

XGS-ONU-25-20NI Configuration Guide

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CONFIGURATION GUIDE

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Introduction

This manual provides a quick guide for users to know CLI of XGSPON Stick It is useful for local support test with OLT and doing some trouble shootings.

Overview

This manual is organized as following:

Section 1: Explain how to TELNET

Section 2: Provide the way to change local access settings

Section 3: List the most common commands

Section 4: Explain local software image upgrade and switch

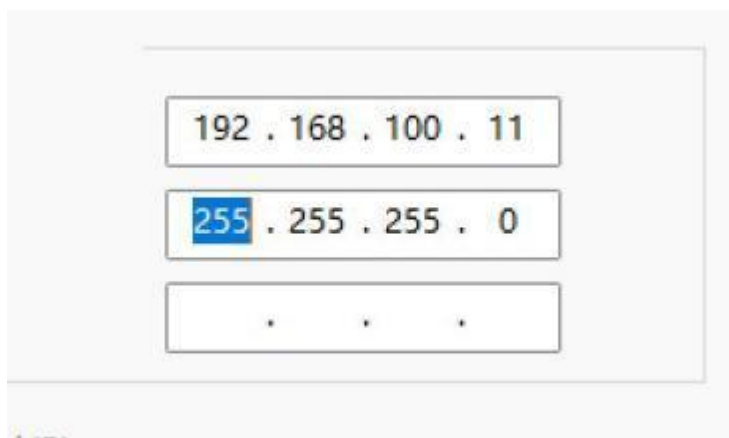
Section 5: Provide the way to OMCI mib command

Section 6: Common service debug information

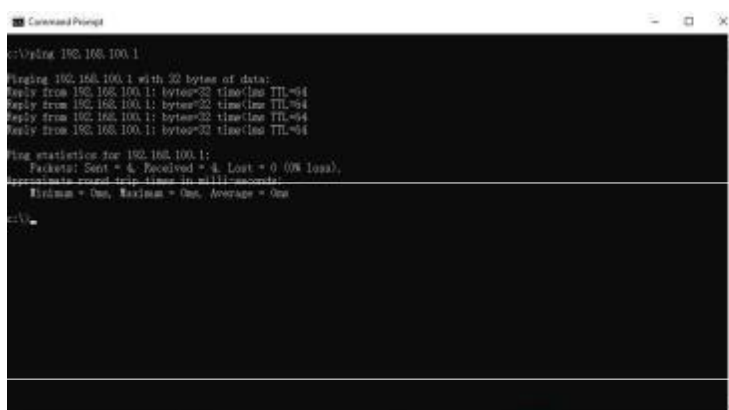
1. How to telnet

PC connection ont port 1 with cable , The manager IP Addr is :192.168.100.1

Steps 1 Set local IP address manually on laptop



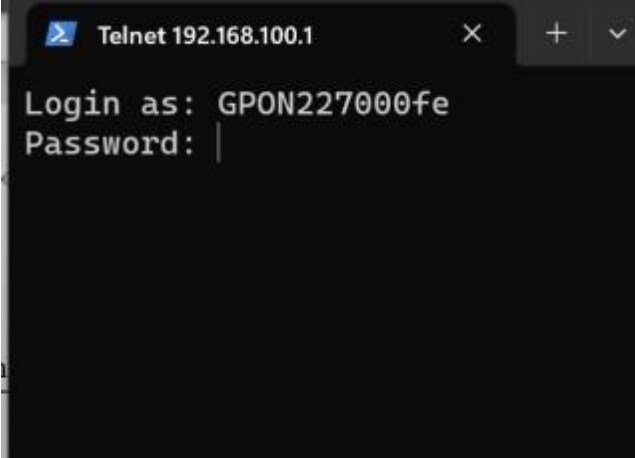
Steps 2 Ping Default Gateway IP 192.168.100.1



Steps 3 Use telnet tool to generate login password.

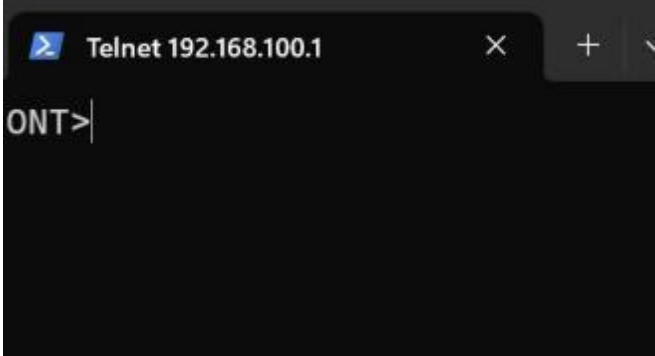


Steps 4 Telnet to ONT, username is “GPON227000fe”



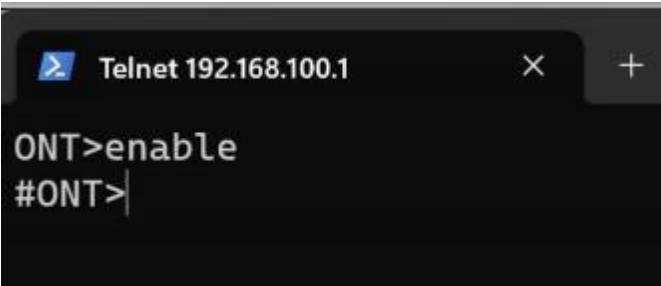
```
Telnet 192.168.100.1
Login as: GPON227000fe
Password: |
```

Steps 5 The password is obtained telnet tool “mbdu7pVX”



```
Telnet 192.168.100.1
ONT>|
```

Steps 6 Input “enable” to enter configure mode



```
Telnet 192.168.100.1
ONT>enable
#ONT>|
```

2. Ont local commands

Here we list the most common commands for testing and troubleshooting.

2.1 Hardware and Software information

2.1.1 Software version

The command to check ont version

[Command]

/ system/ ontver

Example:

```
#ONT>/system/ontver
OntSwVer : R4.4.20.016
#ONT>
```

2.1.2 local ont series number command

- **Check local ont series number**

The command to read ont series number

[Command]

/ system/ misc/ eqsn get

Example:

```
#ONT/system/misc>eqsn get
eqsn: FTRO20210714
```

- **Set local ont series number**

The command to write ont series number

[Command]

/ system/ misc/ eqsn set //comment: eqsn setting is like"FTRO12345678"
format

Example:

```
#ONT/system/misc> eqsn set "FTRO12345678"
```

2.1.3 Stopreboot command

When ont abnormal, ont reboot all the time, the command can interrupt to reboot

[Command]

ONT/ system/ misc> stopreboot

Example:

```
#ONT/system/misc>stopreboot
Stop reboot command OK
```

2.2 Optics Parameters

2.2.1 Optics monitoring information

To check optics monitor info

[Command]

/system/misc/show trans state

Example:

```
# ONT/system/misc> show trans state
```

```
Power          : 3V3 (3.3)
```

```
Temperature    : 45.0 C
```

```
Data Rx Power  : -14.3 dBm
```

```
Data Tx Power  : 7.9 dBm
```

```
APD Prot       : No
```

```
Data Tx bias   : 12.8 mA
```

```
#ONT/system/misc>
```

2.3 PON and Service Connection

2.3.1 Link status

The command to check ont link status

[Command]

/traffic/pon/show link

Example:

```
# ONT/traffic/pon> show link
```

```
----- LINK STATE -----
```

```
Link State:          ACTIVE
```

```
Operation State Machine: OPERATION (O5)
```

```
----- STATE END ---
```

2.3.2 ONU information

The command to check onu info

[Command]

/traffic/pon/show onu

Example:

```
#ONT/traffic/pon>show onu
```

```
----- ONU INFO -----
```

```
Onu id 256
```

```
sdThreshold:  0
```

```
sfThreshold:  0
```

```
#ONT/traffic/pon>
```


2.3.4 Service Connection

The check service connection info about bridge port

[Command]

/ traffic/ omci/ show connection all

Example:

```
# ONT/ traffic/ omci> show connection all
```

```
----- Connection ID = 0 -----
```

Completed = 1, Bridge Id = 0x0a01, valid = 1

Total Port Num = 3

Wan Port Num = 2

Unicast Port Num = 0

Multicast Port Num = 0

Broadcast Port Num = 1

802.1p Port Num = 1

Lan Port Num = 1

Ipghost Port Num = 0

Eth Port Num = 1

EthFlow Port Num = 0

VirUni Port Num = 0

Bridge Port Id = 0xa10b, type = BRCT, TP Ptr = 0xffffd

Pon Info:

lWtp	GemPort	DsQ	UsQ	Mc	Dir	DFlow	CPUQ	UFlow	Type	Tcont
0xffffd	0xffffd	0x0000	0x0000	00	002	00000	0000	00000	ETH	

Bridge Port Id = 0xa102, type = 802.1p, TP Ptr = 0xa102

802.1 P Info:

lWtp	GemPort	DsQ	UsQ	Mc	Dir	DFlow	CPUQ	UFlow	Type	Tcont
0x0402	0x0402	0x0000	0x8000	00	003	00001	0000	00001	ETH	0x0403
0x0402	0x0402	0x0000	0x8000	00	003	00001	0000	00001	ETH	0x0403
0x0402	0x0402	0x0000	0x8000	00	003	00001	0000	00001	ETH	0x0403
0x0402	0x0402	0x0000	0x8000	00	003	00001	0000	00001	ETH	0x0403
0x0402	0x0402	0x0000	0x8000	00	003	00001	0000	00001	ETH	0x0403
0x0402	0x0402	0x0000	0x8000	00	003	00001	0000	00001	ETH	0x0403
0x0402	0x0402	0x0000	0x8000	00	003	00001	0000	00001	ETH	0x0403
0x0402	0x0402	0x0000	0x8000	00	003	00001	0000	00001	ETH	0x0403

Bridge Port Id = 0x0a01, type = ETH, TP Ptr = 0x0a01, PortMode = BRIDGE

```
----- END [0] -----
```

```
# ONT/ traffic/ omci>
```

Service Connection(Debug Mode)

This command show the configuration of EMR from MEC

[Command]

/ traffic/ omci/ debug/ showemrcfg [Connection ID]

Example:

```
# ONT/ traffic/ omci/ debug> showemrcfg 0
```

Connection ID = 0

UNI Configuration:

```
< SLOT = 1, PORT = 1, TYPE = 1 >
```

** Vlan Op:

US MODE: ASIS

OLD (NO_VID, ALL_ PRI) -> NEW (NO_VID, ALL_ PRI)

DS MODE: ASIS

OLD (NO_VID, ALL_ PRI) -> NEW (NO_VID, ALL_ PRI)

US MODE: ASIS

OLD (ALL_VID, ALL_ PRI) -> NEW (ALL_VID, ALL_ PRI)

DS MODE: ASIS

OLD (ALL_VID, ALL_ PRI) -> NEW (ALL_VID, ALL_ PRI)

** Vlan Filter:

Mode : Forward all

Number [2]: (ALL_VID, ALL_ PRI) (NO_VID, ALL_ PRI)

** MC Cfg : usFlow 65535

US Mode : Unknown

US TCI : 0x0

DS MC Mode : ASIS

DS MC TCI : 0x0

DS IGMP Mode : Unknown

DS IGMP TCI : 0x0

WAN Configuration:

```
< Ds Flow Id = 2, Us Flow Id = 65535, Serv Type = ETH | >
```

** Vlan Op:

US MODE: Replace VID with the old PRI

OLD (0x2BE, ALL_ PRI) -> NEW (0x2BE, ALL_ PRI)

DS MODE: Replace VID with the old PRI

OLD (0x2BE, ALL_ PRI) -> NEW (0x2BE, ALL_ PRI)

** Vlan Filter:

Mode : Forward all

Number [2]: (ALL_VID, ALL_ PRI) (NO_VID, ALL_ PRI)

```
< Ds Flow Id = 1, Us Flow Id = 1, Serv Type = ETH | >
```

** Vlan Op:

US MODE: Replace VID with the old PRI

OLD (0x2BE, ALL_ PRI) -> NEW (0x2BE, ALL_ PRI)

DS MODE: Replace VID with the old PRI

OLD (0x2BE, ALL_ PRI) -> NEW (0x2BE, ALL_ PRI)

** Vlan Filter:

Mode : Forward all

Number [3]: (0x2BE, ALL_ PRI) (NO_VID, ALL_ PRI) (0x0, ALL_ PRI)

2.3.5 Performance counters

2.3.5.1 Gem port counter

The information of RX/TX packets in GemPort

[Command]

/traffic/pon/show pm gem all

Example:

```
# ONT/traffic/pon> show pm gem all
```

```
-----port 1034 flow 0001-----
```

```
RX GEM frames      :      611
RX GEM bytes       :    243164
Tx GEM frames      :      638
Tx GEM bytes       :    225814
```

```
-----port 1035 flow 0002-----
```

```
RX GEM frames      :        0
RX GEM bytes       :        0
Tx GEM frames      :        8
Tx GEM bytes       :     590
```

```
-----port 1036 flow 0003-----
```

```
RX GEM frames      :        3
RX GEM bytes       :     216
Tx GEM frames      :     54
Tx GEM bytes       :    3804
```

```
-----port 65533 flow 0004-----
```

```
RX GEM frames      :     751
RX GEM bytes       :   1 12106
Tx GEM frames      :        0
Tx GEM bytes       :        0
```

```

-----port 65534 flow 0030-----
RX GEM frames      :      153448
RX GEM bytes       :      196619932
Tx GEM frames      :           0
Tx GEM bytes       :           0
#ONT/traffic/pon>

```

2.4 Ethernet service

2.4.1 UNI port information

To check Ethernet port physical link

[Command]

```
#ONT/traffic/eth>show pack
```

```
build time Dec 26 2022: 06:45:47
```

```

----- Line Pack -- PWR 0X0      --
Line Slot 10, NumOfPorts 1, type 49, subtype 75, state 2
----- Configuration -----
port | enable | loop | Mode | RL Type | RL Us Rate | RL Ds Rate |
1    Yes  No   Auto   0    0    0

```

```

----- Status -----
1) link state: Up, link mode: 1G Full

```

```

----- Bridge Pack -----
Type:      75
State:     2
MAC Table: 0
MAC Aging: 0
MTU:       0

```

```

----- Chip Data -----
eth Fd:      6
port Mask:   0x0018
type         28

```

```
***** DEBUG INFO *****
```

```

    EmrLogId : 5
    EmrAdminEn : 0
    EmrbeInited : 1
    EmrDumpConn : 0
    EmrPwrShedEn : 0x0
    EmrConnItemNum : 2
    EmrUsDsReverseEn : 1
    EmrConnAllVidCheck : 0

```

```

EmrMcastGemVlanOp En : 1
  g EmrSaveConnItemEn : 1
  g EmrMcastCrossVlanEn : 1
EmrUniExtractPriMatch : 1
EMR_DRV_PACK_DUMP_ITEM_EN : 0
*****
#ONT/traffic/eth>
#ONT/traffic/eth>

```

2.4.2 IGMP information

• IGMP Domain

To check which groups have been joined at each UNI:

[Command]

/ traffic/ eth/ show igmp domain

Example:

ONT/ traffic/ eth> show igmp domain

```

p Domain Id 0 auto:0 vid 0x000 pri:0 Op:unknown    cfgver IGMP_V3
Stb  Query v2Exist Querier  Snoop Fast Host  Port  Proxy
Ver  Ver   Present          EN  LEAVE Track  Mask  Mode

```

```

.....
Unknown Unknown 0    0x00000000 1  1  1  0000003f DISABLE
wanIp    wanMac    lanIp    lanMac
0x00000000 0x000000000000 0x00000000 0x000000000000

```

```

      QRV      QQIC(ms) LMQL(ms) MaxResp(ms)
v2DefCfg 2      125000 1000    10000
v2RunCfg 0       0      0      0

```

```

v3DefCfg 2      125000 1000    10000
v3RunCfg 0       0      0      0
v3GSCfg 0       0      0      0

```

```

pDomain Id 1193 auto:0 vid 0x4a9 pri:0 Op:add & repri  cfgver IGMP_V3
Stb  Query v2Exist Querier  Snoop Fast Host  Port  Proxy
Ver  Ver   Present          EN  LEAVE Track  Mask  Mode

```

```

.....
IGMP_V2 IGMP_V3 33    0x0101a8c0 1  1  1  0000003f PROXY_RG
wanIp    wanMac    lanIp    lanMac
0x6f6f6f82 0x102012301032 0xc0a80101 0x102012301014

```

```

mldWanIp: 000.000.000.000
mldQuerierIp: 000.000.000.000

```

QRV QQIC(ms) LMQL(ms) MaxResp(ms)

v2DefCfg 2 125000 1000 10000

v2RunCfg 0 0 0 0

v3DefCfg 2 125000 1000 10000

v3RunCfg 2 125000 0 10000

v3GSCfg 0 0 0 0

index Group(all 11) | portmask | age (sec)

[000] ff02:0000:0000:0000:0000:0000:0000:000c 0x0000000b IP
0x0000000b 238

[001] ff02:0000:0000:0000:0000:0001:ffc5:c826 0x00000002 IP
0x00000002 104

[002] ff02:0000:0000:0000:0000:0001:ffce:4bfd 0x00000002 IP
0x00000002 33

[003] ff02:0000:0000:0000:0000:0001:ff56:b804 0x00000008 IP
0x00000008 236

[004] 224.000.000.252 0x00000008 IP 0x00000008 237

[005] 239.255.255.250 0x0000000b IP 0x0000000b 237

[006] ff02:0000:0000:0000:0000:0000:0000:00fb 0x0000000b IP
0x0000000b 237

[007] 239.002.001.001 0x00000008 IP 0x00000008 241

[008] ff02:0000:0000:0000:0000:0001:ff5b:63fe 0x00000001 IP
0x00000001 239

[009] ff02:0000:0000:0000:0000:0000:0001:0003 0x00000008 IP
0x00000008 236

[010] 224.000.000.251 0x0000000b IP 0x0000000b 241

• IGMP statistic

To check RX/TX IGMP packet

[Command]

#ONT/traffic/eth>show igmp pm

===== IGMP Domain(0) Counters =====

===== IGMP Domain(1193) Counters =====

+++++ wan port counters +++++

Rx v3GeneralQuery : 10

Tx v3GeneralQuery : 10

Tx MLDv2GeneralQuery : 10

+++++

LanPortId 0 | 1 | 2 | 3

Rx MLDV1Join	0	1	0	0
Tx MLDV1Join	0	2	0	0
Tx MLDV1done	0	1	0	0
Rx MLDV2Join	29	17	0	37
Tx MLDV2Join	3	0	0	2
Rx MLDV2done	0	4	0	0
Tx MLDV2done	0	1	0	0
TxV2Join	1	1	0	6
RxV3Join	18	14	0	34
TxV3Join	6	0	0	5
RxV3Leave	0	4	0	0
GroupErr	0	2	0	0

#ONT/traffic/eth>show IGMP uni

To check IGMP all UNI configuration

[Command]

/ traffic/ eth/ show igmp uni

Example:

ONT/ traffic/ eth> show igmp uni

===== Domain 0 Port config =====

lport 0 | maxGroup 128 | curGroup 0 | aclNum 0
| maxBw 0 | exceedDeny 0 | curBw 0

lport 1 | maxGroup 128 | curGroup 0 | aclNum 0
| maxBw 0 | exceedDeny 0 | curBw 0

lport 2 | maxGroup 128 | curGroup 0 | aclNum 0
| maxBw 0 | exceedDeny 0 | curBw 0

lport 3 | maxGroup 128 | curGroup 0 | aclNum 0
| maxBw 0 | exceedDeny 0 | curBw 0

lport 4 | maxGroup 128 | curGroup 0 | aclNum 0
| maxBw 0 | exceedDeny 0 | curBw 0

lport 5 | maxGroup 128 | curGroup 0 | aclNum 0
| maxBw 0 | exceedDeny 0 | curBw 0

===== Domain 1 193 Port config =====

lport 0 | maxGroup 128 | curGroup 5 | aclNum 0
| maxBw 0 | exceedDeny 0 | curBw 0

lport 1 | maxGroup 128 | curGroup 0 | aclNum 0
| maxBw 0 | exceedDeny 0 | curBw 0

lport 2 | maxGroup 128 | curGroup 0 | aclNum 0
| maxBw 0 | exceedDeny 0 | curBw 0

```
lport 3 | maxGroup 128 | curGroup 8 | aclNum 0
      | maxBw 0 | exceedDeny 0 | curBw 0
```

```
lport 4 | maxGroup 128 | curGroup 0 | aclNum 0
      | maxBw 0 | exceedDeny 0 | curBw 0
```

```
lport 5 | maxGroup 128 | curGroup 0 | aclNum 0
      | maxBw 0 | exceedDeny 0 | curBw 0
```

```
#ONT/traffic/eth>
```

2.4.3 Performance counter

• Gem counter

The show gem port PM data

[Command]

```
/traffic/ omci/ show pm gem
```

Example:

```
# ONT/ traffic/ omci> show pm gem
```

```
----- gem port cfg-----
```

```
enable      : 0
gem port id : 0xfffe
pm data me id: 0xfffe
```

```
-----
Index:      0
lost packets : 0x00000000
misinsert packets: 0x00000000
rx packets   : 0x00000000
rx blocks    : 0x00000000
tx blocks    : 0x00000000
impaired blocks : 0x00000000
tx packets   : 0x00000000
```

```
-----
enable      : 0
gem port id : 0x40a
pm data me id: 0x40a
```

```
-----
Index:      1
lost packets : 0x00000000
misinsert packets: 0x00000000
rx packets   : 0x00000000
rx blocks    : 0x00000000
tx blocks    : 0x00000000
```



```

impaired blocks : 0x00000000
tx packets      : 0x00000000

```

```

enable          : 0
gem port id     : 0x40b
pm data me id: 0x40b

```

```

Index:          2
lost packets    : 0x00000000
misinsert packets: 0x00000000
rx packets      : 0x00000000
rx blocks       : 0x00000000
tx blocks       : 0x00000000
impaired blocks : 0x00000000
tx packets      : 0x00000000

```

```

enable          : 0
gem port id     : 0x40c
pm data me id: 0x40c

```

```

Index:          3
lost packets    : 0x00000000
misinsert packets: 0x00000000
rx packets      : 0x00000000
rx blocks       : 0x00000000
tx blocks       : 0x00000000
impaired blocks : 0x00000000
tx packets      : 0x00000000

```

```

enable          : 0
gem port id     : 0xfffd
pm data me id: 0xfffd

```

```

Index:          4
lost packets    : 0x00000000
misinsert packets: 0x00000000
rx packets      : 0x00000000
rx blocks       : 0x00000000
tx blocks       : 0x00000000
impaired blocks : 0x00000000
tx packets      : 0x00000000

```

ALU pm data me id: 0xffff

```

.....
lost DS packets : 0x00000000
lost US packets : 0x00000000
rx packets      : 0x00000000
rx blocks       : 0x00000000
tx blocks       : 0x00000000
impaired blocks : 0x00000000
tx packets      : 0x00000000
rx bad headers  : 0x00000000

```

ALU47 pm data me id: 0xffff

```

.....
lost DS packets : 0x00000000
lost US packets : 0x00000000
rx packets      : 0x00000000
rx blocks       : 0x00000000
tx blocks       : 0x00000000
impaired blocks : 0x00000000
tx packets      : 0x008x
rx bad headers  : 0x00000000

```

Arris pm data me id: 0xffff

```

.....
lost packets    : 0x00000000
rx packets      : 0x0000000000000000
rx blocks       : 0x0000000000000000
tx blocks       : 0x0000000000000000
impaired blocks : 0x00000000
tx packets      : 0x0000000000000000

```

GAL TDM pm data me id: 0xffff

```

.....
GemFrmLoss      : 0x00000000
BufUnderflows   : 0x00000000
BufOverflows    : 0x00000000

```

-----gem port cfg end-----

ONT/ traffic/ omci>

• Eth counter

The show eth PM data

[Command]

/traffic/omci/show pm uni 10 1

Example:

ONT/traffic/eth> show pm uni 10 1

UNI slot 10 port 1 PM

====Counters for phyport[4]=====

```
ifInOctets      :      48139
ifInUcastPkts   :        608
ifIn MulticastPkts :        46
ifOutOctets     :      37430
ifOutUcastPkts  :        373
Tx Pkts64Octets :        211
Tx Pkts65to127Octets :      149
Tx Pkts128to255Octets :        2
Tx Pkts256to511Octets :        2
Tx Pkts512to1023Octets :        2
Tx Pkts1024to1518Octet :        7
Rx Pkts64Octets :        600
Rx Pkts65to127Octets :        16
Rx Pkts128to255Octets :        38
```

#ONT/traffic/eth>

2.5 System Log

2.5.1 PON manager

To check PON implementation

[Command]

/system/log/show pmr

Example:

ONT/ system/ log> show pmr

Log: pmr

```
tick upTime1      file line level message
c7f3c315      20 pmr_main_gpon.c 1 14 4 PMR_ Init OK
c7f3c6e 1      21 pmr_handler_gpo 423 4 rcv VOS_TIME_OUT
c7f3c6e2      21 pmr_handler_gpo 454 4 rcv
MEC_MSG_PACK_MGR_READY_ACK
c7f3c6e2      21 pmr_handler_gpo 457 4 kill Init timer [1], ret=[0]
c7f3d3c4      25 pmr_handler_gpo 555 4 rcv MEC_MSG_CFG_PACK_TYPE,
result = 0, hwType[62] MappingMode 1
c7f3d3c4      25 pmr_data_cortin 296 4 Open evt Fd[10], cnt[0]
c7f3e045      28 pmr_data_cortin 90 4 DBACfged 0
c7f3e045      28 pmr_handler_gpo 391 4 rcv PON_MSG_CFG_DBA_ENABLE,
result = 0
c7f3e051      28 pmr_handler_gpo 632 4 rcv PON_MSG_CFG_SDSF, result =
0
c7f3e0f3      28 pmr_data_cortin 163 4 report state transtion: Unknown -->
Init
c7f3e0f3      28 pmr_pack_cortin 293 1 Pon drv active ok
```

```

c7f3e0f4    28 pmr_handler_gpo 589    4 rcv MEC_MSG_ACTIVATE_PACK,
result = 0
c7f3e6c7    29 pmr_event_corti 303    4 state transtion: 1 --> 3 event[assign
onu_id message]
c7f3e6c7    29 pmr_data_cortin 163    4 report state transtion: Init -->
Preparing
c7f3e6f5    2a pmr_handler_gpo 1000    4 rcv PON_MSG_LINK_ACTIVE, result
= 0
c7f3e773    2a pmr_handler_gpo 495    4 Re-configure Pack slot = 128,
actualType = 62
c7f3e7ec    2a pmr_data_cortin 90    4 DBACfged 0
c7f3e7ec    2a pmr_handler_gpo 391    4 rcv PON_ MSG_CFG_ DBA_ ENABLE,
result = 0
c7f3e7f8    2a pmr_handler_gpo 632    4 rcv PON_MSG_CFG_SDSF, result = 0
c7f3e8af    2a pmr_handler_gpo 567    4 Re-act Pack slot = 128
c7f3e950    2a pmr_handler_gpo 1000    4 rcv PON_MSG_LINK_ACTIVE, result
= 0
c7f42982    3b pmr_event_corti 224    4 default AllocId MSG: allocId = 0x0,
status = 0
c7f42986    3b pmr_event_corti 303    4 state transtion: 3 --> 4 event[assign
onu_id message]
c7f42ae9    3b pmr_event_corti 303    4 state transtion: 4 --> 5 event[ranging
time message]
c7f42ca4    3b pmr_data_cortin 163    4 report state transtion: Preparing -->
Ready
c7f42ca5    3b pmr_event_corti 351    1 recv omci, force report state change
oldState 3
c7f42e64    3c pmr_handler_gpo 956    4 rcv MEC_MSG_PON_LINK_UP,
result = 0
c7f42f9d    3c pmr_handler_gpo 936    4 rcv MEC_MSG_CFG_RESET, result =
0
c7f43452    3d pmr_event_corti 151    4 report assign Alloc-ID = 1025, Status
= ALLOCATE
c8008c5c    3d pmr_handler_gpo 632    4 rcv PON_MSG_CFG_SDSF, result =
0
c8008c73    3d pmr_handler_gpo 632    4 rcv PON_MSG_CFG_SDSF, result =
0
c8008cf9    3e pmr_handler_gpo 796    4 rcv PON_MSG_CFG_TCONT, allocId
= 65535 type =
1025 mgmt = 0 enable = 0 result = 1
c8008d12    3e pmr_handler_gpo 796    4 rcv PON_MSG_CFG_TCONT, allocId
= 1025 type = 1 mgmt = 2 enable = 1 result = 0
c8008d7d    3e pmr_handler_gpo 689    4 rcv PON_MSG_CFG_US_FLOW act
Rem, tcontQ = 7, flow = 1,gemport = 1034 result = 2
c8008d88    3e pmr_handler_gpo 689    4 rcv PON_MSG_CFG_US_FLOW act
Add, tcontQ = 7, flow = 1,gemport = 1034 result = 0

```

```

c8008d91    3e pmr_handler_gpo 663    4 rcv PON_MSG_CFG_DS_FLOW act
Rem, result = 1
c8008dcd    3e pmr_handler_gpo 663    4 rcv PON_ MSG_CFG_DS_ FLOW act
Add, result = 0
c8008dce    3e pmr_handler_gpo 689    4 rcv PON_ MSG_CFG_US_ FLOW act
Rem, tcontQ = 3, flow = 2,gemport = 1035 result = 2
c8008dd8    3e pmr_handler_gpo 689    4 rcv PON_ MSG_CFG_US_ FLOW act
Add, tcontQ = 3, flow = 2,gemport = 1035 result = 0
c8008de2    3e pmr_handler_gpo 663    4 rcv PON_ MSG_CFG_DS_ FLOW act
Rem, result = 1
c8008e1d    3e pmr_handler_gpo 663    4 rcv PON_ MSG_CFG_DS_ FLOW act
Add, result = 0
c8008e1f    3e pmr_handler_gpo 689    4 rcv PON_ MSG_CFG_US_ FLOW act
Rem, tcontQ = 1, flow = 3,gemport = 1036 result = 2
c8008e29    3e pmr_handler_gpo 689    4 rcv PON_ MSG_CFG_US_ FLOW act
Add, tcontQ = 1, flow = 3,gemport = 1036 result = 0
c8008e33    3e pmr_handler_gpo 663    4 rcv PON_ MSG_CFG_DS_ FLOW act
Rem, result = 1
c8008e6e    3e pmr_handler_gpo 663    4 rcv PON_ MSG_CFG_DS_ FLOW act
Add, result = 0
c8008f1a    3e pmr_handler_gpo 663    4 rcv PON_ MSG_CFG_DS_ FLOW act
Rem, result = 1
c8008f33    3e pmr_handler_gpo 663    4 rcv PON_ MSG_CFG_DS_ FLOW act
Add, result = 0
c8009032    3e pmr_handler_gpo 663    4 rcv PON_ MSG_CFG_DS_ FLOW act
Rem, result = 1
c800904b    3e pmr_handler_gpo 663    4 rcv PON_ MSG_CFG_DS_ FLOW act
Add, result = 0
c80091d4    3f pmr_handler_gpo 796    4 rcv PON_ MSG_CFG_TCONT, allocld
= 1025 type = 1 mgmt = 2 enable = 1 result = 18
#ONT/system/log>

```

2.5.2 PON manager driver

To check PN manager driver

[Command]

/system/log/show pmr_drv

Example:

#ONT/system/log>show pmr_drv

Log: pmr_drv

tick	upTime1	file	line	level	message
c7f3d2e1	24	pmr_pack_cortin	244		
c7f3d3a9	25	pmr_pack_cortin	253	4	pon device is opened. fd[9], cnt[0]
c7f3d3c2	25	pmr_pack_cortin	287	4	GPON driver init OK, pti[0xaa]

```
c7f3d3c4    25  pmr_pack_cortin 396    4 serial number: 46 54 52 30 20 21
07 14
c7f3d3c4    25  pmr_pack_cortin 421    4 password: 00 00 00 00 00 00 00 00
00 00
c7f3e051    28  pmr_pack_cortin 441    1 Succeed to SD threshold 9
c7f3e051    28  pmr_pack_cortin 462    1 Succeed to SF threshold 5
c7f3e6c4    29  pmr_pack_cortin 235    4 Disable Tx Laser Power Supply
when SN-Disable
```

2.5.3 Misc manager

To check misc implementation

[Command]

/ system/ log/ show mmr

Example:

ONT/ system/ log> show mmr

Log: mmr

```
      tick upTime1          file line level message
c800ac5b    46  mmr_led_cfg.c 1121    4 mmr_LedHandleEvent: event(800)
c800ac5b    46  mmr_led_cfg.c 1121    4 mmr_LedHandleEvent:
event(100000000000000080)
c800ac5c    46  mmr_led_cfg.c 1121    4 mmr_ LedHandleEvent:
event(100000000000000100)
c800ac5c    46  mmr_led_cfg.c 737    4 mmr_LedCfgSetState: type(phone)
state(goff) c800ac5d    46  mmr_led_cfg.c 1121    4 mmr_LedHandleEvent:
event(4000000000000000)
c800ac5d    46  mmr_led_cfg.c 1121    4 mmr_ LedHandleEvent:
event(100000000000000100)
c800ac5d    46  mmr_led_cfg.c 737    4 mmr_ LedCfgSetState: type(phone)
state(goff)
c800ac5e    46  mmr_led_cfg.c 1121    4 mmr_ LedHandleEvent:
event(100000000000000100)
c800ac5e    46  mmr_led_cfg.c 737    4 mmr_ LedCfgSetState: type(phone)
state(goff)
c800ac5e    46  mmr_led_cfg.c 1121    4 mmr_LedHandleEvent:
event(100000000000000100)
```

2.5.4 Ethernet manager

To check Ethernet implementation

[Command]

/ system/ log/ show emr

Example:

ONT/ system/ log> show emr

Log: emr

```

tick upTime1          file line level message
c8009325      3f      emr_main.c 7847      4 Send ACK message to 0x90009,
result -1, send 0
c800932c      3f      emr_main.c 7764      4 EMR_MSG_CFG_UNI_PKT_LIMIT
c800932c      3f      emr_main.c 7288      4 Config SLOT 14 PORT 1,
uniPktLimit. dhcp 10, uniPktLimit. igmp 16, uniPktLimit. arp 10

c800932c      3f      emr_main.c 7847      4 Send ACK message to 0x9000b, result
3, send 0
c800ab3a      45      emr_main.c 7770      4 EMR_MSG_CFG_L3_UNI_IGS
c800ab3a      45      emr_main.c 6426      1 mldQuerierIp error:
c800ab3a      45      emr_main.c 6433      1 mldQuerierIp error:
c800ab49      45      emr_igs.c 873      4 lport1 action1 vlan1193 ver3,
hostTrack1, funcMode3 imLeave3 wip6f6f6f9a queryc0a80101
c800ab49      45      emr_igs.c 878      4 cfg igmp : robust 2, qryInt 125,
qryResInt 100, maxMC 128, lastMem 10 ret 0
c800ab49      45      emr_igs.c 309      4 lport 1 action 1 vlan 1 193 maxGroup
128 maxBw 0 exceedDeny 0 rangCnt 0 multicastcnt 0

c800ab58      45      emr_pack_cortin 2721      4 Config RG Igmp Snooping
paramter. ret 0
c800ab59      45      emr_pack_cortin 2704      4 Configure RG lport 1 U/S flow for
IGMP wan 3 wanService 0x4 service 1 op 1 newOuterTci 0x4a9/0x0
c800ab59      45      emr_main.c 7847      4 Send ACK message to 0x9002f,
result 0, send 0
c800ab6c      45      emr_main.c 7770      4 EMR_MSG_CFG_L3_UNI_IGS
c800ab6c      45      emr_main.c 6426      1 mldQuerierIp error:
c800ab6c      45      emr_main.c 6433      1 mldQuerierIp error:
c800ab7a      45      emr_igs.c 873      4 lport2 action1 vlan1193 ver3,
hostTrack1, funcMode3 imLeave3
wip6f6f6f9a queryc0a80101
c800ab7a      45      emr_igs.c 878      4 cfg igmp : robust 2, qryInt 125,
qryResInt 100, maxMC 128, lastMem 10 ret 1
c800ab7a      45      emr_igs.c 309      4 lport 2 action 1 vlan 1 193 maxGroup
128 maxBw 0 exceedDeny 0 rangCnt 0 multicastcnt 0

```

2.5.5 Downstream ploam

To check downstream ploam implementation

[Command]

/ system/ log/ show ds_ploam

Example:

ONT/ system/ log> show ds_ploam

Log: ds_ploam

```

tick upTime1          file line level message
c7f42982      3b      pmr_event_corti 255      1 g PmrOntDefTcont = 0x0

```

```

c7f42982 3b pmr_event_corti 417 4 ONU-ID=0x3ff, Type=Assign ONU-
ID[0x03]:
c7f42982 3b pmr_event_corti 422 4 00 00 46 54 52 30 20 21 07 14
01 00
c7f42982 3b pmr_event_corti 422 4 00 00 00 00 00 00 00 00 00 00
00 00
c7f42982 3b pmr_event_corti 422 4 00 00 00 00 00 00 00 00 00 00
00 00
c7f42ae5 3b pmr_event_corti 417 4 ONU-ID=0x00, Type=Ranging
Time[0x04]:
c7f42ae5 3b pmr_event_corti 422 4 03 00 09 70 31 00 00 00 00 00
00 00
c7f42ae5 3b pmr_event_corti 422 4 00 00 00 00 00 00 00 00 00 00
00 00
c7f42ae5 3b pmr_event_corti 422 4 00 00 00 00 00 00 00 00 00 00
00 00
c7f42b54 3b pmr_event_corti 417 4 ONU-ID=0x00, Type=Key
Control[0x0d]:
c7f42b54 3b pmr_event_corti 422 4 00 00 01 10 00 00 00 00 00 00
00 00
c7f42b54 3b pmr_event_corti 422 4 00 00 00 00 00 00 00 00 00 00
00 00
c7f42b54 3b pmr_event_corti 422 4 00 00 00 00 00 00 00 00 00 00
00 00
c7f42b54 3b pmr_event_corti 417 4 ONU-ID=0x00, Type=Key
Control[0x0d]:
c7f42b54 3b pmr_event_corti 422 4 00 00 01 10 00 00 00 00 00 00
00 00
c7f42b54 3b pmr_event_corti 422 4 00 00 00 00 00 00 00 00 00 00
00 00
c7f42b54 3b pmr_event_corti 422 4 00 00 00 00 00 00 00 00 00 00
00 00
c7f42b54 3b pmr_event_corti 417 4 ONU-ID=0x00, Type=Key
Control[0x0d]:
c7f42b54 3b pmr_event_corti 422 4 00 01 01 10 00 00 00 00 00 00
00 00
c7f42b54 3b pmr_event_corti 422 4 00 00 00 00 00 00 00 00 00 00
00 00
c7f42b55 3b pmr_event_corti 422 4 00 00 00 00 00 00 00 00 00 00
00 00
c7f43451 3d pmr_event_corti 271 1 AllocId MSG: allocId = 0x401, status
= 0
c7f43452 3d pmr_event_corti 417 4 ONU-ID=0x00, Type=Assign Alloc-
ID[0x0a]:

```



```

c7f43452    3d pmr_event_corti 422    4      04 01 01 00 00 00 00 00 00 00
00 00
c7f43452    3d pmr_event_corti 422    4      00 00 00 00 00 00 00 00 00 00
00 00
c7f43452    3d pmr_event_corti 422    4      00 00 00 00 00 00 00 00 00 00
00 00

```

2.5.6 OMCI log

To check the OMCI message between OLT and ONT.

[Command]

/ system/ log/ show omci

Example:

ONT/ system/ log> show omci

Log: omci

tick	upTime1	file	line	level	message
c7f433b6	3d	omci_msg.c	178	4	01 15 80 6f ff f0 00 0c cc 02 ee 00 00 00 00 80
c7f433b6	3d	omci_msg.c	184	4	06 00 07 00 00 00 01 00 00 00 00 00 00 00 00
c7f433b6	3d	omci_msg.c	187	4	zero: 0x0, len: 0x28 crc: 0xdddd2b809
c7f433b7	3d	omci_main.c	107	4	Receive OMCI message
c7f433b7	3d	omci_msg.c	172	4	tick: 0x11ea06ab PRI: 0, TI: 0x1358, DID: 10, DB: 0, AR: 1, AK: 0, MT: 14, Class: 2, inst: 0x0
c7f433b8	3d	omci_msg.c	178	4	00 ee 00 00 00 00 00 00 00 00 00 00 00 00 00
c7f433b8	3d	omci_msg.c	184	4	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
c7f433b8	3d	omci_msg.c	187	4	zero: 0x0, len: 0x28 crc: 0x9ef9315
c7f433b8	3d	omci_msg.c	551	4	Send out OMCI msg
c7f433b8	3d	omci_msg.c	172	4	tick: 0x11ea0828 PRI: 0, TI: 0x1358, DID: 10, DB: 0, AR: 0, AK: 1, MT: 14, Class: 2, inst: 0x0
c7f433b8	3d	omci_msg.c	178	4	01 15 80 70 ff f0 00 0c cc 02 ee 00 00 00 00 80
c7f433b8	3d	omci_msg.c	184	4	07 00 07 00 00 00 01 00 00 00 00 00 00 00 00
c7f433b8	3d	omci_msg.c	187	4	zero: 0x0, len: 0x28 crc: 0xf4238696
c7f433b9	3d	omci_main.c	107	4	Receive OMCI message
c7f433b9	3d	omci_msg.c	172	4	tick: 0x11ea0e7b PRI: 0, TI: 0x1359, DID: 10, DB: 0, AR: 1, AK: 0, MT: 14, Class: 2, inst: 0x0
c7f433ba	3d	omci_msg.c	178	4	00 ef 00 00 00 00 00 00 00 00 00 00 00 00 00
c7f433ba	3d	omci_msg.c	184	4	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
c7f433ba	3d	omci_msg.c	187	4	zero: 0x0, len: 0x28 crc: 0x46edb4cc

```

c7f433ba 3d omci_msg.c 551 4 Send out OMCI msg
c7f433ba 3d omci_msg.c 172 4 tick: 0x11ea0ff6 PRI: 0, TI: 0x1359,
DID: 10, DB: 0, AR: 0, AK: 1, MT: 14, Class: 2, inst: 0x0
c7f433ba 3d omci_msg.c 178 4 01 15 80 71 ff f0 00 0c cc 02 ee 00 00
00 00 80
c7f433ba 3d omci_msg.c 184 4 08 00 07 00 00 01 00 00 00 00 00 00
00 00 00 00
c7f433ba 3d omci_msg.c 187 4 zero: 0x0, len: 0x28 crc: 0xfb8c0e9e
c7f433bb 3d omci_main.c 107 4 Receive OMCI message
c7f433bb 3d omci_msg.c 172 4 tick: 0x11ea1620 PRI: 0, TI: 0x135a,
DID: 10, DB: 0, AR: 1, AK: 0, MT: 14, Class: 2, inst: 0x0
c7f433bb 3d omci_msg.c 178 4 00 f0 00 00 00 00 00 00 00 00 00 00
00 00 00 00
c7f433bc 3d omci_msg.c 184 4 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00
c7f433bc 3d omci_msg.c 187 4 zero: 0x0, len: 0x28 crc: 0x4d64b34b
c7f433bc 3d omci_msg.c 551 4 Send out OMCI msg
c7f433bc 3d omci_msg.c 172 4 tick: 0x11ea179a PRI: 0, TI: 0x135a,
DID: 10, DB: 0, AR: 0, AK: 1, MT: 14, Class: 2, inst: 0x0
c7f433bc 3d omci_msg.c 178 4 01 15 80 72 ff f0 00 0c cc 02 ee 00 00
00 00 80
c7f433bc 3d omci_msg.c 184 4 09 00 07 00 00 01 00 00 00 00 00 00
00 00 00 00
c7f433bc 3d omci_msg.c 187 4 zero: 0x0, len: 0x28 crc: 0xb7263d35
c7f433bd 3d omci_main.c 107 4 Receive OMCI message
c7f433bd 3d omci_msg.c 172 4 tick: 0x11ea1e0e PRI: 0, TI: 0x135b,
DID: 10, DB: 0, AR: 1, AK: 0, MT: 14, Class: 2, inst: 0x0
c7f433be 3d omci_msg.c 178 4 00 f1 00 00 00 00 00 00 00 00 00 00
00 00 00 00
c7f433be 3d omci_msg.c 184 4 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00
c7f433be 3d omci_msg.c 187 4 zero: 0x0, len: 0x28 crc: 0x96512982
c7f433be 3d omci_msg.c 551 4 Send out OMCI msg
c7f433be 3d omci_msg.c 172 4 tick: 0x11ea1f8b PRI: 0, TI: 0x135b,
DID: 10, DB: 0, AR: 0, AK: 1, MT: 14, Class: 2, inst: 0x0
c7f433be 3d omci_msg.c 178 4 01 15 80 73 ff f0 00 0c cc 02 ee 00 00
00 00 80
c7f433be 3d omci_msg.c 184 4 0a 00 07 00 00 01 00 00 00 00 00 00
00 00 00 00
c7f433be 3d omci_msg.c 187 4 zero: 0x0, len: 0x28 crc: 0xd5864143
c7f433bf 3d omci_main.c 107 4 Receive OMCI message
c7f433bf 3d omci_msg.c 172 4 tick: 0x11ea25cb PRI: 0, TI: 0x135c,
DID: 10, DB: 0, AR: 1, AK: 0, MT: 14, Class: 2, inst: 0x0
c7f433bf 3d omci_msg.c 178 4 00 f2 00 00 00 00 00 00 00 00 00 00
00 00 00
c7f433c0 3d omci_msg.c 184 4 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00

```

2.5.7 MEC log

To check implement of OMCI message

[Command]

/system/log/show mec

Example:

ONT/system/log> show mec

Log: mec

tick	upTime1	file	line	level	message
c7f3bf0b	1f	mec_main.c	474	4	Starting MEC
c7f3bfb0	1f	mec_alu_specifi	3390	4	ALU spec register
c7f3bfb2	1f	mec_alu_specifi	3414	4	This is ALU ISAM-based OLT 4.0
c7f3bfb4	1f	mec_main.c	415	4	Get major ID[0xe8] minor ID[0x1]
c7f3bfbb	1f	mec_main.c	2763	4	PON_TYPE 1
c7f3bfc8	20	mec_init.c	160	4	Get major ID[0xe8] minor ID[0x1]
c7f3bfc8	20	mec_init.c	172	4	Get active entity 0
c7f3bfcf	20	mec_init.c	188	4	Get commit entity 0
c7f3bfd2	20	mec_init.c	1059	4	mec_ ImageValid: file magic is 0x23494255
c7f3bfd2	20	mec_init.c	1094	4	check: ubi & kernel inst 1
c7f3c0ec	20	mec_init.c	455	4	Restoring MIB
c7f3c0f0	20	mec_init.c	444	4	ReStore cardholder slot [128] MIB
c7f3c0f4	20	mec_init.c	444	4	ReStore cardholder slot [1] MIB
c7f3c0f7	20	mec_init.c	444	4	ReStore cardholder slot [10] MIB
c7f3c0fa	20	mec_init.c	444	4	ReStore cardholder slot [2] MIB
c7f3c0ff	20	mec_init.c	444	4	ReStore cardholder slot [4] MIB
c7f3c102	20	mec_init.c	444	4	ReStore cardholder slot [14] MIB
c7f3c18c	20	mec_cfg.c	82	4	Set active image: inst = 0, sync msg
return OK					
c7f3c20f	20	mec_cfg.c	82	4	Set commit image: inst = 0, sync msg
return OK					
c7f3c244	20	mec_voip.c	744	4	unknown softswitch type
c7f3c247	20	mec_country.c	72	4	---default country std E164.
c7f3c247	20	mec_country.c	120	4	---default country code is 1.
c7f3c248	20	mec_voip.c	1178	4	Set Country Code: slot[0] port[0] [1]
c7f3c248	20	mec_voip.c	768	4	g MecVoipData. Default.country_code [1]
c7f3c24a	20	mec_voip.c	501	4	Load Country Code 1 from private mib
c7f3c24a	20	mec_country.c	186	4	---country code 1 is valid.
c7f3c279	20	mec_main.c	529	4	Starting mib save timer
c7f3c299	20	mec_ip_path_mai	123	4	MEC_ Ip PathInit { log } : The customer is ALU
c7f3c29c	20	mec_ip_path_mai	164	4	MEC_IpPathInit { log } : use the default xml /etc/US.xml !

```
c7f3c2ae    20    mec_ main.c 1334    4 Misc Manager is ready
c7f3c6e1    21    mec_ main.c 1285    4 Pon Manager is ready
c7f3ca66    22    mec_ main.c 1344    4 Net Manager is ready
c7f3cb2c    22    mec_ main.c 1305    4 Voip Manager is ready
c7f3d29c    24    mec_ main.c 1295    4 Ethnet Manager is ready
```

3. OMCI MIB

3.1 MIB dump CLI

To print the ONT OMCI MIB . CLI “dump” will save the file in /s/s/tmp/mibdump.txt. CLI “/s/s/” will go to dir /s/s. CLI “cat /tmp/mibdump.txt” will print all the OMCI MIB.

[Command]

/s/m/dump

/s/s/

cat /tmp/mibdump.txt

Example:

```
# ONT/system/shell> /s/ m/ dump
```

MIB is saved to the file /tmp/mibdump.txt.

```
# ONT/system/shell> /s/ s/
```

```
# ONT/system/shell> cat /tmp/mibdump.txt
```

Total 292 tables

Table Ontg, Ont-g, ME 256, total 1 instances

EntityID = 0x0000

VID = 41 4c 43 4c

Version = 33 46 45 35 33 33 34 37 41 55 41 41 30 32

SerialNum = 41 4c 43 4c f8 da 2d 07

TraffMgtOpt = 0x00

AtmCCOpt = 0x00

BatteryBack = 0x00

AdminState = 0x00

OpState = 0x00

OntState = 0x03

3.2 MIB reset CLI

To Reset mib to default values

[Command]

/s/m/reset

Example:

/s/m/reset

3.3 MIB show CLI

Usage: show CLASSID

CLASSID: the class ID of the ME, defined in 983.2/984.4, currently the following MEs are supported:

[Command]

/s/m/show ID

Example:

#ONT/system/mib>show 45

Table MacBriServProf, MAC Bridge Service Profile, total 1 instances

```
EntityID          = 0x0e01
SpanTreeInd       = 0
LearningInd       = 0
AtmBriInd         = 0
Priority           = 32768
MaxAge             = 5120
HelloTime         = 512
ForwardDelay      = 3840
DiscardUnknow     = 0
MacLearningDepth  = 0
DynFilterAgeTime  = 0
#ONT/system/mib>
```

4. Common service debug information

4.1 Check general traffic configure

```
/system/ontver
/system/ontver build
/traffic/pon/show traffic all
/traffic/omci/show connection all
/traffic/omci/debug/show 0
/traffic/eth/show connect all
/traffic/pon/show link
/traffic/eth/show pack
/s/s/ifconfig
/system/misc/eqsn get
/system/misc/show trans state
/s/log/show omci
/s/log/show mec
/s/log/show emr
/s/log/show pmr
```

```
/s/log/show pmr_drv
/s/log/show mec_fm
/s/log/show us_ploam
/s/log/show ds_ploam
/system/log/show net
/s/m/dump
/s/s/
cat /tmp/mibdump.txt
```

4.2 Check detail traffic configure

```
/traffic/omci/show connection all
/traffic/omci/debug/show 0
/traffic/eth/debug/showconn all
/traffic/eth/debug/showconn 0
/traffic/eth/show connect all
/stytem/log/show mec
```

4.3 Check IPTV configure

```
/traffic/eth/show igmp domain
/traffic/eth/show igmp uni
/traffic/eth/show igmp pm all
/traffic/eth>show igmp pm
/system/ontver
/ system/ ontver build
/traffic/pon/show traffic all
/traffic/omci/show connection all
/traffic/omci/debug/show 0
/traffic/eth/show connect all
/traffic/pon/show link
/traffic/eth/show pack
/s/s/ifconfig
/system/misc/eqsn get
/system/misc/show trans state/s/log/
show omci
/s/log/show mec
/s/log/show emr
/s/log/show pmr
/s/log/show pmr_drv
/s/log/show mec_fm
/s/log/show us_ploam
/s/log/show ds_ploam
/system/log/show net
/s/m/dump
/s/s/
```

```
cat /tmp/mibdump.txt
```

4.4 Check traffic PM

```
/traffic/pon/show pm gem all  
/traffic/omci/show pm gem  
/traffic/omci/show pm eth  
/traffic/omci/show pm omci
```