner tpid 0x8100  single-tagged-frame 5  filter inner vid 335 cos any tpid 0x8100  treat remove single  treat inner vid 335 cos copy-inner tpid 0x8100  apply  !  gpon  extended-vlan-tagging-operation HSI-35-VHT-BRIDGE create  downstream-mode enable  dscp-to-cos-map default-map  untagged-frame 1  treat inner vid 35 cos dscp-to-pbit tpid 0x8100  apply  !  gpon  extended-vlan-tagging-operation 2501\_FTP create  downstream-mode enable  untagged-frame 1  treat inner vid 2501 cos 3 tpid 0x8100  apply  **2. Khai báo Multicast-profile (mode gpon configure)**  gpon  multicast-profile MULTICAST\_VHT create  igmp robustness-variable 3  igmp access-list vid 2502 dst-ip start 224.0.0.0 end 239.255.255.255 gem 4094  apply  !  **3. Khai báo traffic-profile ( mode gpon configure)**  gpon  traffic-profile H2M0V0\_BRIDGE\_VHT create  mgmt-mode uni eth 1 non-omci link virtual-eth 1  mgmt-mode uni eth 2 non-omci link virtual-eth 1  mgmt-mode uni eth 3 non-omci link virtual-eth 1  mgmt-mode uni eth 4 omci  tcont 2  gemport 2/1  dba-profile HSI  tcont 3  gemport 3/1  dba-profile BRIDGE  tcont 4  gemport 4/1  dba-profile FTP  mapper 2  gemport count 1  mapper 3  gemport count 1  mapper 4  gemport count 1  bridge 2  ani mapper 2  vlan-filter vid 35 untagged discard  uni virtual-eth 2  extended-vlan-tagging-operation HSI-35-VHT-BRIDGE  bridge 3  ani mapper 3  vlan-filter vid 35-36,335,2502 untagged discard  uni eth 4  multicast-profile MULTICAST\_VHT  extended-vlan-tagging-operation PASSTHROUGH  bridge 4  ani mapper 4  link ip-host-config 1  ip-host-config 1  ip address dhcp  extended-vlan-tagging-operation 2501\_FTP  apply  !  **4. Cấu hình onu-profile (mode gpon configure)**  onu-profile H2M0V0\_BRIDGE\_VHT create  traffic-profile H2M0V0\_BRIDGE\_VHT  apply  **5. Khai báo ONU SN**  gpon-olt 1/1  onu add 1 VTNW77f1bb78 auto-learning  onu-profile 1 H2M0V0\_BRIDGE\_VHT | **Profile H2M0V0\_Bridge**  **1. Khai báo onu profile ( mode pon config)** pon  onu-profile gpon ONU\_H2M0V0\_BRIDGE  tcont 1 name HSI profile HSI  tcont 3 name VOIP profile VOIP  tcont 5 name Multicsreen profile Multiscreen  tcont 7 name TR069 profile TR069  gemport 1 name HSI tcont 1  gemport 3 name VOIP tcont 3  gemport 5 name Multiscreeen tcont 5  gemport 7 name TR069 tcont 7  remote  service HSI gemport 1 vlan 35  service VOIP gemport 3 vlan 335  service Multiscreen gemport 5 vlan 2502  service TR069 gemport 7 vlan 2501  wan-ip 3 mode dhcp vlan-profile TR069 host 3  vlan port eth\_0/2 mode tag vlan 35  vlan port eth\_0/3 mode tag vlan 35  vlan port eth\_0/4 mode trunk  vlan port eth\_0/4 vlan 35,335,2502  dhcp-ip ethuni eth\_0/1 from-onu  dhcp-ip ethuni eth\_0/2 from-internet  dhcp-ip ethuni eth\_0/3 from-internet  dhcp-ip ethuni eth\_0/4 from-internet  mvlan 2502  mvlan tag eth\_0/4 translate 2502:2502  wan 1 service internet host 1  **2. Khai báo Service Port cho ONU (mode interface gpon-onu)**  interface gpon-onu\_1/1/1:66  service-port 1 vport 1 user-vlan 35 vlan 35  service-port 3 vport 3 user-vlan 335 vlan 335  service-port 5 vport 5 user-vlan 2502 vlan 2502  service-port 7 vport 7 user-vlan 2501 vlan 2501  **3. Khai báo ONU SN ( mode config:interface gpon)** interface gpon-olt\_1/1/1  onu 1 type VIETTEL-vG-421WD sn VTNW77F1BB78  onu 1 profile H2M0V0\_BRIDGE\_VHT  **4. Khai báo IGMP service (mode confiuge)**  igmp mvlan 2502 receive-port gpon-onu\_1/1/1:66 vport 5 | **Profile H2M0V0\_Bridge**  **1. Khai báo traffic profile (mode config)** ont-lineprofile gpon profile-name H2M0V0\_Bridge tcont 1 dba-profile-name TR069 tcont 2 dba-profile-name HSI  tcont 3 dba-profile-name IPTV tcont 3 dba-profile-name Multiscreen  tcont 5 dba-profile-name VOIP  gem add 1 eth tcont 1 gem add 2 eth tcont 2 gem add 3 eth tcont 3 gem add 4 eth tcont 4  gem add 5 eth tcont 5 gem mapping 1 0 vlan 2501 gem mapping 2 0 vlan 35 gem mapping 3 0 vlan 36 gem mapping 4 0 vlan 2502  gem mapping 5 0 vlan 335 commit quit **2. Khai báo Service Profile (mode config)** ont-srvprofile gpon profile-name H2M0V0\_Bridge ont-port pots adaptive 2 eth adaptive 4 native-vlan unconcern  multicast-forward tag translation 36 multicast-forward tag translation 2502  port vlan eth 2 q-in-q 35 0 user-vlan untagged  port vlan eth 3 q-in-q 35 0 user-vlan untagged  port vlan eth 4 translation 35 user-vlan 35  port vlan eth 4 translation 36 user-vlan 36  port vlan eth 4 translation 2502 user-vlan 2502  port vlan eth 4 translation 335 user-vlan 335  **3. Khai báo ONU SN (mode config:interface gpon)** ont add “PonPortID” “ONU\_ID” sn-auth “SN” omci ont-lineprofile-name H2M0V0\_Bridge ont-srvprofile-name H2M0V0\_Bridge  **4. Khai báo service port (mode config)** service-port vlan 2501 gpon Shell/Slot/Port” ont 1 gemport1 multi-service user-vlan 2501 tag-transform translate  service-port vlan 35 gpon 0/0/1 ont 1 gemport 2 multi-service user-vlan 35 tag-transform translate  service-port vlan 36 gpon 0/0/1 ont 1 gemport 3 multi-service user-vlan 36 tag-transform translate  service-port vlan 2502 gpon 0/0/1 ont 1 gemport 4 multi-service user-vlan 2502 tag-transform translate  service-port vlan 335 gpon 0/0/1 ont 1 gemport 5 multi-service user-vlan 335 tag-transform translate  **5. Khai báo IGMP (mode config:btv)** igmp user add service-port “service\_port” no-auth multicast-vlan 2502 igmp multicast-vlan member service-port "service\_port" | **Profile H2M0V0\_Bridge**  **1. Khai báo add ont:**  configure equipment ont interface 1/1/1/1/1 sw-ver-pland disabled sw-dnload-version disabled sernum VTNW:77F1BB70 fec-up enable enable-aes enable  configure equipment ont interface 1/1/1/1/1 admin-state up  exit all  **2. Khai báo ethernet**  configure equipment ont slot 1/1/1/1/1/1 planned-card-type 10\_100base plndnumdataports 4 plndnumvoiceports 0 admin-state up  configure ethernet ont 1/1/1/1/1/1/[1...4] admin-state up  configure ethernet ont 1/1/1/1/1/1/[1...4] auto-detect auto  exit all  **3. Khai báo dịch vụ Internet cho cổng bridge LAN 2 và LAN 3**  configure qos  interface 1/1/1/1/1/1/2  upstream-queue 0  bandwidth-profile name:UP\_HSI\_100M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/1/2  max-unicast-mac 20  vlan-id 35  tag untagged  exit  pvid 35  configure interface port uni:1/1/1/1/1/1/2  admin-up  exit all  configure qos  interface 1/1/1/1/1/1/3  upstream-queue 0  bandwidth-profile name:UP\_HSI\_100M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/1/3  max-unicast-mac 20  vlan-id 35  tag untagged  exit  pvid 35  configure interface port uni:1/1/1/1/1/1/3  admin-up  exit all  **4. Khai báo dịch vụ Internet cho cổng bridge LAN 4**  configure qos  interface 1/1/1/1/1/1/4  upstream-queue 0  bandwidth-profile name:UP\_HSI\_100M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/1/4  max-unicast-mac 20  vlan-id 35  tag single-tagged  exit  configure interface port uni:1/1/1/1/1/1/4  admin-up  exit all  **5. Khai báo dịch vụ IPTV cho cổng bridge LAN 4**  configure qos  interface 1/1/1/1/1/1/4  upstream-queue 5  bandwidth-profile name:UP\_MULTISCREEN\_6M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/1/4  max-unicast-mac 20  vlan-id 2502  tag single-tagged  vlan-scope local  network-vlan 2502  max-unicast-mac 10  exit all  configure igmp channel vlan:1/1/1/1/1/1/4:2502  max-num-group 40  configure igmp channel vlan:1/1/1/1/1/1/4:2502 fullview-packages [1...1024]  exit all  configure interface port uni:1/1/1/1/1/1/4  admin-up  exit all  **5. Khai báo dịch vụ VoIP cho cổng bridge LAN 4**  configure qos  interface 1/1/1/1/1/1/4  upstream-queue 6  bandwidth-profile name:UP\_VOICE\_1M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/1/4  max-unicast-mac 20  vlan-id 335  tag single-tagged  vlan-scope local  network-vlan 335  ds-dedicated-q enable  max-unicast-mac 10  exit all  configure interface port uni:1/1/1/1/1/1/4  admin-up  exit all  **6. Khai báo TR069**  configure qos  interface 1/1/1/1/1/10/1  upstream-queue 5  bandwidth-profile name:UP\_TR69\_2M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/10/1  max-unicast-mac 20  vlan-id 2501  tag single-tagged  configure interface port uni:1/1/1/1/1/10/1  admin-up  exit all |
| **H1M1V1\_Bridge** | **Profile H1M1V1\_Bridge**  **1. Khai báo extended-vlan-tagging-operation (mode gpon configure)**  gpon  extended-vlan-tagging-operation 2502\_MTS\_VHT\_BRIDGE create  downstream-mode enable  dscp-to-cos-map default-map  untagged-frame 1  treat inner vid 2502 cos 3 tpid 0x8100  apply  !  gpon  extended-vlan-tagging-operation HSI-35-VHT-BRIDGE create  downstream-mode enable  dscp-to-cos-map default-map  untagged-frame 1  treat inner vid 35 cos dscp-to-pbit tpid 0x8100  apply  !  gpon  extended-vlan-tagging-operation 2501\_FTP create  downstream-mode enable  untagged-frame 1  treat inner vid 2501 cos 3 tpid 0x8100  apply  !  pon  extended-vlan-tagging-operation 335\_VOIP\_VHT-BRIDGE create  downstream-mode enable  dscp-to-cos-map default-map  untagged-frame 1  treat inner vid 335 cos 5 tpid 0x8100  apply  !  **2. Khai báo Multicast-profile (mode gpon configure)**  gpon  multicast-profile MULTICAST\_VHT create  igmp robustness-variable 3  igmp access-list vid 2502 dst-ip start 224.0.0.0 end 239.255.255.255 gem 4094  apply  !  **3. Khai báo traffic-profile ( mode gpon configure)**  Gpon  traffic-profile H1M1V1\_BRIDGE\_VHT create  mgmt-mode uni eth 1 non-omci link virtual-eth 1  mgmt-mode uni eth 2 omci  mgmt-mode uni eth 3 omci  mgmt-mode uni eth 4 omci  tcont 1  gemport 1/1  dba-profile HSI  tcont 3  gemport 3/1  dba-profile VOIP  tcont 4  gemport 4/1  dba-profile FTP  tcont 5  gemport 5/1  dba-profile MTS  mapper 1  gemport count 1  mapper 3  gemport count 1  mapper 4  gemport count 1  mapper 5  gemport count 1  bridge 1  ani mapper 1  vlan-filter vid 35 untagged discard  uni eth 2  extended-vlan-tagging-operation HSI-35-VHT-BRIDGE  bridge 3  ani mapper 3  uni eth 4  extended-vlan-tagging-operation 335\_VOIP\_VHT-BRIDGE  max-frame 2036  max-hosts 10  bridge 4  ani mapper 4  link ip-host-config 1  bridge 5  ani mapper 5  uni eth 3  multicast-profile MULTICAST\_VHT  extended-vlan-tagging-operation 2502\_MTS\_VHT\_BRIDGE  max-frame 2036  max-hosts 10  ip-host-config 1  ip address dhcp  extended-vlan-tagging-operation 2501\_FTP  apply  !  **4. Cấu hình onu-profile (mode gpon configure)**  onu-profile H1M1V1\_BRIDGE\_VHT create  traffic-profile H1M1V1\_BRIDGE\_VHT  apply  **5. Khai báo ONU SN**  gpon-olt 1/1  onu add 13 VTNW77f1bb78 auto-learning  onu-profile 1 H1M1V1\_BRIDGE\_VHT | **Profile H1M1V1\_Bridge**  **1. Khai báo onu profile ( mode pon config)** pon  onu-profile gpon H1M1V1\_BRIDGE\_VHT  tcont 1 name HSI profile HSI  tcont 3 name VOIP profile VOIP  tcont 5 name Multiscreen profile Multiscreen  tcont 7 name TR069 profile TR069  gemport 1 name HSI tcont 1  gemport 3 name VOIP tcont 3  gemport 5 name Multiscreen tcont 5  gemport 7 name TR069 tcont 7  remote  service HSI gemport 1 vlan 35  service VOIP gemport 3 vlan 335  service Multiscreen gemport 5 vlan 2502  service TR069 gemport 7 vlan 2501  wan-ip 3 mode dhcp vlan-profile TR069 host 3  vlan port eth\_0/2 mode tag vlan 35  vlan port eth\_0/3 mode tag vlan 2502  vlan port eth\_0/4 mode tag vlan 335  dhcp-ip ethuni eth\_0/2 from-internet  dhcp-ip ethuni eth\_0/3 from-internet  dhcp-ip ethuni eth\_0/4 from-internet  mvlan 2502  mvlan tag eth\_0/3 translate 2502:2502  wan 1 service internet host 1  **2. Khai báo ONU SN ( mode config:interface gpon)** interface gpon-olt\_1/1/1  onu 1 type VIETTEL-vG-421WD sn VTNW77F1BB78  onu 1 profile H1M1V1\_BRIDGE\_VHT  **3. Khai báo Service Port cho ONU (mode interface gpon-onu)** interface gpon-onu\_1/1/1:1  service-port 1 vport 1 user-vlan 35 vlan 35  service-port 3 vport 3 user-vlan 335 vlan 335  service-port 5 vport 5 user-vlan 2502 vlan 2502  service-port 7 vport 7 user-vlan 2501 vlan 2501  **4. Khai báo IGMP service (mode confiuge)** igmp mvlan 2502 receive-port gpon-onu\_1/1/1:1 vport 5 | **Profile H1M1V1\_Bridge**  **1. Khai báo traffic profile (mode config)** ont-lineprofile gpon profile-name H1M1V1\_Bridge tcont 1 dba-profile-name TR069 tcont 2 dba-profile-name HSI  tcont 3 dba-profile-name Multiscreen  tcont 4 dba-profile-name VOIP  gem add 1 eth tcont 1 gem add 2 eth tcont 2 gem add 3 eth tcont 3 gem add 4 eth tcont 4  gem mapping 1 0 vlan 2501 gem mapping 2 0 vlan 35 gem mapping 3 0 vlan 2502  gem mapping 4 0 vlan 335 commit quit **2. Khai báo Service Profile (mode config)** ont-srvprofile gpon profile-name H1M1V1\_Bridge ont-port pots adaptive 2 eth adaptive 4 native-vlan unconcern  multicast-forward tag translation 2502  port vlan eth 2 q-in-q 35 0 user-vlan untagged  port vlan eth 3 q-in-q 2502 0 user-vlan untagged  port vlan eth 4 q-in-q 335 0 user-vlan untagged  **3. Khai báo ONU SN (mode config:interface gpon)** ont add “PonPortID” “ONU\_ID” sn-auth “SN” omci ont-lineprofile-name H1M1V1\_Bridge ont-srvprofile-name H1M1V1\_Bridge  **4. Khai báo service port (mode config)** service-port vlan 2501 gpon 0/0/1 ont 1 gemport1 multi-service user-vlan 2501 tag-transform translate  service-port vlan 35 gpon 0/0/1 ont 1 gemport 2 multi-service user-vlan 35 tag-transform translate  service-port vlan 2502 gpon 0/0/1 ont 1 gemport 3 multi-service user-vlan 2502 tag-transform translate  service-port vlan 335 gpon 0/0/1 ont 1 gemport 4 multi-service user-vlan 335 tag-transform translate  **5. Khai báo IGMP (mode config:btv)** igmp user add service-port “service\_port” no-auth multicast-vlan 2502 igmp multicast-vlan member service-port "service\_port" | **Profile H1M1V1\_Bridge**  **1. Khai báo add ont:**  configure equipment ont interface 1/1/1/1/1 sw-ver-pland disabled sw-dnload-version disabled sernum VTNW:77F1BB70 fec-up enable enable-aes enable  configure equipment ont interface 1/1/1/1/1 admin-state up  exit all  **2. Khai báo ethernet**  configure equipment ont slot 1/1/1/1/1/1 planned-card-type 10\_100base plndnumdataports 4 plndnumvoiceports 0 admin-state up  configure ethernet ont 1/1/1/1/1/1/[1...4] admin-state up  configure ethernet ont 1/1/1/1/1/1/[1...4] auto-detect auto  exit all  **3. Khai báo dịch vụ Internet cho cổng bridge LAN 2**  configure qos  interface 1/1/1/1/1/1/2  upstream-queue 0  bandwidth-profile name:UP\_HSI\_100M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/1/2  max-unicast-mac 20  vlan-id 35  tag untagged  exit  pvid 35  configure interface port uni:1/1/1/1/1/1/2  admin-up  exit all  **4. Khai báo dịch vụ IPTV cho cổng bridge LAN 3**  configure qos  interface 1/1/1/1/1/1/3  upstream-queue 5  bandwidth-profile name:UP\_MULTISCREEN\_6M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/1/3  max-unicast-mac 20  vlan-id 2502  tag untagged  vlan-scope local  network-vlan 2502  max-unicast-mac 10  exit  pvid 2502  exit all  configure igmp channel vlan:1/1/1/1/1/1/3:2502  max-num-group 40  configure igmp channel vlan:1/1/1/1/1/1/3:2502 fullview-packages [1...1024]  exit all  configure interface port uni:1/1/1/1/1/1/3  admin-up  exit all  **5. Khai báo dịch vụ VoIP cho cổng bridge LAN 4**  configure qos  interface 1/1/1/1/1/1/4  upstream-queue 6  bandwidth-profile name:UP\_VOICE\_1M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/1/4  max-unicast-mac 20  vlan-id 335  tag untagged  vlan-scope local  network-vlan 335  ds-dedicated-q enable  max-unicast-mac 10  exit  pvid 335  exit all  configure interface port uni:1/1/1/1/1/1/4  admin-up  exit all  **6. Khai báo TR069**  configure qos  interface 1/1/1/1/1/10/1  upstream-queue 5  bandwidth-profile name:UP\_TR69\_2M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/10/1  max-unicast-mac 20  vlan-id 2501  tag single-tagged  configure interface port uni:1/1/1/1/1/10/1  admin-up  exit all |
| **H1M2V0\_Bridge** | **Profile H1M2V0\_Bridge**  **1. Khai báo extended-vlan-tagging-operation (mode gpon configure)**  gpon  extended-vlan-tagging-operation 2502\_MTS\_VHT\_BRIDGE create  downstream-mode enable  dscp-to-cos-map default-map  untagged-frame 1  treat inner vid 2502 cos 3 tpid 0x8100  apply  !  gpon  extended-vlan-tagging-operation HSI-35-VHT-BRIDGE create  downstream-mode enable  dscp-to-cos-map default-map  untagged-frame 1  treat inner vid 35 cos dscp-to-pbit tpid 0x8100  apply  !  gpon  extended-vlan-tagging-operation 2501\_FTP create  downstream-mode enable  untagged-frame 1  treat inner vid 2501 cos 3 tpid 0x8100  apply  !  **2. Khai báo Multicast-profile (mode gpon configure)**  gpon  multicast-profile MULTICAST\_VHT create  igmp robustness-variable 3  igmp access-list vid 2502 dst-ip start 224.0.0.0 end 239.255.255.255 gem 4094  apply  !  **3. Khai báo traffic-profile ( mode gpon configure)**  Gpon  traffic-profile H1M2V0\_BRIDGE\_VHT create  mgmt-mode uni eth 1 non-omci link virtual-eth 1  mgmt-mode uni eth 2 omci  mgmt-mode uni eth 3 omci  mgmt-mode uni eth 4 omci  tcont 1  gemport 1/1  dba-profile HSI  tcont 4  gemport 4/1  dba-profile FTP  tcont 5  gemport 5/1  dba-profile MTS  mapper 1  gemport count 1  mapper 4  gemport count 1  mapper 5  gemport count 1  bridge 1  ani mapper 1  vlan-filter vid 35 untagged discard  uni eth 2  extended-vlan-tagging-operation HSI-35-VHT-BRIDGE  bridge 4  ani mapper 4  link ip-host-config 1  bridge 5  ani mapper 5  uni eth 3  multicast-profile MULTICAST\_VHT  extended-vlan-tagging-operation 2502\_MTS\_VHT\_BRIDGE  max-frame 2036  max-hosts 10  uni eth 4  multicast-profile MULTICAST\_VHT  extended-vlan-tagging-operation 2502\_MTS\_VHT\_BRIDGE  max-frame 2036  max-hosts 10  ip-host-config 1  ip address dhcp  extended-vlan-tagging-operation 2501\_FTP  apply  !  **4. Cấu hình onu-profile (mode gpon configure)**  onu-profile H1M2V0\_BRIDGE\_VHT create  traffic-profile H1M2V0\_BRIDGE\_VHT  apply  **5. Khai báo ONU SN**  gpon-olt 1/1  onu add 1 VTNW77f1bb78 auto-learning  onu-profile 1 H1M2V0\_BRIDGE\_VHT | **Profile H1M2V0\_Bridge**  **1. Khai báo onu profile ( mode pon config)** pon  onu-profile gpon H1M2V0\_BRIDGE\_VHT  tcont 1 name HSI profile HSI  tcont 5 name Multiscreen profile Multiscreen  tcont 7 name TR069 profile TR069  gemport 1 name HSI tcont 1  gemport 5 name Multiscreen tcont 5  gemport 7 name TR069 tcont 7  remote  service HSI gemport 1 vlan 35  service Multiscreen gemport 5 vlan 2502  service TR069 gemport 7 vlan 2501  wan-ip 3 mode dhcp vlan-profile TR069 host 3  vlan port eth\_0/2 mode tag vlan 35  vlan port eth\_0/3 mode tag vlan 2502 pri 3  vlan port eth\_0/4 mode tag vlan 2502 pri 3  dhcp-ip ethuni eth\_0/2 from-internet  dhcp-ip ethuni eth\_0/3 from-internet  dhcp-ip ethuni eth\_0/4 from-internet  mvlan 2502  mvlan tag eth\_0/3 translate 2502:2502  mvlan tag eth\_0/4 translate 2502:2502  wan 1 service internet host 1  **2. Khai báo ONU SN ( mode config:interface gpon)**  interface gpon-olt\_1/1/1  onu 1 type VIETTEL-vG-421WD sn VTNW77F1BB78  onu 1 profile H1M2V0\_BRIDGE\_VHT  **3. Khai báo Service Port cho ONU (mode interface gpon-onu)** interface gpon-onu\_1/1/1:1  service-port 1 vport 1 user-vlan 35 vlan 35  service-port 5 vport 5 user-vlan 2502 vlan 2502  service-port 7 vport 7 user-vlan 2501 vlan 2501  **4. Khai báo IGMP service (mode confiuge)** igmp mvlan 2502 receive-port gpon-onu\_1/1/1:1 vport 5 | **Profile H1M2V0\_Bridge**  **1. Khai báo traffic profile (mode config)** ont-lineprofile gpon profile-name H1M2V0\_Bridge tcont 1 dba-profile-name TR069 tcont 2 dba-profile-name HSI  tcont 3 dba-profile-name Multiscreen  gem add 1 eth tcont 1 gem add 2 eth tcont 2 gem add 3 eth tcont 3  gem mapping 1 0 vlan 2501 gem mapping 2 0 vlan 35 gem mapping 3 0 vlan 2502  commit quit **2. Khai báo Service Profile (mode config)** ont-srvprofile gpon profile-name H1M2V0\_Bridge ont-port pots adaptive 2 eth adaptive 4 native-vlan unconcern multicast-forward tag translation 2502  port vlan eth 2 q-in-q 35 0 user-vlan untagged  port vlan eth 3 q-in-q 2502 0 user-vlan untagged  port vlan eth 4 q-in-q 2502 0 user-vlan untagged  **3. Khai báo ONU SN (mode config:interface gpon)** ont add “PonPortID” “ONU\_ID” sn-auth “SN” omci ont-lineprofile-name H1M2V0\_Bridge ont-srvprofile-name H1M2V0\_Bridge  **4. Khai báo service port (mode config)** service-port vlan 2501 gpon 0/0/1 ont 1 gemport 1 multi-service user-vlan 2501 tag-transform translate  service-port vlan 35 gpon 0/0/1 ont 1 gemport 2 multi-service user-vlan 35 tag-transform translate  service-port vlan 2502 gpon 0/0/1 ont 1 gemport 3 multi-service user-vlan 2502 tag-transform translate  **5. Khai báo IGMP (mode config:btv)** igmp user add service-port “service\_port” no-auth multicast-vlan 2502 igmp multicast-vlan member service-port "service\_port" | **Profile H1M2V0\_Bridge**  **1. Khai báo add ont:**  configure equipment ont interface 1/1/1/1/1 sw-ver-pland disabled sw-dnload-version disabled sernum VTNW:77F1BB70 fec-up enable enable-aes enable  configure equipment ont interface 1/1/1/1/1 admin-state up  exit all  **2. Khai báo ethernet**  configure equipment ont slot 1/1/1/1/1/1 planned-card-type 10\_100base plndnumdataports 4 plndnumvoiceports 0 admin-state up  configure ethernet ont 1/1/1/1/1/1/[1...4] admin-state up  configure ethernet ont 1/1/1/1/1/1/[1...4] auto-detect auto  exit all  **3. Khai báo dịch vụ Internet cho cổng bridge LAN 2**  configure qos  interface 1/1/1/1/1/1/2  upstream-queue 0  bandwidth-profile name:UP\_HSI\_100M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/1/2  max-unicast-mac 20  vlan-id 35  tag untagged  exit  pvid 35  configure interface port uni:1/1/1/1/1/1/2  admin-up  exit all  **4. Khai báo dịch vụ IPTV cho cổng bridge LAN 3**  configure qos  interface 1/1/1/1/1/1/3  upstream-queue 5  bandwidth-profile name:UP\_MULTISCREEN\_6M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/1/3  max-unicast-mac 20  vlan-id 2502  tag untagged  vlan-scope local  network-vlan 2502  max-unicast-mac 10  exit  pvid 2502  exit all  configure igmp channel vlan:1/1/1/1/1/1/3:2502  max-num-group 40  configure igmp channel vlan:1/1/1/1/1/1/3:2502 fullview-packages [1...1024]  exit all  configure interface port uni:1/1/1/1/1/1/3  admin-up  exit all  **5. Khai báo dịch vụ IPV cho cổng bridge LAN 4**  configure qos  interface 1/1/1/1/1/1/4  upstream-queue 5  bandwidth-profile name:UP\_MULTISCREEN\_6M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/1/4  max-unicast-mac 20  vlan-id 2502  tag untagged  vlan-scope local  network-vlan 2502  max-unicast-mac 10  exit  pvid 2502  exit all  configure igmp channel vlan:1/1/1/1/1/1/4:2502  max-num-group 40  configure igmp channel vlan:1/1/1/1/1/1/4:2502 fullview-packages [1...1024]  exit all  configure interface port uni:1/1/1/1/1/1/4  admin-up  exit all  **6. Khai báo TR069**  configure qos  interface 1/1/1/1/1/10/1  upstream-queue 5  bandwidth-profile name:UP\_TR69\_2M  bandwidth-sharing no-sharing  exit all  configure bridge port 1/1/1/1/1/10/1  max-unicast-mac 20  vlan-id 2501  tag single-tagged  configure interface port uni:1/1/1/1/1/10/1  admin-up  exit all |