

PON OLT Equipment MIB Specifications

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(Cover Included)

Revision History

Version No.	Prepared by / Revised by	Revision Date	Reason for Revision	Main Contents Revised (Main Points)
	Zhu Min	2012-11-23		
	Zhu Min	2013-8-16		Consummate relevant contents

1 Overview

This document is applicable to the PON OLT products, such as C200, C220, C300 and C320.

Most information of MIB objects shall be got from the corresponding MIB, and the MIB file is the final and the most accurate source of information of all the MIB objects. This document is only to list key information and the belonging MIB file.

If there are no special specifications, the corresponding MIB has no change among versions, and is suitable for all the OLT versions released.

2 Definition of Composite Index

In the OLT equipment, to get index of some MIB tables, you need to combine some fields into 32 bytes, such index is called as **composite index** in this document. Corresponding to it, the index directly using numbers like 1, 2, 3 is called as **regular index** in this document.

The composite index used in the OLT equipment management can be divided into two categories: one is platform composite index, and the other is PON equipment composite index. General functions of different kinds of equipment usually use composite index, while the management of the PON equipment uses PON composite index.

2.1 Platform Composite Index

The platform index of MIB tables usually consists of a MIB scalar. When accessing an MIB table, you need to select corresponding method to constitute the composite index according to the type of the interface.

The platform composite index is a 32-bit integer without a symbol, and the composite index's high 4 bits are used to indicate the type of the index:

formation:	Type(4 bits)	LocationDescription(28 bits)			
NormalPort=1	Type(4 bits)	Shelf(4 bits)	Slot(8 bits)	Port(Olt)(8bits)	8 bits
AdlcPvc=2	Type(4 bits)	Shelf(4 bits)	Slot(8 bits)	Port(8 bits)	PvcNo(8 bits)
EponOnu=3	Type(4 bits)	Shelf(4 bits)	Slot(5)+Olt(3)bits	Onu (8 bits)	8 bits
EponGpon=4	Type(4 bits)	Shelf(4 bits)	Slot(5)+Olt(3)bits	Onu (8 bits)	Gport(8 bits)
ATM Pvc=5	Type(4 bits)	Shelf(4 bits)	Slot(8 bits)	Port(4 bits)	PvcNo(12 bits)
Vdsl=6	Type(4 bits)	Shelf(4 bits)	Slot(8 bits)	Port(8 bits)	PvcNo(8 bits)
Smartgrp=241	Type(4 bits)	Subtype(4bits)	not used(8 bits)	index (16 bits)	
Vlan = 242	Type(4 bits)	Subtype(4bits)	not used(8 bits)	index (16 bits)	
SupVlan=243	Type(4 bits)	Subtype(4bits)	not used(8 bits)	index (16 bits)	

2.1.1 Slot Conversion of Platform Composite Index

Slot fields of the platform composite index needs to fill in a logic slot value, and the logic slot value is got via the conversion of physical slot value. The conversion modes of different OLT equipment are different, for details, refer to relevant section.

Slot Conversion of C220 Shelf

```

if (slot <= 6)
{
    composite index slot = slot - 1;
}

```

```
        }
        else if ((slot >= 9) && (slot <= 14))
        {
            composite index slot = slot - 3;
        }
        else
        {
            composite index slot = 0;
        }
```

Slot Conversion of C200 Shelf

```
if (slot <= 3)
{
    composite index slot = slot;
}
else if (slot == 6)
{
    composite index slot = 5;
}
else if ((slot >= 4) && (slot <= 5))
{
    if (The main control card is inserted in the slot)
    {
        composite index slot = 0;
    }
    else
    {
        composite index slot = 4;
    }
}
```

Slot Conversion of C300 Shelf

```
if ((slot >= 2) && (slot <= 9))
{
    composite index slot = slot - 2;
}
else if ((slot >= 12) && (slot <= 22))
{
    composite index slot = slot - 4;
}
```

```

else
{
    composite index slot = 0;
}

```

Slot Conversion of C320 Shelf

```

if((0 < vSlot) && (ucSlotnum >= vSlot))
{
    *vpCardId = vSlot - 1;
}

```

2.1.2 Type 1 Index

Type 1 index indicates port or OLT.

From high bit to low bit:

bit31 to bit28 indicates Type, which is 1,

bit27 to bit24 indicates Shelf No., which is 0,

bit23 to bit16 indicates Slot No., to fill in Slot No. after conversion, refer to 1.2

bit15 to bit8 indicates Port No. or OLT No., be equal to Port No. or (OLT No. – 1)

bit7 to bit0 fill in 0

	4		4		8		8		8		
<hr/>											
	Type: 1		Shelf		Cardid		Port (Olt)		Vc/SrvPortId		

For example: gpon-olt_1/2/3's index is 0x10000200.

2.1.3 Type 3 Index

Type 3 index indicates ONU. The PON cards having 8 ports or less than 8 ports use this index type.

From high bit to low bit:

bit31 to bit28 indicates Type, which is 3,

bit27 to bit24 indicates Shelf No., which is 0,

bit23 to bit19 indicates Slot No., to fill in Slot No. after conversion, refer to 1.2

bit18 to bit16 indicates OLT NO., be equal to (OLT NO. – 1)

bit15 to bit8 indicates ONU NO., be equal to (ONU NO. – 1)

bit7 to bit0 fill in 0

-----		4		4		8		8		8		-----
	Type: 3		Shelf		Cardid(5b)	Olt(3b)		Onu				-----

For example: gpon-onu_1/2/3:2's index is 0x30020100.

2.1.4 Type 4 Index

Type 4 index indicates ONU virtual link. The PON cards having 8 ports or less than 8 ports use this index type.

From high bit to low bit:

bit31 to bit28 indicates Type, which is 3,

bit27 to bit24 indicates Shelf No., which is 0,

bit23 to bit19 indicates Slot No., to fill in Slot No. after conversion, refer to 1.2

bit18 to bit16 indicates OLT NO., be equal to (OLT NO. – 1)

bit15 to bit8 indicates ONU NO., be equal to (ONU NO. – 1)

bit7 to bit0 indicates ONU virtual link, be equal to 0 for EPON equipment

-----		4		4		8		8		8		-----
	Type: 4		Shelf		Cardid(5b)	Olt(3b)		Onu		Vport/SrvPortId		-----

Of them, Vport and SrvPortId are differentiated via the highest bit of the belonging field. If it is 1, it indicates vport.

For example: gpon-onu_1/2/3:2 VPORT1's index is 0x40020101, gpon-onu_1/2/3:2 service port1's index is 0x40020181.

2.1.5 Type 9 Index

Type 9 index indicates 16-port PON card's ONU. The PON cards having 8 ports or less than 8 ports use Type 3 index.

From high bit to low bit:

bit31 to bit28 indicates Type, which is 9,

bit27 to bit24 indicates Shelf No., which is 0,

bit23 to bit19 indicates Slot No., to fill in Slot No. after conversion, refer to 1.2

bit18 to bit16 indicates OLT NO., be equal to (OLT NO. – 1)

bit15 to bit8 indicates ONU NO., be equal to (ONU NO. – 1)

bit7 to bit0 fill in 0

	4		3		9		8		8		
<hr/>											

	Type: 9		Shelf(3b)		Cardid(5b)Olt(4b)		Onu				
<hr/>											

2.1.6 Type 10 Index

Type 10 index indicates 16-port PON card's ONU virtual link. The PON cards having 8 ports or less than 8 ports use Type 4 index.

From high bit to low bit:

- bit31 to bit28 indicates Type, which is 10,
- bit27 to bit24 indicates Shelf No., which is 0,
- bit23 to bit19 indicates Slot No., to fill in Slot No. after conversion, refer to 1.2
- bit18 to bit16 indicates OLT NO., be equal to (OLT NO. - 1)
- bit15 to bit8 indicates ONU NO., be equal to (ONU NO. - 1)
- bit7 to bit0 indicates ONU virtual link, be equal to 0 for EPON equipment

	4		3		9		8		8		
<hr/>											

	Type: 10		Shelf(3b)		Cardid(5b)Olt(4b)		Onu		Vport/SrvPortId		
<hr/>											

2.2 PON Composite Index

The index of PON MIB tables usually consists of one or multiple MIB scalars. When accessing an MIB table, if the index consists of one MIB scalar, you need to select corresponding method to constitute the composite index according to the type of the interface; if the index consists of multiple MIB scalars, only the first scalar constituting the index needs you to select corresponding method to constitute the composite index according to the type of the interface, while other scalars are all regular indices, which use numbers like 1, 2, 3, etc.

PON composite index is a 32-bit integer without symbols, and the composite index's high 4 bits are used to indicate the type of the index.

The slot No. in the PON composite index adopts physical slot No., with no need to be converted.

GPON PON port-level objects are all Type 1composite index, ONU -level objects are (PON port Type 1composite index + ONU No.).

EPON PON port-level objects are all Type 1composite index, ONU -level objects are Type 3composite index.

2.2.1 Type 1 Composite Index

Type 1 indicates port or OLT.

From high bit to low bit:

bit31 to bit28 indicates Type, which is 1,

bit27 to bit24 indicates Shelf No., which is 0,

bit23 to bit16 indicates Slot No., fill in Slot No.

bit15 to bit8 indicates Port No. or OLT No., fill in Port No. or OLT No.

bit7 to bit0 fill in 0

	4		4		8		8		8	
Type: 1 Shelf Slot Port(Olt)										

For example: gpon-olt_1/2/3's index is 0x10020300.

2.2.2 Type 3 Composite Index

Type 3 indicates ONU.

From high bit to low bit:

bit31 to bit28 indicates Type, which is 3,

bit27 to bit24 indicates Shelf No., which is 0,

bit23 to bit19 indicates Slot No., fill in Slot No.

bit18 to bit16 indicates OLT NO., fill in OLT NO.

bit15 to bit8 indicates ONU NO., fill in ONU NO.

bit7 to bit0 fill in 0

Note: For C300 and C320 NEs, bit18 to bit16 indicates OLT NO., fill in (OLT NO. — 1) while for other NEs, fill in OLT NO.

	4		4		8		8		8	
Type: 3 Shelf Card(5bit)Olt(3bit) Onu ID										

For example: gpon-onu_1/2/3:1's index is 0x30120100.

2.2.3 Type 6 Composite Index

Type 6 indicates slot.

From high bit to low bit:

bit31 to bit28 indicates Type, which is 6,

bit27 to bit24 indicates Shelf No., which is 0,

bit23 to bit16 indicates Slot No., fill in Slot No.

bit15 to bit8 fill in 0

bit7 to bit0 fill in 0

	4		4		8		8		8		
Type: 6 Shelf slot											

For example: The index of the GPON card in Slot 2 is 0x60020000.

2.2.4 Type 7 Composite Index

Type 7 indicates profile.

From high bit to low bit:

bit31 to bit28 indicates Type, which is 7,

bit27 to bit24 indicates Shelf No., which is 0,

bit23 to bit16 fill in 0

bit15 to bit0 indicates profile No., fill in profile No.

	4		4		8		8		8		
Type: 7 Shelf 0 profile No.											

For example: Profile index is 0x70000001.

2.2.5 Type 9 Composite Index

Type 9 indicates ONU (The composite index is specially used for the ONUs of the PON cards having more than 8 ports, while the ONUs of the PON cards having 8 ports or less than 8 ports use Type 3).

From high bit to low bit:

bit31 to bit28 indicates Type, which is 9,

bit27 to bit25 indicates Shelf No., which is 0,

bit24 to bit20 indicates Slot No., fill in Slot No.

bit19 to bit16 indicates OLT NO., fill in OLT NO.

bit15 to bit8 indicates ONU NO., fill in ONU NO.

bit7 to bit0 fill in 0

Note: For C300 and C320 NEs, bit19 to bit16 indicates OLT NO., fill in (OLT NO. — 1) while for other NEs, fill in OLT NO.

	4		4				8		8		8	
Type: 3 Shelf (3bit) Slot(5bit) Olt(4bit) Onu ID												

3 System Control

3.1 NE Information

Basic NE information includes ObjectID, description information, system operation time, system location and so on.

Index Specification

Global variable, index.0

OID Specification

MIB Variable	OID	Specification
sysDescr	.1.3.6.1.2.1.1.1	Read Only
sysObjectID	.1.3.6.1.2.1.1.2	Read Only
sysUpTime	.1.3.6.1.2.1.1.3	Read Only
sysContact	.1.3.6.1.2.1.1.4	
sysName	.1.3.6.1.2.1.1.5	
sysLocation	.1.3.6.1.2.1.1.6	

3.2 Shelf Information

Get actual shelf type of the NE and configured shelf type, and set the configured shelf type of the NE

Index Specification

The index is zxAnRackNo (Rack No.) and zxAnShelfNo (Shelf No.), and Rack No. and Shelf No. are numbered from 0.

OID Specification

MIB Variable	OID	Specification
zxAnShelfActType	.1.3.6.1.4.1.3902.1015.2.1.1.2.1.3	Read Only
zxAnShelfCfgType	.1.3.6.1.4.1.3902.1015.2.1.1.2.1.4	
zxAnShelfRowStatus	.1.3.6.1.4.1.3902.1015.2.1.1.2.1.15	

- Definitions of actual shelf type zxAnShelfActType and configured shelf type zxAnShelfCfgType

0x00010101	C220 equipment Type-A shelf
0x00010102	C220 equipment Type-B shelf
0x00010103	C200 equipment Type-A shelf
0x00010104	C100 equipment Type-A shelf

3.3 Card Information

Get the configured card list on the NE

Index Specification

The index is zxAnRackNo (Rack No.), zxAnShelfNo (Shelf No.) and zxAnSlotNo (Slot No.). Rack No. and Shelf No. are numbered from 0, while Slot No. is numbered from 1.

OID Specification

MIB Variable	OID	Specification
zxAnCardCfgMainType	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.2	Configured card type
zxAnCardActMainType	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.3	Actual card type (Read Only)
zxAnCardActType	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.4	Card name (Read Only)
zxAnCardOperStatus	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.5	Card status (Read Only)
zxAnCardCpuLoad	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.9	CPU load (Read Only)
zxAnCardMemUsage	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.11	Memory usage rate (%) (Read Only)
zxAnCardStandbyStatus	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.13	Card active / standby status (Read Only)
zxAnCardRowStatus	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.30	

- Definitions of **zxAnCardCfgMainType** and **zxAnCardActMainType**

0x00010108	EC4GH
0x00010104	EC4GM
0x00010102	EC4G
0x00011002	EIG
0x00011001	EIGM
0x00012405	EIGMP
0x00011003	EIGMF
0x00011004	EIT1F
0x00011005	EIT2F
0x00012301	EPEB
0x00012302	EPFC
0x00012303	EPFB

0x00010101	GCSA
0x00010103	GCSC
0x00010105	GCSD
0x00010107	GCSE
0x00011101	CE1B
0x00011102	CE1BB
0x00011103	CL1A
0x00012402	GPTAB
0x00012403	GPTCB
0x00012404	GPFAB
0x00012401	GPTBB
0x00080101	MS8E
0x00080102	MS8EP
0x00081001	EI8E
0x00081002	EI8EP
0x00081101	ETC8B
0x00082301	EPUA
0x00082401	GPUA
0x00082601	V08B
0x00082602	V16B

- Card status
 - 0 On-line
 - 1 Off-line
 - 2 Fail to provide services
 - 3 hw on-line
 - 4 Off-line
 - 5 Being configured
 - 6 Configuration failed
 - 7 The configured card type isn't matched with actual type
 - 8 De-activate
 - 9 Fault
 - 10 Failure
- Card active / standby status
 - 1 Active status
 - 2 Standby status
 - 15 Unknown status

3.4 Version Information

To view the information of the version currently running of the NE (active version, boot

version and firmware version)

Index Specification

The index is zxAnRackNo (Rack No.), zxAnShelfNo (Shelf No.) and zxAnSlotNo (Slot No.). Rack No. and Shelf No. are numbered from 0, while Slot No. is numbered from 1.

OID Specification

MIB Variable	OID	Specification
zxAnCardHardVersion	.1.3.6.1.4.1.3902.1015.2.1.2.2.1.1	Card hardware version
zxAnVersionFileType	.1.3.6.1.4.1.3902.1015.2.1.2.2.1.3	Active version type
zxAnVersionTag	.1.3.6.1.4.1.3902.1015.2.1.2.2.1.4	Active version No.
.zxAnVersionFileLen	.1.3.6.1.4.1.3902.1015.2.1.2.2.1.5	Length of the active version file
zxAnVersionBuildTime	.1.3.6.1.4.1.3902.1015.2.1.2.2.1.6	Active version time
zxAnBootromFileType	.1.3.6.1.4.1.3902.1015.2.1.2.2.1.8	Boot version type
zxAnBootromTag	.1.3.6.1.4.1.3902.1015.2.1.2.2.1.9	Boot version No.
zxAnBootromFileLen	.1.3.6.1.4.1.3902.1015.2.1.2.2.1.10	Length of the boot version file
zxAnBootromBuildTime	.1.3.6.1.4.1.3902.1015.2.1.2.2.1.11	Boot version time
zxAnFirmware1FileType	.1.3.6.1.4.1.3902.1015.2.1.2.2.1.13	Firmware type
zxAnFirmware1Tag	.1.3.6.1.4.1.3902.1015.2.1.2.2.1.14	Firmware No.
zxAnFirmware1FileLen	.1.3.6.1.4.1.3902.1015.2.1.2.2.1.15	Length of the firmware file
zxAnFirmware1BuildTime	.1.3.6.1.4.1.3902.1015.2.1.2.2.1.16	Firmware time

3.5 Fan Information

Get the information of the fan operation.

Index Specification

The index is zxAnEnvFanIndex (fan unit id), which starts from 1. The maximum number is the number of actual fan units. If lower layers fail to read the number of fans correctly, there are 3 19-inch shelves and 4 21-inch shelves.

OID Specification

MIB Variable	OID	Specification
zxAnEnvFanActualSpeedLevel	.1.3.6.1.4.1.3902.1015.2.1.3.10.10.10.1.3	Actual speed level of the fan unit
.zxAnEnvFanOperStatus	.1.3.6.1.4.1.3902.1015.2.1.3.10.10.10.1.5	Operation status

		of the fan unit
zxAnEnvFanOnlineStatus	.1.3.6.1.4.1.3902.1015.2.1.3.10.10.10.1.6	Online status of the fan unit
zxAnEnvFanActualSpeed	.1.3.6.1.4.1.3902.1015.2.1.3.10.10.10.1.7	Actual speed (RPM) of the fan unit

zxAnEnvFanActualSpeedLevel:

{ lowSpeed (1) , standardSpeed (2) , highSpeed (3) , superSpeed (4) , other (10) }

zxAnEnvFanOperStatus:

{ up (1) , down (2) , unknown (3) }

zxAnEnvFanOnlineStatus:

{ online (1) , offline (2) , unknown (3) }

3.6 Address Information

{"zxAnL3IfIpAddressTable" ,	"1.3.6.1.4.1.3902.1015.4.1.3"}
{"zxAnL3IfIpAddressEntry" ,	"1.3.6.1.4.1.3902.1015.4.1.3.1"
{"zxAnL3IfIp" ,	"1.3.6.1.4.1.3902.1015.4.1.3.1.1"
{"zxAnL3IfMask" ,	"1.3.6.1.4.1.3902.1015.4.1.3.1.2"
{"zxAnL3IfIpCatagory" ,	"1.3.6.1.4.1.3902.1015.4.1.3.1.3"
{"zxAnL3IfIpRowStatus" ,	"1.3.6.1.4.1.3902.1015.4.1.3.1.4"

4 Platform

4.1 VLAN

Relevant MIB file is: ZTE-AN-VLAN-MIB.mib

4.1.1 Create VLAN Interface

```
{
    "zxAnL3IfTable"          , "1.3.6.1.4.1.3902.1015.4.1.1" ,
    {"zxAnL3IfEntry"          , "1.3.6.1.4.1.3902.1015.4.1.1.1" ,
     {"zxAnL3IfIndex"          , "1.3.6.1.4.1.3902.1015.4.1.1.1.1" ,
      {"zxAnL3IfName"          , "1.3.6.1.4.1.3902.1015.4.1.1.1.2" ,
       {"zxAnIfReferIndex"        , "1.3.6.1.4.1.3902.1015.4.1.1.3" ,
        {"zxAnL3IfArpProxyEnable" , "1.3.6.1.4.1.3902.1015.4.1.1.4" ,
         {"zxAnL3IfRowStatus"        , "1.3.6.1.4.1.3902.1015.4.1.1.5" ,

```

Name	Oid	Range	Description
zzxAnL3IfIndex	.1.3.6.1.4.1.3902.1015.4.1.1.1		
zxAnL3IfName	.1.3.6.1.4.1.3902.1015.4.1.1.2	STRING (SIZE (1 .. 32))	
zxAnIfReferIndex	.1.3.6.1.4.1.3902.1015.4.1.1.3		
zxAnL3IfArpProxyEnable	.1.3.6.1.4.1.3902.1015.4.1.1.4		
zxAnL3IfRowStatus	.1.3.6.1.4.1.3902.1015.4.1.1.5	rowStatus	

4.1.2 Configure IP Address of VLAN Interface

```
{
    {"zxAnL3IfIp"           , "1.3.6.1.4.1.3902.1015.4.1.3.1.1" ,
     {"zxAnL3IfMask"          , "1.3.6.1.4.1.3902.1015.4.1.3.1.2" ,
      {"zxAnL3IfIpCatagory"    , "1.3.6.1.4.1.3902.1015.4.1.3.1.3" ,
       {"zxAnL3IfIpRowStatus"   , "1.3.6.1.4.1.3902.1015.4.1.3.1.4" ,

```

Name	Oid	Range	Description

zzxAnL3IfIndex	.1.3.6.1.4.1.3902.1015.4.1.1.1.1		
zxAnL3IfIp	.1.3.6.1.4.1.3902.1015.4.1.3.1.1		
zxAnL3IfMask	.1.3.6.1.4.1.3902.1015.4.1.3.1.2		
zxAnL3IfIpCatagory	.1.3.6.1.4.1.3902.1015.4.1.3.1.3		
zxAnL3IfIpRowStatus	.1.3.6.1.4.1.3902.1015.4.1.3.1.4	rowStatus	

4.1.3 Configure Switchport

```
{"zxAnVlanPortConfVlanCmdTable" , "1.3.6.1.4.1.3902.1015.20.4" ,  
 {"zxAnVlanPortConfVlanCmdEntry" , "1.3.6.1.4.1.3902.1015.20.4.1" ,  
 {"zxAnVlanPortConfVlanCmd" , "1.3.6.1.4.1.3902.1015.20.4.1.1" ,  
 {"zxAnVlanPortConfVlanId" , "1.3.6.1.4.1.3902.1015.20.4.1.2" ,
```

4.1.4 Configure Serviceport



```
{"zxAnServicePort" , "1.3.6.1.4.1.3902.1015.8" ,  
 {"zxAnServicePortObjects" , "1.3.6.1.4.1.3902.1015.8.1" ,  
 {"zxAnServicePortConfTable" , "1.3.6.1.4.1.3902.1015.8.1.1" ,  
 {"zxAnServicePortConfEntry" , "1.3.6.1.4.1.3902.1015.8.1.1.1" ,  
 {"zxAnBridgePortIndex" , "1.3.6.1.4.1.3902.1015.8.1.1.1.1" ,  
 {"zxAnUserOutSVid" , "1.3.6.1.4.1.3902.1015.8.1.1.10" ,  
 {"zxAnServicePortRowStatus" , "1.3.6.1.4.1.3902.1015.8.1.1.100" ,  
 {"zxAnUserTlsVlan" , "1.3.6.1.4.1.3902.1015.8.1.1.11" ,  
 {"zxAnUserSVidCos" , "1.3.6.1.4.1.3902.1015.8.1.1.12" ,  
 {"zxAnVlanTransMode" , "1.3.6.1.4.1.3902.1015.8.1.1.13" ,  
 {"zxAnUserInStartVid" , "1.3.6.1.4.1.3902.1015.8.1.1.14" ,  
 {"zxAnUserInEndVid" , "1.3.6.1.4.1.3902.1015.8.1.1.15" ,  
 {"zxAnUserCVidCos" , "1.3.6.1.4.1.3902.1015.8.1.1.16" ,  
 {"zxAnUserInSVid" , "1.3.6.1.4.1.3902.1015.8.1.1.17" ,  
 {"zxAnSrvPortVlanXconnectEnable" , "1.3.6.1.4.1.3902.1015.8.1.1.18" ,  
 {"zxAnServicePortUserDscp" , "1.3.6.1.4.1.3902.1015.8.1.1.19" ,  
 {"zxAnServicePortID" , "1.3.6.1.4.1.3902.1015.8.1.1.2" ,  
 {"zxAnServicePortIngressTrafficPrf" , "1.3.6.1.4.1.3902.1015.8.1.1.20" ,  
 {"zxAnServicePortEgressTrafficPrf" , "1.3.6.1.4.1.3902.1015.8.1.1.21" ,  
 {"zxAnServicePortAdminStatus" , "1.3.6.1.4.1.3902.1015.8.1.1.22" ,
```

```

{
    "zxAnServicePortQueueId",      "1.3.6.1.4.1.3902.1015.8.1.1.1.23" } ,
    {"zxAnServicePortDesc"          ,      "1.3.6.1.4.1.3902.1015.8.1.1.1.3" } ,
    {"zxAnServicePortServiceMode"   ,      "1.3.6.1.4.1.3902.1015.8.1.1.1.4" } ,
    {"zxAnUserInVid"               ,      "1.3.6.1.4.1.3902.1015.8.1.1.1.5" } ,
    {"zxAnUserInPriority"          ,      "1.3.6.1.4.1.3902.1015.8.1.1.1.6" } ,
    {"zxAnUserEthType"              ,      "1.3.6.1.4.1.3902.1015.8.1.1.1.7" } ,
    {"zxAnUserEthFilter"            ,      "1.3.6.1.4.1.3902.1015.8.1.1.1.8" } ,
    {"zxAnUserOutCVid"              ,      "1.3.6.1.4.1.3902.1015.8.1.1.1.9" } ,
    {"zxAnUserSceneTable"           ,      "1.3.6.1.4.1.3902.1015.8.1.2" } ,
    {"zxAnUserSceneEntry"            ,      "1.3.6.1.4.1.3902.1015.8.1.2.1" } ,
    {"zxAnCpeIndex"                 ,      "1.3.6.1.4.1.3902.1015.8.1.2.1.1" } ,
    {"zxAnSceneMode"                  ,      "1.3.6.1.4.1.3902.1015.8.1.2.1.2" } ,
    {"zxAnServicePortGlobalObjects" ,      "1.3.6.1.4.1.3902.1015.8.1.50" } ,
    {"zxAnServicePortCompatible"    ,      "1.3.6.1.4.1.3902.1015.8.1.50.1" } ,
}

```

4.2 Multicast

Please refer to ZTE-AN-IGMP-MIB.mib.

4.2.1 Global Management

MIB Variable/ OID	Type	Description
zxAnIgmpAdminStatus 1.3.6.1.4.1.3902.1015.31.1.1.1	INTEGER	The administrative status of global igmp service. Default: enable
zxAnIgmpAging 1.3.6.1.4.1.3902.1015.31.1.1.2	Integer32	[30..3600] (Def: 300) The timeout period in seconds for aging out Multicast Groups dynamically learned with IGMP. Note that aging operates on a per interface per VLAN per multicast group basis. The value is 0 means that no igmp aging.
zxAnIgmpWorkingMode 1.3.6.1.4.1.3902.1015.31.1.1.3	INTEGER	[proxy(1), routing(2), snooping(3)] (Def: 1) IGMP working mode, igmp entity can work as a igmp proxy, igmp routing or igmp snooping.
zxAnIgmpMcastInAllVlan 1.3.6.1.4.1.3902.1015.31.1.1.4	INTEGER	[enable(1), disable(2)] (Def: 1) enable: multicast forward data in all

		<p>vlans.</p> <p>disable: multicast play role in their vlans only</p>
zxAnIgmpDefaultMvlan 1.3.6.1.4.1.3902.1015.31.1.1.5	Integer32	<p>[0..4095](Def:1)</p> <p>Default multicast vlan ID.</p> <p>It is used to auto config (add or delete) multicast group to this default Mvlan. That is if this variable is set then all the operation (add or delete) about a group will not need to operate mvlan manually again to add or delete group to (from) a mvlan.</p> <p>The agent should add or delete a group to (from) the default mvlan automatically.</p> <p>0 means no default multicast vlan.</p>
zxAnIgmpAutoConfigGrpToDefaultMvlan 1.3.6.1.4.1.3902.1015.31.1.1.6	INTEGER	<p>[enable(1), disable(2)] (Def: 1)</p> <p>Enable/disable auto add or delete grp to default mvlan. If it is enable(1),zxAnIgmpDefaultMvlan must be set a non zero value at first.</p>
zxAnIgmpFastQureyBasedIpPool 1.3.6.1.4.1.3902.1015.31.1.1.7	INTEGER	<p>[enable(1), disable(2)] (Def: 2)</p> <p>enable(1): enable fast query function based on user's IP log pool. This function helps to speed up the query in case of multi users in same port.</p> <p>disable(2): disable fast query function.</p>
zxAnIgmpHandleGeneralLeaveMsg 1.3.6.1.4.1.3902.1015.31.1.1.8	INTEGER	<p>[enable(1), disable(2)] (Def: 2)</p> <p>enable(1): enable handling general leave msg.</p> <p>disable(2): disable handling general leave msg.</p>
zxAnIgmpUserSideRoutingIp 1.3.6.1.4.1.3902.1015.31.1.1.9	IpAddress	<p>The routing ip for user side when the device is looked as a igmp router.</p>
zxAnIgmpV1AdminStatus 1.3.6.1.4.1.3902.1015.31.1.1.10	INTEGER	<p>[accept(1), ignore(2), drop(3)] (Def: 1)</p> <p>The administrative status of IGMP v1 packet.</p>
zxAnIgmpV2AdminStatus	INTEGER	[accept(1), ignore(2), drop(3)]

1.3.6.1.4.1.3902.1015.31.1.1.1.11		(Def: 1) The administrative status of IGMP v2 packet.
zxAnIgmpV3AdminStatus 1.3.6.1.4.1.3902.1015.31.1.1.1.12	INTEGER	[accept(1), ignore(2), drop(3)] (Def: 1) The administrative status of IGMP v3 packet.
zxAnIgmpBandwidthCtrl 1.3.6.1.4.1.3902.1015.31.1.1.1.13	INTEGER	[enable(1), disable(2)] (Def: 2) Administrative status of bandwidth traffic control for multicast service.
zxAnIgmpRobustnessVariable 1.3.6.1.4.1.3902.1015.31.1.1.1.14	Integer32	[2-5] (Def:2) IGMP proxy robustness variable.
zxAnIgmpQueryInterval 1.3.6.1.4.1.3902.1015.31.1.1.1.15	Integer32	[60-300](Def:125) IGMP proxy general query interval.
zxAnIgmpQueryMaxResponseTime 1.3.6.1.4.1.3902.1015.31.1.1.1.16	Integer32	[10-250] (Def:100), IGMP proxy query max response time.
zxAnIgmpLastMembQueryInterval 1.3.6.1.4.1.3902.1015.31.1.1.1.17	Integer32	[1-255] (Def:10), IGMP proxy last member query interval.
zxAnIgmpLastMembQueryCount 1.3.6.1.4.1.3902.1015.31.1.1.1.18	Integer32	[2-5] (Def:2) IGMP proxy last member query count.
zxAnIgmpV1QuerierTimeout 1.3.6.1.4.1.3902.1015.31.1.1.1.19	Integer32	[60-3600] (Def:400) IGMP proxy version 1 router present timeout.
zxAnIgmpUnsolicitedReportInterval1. 3.6.1.4.1.3902.1015.31.1.1.1.20	Integer32	[1-310](Def:310) IGMP proxy unsolicited report interval.
rfc2662:adslAturConfMinSnrMgn 1.3.6.1.2.1.10.94.1.1.14.1.20	INTEGER	[1-60](Def:10) IGMP proxy unsolicited report interval.

4.2.2 Multicast VLAN Management

Object name	Type	Description
zxAnIgmpVlanId 1.3.6.1.4.1.3902.1015.31.1.1.22.1.1	Integer32	[1-4094] Multicast vlan ID
zxAnMvlanAdminStatus 1.3.6.1.4.1.3902.1015.31.1.1.22.1.2	INTEGER	[enable(1), disable(2), drop(3)] (Def: 1) The administrative status of IGMP packet on this MVLAN.

zxAnMvlanWorkMode 1.3.6.1.4.1.3902.1015.31.1.1.22.1.3	INTEGER	[igmpv1(1), igmpv2(2), igmpv3(3)] (Def: 2) The IGMP woke mode of this MVLAN.
zxAnMvlanNetworkSideHostIp 1.3.6.1.4.1.3902.1015.31.1.1.22.1.4	IpAddress	The host ip of this MVLAN when working on proxy mode. (Def: 0)
zxAnMvlanGroupFilterEnable 1.3.6.1.4.1.3902.1015.31.1.1.22.1.5	TruthValue	
zxAnMvlanMaxGroups 1.3.6.1.4.1.3902.1015.31.1.1.22.1.6	Integer32	Max groups in mvlan, the value lies on the device's ability. Dsl8000 is 255, dsl9000 is 512,9800 is 1024. (Def:512)
zxAnMvlanCurrActGroups 1.3.6.1.4.1.3902.1015.31.1.1.22.1.7	Gauge32	Current active groups in mvlan
zxAnMvlanPriority 1.3.6.1.4.1.3902.1015.31.1.1.22.1.8	Integer32	[0-7] (Def: 0) IGMP protocol packet's priority in proxy/router mode.
zxAnMvlanHostVersion 1.3.6.1.4.1.3902.1015.31.1.1.22.1.9	INTEGER	[auto(1), igmpv2(2), igmpv3(3)] (Def: 2) Igmp version of host on proxy mode.
zxAnMvlanRowStatus 1.3.6.1.4.1.3902.1015.31.1.1.21.1.20	RowStatus	RowStatus

4.2.3 Multicast Group Management

Object name	type	description
zxAnIgmpSrcIp 1.3.6.1.4.1.3902.1015.31.1.1.24.1.1	IpAddress	Multicast source IpAddress in IGMPv3. If the device can't support IGMPv3, this object is 0.0.0.0
zxAnIgmpGrpIp 1.3.6.1.4.1.3902.1015.31.1.1.24.1.2	IpAddress	Multicast group IpAddress.
zxAnIgmpGroupBandwidthCost 1.3.6.1.4.1.3902.1015.31.1.1.24.1.3	Integer32	Estimated Bandwidth cost by this group, it is used as a traffic and bandwidth control parameter.
zxAnIgmpGroupPrejoinEnable 1.3.6.1.4.1.3902.1015.31.1.1.24.1.4	TruthValue	(Def: false)
zxAnIgmpGroupMaxHosts 1.3.6.1.4.1.3902.1015.31.1.1.24.1.5	Integer32	Max User in this Multicast Group.
zxAnIgmpGroupActHosts 1.3.6.1.4.1.3902.1015.31.1.1.24.1.6	Integer32	Current User in this Multicast Group.
zxAnIgmpGroupRowStatus	RowStatus	RowStatus of this row.

1.3.6.1.4.1.3902.1015.31.1.1.24.1.15		
--------------------------------------	--	--

4.2.4 Multicast Port Management

Add and delete multicast source and receiving ports via the table.

Object name	Type	Description
zxAnIgmpParamListCmd 1.3.6.1.4.1.3902.1015.31.1.1.26.1.1	INTEGER	<p>The command to operate param list of zxAnMvlanGroupPortListTable. Each command is related to each meaning of zxAnMvlanGroupStaticPortList. Command operation</p> <hr/> <p>addSrcPortToMvlan(1) Bind source port with mvlan delSrcPortFromMvlan(2) unbind source Port with mvlan addRecPortToMvlan(3) bind recievingPort with mvlan delRecPortFromMvlan(4) unbind recievingPort with mvlan addStaticGroup(5) Bind port with Static Multicast delStaticGroup(6) unbind port with Static Multicast</p>
zxAnIgmpParamObject 1.3.6.1.4.1.3902.1015.31.1.1.26.1.2	IDENTIFIER	<p>The value of object ID in param list,eg.</p> <p>addSrcPortToMvlan(1) zxAnIgmpParamObject is 'mvid.ifid' delSrcPortFromMvlan(2) zxAnIgmpParamObject is 'mvid.ifid' addRecPortToMvlan(3) zxAnIgmpParamObject is 'mvid.ifid' delRecPortFromMvlan(4) zxAnIgmpParamObject is 'mvid.ifid' addStaticGroup(5) zxAnIgmpParamObject is 'mvid.srcip.gpip.ifid' delStaticGroup(6) zxAnIgmpParamObject is 'mvid.srcip.gpip.ifid'</p>

4.2.5 Receiving Port Property Management

Object name	Type	Description
zxAnIgmpIfIndex 1.3.6.1.4.1.3902.1015.31.1.1.21.1.1	ZxAnIfindex	The logical port No,ie. layer 2 bridge port. (ie: DSPPVC, PON_VPORT, VDSL)
zxAnIgmpPortAdminStatus 1.3.6.1.4.1.3902.1015.31.1.1.21.1.2	INTEGER	[enable(1), disable(2), drop(3)] (Def: 1) The administrative status of port's igmp service.
zxAnIgmpPortProtoVersion 1.3.6.1.4.1.3902.1015.31.1.1.21.1.3	INTEGER	[igmpv1(1), igmpv2(2), igmpv3(3)] (Def: 2) The version of IGMP protocol which is running on this port.
zxAnIgmpPortFastLeaveEnable 1.3.6.1.4.1.3902.1015.31.1.1.21.1.4	TruthValue	The status of fast-leave property, true:enable fast leave; false:disable fast leave.(Def: true)
zxAnIgmpPortUsage 1.3.6.1.4.1.3902.1015.31.1.1.21.1.5	INTEGER	[all(1), igmp(2), data(3)] (Def:1) The usage of the igmp port, igmp signalling only, data only or both signalling and data.
zxAnIgmpDataPort 1.3.6.1.4.1.3902.1015.31.1.1.21.1.6	ZxAnIfindex	If the logical port indicated by zxAnIgmpIfIndex is used as igmp signaling transporting, ie. zxAnIgmpPortUsage is data(2), zxAnIgmpDataPort must be configured to indicate which port will receive the igmp data. If the zxAnIgmpPortUsage is All(1), zxAnIgmpDataPort is same as the zxAnIgmpIfIndex.
zxAnIgmpPortProxyIp 1.3.6.1.4.1.3902.1015.31.1.1.21.1.7	IpAddress	zxAnIgmpPortProxyIp is the ip of igmp proxy when zxAnIgmpWorkingMode is igmp_proxy(1). (Def: 0)
zxAnIgmpPortPacketLimit 1.3.6.1.4.1.3902.1015.31.1.1.21.1.8	Integer32	The maximum IGMP packet num can be processed in 1 second on this port, exceeding packets will be discarded.
zxAnIgmpPortMaxBandwidth 1.3.6.1.4.1.3902.1015.31.1.1.21.1.9	Integer32	The maximum permitted traffic in this logical port. (Def: 2048)
zxAnIgmpPortMaxConcurrGroups 1.3.6.1.4.1.3902.1015.31.1.1.21.1.10	Integer32	The max multicast groups supported by this port concurrently. (Def: 1)
zxAnIgmpPortCurrActGroups	Gauge32	The active multicast groups on this

1.3.6.1.4.1.3902.1015.31.1.1.21.1.11		port currently.
zxAnIgmpPortQueryInterval 1.3.6.1.4.1.3902.1015.31.1.1.21.1.12	Integer32	Def: 125
zxAnIgmpPortLastMembQueryIntvl 1.3.6.1.4.1.3902.1015.31.1.1.21.1.13	Integer32	[0-255] (Def: 10)
zxAnIgmpPortQueryMaxResponseTime 1.3.6.1.4.1.3902.1015.31.1.1.21.1.14	Integer32	[0-255] (Def: 100)
zxAnIgmpPortEtherPriority 1.3.6.1.4.1.3902.1015.31.1.1.21.1.15	Integer32	[0-7] Ether priority assigned to the upstream IGMP packet on the port.

4.2.6 Query MVLAN Line Card Port List

Object name	Type	Description
zxAnMvlanPortListShelf 1.3.6.1.4.1.3902.1015.31.1.1.23.1.1	Integer32	The shelf that contains the logical port list.
zxAnMvlanPortListCard 1.3.6.1.4.1.3902.1015.31.1.1.23.1.2	Integer32	The card that contains the logical port list.
zxAnMvlanPortSrcPortList 1.3.6.1.4.1.3902.1015.31.1.1.23.1.3	ZxAnPortList	Source port in mvlan
zxAnMvlanPortRecvPortList 1.3.6.1.4.1.3902.1015.31.1.1.23.1.4	ZxAnPortList	Receiving port in mvlan

4.2.7 Query MVLAN Dynamic and Static Interfaces

Object name	Type	Description
zxAnIgmpGroupStaticPortList 1.3.6.1.4.1.3902.1015.31.1.1.25.1.1	ZxAnPortList	static port in a mvlan group
zxAnIgmpGroupDynamicPortList 1.3.6.1.4.1.3902.1015.31.1.1.25.1.2	ZxAnPortList	dynamic port in a mvlan group

4.3 Port Location

4.3.1 DHCP82 Global Switch

DHCP82 global packet extracting switch: Disable / enable of DHCP82 globally. Disable-the drive doesn't extract DHCP82 packet; Enable-extract packet.

Index Specification:

OID Specification:

MIB Variable	OID	Specification
zxAnPortLocatingDhcp82Enable	1.3.6.1.4.1.3902.1015.32.21.1	INTEGER { enable (1), disable (2) } Default value: 2.
zxAnPortLocatingDhcp82Enable_enable		

4.3.2 DHCP82 Port Switch

DHCP82 Port Switch: DHCP82 disable / enable at the port interface level. Port disable-process the port locating information in DHCP82 message; Port enable-do not process the port locating information in DHCP82 message.

Index Specification:

Platform composite index Type 4

OID Specification:

MIB Variable	OID	Specification
zxAnPortLocatingDhcpIndex	1.3.6.1.4.1.3902.1015.32.21.20.1.1	platform composite index Type 4
zxAnPortLocatingPortDhcp82Enable	1.3.6.1.4.1.3902.1015.32.21.20.1.2	INTEGER { enable (1), disable (2) }. Default value: 2.

4.3.3 PPPOE Port Switch

```
(config-if)#pppoe-plus enable vport 2
      .1.3.6.1.4.1.3902.1015.32.40.10.1.2
```

4.3.4 Port Trust Status

Port Trust Status: port-level trust status. True-trust the port locating information in the uplink packet; False-not trust

Index Specification:

Platform composite index Type 4

OID Specification:

MIB Variable	OID	Specification
zxAnPortLocatingDhcpIndex	1.3.6.1.4.1.3902.1015.32.21.20.1.1	Platform composite index Type 4
zxAnPortLocatingPortTrust	1.3.6.1.4.1.3902.1015.32.21.20.1.4	INTEGER { true (1), false (2) }. Default value: 2.

4.3.5 Port Trust Measure

Port-level trust measure: when the trust status is true, you can set trust measure as keep or replace; when the trust status is false, you can set trust measure as discard or add. Of them, keep-keep the port locating information in the uplink packet, replace-replace, discard-discard the uplink packet, add-add one port locating information again.

Index Specification:

Platform composite index Type 4

OID Specification:

MIB Variable	OID	Specification
zxAnPortLocatingDhcpIndex	1.3.6.1.4.1.3902.1015.32.21.20.1.1	Platform composite index Type 4
zxAnPortLocatingPortPolicy	1.3.6.1.4.1.3902.1015.32.21.20.1.5	INTEGER { keep (1), replace (2), discard (3), add (4) }. Default value: 4.

4.3.6 Port Locating Format

Port Locating Format: configure the format of the port locating information.

Index Specification:

Platform composite index Type 4

OID Specification:

MIB Variable	OID	Specification
zxAnPortLocatingIndex	1.3.6.1.4.1.3902.1015.32.20.1.1	Platform composite index Type 4
zxAnPortLocatingIfaceFormat	1.3.6.1.4.1.3902.1015.32.20.1.2	china_tel, dsl_forum, china_net, ti, flexible_syntax, ft, gt, vf.

4.3.7 Port Remote ID Switch

RID Switch: RID disable-do not insert RID in the message; enable-insert RID in the message.

Index Specification:

Platform composite index Type 4

OID Specification:

MIB Variable	OID	Specification
zxAnPortLocatingIndex	1.3.6.1.4.1.3902.1015.32.20.1.1	Platform composite index Type 4
zxAnPortLocatingIfaceRemoteIdEnable	1.3.6.1.4.1.3902.1015.32.20.1.3	INTEGER { enable (1), disable (2) }

4.3.8 Port Remote ID Content

Port RID Content: Configure specific content of RID, 1-64 characters.

Index Specification:

Platform composite index Type 4

OID Specification:

MIB Variable	OID	Specification
zxAnPortLocatingIndex	1.3.6.1.4.1.3902.1015.32.20.1.1	Platform composite index Type 4
zxAnPortLocatingIfaceRemoteId	1.3.6.1.4.1.3902.1015.32.20.1.4	DisplayString (SIZE (0 .. 64))

4.4 DHCP SNOOPING

ZTE-AN-DHCP-SNOOPING-MIB

5 PON Port for Public Use

5.1 IP Address Pool

```
{"zxAnXponMgmtIpAddress"      , "1.3.6.1.4.1.3902.1015.1010.5.9.1.1"} ,  
 {"zxAnXponMgmtIpMask"        , "1.3.6.1.4.1.3902.1015.1010.5.9.1.2"} ,  
 {"zxAnXponMgmtPriority"     , "1.3.6.1.4.1.3902.1015.1010.5.9.1.3"} ,  
 {"zxAnXponMgmtCVlan"        , "1.3.6.1.4.1.3902.1015.1010.5.9.1.4"} ,  
 {"zxAnXponMgmtSVlan"        , "1.3.6.1.4.1.3902.1015.1010.5.9.1.5"} ,  
 {"zxAnXponMgmtNetworkIp"    , "1.3.6.1.4.1.3902.1015.1010.5.9.1.6"} ,  
 {"zxAnXponMgmtNetworkMask"   , "1.3.6.1.4.1.3902.1015.1010.5.9.1.7"} ,  
 {"zxAnXponMgmtNetworkGateway", "1.3.6.1.4.1.3902.1015.1010.5.9.1.8"} ,  
 {"zxAnXponMgmtIpEnableStatus", "1.3.6.1.4.1.3902.1015.1010.5.9.1.9"} ,  
 {"zxAnXponMgmtIpAssignationMode", "1.3.6.1.4.1.3902.1015.1010.5.9.1.10"} ,
```

6 EPON OLT

6.1 ONU Management

The table is used to create and delete the ONU under a certain OLT interface, to configure the authentication mode, authentication information, etc., and to perform basic management.

OID Specification

onuAdminObjectTable's OID is .1.3.6.1.4.1.3902.1015.1010.1.7.4.

Index Specification

{ ifIndex }, PON composite index Type 3 or 9.

MIB Specification

For detailed description, refer to ZXEPON-SERVICE-PRIVATE-MIB.mib.

Of them:

onuAuthLoid is LOID information, you can modify the LOID via setting this MIB object.

onuLatelyPassDot1xAuthTime is the final authorized pass time, and it can be used as ONU uptime.

onuAdminObjectTable OBJECT-TYPE

SYNTAX	SEQUENCE OF OnuAdminObjectEntry
MAX-ACCESS	not-accessible
STATUS	current
DESCRIPTION	""
	::= { privateObjects 4 }

onuAdminObjectEntry OBJECT-TYPE

SYNTAX	OnuAdminObjectEntry
MAX-ACCESS	not-accessible
STATUS	current
DESCRIPTION	""
INDEX	{ ifIndex }
	::= { onuAdminObjectTable 1 }

OnuAdminObjectEntry ::=

SEQUENCE {	
onuDescript	DisplayString,
onuSplitterSn	INTEGER,
onuOpticalLineSn	INTEGER,

onuUserInfo	DisplayString,
onuType	DisplayString,
onuAdminState	INTEGER,
onuAuthMACAddress	MacAddress,
onuRegisterMACAddress	MacAddress,
onuAuthMACSn	OCTET STRING,
onuRegisterSn	OCTET STRING,
onuCurrentRegState	INTEGER,
onuRegisterTime	DisplayString,
onuCurrAdminAuthState	INTEGER,
onuLatelyPassAdminAuthTime	DisplayString,
onuCurrDot1xAuthState	INTEGER,
onuLatelyPassDot1xAuthTime	DisplayString,
onuMgmtOnlineStatus	INTEGER,
onuActiveStatus	INTEGER,
onuMgmtEntryStatus	RowStatus,
onuMgmtIpCfgMode	INTEGER,
onuAuthLoid	DisplayString,
onuAuthPassword	DisplayString,
onuRegisterLoid	DisplayString,
onuRegisterPassword	DisplayString
}	

6.2 Unauthenticated ONU

EPON uncfg onu [ZXEPON-SERVICE-PRIVATE-MIB.mib] 6.2 Unauthenticated ONU is the whole table
.iso.org.dod.internet.private.enterprises.zte.zxAn.zxAnPonMib.zxAnEponMib.privateObjects.onuUnPa
ssedAdminAuthInfoTable
.1.3.6.1.4.1.3902.1015.1010.1.7.14.1

6.3 FEC Configuration

[zxGponFECMode @ zxGponservice.mib](#)
.1.3.6.1.4.1.3902.1012.3.11.3.1.1

7 EPON ONU

7.1 ONU Remote Operation

OID Specification

zxAnEponOnuActionTable's OID is .1.3.6.1.4.1.3902.1015.1010.1.1.2.1.

Index Specification

{ zxAnEponOnuIfIndex }, is PON composite index Type 3 or 9.

MIB Specification

For detailed description, refer to ZXANEAPON-ONUMGMT-MIB.mi2.

At present, there is only one zxAnEponOnuAction object, and its role is to reset the ONU.

zxAnEponOnuActionTable OBJECT-TYPE

SYNTAX SEQUENCE OF ZxAnEponOnuActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Update ONU parameters during run-time."

::= { zxAnEponOnuExtendedActionMgmt 1 }

zxAnEponOnuActionEntry OBJECT-TYPE

SYNTAX ZxAnEponOnuActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION " "

INDEX { zxAnEponOnuIfIndex }

::= { zxAnEponOnuActionTable 1 }

ZxAnEponOnuActionEntry ::=

SEQUENCE {

 zxAnEponOnuAction INTEGER

}

7.2 LAN port

7.2.1 Port Status

Index Specification

Type 3's PON composite index and port No.

OID Specification

MIB Variable	OID	Specification
<code>zxAnEponOnuPhyAdminState</code>	<code>.1.3.6.1.4.1.3902.1015.1010.1.1.3.1.1.1</code>	Management status
<code>zxAnEponOnuEthPortLinkState</code>	<code>.1.3.6.1.4.1.3902.1015.1010.1.1.1.5.1.2</code>	Online status

- **`zxAnEponOnuPhyAdminState` definition**

- 1 disable
- 2 enable

- **`zxAnEponOnuEthPortLinkState` definition**

- 1 down
- 2 up

7.2.2 Auto-Negotiation Status

Index Specification

Type 3's PON composite index and port No.

OID Specification

MIB Variable	OID	Specification
<code>zxAnEponOnuAutoNegAdminState</code>	<code>.1.3.6.1.4.1.3902.1015.1010.1.1.3.2.1.1</code>	Enable auto-negotiation
<code>zxAnEponOnuAutoNegCapability</code>	<code>.1.3.6.1.4.1.3902.1015.1010.1.1.3.2.1.2</code>	Auto-negotiation capacity
<code>zxAnEponOnuAutoNegCapAdvertised</code>	<code>.1.3.6.1.4.1.3902.1015.1010.1.1.3.2.1.3</code>	Auto-negotiation advertisement capacity

- **zxAnEponOnuAutoNegAdminState definition**

1 disable
2 enable

- **Meaning that each BIT of zxAnEponOnuAutoNegCapability indicates**

zx-GLOBAL (0),
zx-OTHER (1),
zx-UNKNOWN (2),
zx-10BASE-T (3),
zx-10BASE-TFD (4),
zx-100BASE-T4 (5),
zx-100BASE-TX (6),
zx-100BASE-TXFD (7),
zx-FDX-PAUSE (8),
zx-FDX-APAUSE (9),
zx-FDX-SPAUSE (10),
zx-FDX-BPAUSE (11),
zx-100BASE-T2 (12),
zx-100BASE-T2FD (13),
zx-1000BASE-X (14),
zx-1000BASE-XFD (15),
zx-1000BASE-T (16),
zx-1000BASE-TFD (17),
zx-REM-FAULT1 (18),
zx-REM-FAULT2 (19),
zx-ISO-ETHERNET (20) }

- **Meaning that each BIT of zxAnEponOnuAutoNegCapAdvertised indicates**

zx-GLOBAL (0),
zx-OTHER (1),
zx-UNKNOWN (2),
zx-10BASE-T (3),
zx-10BASE-TFD (4),
zx-100BASE-T4 (5),
zx-100BASE-TX (6),
zx-100BASE-TXFD (7),
zx-FDX-PAUSE (8),
zx-FDX-APAUSE (9),
zx-FDX-SPAUSE (10),
zx-FDX-BPAUSE (11),

zx-100BASE-T2 (12),
 zx-100BASE-T2FD (13),
 zx-1000BASE-X (14),
 zx-1000BASE-XFD (15),
 zx-1000BASE-T (16),
 zx-1000BASE-TFD (17),
 zx-REM-FAULT1 (18),
 zx-REM-FAULT2 (19),
 zx-ISO-ETHERNET (20) }

7.2.3 Port VLAN Mode

Index Specification

Type 3's PON composite index and port No.

OID Specification

MIB Variable	OID	Specification
zxAnEponOnuVlanMode	.1.3.6.1.4.1.3902.1015.1010.1.1.1.10.1.1.1	

- **zxAnEponOnuVlanMode definition**

- 1 Transparent transmission mode
- 2 Tag mode
- 3 Translation mode
- 4 Trunk mode
- 5 Hybrid mode

7.2.4 Tag VLAN

Index Specification

Type 3's PON composite index and port No.

OID Specification

MIB Variable	OID	Specification
zxAnEponOnuVlanTagVid	.1.3.6.1.4.1.3902.1015.1010.1.1.1.10.2.1.1	VID
zxAnEponOnuVlanTagTpId	.1.3.6.1.4.1.3902.1015.1010.1.1.1.10.2.1.2	TPID
zxAnEponOnuVlanTagCfi	.1.3.6.1.4.1.3902.1015.1010.1.1.1.10.2.1.3	CFI
zxAnEponOnuVlanPriority	.1.3.6.1.4.1.3902.1015.1010.1.1.1.10.2.1.4	Priority

7.2.5 Translation VLAN

Translation VLAN mode's port can configure multiple translation VLAN entries.

Index Specification

Type 3's PON composite index, port NO. and SN (start from 1).

OID Specification

MIB Variable	OID	Specification
<code>zxAnEponOnuVlanTransOriginalTag</code>	<code>.1.3.6.1.4.1.3902.1015.1010.1.1.1.10.3.1.2</code>	Old VLAN
<code>zxAnEponOnuVlanTransNewTag</code>	<code>.1.3.6.1.4.1.3902.1015.1010.1.1.1.10.3.1.3</code>	New VLAN

7.2.6 Trunk VLAN

Index Specification

Type 3's PON composite index and port No.

OID Specification

MIB Variable	OID	Specification
<code>zxAnEponOnuVlanTrunkModeVlan</code>	<code>.1.3.6.1.4.1.3902.1015.1010.1.1.1.10.4.1.1</code>	VLAN list

7.2.7 Hybrid VLAN

Index Specification

Type 3's PON composite index and port No.

OID Specification

MIB Variable	OID	Specification
<code>zxAnEponOnuVlanTrunkModeVlan</code>	<code>.1.3.6.1.4.1.3902.1015.1010.1.1.1.10.4.1.1</code>	VLAN list
<code>zxAnEponOnuVlanTagVid</code>	<code>.1.3.6.1.4.1.3902.1015.1010.1.1.1.10.2.1.1</code>	VID

7.2.8 Port Receiving and Sending Byte Numbers

Both sending byte number and receiving byte number are 32-bit integer without a symbol, and are accumulative amount. The port's receiving rate and sending rate can be got through calculating receiving byte number in a period of time ÷ time.

Index Specification

Type 3's PON composite index and port No.

OID Specification

MIB Variable	OID	Specification
parameter1	.1.3.6.1.4.1.3902.1015.1010.1.1.7.1.1.2	Receiving byte number
parameter6	.1.3.6.1.4.1.3902.1015.1010.1.1.7.1.1.7	Sending byte number

7.2.9 Port Traffic Control

Ethernet port traffic control

Index Specification

Type 3's PON composite index and port No.

OID Specification

MIB Variable	OID	Specification
zxAnEponOnuPortBackPressure	.1.3.6.1.4.1.3902.1015.1010.1.1.6.1.1	Traffic control
zxAnEponOnuPortPolicing	.1.3.6.1.4.1.3902.1015.1010.1.1.7.1.1	Uplink traffic policing
zxAnEponOnuPortPolicingCir	.1.3.6.1.4.1.3902.1015.1010.1.1.7.1.2	Uplink CIR
zxAnEponOnuPortPolicingBucketDepth	.1.3.6.1.4.1.3902.1015.1010.1.1.7.1.3	Uplink CBS
zxAnEponOnuPortPolicingExtraBurstSize	.1.3.6.1.4.1.3902.1015.1010.1.1.7.1.4	Uplink EBS
zxAnEponOnuPortPolicingDownStream	.1.3.6.1.4.1.3902.1015.1010.1.1.7.1.5	Downlink traffic policing
zxAnEponOnuPortPolicingCirDownStream	.1.3.6.1.4.1.3902.1015.1010.1.1.7.1.6	Downlink CIR
zxAnEponOnuPortPolicingBucketDepthDownSt ream	.1.3.6.1.4.1.3902.1015.1010.1.1.7.1.7	Downlink CBS
zxAnEponOnuPortPolicingExtraBurstSizeDown Stream	.1.3.6.1.4.1.3902.1015.1010.1.1.7.1.8	Downlink EBS

- **zxAnEponOnuPortBackPressure definition**
 - 1 deactive
 - 2 active
- **zxAnEponOnuPortPolicing definition**
 - 1 deactive
 - 2 active
- **zxAnEponOnuPortPolicingDownStream definition**

-
- 1 deactivate
 - 2 active

7.3 Multicast VLAN

multicast vlan port eth_0/2 add vlanlist 40

Name: zxAnEponOnuMulticastVlanTable
 Type: OBJECT-TYPE
 OID: 1.3.6.1.4.1.3902.1015.1010.1.1.1.12
 Full path:
 iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).zte(3902).zxAn(1015).zxAnPonMib(1010).zxAnEponMib(1).zxAnEponOnuRemoteMgmt(1).zxAnEponOnuExtendedAttrMgt(1).zxAnEponOnuMulticastVlanTable(12)
 Module: ZXANEAPON-ONUMGMT-MIB
 Status: current
 Max access: not-accessible
 Sequences:
 1: zxAnEponOnuMulticastVlanAction - INTEGER(2 - integer (32 bit))
 2: zxAnEponOnuMulticastVlanList - OCTET STRING(4 - octets)

7.4 VOIP

7.5 ONU E1 port

7.5.1 Port Management Status

Index Specification

Type 3's PON composite index and port No.

OID Specification

MIB Variable	OID	Specification
zxAnEponOnuE1PortEnable	.1.3.6.1.4.1.3902.1015.1010.1.1.1.9.1.1	

- **zxAnEponOnuE1PortEnable definition**

- 1 disable
- 2 enable

7.6 POTS Port Management

7.6.1 Port Management Status

Index Specification

Type 3's PON composite index and port No.

OID Specification

MIB Variable	OID	Specification
<code>zxAnEponOnuVoipPortEnable</code>	<code>.1.3.6.1.4.1.3902.1015.1010.1.1.1.8.1.1</code>	

- `zxAnEponOnuVoipPortEnable` definition

- 1 disable
- 2 enable

7.7 ONU Fiber Length

View the fiber length between the OLT and ONU

Index Specification

{ ifIndex }, Type 3 or 9 PON composite index.

OID Specification

For details, refer to ZXEPON-SERVICE-MIB.mib dot3MpcpStatTable, the table's OID is .1.3.6.1.4.1.3902.1015.1010.1.2.1.

MIB Variable	OID	Specification
<code>dot3MpcpRoundTripTime</code>	<code>.1.3.6.1.4.1.3902.1015.1010.1.2.1.1.10</code>	

- `dot3MpcpRoundTripTime`

`dot3MpcpRoundTripTime` indicates RoundTrip time between the OLT and ONU

$$\text{Fiber length} = \text{dot3MpcpRoundTripTime} * 1.635 / 1000$$

7.8 ONU Version and Model

ONU model, software version, hardware version, etc.

Index Specification

Type 3's PON composite index

OID Specification

MIB Variable	OID	Specification
zxAnEponOnuModel	.1.3.6.1.4.1.3902.1015.1010.1.1.1.1.3	ONU model
zxAnEponOnuSoftwareVersion	.1.3.6.1.4.1.3902.1015.1010.1.1.1.1.6	Software version
zxAnEponOnuHardwareVersion	.1.3.6.1.4.1.3902.1015.1010.1.1.1.1.5	Hardware version

8 GPON OLT

8.1 ONU Management

Refer to zxGponOntDevMgmtTable defined in zxGponService.mib. It is used to create and delete the ONU under a certain OLT interface, to configure the authentication mode, authentication information, etc., and to perform basic management.

Of them, zxGponOntRegId corresponds to PW, LOID authentication information, which can be modified via modifying the field.

Name	Oid	Range	Description
zxGponOntDevMgmtTypeNa me	.1.3.6.1.4.1.3902.10 12.3.28.1.1.1	STRING (SIZE (0 .. 64))	
zxGponOntDevMgmtProvisio nSn	.1.3.6.1.4.1.3902.10 12.3.28.1.1.5	(SIZE (8))	SN configured by Olt for the purpose of register
zxGponOntDevMgmtEntrySta tus	.1.3.6.1.4.1.3902.10 12.3.28.1.1.9		
zxGponOntRegMode	.1.3.6.1.4.1.3902.10 12.3.28.1.1.12	regModeSn(1), regModePw(2), regModeSnPlusPw(3), regModeRegisterId(4), regModeRegisterIdPlus8021x(5), regModeRegisterIdPlusMutual(6), regModeTefPw(7), regModeSnPlusTefPw(8), regModeLoid(9), regModeLoidPlusPw(10)	This object indicates the onu registration mode,'regModePwAutoBindSn' mode s is an extension of 'regModePw'. 'regModePwAutoBindSn' mode indicates serial number will binds password automatically.

8.2 ONU Status

Name: zxGponOntPhaseState

OID: .1.3.6.1.4.1.3902.1012.3.28.2.1.4

Description:

INTEGER { logging (0) , los (1) , syncMib (2) , working (3) , dyinggasp (4) , authFailed (5) , offline (6) }

8.3 T-CONT Profile

Refer to zxGponBandwidthProfileTable defined in zxGponService.mib.

Name	Oid	Range	Description
zxGponBWProfileIndex	.1.3.6.1.4.1.3902.1012 .3.26.1.1.1		
zxGponBWProfileName	.1.3.6.1.4.1.3902.1012 .3.26.1.1.2	(SIZE (0 .. 64))	
zxGponBWProfileFixed	.1.3.6.1.4.1.3902.1012 .3.26.1.1.3		
zxGponBWProfileAssured	.1.3.6.1.4.1.3902.1012 .3.26.1.1.4		
zxGponBWProfileMaximum	.1.3.6.1.4.1.3902.1012 .3.26.1.1.5		
zxGponBWProfileType	.1.3.6.1.4.1.3902.1012 .3.26.1.1.6	{ type1 (1) , type2 (2) , type3 (3) , type4 (4) , type5 (5) }	
zxGponBWProfileEntryStatus	.1.3.6.1.4.1.3902.1012 .3.26.1.1.8		

8.4 Gemport Traffic Profile

Refer to zxGponTrafficProfileTable defined in zxGponService.mib.

Name	Oid	Range	Description
zxGponTrafficProfileIndex	.1.3.6.1.4.1.3902.1012.3.26 .2.1.1		
zxGponTrafficProfileName	.1.3.6.1.4.1.3902.1012.3.26 .2.1.2	(SIZE (0 .. 64))	
zxGponTrafficProfileS	.1.3.6.1.4.1.3902.1012.3.26		

ir	.2.1.3		
zxGponTrafficProfileP ir	.1.3.6.1.4.1.3902.1012.3.26 .2.1.4		
zxGponTrafficProfile EntryStatus	.1.3.6.1.4.1.3902.1012.3.26 .2.1.6		

8.5 T-CONT

Refer to zxOnuTrafficMgmtUnitTable defined in zxGponService.mib.

Name	Oid	Range	Description
zxOnuTrafficMgmtUnitTcont Idx	.1.3.6.1.4.1.3902.1012.3.30 .1.1.1		An arbitrary(unique) integer for identifying an entry in the table, from 1 to N.
zxOnuTrafficMgmtUnitTcont UpBWIIdxPtr	.1.3.6.1.4.1.3902.1012.3.30 .1.1.3		This attribute is the index of template used by T-CONT BW configuration.
zxOnuTrafficMgmtUnitEntry Status	.1.3.6.1.4.1.3902.1012.3.30 .1.1.8		This entry can be create modified and delete.

8.6 GEM-Port

Refer to zxGponGemPortTable defined in zxGponService.mib.

Name	Oid	Range	Description
zxGponGemPortIdx	.1.3.6.1.4.1.3902.1012.3.30 .2.1.1		An arbitrary(unique) integer for identifying an entry in the table. It is the virtual portid index
zxGponGemPortName	.1.3.6.1.4.1.3902.1012.3.30 .2.1.2	(SIZE (0 .. 64))	This attribute specifies the name of the GEM port.
zxGponGemPortType	.1.3.6.1.4.1.3902.1012.3.30 .2.1.3	{ unicast (1) , multicast (2) }	This attribute specifies the type of the GEM port. Only 'unicast' is supported at present.
zxGponGemPortTcontIdx	.1.3.6.1.4.1.3902.1012.3.30 .2.1.4		It is equal to the 'zxOnuTrafficMgmtUnitTcontIdx' of 'zxOnuTrafficMgmtUnitTable'.
zxGponGemPortEntryStatus	.1.3.6.1.4.1.3902.1012.3.30 .2.1.10		This entry can be create modified and delete.

8.7 Gempore Traffic Limit

Refer to zxGponGemPortLimitRateTable defined in zxGponService.mib.

Name	Oid	Range	Description
zxGponGemPortLimitUpTrafficPtr	.1.3.6.1.4.1.3902.1012.3.30.3.1.1		The GEM PORT upstream traffic descriptor profile.
zxGponGemPortLimitDownTrafficPtr	.1.3.6.1.4.1.3902.1012.3.30.3.1.2		The GEM PORT downstream traffic descriptor profile.

8.8 VLAN (Service Port)

Refer to zxAnServicePortConfTable defined in ZTE-AN-SERVICEPORT-MIB.mib.

Name	Oid	Range	Description
zxAnServicePortServiceMode	1.3.6.1.4.1.3902.1015.8.1.1.1.4	1-15	
zxAnUserInVid	1.3.6.1.4.1.3902.1015.8.1.1.1.5	0-4094	
zxAnUserOutCVid	1.3.6.1.4.1.3902.1015.8.1.1.1.9	0-4094	
zxAnUserOutSVid	1.3.6.1.4.1.3902.1015.8.1.1.1.10	0-4094	
zxAnServicePortRowStatus	1.3.6.1.4.1.3902.1015.8.1.1.1.100		

8.9 Un-configured ONU

Please refer to zxGponUnCfgSnOntInfoTable defined in zxGponService.mib.

Name	Oid	Range	Description
zxGponUnCfgSnIdx	.1.3.6.1.4.1.3902.1012.3.13.3.1.1		
zxGponUnCfgSnOntSN	.1.3.6.1.4.1.3902.1012.3.13.3.1.2	(SIZE (8))	
zxGponUnCfgSnOntRID	.1.3.6.1.4.1.3902.1012.3.13.3.1.3	STRING	The register ID of the

	(SIZE (4))	un-configured ONT.
--	------------------	--------------------

This table is read only, and is used to get uncfg ONT SN information.

8.10 Traffic-profile

Please refer to zxAnQos3TrafficConfigTable defined in ZTE-AN-QOS3-MIB.mib

Name	Oid	Range	Description
zxAnQos3TrafficConfigTable	.1.3.6.1.4.1.3902.1015.21.4.6.2		
zxAnQos3TrafficConfigEntry	.1.3.6.1.4.1.3902.1015.21.4.6.2.1		
zxAnQos3TrafficPrf	.1.3.6.1.4.1.3902.1015.21.4.6.2.1.2		
zxAnQos3TrafficDirection	.1.3.6.1.4.1.3902.1015.21.4.6.2.1.1		
zxAnQos3TrafficConfigRowStatus	.1.3.6.1.4.1.3902.1015.21.4.6.2.1.20		

The relationship between profile and ONU interface

Name	Oid	Range	Description
zxAnQos3Rack	.1.3.6.1.4.1.3902.1015.21.4.3.1.1.1		
zxAnQos3Shelf	.1.3.6.1.4.1.3902.1015.21.4.3.1.1.2		
zxAnQos3Slot	.1.3.6.1.4.1.3902.1015.21.4.3.1.1.3		
zxAnQos3Port	.1.3.6.1.4.1.3902.1015.21.4.6.2.1.4		
zxAnQos3Onu	.1.3.6.1.4.1.3902.1015.21.4.6.2.1.5		
zxAnQos3VCircuitType	.1.3.6.1.4.1.3902.1015.21.4.3.1.1.6		
zxAnQos3LogicalId	.1.3.6.1.4.1.3902.1015.21.4.3.1.1.7		

9 GPON ONU

9.1 Service

Via creating the mapping from serviceConfigure user flow to gempport, refer to zxGponServiceTable defined in zxGponOntMgmt.mib.

Name	Oid	Range	Description
zxGponServiceIndex	.1.3.6.1.4.1.3902.1012.3.50.11.1.1.1		
zxGponServiceName	.1.3.6.1.4.1.3902.1012.3.50.21.1.1.2	STRING (SIZE (1 .. 32))	
zxGponServiceType	.1.3.6.1.4.1.3902.1012.3.50.21.1.1.2	internet(1),iptv(2),voip(3),internet-iptv(4),hybrid(5)	
zxGponServiceGemPort	.1.3.6.1.4.1.3902.1012.3.50.21.1.1.4		
zxGponServiceMapType	.1.3.6.1.4.1.3902.1012.3.50.21.1.1.5	cos(1), vlan (2),cos-vlan (3)	
zxGponServiceMapVlan	.1.3.6.1.4.1.3902.1012.3.50.21.1.1.7	STRING(SIZE(24))	
zxGponServiceEntryStatus	.1.3.6.1.4.1.3902.1012.3.50.11.1.1.1	2 bytes	This entry can be created, modified and deleted.

9.2 LAN Port

9.2.1 Port Management

Refer to zxGponPptpEthUNITable defined in zxGponOntMgmt.mib.

Name	Oid	Range	Description
zxGponPptpEthUNIAdminState	1.3.6.1.4.1.3902.1012.3.50.14.1.1.5		

9.2.2 Traffic Management

9.3 LAN Port VLAN

Please refer to following tables defined in zxGponOntMgmt.mib. Add and delete ONU UNI port's VLAN via configuring following tables.

Configuring ONU user port's vlan filter usually concerns two MIB tables, for the meaning of each MIB variable, refer to definitions in the MIB file:

```
{ "zxGponVlanPortTable"      , "1.3.6.1.4.1.3902.1012.3.50.15.100.1" } ,  
{ "zxGponVlanPortEntry"     , "1.3.6.1.4.1.3902.1012.3.50.15.100.1.1" } ,  
{ "zxGponVlanPortType"      , "1.3.6.1.4.1.3902.1012.3.50.15.100.1.1.1" } ,  
{ "zxGponVlanPortIndex"     , "1.3.6.1.4.1.3902.1012.3.50.15.100.1.1.2" } ,  
{ "zxGponVlanPortMode"      , "1.3.6.1.4.1.3902.1012.3.50.15.100.1.1.3" } ,  
{ "zxGponVlanPortPvid"      , "1.3.6.1.4.1.3902.1012.3.50.15.100.1.1.4" } ,  
  
{ "zxGponVlanPortConfVlanCmdTable", "1.3.6.1.4.1.3902.1012.3.50.15.100.2" } ,  
{ "zxGponVlanPortConfVlanCmdEntry", "1.3.6.1.4.1.3902.1012.3.50.15.100.2.1" } ,  
{ "zxGponVlanPortConfVlanCmd"    , "1.3.6.1.4.1.3902.1012.3.50.15.100.2.1.1" } ,  
{ "zxGponVlanPortConfVlanId"    , "1.3.6.1.4.1.3902.1012.3.50.15.100.2.1.2" } ,
```

In the following, take the configuration of gpon-onu_1/3/1:1 eth_0/1 to specify:

1. Transparent transmission mode:

```
ZXAN(gpon-onu-mng)#show onu running config gpon-onu_1/3/1:1  
pon-onu-mng gpon-onu_1/3/1:1  
    vlan port eth_0/1 mode transparent  
!
```

The corresponding MIB configuration is:

```
snmpset -v2c -c public ipaddr .1.3.6.1.4.1.3902.1012.3.50.15.100.1.1.3 i 4
```

2. Trunk mode:

```
ZXAN(gpon-onu-mng)#show onu running config gpon-onu_1/3/1:1  
pon-onu-mng gpon-onu_1/3/1:1  
    vlan port eth_0/1 mode trunk  
    vlan port eth_0/1 vlan 100  
!
```

The corresponding MIB operation:

```
snmpset -v2c -c public ipaddr .1.3.6.1.4.1.3902.1012.3.50.15.100.1.1.3 i 2
```

```
snmpset -v2c -c public ipaddr .1.3.6.1.4.1.3902.1012.3.50.15.100.2.1.1.268632320.2.1.1 i
1 .1.3.6.1.4.1.3902.1012.3.50.15.100.2.1.2.268632320.2.1.1 i 100
```

Other vlan processing modes are similar. Try to configure according to MIB definition by yourselves.

9.3.1 ZxGponVlanPortTable

Name	Oid	Range	Description
zxGponVlanPortType	.1.3.6.1.4.1.3902.1012.3.50 .15.100.1.1.1	ethuni(1), gemport-unicast(2), gemport-multicast(3), wifiuni(4), veip(5), wan(6)	This attribute indicates the type of port
zxGponVlanPortIndex	.1.3.6.1.4.1.3902.1012.3.50 .15.100.1.1.2	4 bytes	This attribute indicates the port index. For eth UNI: The third byte specifies the slot Id associated with this UNI; the forth byte specifies the port Id associated with this UNI. For flow: The forth byte specifies the flow Id.(4 bytes) For IPHost: The third and forth bytes provides a unique number for each instance of this managed entity.
zxGponVlanPortMode	.1.3.6.1.4.1.3902.1012.3.50 .15.100.1.1.3	iaccess(1),trunk(2), hybrid(3),transparent(4), na(5)	the access mode of the port
zxGponVlanPortPvid	.1.3.6.1.4.1.3902.1012.3.50 .15.100.1.1.4	1..4094	the pvid of the port
zxGponVlanPortDefaultPriority	.1.3.6.1.4.1.3902.1012.3.50 .15.100.1.1.5	0..7	the default priority of the port

9.3.2 ZxGponVlanPortConfVlanCmdTable

Name	Oid	Range	Description
zxGponVlanPortConfVlanCmd	.1.3.6.1.4.1.3902.1012.3.50 .15.100.2.1.1	addTaggedVlan(1),	The command to operate Vlan list of

		delTaggedVlan(2),	zxGponVlanPortConfTable.Each command is related to each meaning of zxGponVlanPortConfVlanObjName.
zxGponVlanPortConfVlanId	.1.3.6.1.4.1.3902.1012.3.50 .15.100.2.1.2	1..4094	The value of object name in Vlan list,eg.pkgName,chanName.Different command has different operated Vlan list,so this object has different meanings.please see the DESCRIPTION of zxGponVlanPortConfVlanListCmd.

9.3.3 ZxGponVlanTranslateTable

Name	Oid	Range	Description
zxGponVlanTranslateVlanId	.1.3.6.1.4.1.3902.1012.3.50 .15.100.3.1.1	1 .. 4094	VlanId for Vlan translate.
zxGponVlanTranslatePriority	.1.3.6.1.4.1.3902.1012.3.50 .15.100.3.1.2	0..8	Priority for Vlan translate,the scope of priority is from 0 to 8 and '8' indicates no configuration.
zxGponVlanTranslateCVlanId	.1.3.6.1.4.1.3902.1012.3.50 .15.100.3.1.3	0..4094	Inner VLAN for Vlan translate,'0' indicates no translation.
zxGponVlanTranslateCVlanPriority	.1.3.6.1.4.1.3902.1012.3.50 .15.100.3.1.4	0..8	Inner VLAN priority for Vlan translate,'8' indicates no translation.
zxGponVlanTranslateSVlanId	.1.3.6.1.4.1.3902.1012.3.50 .15.100.3.1.5	0..4094	Outer VLAN for Vlan translate,'0' indicates no SVLAN.
zxGponVlanTranslateSVlanPriority	.1.3.6.1.4.1.3902.1012.3.50 .15.100.3.1.6	0..8	Outer VLAN priority for Vlan translate,'8' indicates copy priority from inner VLAN priority.
zxGponVlanTranslateRowStatus	.1.3.6.1.4.1.3902.1012.3.50 .15.100.3.1.7		This object indicates the status of this entry

9.4 Multicast VLAN

Please refer to zxGponMCastVlanTable defined in zxGponOntMgmt.mib.

Name	Oid	Range	Description
zxGponMCastVlanId	.1.3.6.1.4.1.3902.1012.3.50. 15.24.1.1		
zxGponMCastVlanEntryStatus	.1.3.6.1.4.1.3902.1012.3.50. 15.24.1.2		

9.5 VOIP

Please refer to zxGponOntMgmt.mib.

9.5.1 IP Host

Please refer to zxGponIPHostConfigDataTable defined in zxGponOntMgmt.mib.

Name	Oid	Range	Description
zxGponIPHostConfigDataId	.1.3.6.1.4.1.3902.1012.3.50 .11.1.1.1	(1~n) read-only	This attribute provides a unique number for each instance of this managed entity. The ONT creates as many instances as there are independent IP stacks on the ONT.
zxGponIPHostConfigDataIP Address	.1.3.6.1.4.1.3902.1012.3.50 .16.1.1.5	IpAddress 4 bytes	Address used for all IP services hosted by the ONT, and has a default value of 0x0 [not set]. If this value is set, it will override any values returned in DHCP.
zxGponIPHostConfigDataIP Mask	.1.3.6.1.4.1.3902.1012.3.50 .16.1.1.6	IpAddress 4 bytes	Subnet mask for the IP services hosted by the ONT, and has a default value of 0x0 [not set]. If this value is set, it will override any values returned in DHCP.
zxGponIPHostConfigDataGateway	.1.3.6.1.4.1.3902.1012.3.50 .16.1.1.7	IpAddress 4 bytes	Default Gateway Address used for all IP services hosted by the ONT, and has a default value of 0x0 [not set]. If this value is set, it will override any values returned in DHCP.

9.5.2 VoIP Protocol Configuration

Name	Oid	Range	Description
zxGponVoIPConfigDataSignalProtocolUsed	.1.3.6.1.4.1.3902.1012.3.50.17.2.1.2	0x00 = None 0x01 = SIP 0x02 = H.248 0x03 = MGCP 0xFF = Selected by Non-OMCI Management Interface	This attribute identifies the type of VoIP signaling protocol used for ONT. Only one type of protocol is allowed

9.5.3 SIP Agent

Name	Oid	Range	Description
zxGponSIPAgentConfigDataId	.1.3.6.1.4.1.3902.1012.3.50.17.3.1.1	(1~n) (2 bytes)	This attribute provides a unique number for each instance of this managed entity.
zxGponSIPAgentConfigDataProxyServer	.1.3.6.1.4.1.3902.1012.3.50.17.3.1.2	STRING(SIZE(0..128))	This attribute provides a pointer to a LargeString ME that contains the name (IP address or URI) of the SIP Proxy Server for SIP signaling messages.
zxGponSIPAgentConfigDataPrimaryDNS	.1.3.6.1.4.1.3902.1012.3.50.17.3.1.4	4 bytes	This attribute defines the Primary SIP DNS IP Address. If this value is zero, the Primary SIP DNS should not be used. Default value of 0.
zxGponSIPAgentConfigDataUDPTCPPort	.1.3.6.1.4.1.3902.1012.3.50.17.3.1.6	2 bytes	This attribute indicates the UDP/TCP port num. This attribute associates the SIP Agent with the TCP/UDP service to be used for communication with the SIP Server. Default value is 0xFFFF.
zxGponSIPAgentConfigDataHostId	.1.3.6.1.4.1.3902.1012.3.50.17.3.1.7	2 bytes	This attribute associates the SIP Agent with the TCP/UDP service to be used for

			communication with the SIP Server. Default value is 0xFFFF.
zxGponSIPAgentConfigDataEntryStatus	.1.3.6.1.4.1.3902.1012.3.50 .11.1.1.1	2 bytes	This entry can be created, modified and deleted.

9.5.4 SIP User

Name	Oid	Range	Description
zxGponUNIIndex	.1.3.6.1.4.1.3902.1012.3.50 .11.1.1.3	(1~n) (2 bytes)	This attribute provides a unique number for each instance of this managed entity.
zxGponSIPUserDataAgentId	.1.3.6.1.4.1.3902.1012.3.50 .17.4.1.1	2 bytes	Points to the SIP Agent Config Data ME to be used for signaling.
zxGponSIPUserDataUserPartAOR	.1.3.6.1.4.1.3902.1012.3.50 .17.4.1.2	STRING(SIZE(0..128))	This attribute provides a pointer to a LargeString ME that contains the user identification part of the Address of Record. This can take the form of an alphanumeric string or the directory number used to reference the user in the network. 0xFFFF indicates that no user part AOR has been defined.
zxGponSIPUserDataUserName	.1.3.6.1.4.1.3902.1012.3.50 .17.4.1.4	STRING(SIZE(0..25))	This attribute defines the Customer ID used for outgoing SIP messages display attribute in ASCII string format. Default value shall be null (all zeros).
zxGponSIPUserDataPassword	.1.3.6.1.4.1.3902.1012.3.50 .17.4.1.5	STRING(SIZE(0..128))	A pointer to an Authentication Security Method ME that contains a SIP user name and password used for authentication. 0xFFFF indicates no username/password.

zxGponSIPUserDataEntryStatus	.1.3.6.1.4.1.3902.1012.3.50 .17.4.1.17	2 bytes	This entry can be create modified and delete.
------------------------------	---	---------	---

9.5.5 MGC Config

Name	Oid	Range	Description
zxGponMGCCConfigDataId	.1.3.6.1.4.1.3902.1012.3.50.17.7.1.1	2 bytes	This attribute provides a unique number for each instance of this managed entity.(1~n)
zxGponMGCCConfigDataPrimaryMGC	.1.3.6.1.4.1.3902.1012.3.50.17.7.1.2	STRING(SIZE(0..128))	This attribute points to a network address ME that contains the name (IP address or resolved name) of the primary MGC that controls the signalling messages. The port is optional and defaults to 2944 for text message formats and 2955 for binary message formats.
zxGponMGCCConfigDataTCPUDPPPort	.1.3.6.1.4.1.3902.1012.3.50.17.7.1.12	2 bytes	This attribute specifies the port (1~65535) of TCP/UDP used for communication with the MGC.
zxGponMGCCConfigDataTerminationIDbase	.1.3.6.1.4.1.3902.1012.3.50.17.7.1.19	STRING (SIZE(0..25))	The attribute specifies the base string for the H.248 physical termination id(s) for this ONT. This string is intended to uniquely identify an ONT. Vendor specific termination identifiers (i.e. port ids) are optionally added to this string to uniquely identify a termination on a specific ONT.
	.1.3.6.1.4.1.3902.1015.32 .20.1.2	STRING	Port location information
zxGponMGCCConfigDataEntryStatus	.1.3.6.1.4.1.3902.1012.3.50.17.7.1.21	2 bytes	This entry can be create modified and delete.

9.6 POTS Port

Please refer to zxGponPptpEthUNITable defined in zxGponOntMgmt.mib.

Name	Oid	Range	Description
------	-----	-------	-------------

zxGponPptpPOTSUNIA dminState	1.3.6.1.4.1.3902.1012.3.50.17.1. 1.1		
zxGponPptpPOTSUNIO perState	1.3.6.1.4.1.3902.1012.3.50.17.1. 1.9		

9.7 Flow Configuration

Please refer to zxGponOntMgmt.mib.

9.7.1 ZxGponFlowTable

Name	Oid	Range	Description
zxGponFlowIndex	.1.3.6.1.4.1.3902.1012.3.50.11.1.1.1	1..255	This attribute indicates the index of flow in ONT, from 1 to M.(1 bytes)
zxGponFlowEntryStatus	.1.3.6.1.4.1.3902.1012.3.50.13.1.1.3		This entry can be create modified and delete.

9.7.2 ZxGponFlowTciModeTable

Name	Oid	Range	Description
zxGponFlowTci ModeForwardOp er	.1.3.6.1.4.1.390 2.1012.3.50.11. 1.1.1	mode0(1), mode1(2), mode2(3), mode3(4), mode4(5), mode5(6), mode6(7), mode7(8),	When a frame is received, the frame is processed according to the following Forward Operations. The operations are invoked based on the value of VID, user priority, or the entire TCI or whether or not the TCI field exists. This attribute indicates the received frame is treated as indicated below.(1 byte) tag-filter-action untag-filter-action forward-mode 'transparent' 'transparent' 'mode0' 'discard' 'transparent' 'mode1' 'transparent' 'discard' 'mode2' 'vid-filter' 'transparent' 'mode3' 'vid-filter' 'discard' 'mode4' 'prio-filter' 'transparent' 'mode7' 'prio-filter' 'discard' 'mode8' 'prio-vid-filter' 'transparent' 'mode11' 'prio-vid-filter' 'discard' 'mode12'

		mode8(9), mode9(10), mode10(11), mode11(12), mode12(13), mode13(14), mode14(15), mode15(16), mode16(17), mode17(18), mode18(19), mode19(20), mode20(21), mode21(22)	'vid-match' 'vid-match' 'prio-match' 'prio-match' 'prio-vid-match' 'prio-vid-match' 'forward'	'transparent' 'discard' 'transparent' 'discard' 'transparent' 'discard' 'discard'	'mode15' 'mode16' 'mode17' 'mode18' 'mode19' 'mode20' 'mode21'
--	--	--	---	---	--

9.7.3 ZxGponFlowTciTable

Name	Oid	Range	Description
zxGponFlowTciIndex	.1.3.6.1.4.1.3902.1012.3.50.13.3.1.1	2 bytes	This attribute specifies the TCI value which is provisioned at a bridging port.
zxGponFlowTciEntryStatus	.1.3.6.1.4.1.3902.1012.3.50.13.3.1.2		This entry can be create modified and delete.

9.7.4 GEM Port Flow Configuration

Please refer to zxGponGemFlowTable defined in zxGponOntMgmt.mib.

Name	Oid	Range	Description
zxGponGemFlowId	.1.3.6.1.4.1.3902.1012.3.50.1 3.4.1.1	1..255	This attribute indicates the flow id related with this GEM flow.
zxGponGemFlowPriBitMap	.1.3.6.1.4.1.3902.1012.3.50.1 3.4.1.2	1 byte	This attribute indicates the priority bit map of this GEM flow. This bitmap specifies the priorities used by this connection when using 802.1p mapping. Each bit from bit0(LSB) to bit7(MSB) indicates whether priority0~priority7 is occupied. When the flow type of zxGponGemFlowId is not 'switch', zxGponGemFlowPriBitMap must be assigned non-zero; Otherwise, zxGponGemFlowPriBitMap is optional which can be assigned as zero.
zxGponGemFlowEntryStatus	.1.3.6.1.4.1.3902.1012.3.50.1 3.4.1.3		This entry can be create modified and delete.

9.8 Remote Operation

OID Specification

zxGponONTActionTable's OID is .1.3.6.1.4.1.3902.1012.3.50.11.3.

Index Specification

{ zxGponOltIndex, zxGponONTIndex }, zxGponOltIndex are PON Type 1 composite index, others are regular index.

MIB Specification

For detailed description, refer to zxGponOntMgmt.mib.

Of them, zxGponONTReboot is to reset the ONU.

zxGponONTActionTable OBJECT-TYPE
SYNTAX SEQUENCE OF ZxGponONTActionEntry
MAX-ACCESS not-accessible
STATUS current

DESCRIPTION
""

```
 ::= { zxGponRmONTEquipMgmt 3 }
```

zxGponONTActionEntry OBJECT-TYPE
SYNTAX ZxGponONTActionEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"It is entry in the zxGponONTActionTable."
INDEX { zxGponOltIndex, zxGponONTIndex }
 ::= { zxGponONTActionTable 1 }

ZxGponONTActionEntry ::=
SEQUENCE {
 zxGponONTReboot TruthValue,
 zxGponONTTest TruthValue,
 zxGponONTSyncTime TruthValue,
 zxGponONTRestore TruthValue,
 zxGponONTTestResult INTEGER,
 zxGponONTRestoreFactory TruthValue
}

9.9 MAC Address Table Query

MIB object name and OID:

```
{ "zxGponBridgePortAddrListTotalNum", "1.3.6.1.4.1.3902.1012.3.50.15.28.1.2" } ,  
{ "zxGponBridgePortAddrListData" , "1.3.6.1.4.1.3902.1012.3.50.15.28.1.4" } ,
```

Index Specification:

Level-5 index: INDEX { zxGponOltIndex, zxGponONTIndex, zxGponBridgePortType, zxGponBridgePortIndex, zxGponBridgePortAddrListIndex }

Indicate Type 1's PON composite index respectively. ONU numbering. Bridge port type. Bridge port numbering. Last time address sequence.

Operation specification:

Only support getnext operation

MIB reference:

zxGponBridgePortAddrListTable defined in **zxGponOntMgmt.mib**

9.10 WIFI Configuration

```

{"zxAnOnuWifiIfAdminStatus"      , "1.3.6.1.4.1.3902.1015.1010.12.2.2.1.1"} ,
 {"zxAnOnuWifiIfRadioMeasEnable" , "1.3.6.1.4.1.3902.1015.1010.12.2.2.1.2"} ,
 {"zxAnOnuWifiIfIsolationEnable", "1.3.6.1.4.1.3902.1015.1010.12.2.2.1.3"} ,
 {"zxAnOnuWifiIfWirelessWorkMode", "1.3.6.1.4.1.3902.1015.1010.12.2.2.1.4"} ,
 {"zxAnOnuWifiIfRegulatoryDomain", "1.3.6.1.4.1.3902.1015.1010.12.2.2.1.5"} ,
 {"zxAnOnuWifiIfArcEnable"       , "1.3.6.1.4.1.3902.1015.1010.12.2.2.1.6"} ,
 {"zxAnOnuWifiIfArcInterval"    , "1.3.6.1.4.1.3902.1015.1010.12.2.2.1.7"} ,
 {"zxAnOnuWifiIfOperationalStatus", "1.3.6.1.4.1.3902.1015.1010.12.2.2.1.8"} ,
 {"zxAnOnuWifiIfChannelBandwidth", "1.3.6.1.4.1.3902.1015.1010.12.2.2.1.9"} ,
 {"zxAnOnuWifiIfSgiEnable"      , "1.3.6.1.4.1.3902.1015.1010.12.2.2.1.10"} ,
 {"zxAnOnuWifiIfChannel"        , "1.3.6.1.4.1.3902.1015.1010.12.2.2.1.11"} ,
 {"zxAnOnuWifiIfTxRate"         , "1.3.6.1.4.1.3902.1015.1010.12.2.2.1.12"} ,
 {"zxAnOnuWifiIfTxPower"        , "1.3.6.1.4.1.3902.1015.1010.12.2.2.1.13"} ,
 {"zxAnOnuWifiIfQosType"        , "1.3.6.1.4.1.3902.1015.1010.12.2.2.1.14"} ,

```

9.11 VEIP Configuration

switchport-bind switch_0/1 veip 1

```

 {"zxGponUNIMACBridgePortConfigTable", "1.3.6.1.4.1.3902.1012.3.50.15.3"} ,
 {"zxGponUNIMACBridgePortConfigEntry", "1.3.6.1.4.1.3902.1012.3.50.15.3.1"} ,
 {"zxGponUNIMACBridgePortConfigBridgeId", "1.3.6.1.4.1.3902.1012.3.50.15.3.1.1"} ,
 {"zxGponUNIMACBridgePortConfigBridgePort", "1.3.6.1.4.1.3902.1012.3.50.15.3.1.2"} ,
 {"zxGponUNIMACBridgePortConfigPortPrio", "1.3.6.1.4.1.3902.1012.3.50.15.3.1.3"} ,
 {"zxGponUNIMACBridgePortConfigPortPathCost", "1.3.6.1.4.1.3902.1012.3.50.15.3.1.4"} ,
 {"zxGponUNIMACBridgePortConfigPortSpanTreeInd",
 "1.3.6.1.4.1.3902.1012.3.50.15.3.1.5"} ,
 {"zxGponUNIMACBridgePortConfigEncapMethod", "1.3.6.1.4.1.3902.1012.3.50.15.3.1.6"} ,
 {"zxGponUNIMACBridgePortConfigLANFCSInd", "1.3.6.1.4.1.3902.1012.3.50.15.3.1.7"} ,
 {"zxGponUNIMACBridgePortConfigPortMACAddr",
 "1.3.6.1.4.1.3902.1012.3.50.15.3.1.8"} ,
 {"zxGponUNIMACBridgePortConfigEntryStatus", "1.3.6.1.4.1.3902.1012.3.50.15.3.1.9"} ,
 {"zxGponUNIMACBridgePortConfigOutboundTDPtr",
 "1.3.6.1.4.1.3902.1012.3.50.15.3.1.10"} ,
 {"zxGponUNIMACBridgePortConfigInboundTDPtr",
 "1.3.6.1.4.1.3902.1012.3.50.15.3.1.11"} ,
 {"zxGponUniMacBridgePortAddrLearnDepth", "1.3.6.1.4.1.3902.1012.3.50.15.3.1.12"} ,
 {"zxGponUniMacBPortOutboundTdPrf", "1.3.6.1.4.1.3902.1012.3.50.15.3.1.13"} ,
 {"zxGponUniMacBPortInboundTdPrf", "1.3.6.1.4.1.3902.1012.3.50.15.3.1.14"} ,

```

Level-3 index: INDEX { zxGponOltIndex, zxGponONTIndex, zxGponUNIIndex }

Of them, **zxGponUNIIndex** code is $(2 << 16) | (\text{UNI slot} << 8) | \text{UNI port}$

2 indicates VEIP type.

When creating VEIP bridge port, you need to specify zxGponUNIMACBridgePortConfigBridgeId.

9.12UNI Port Performance Statistics

//Ethernet statistics needs to be enabled on the ONU,
 you can set via operating {"zxGponOmciEthStatsEntryStatus",
 "1.3.6.1.4.1.3902.1012.3.50.8.1.1.17"} control performance statistics, when it is set as 4,
 it indicates to start; when it is set as 6, it indicates to delete.

Level-3 index: zxGponOltIndex, zxGponONTIndex, zxGponUNIIndex

Ethernet performance statistics

Uplink:

```
{"zxGponOmciEthStatsUpTable" , "1.3.6.1.4.1.3902.1012.3.50.8.16" } ,  

 {"zxGponOmciEthStatsUpEntry" , "1.3.6.1.4.1.3902.1012.3.50.8.16.1" } ,  

 {"zxGponOmciEthStatsUpIntervalEndTime", "1.3.6.1.4.1.3902.1012.3.50.8.16.1.1" } ,  

 {"zxGponOmciEthStatsUpThresDataId", "1.3.6.1.4.1.3902.1012.3.50.8.16.1.2" } ,  

 {"zxGponOmciEthStatsUpDropEvents", "1.3.6.1.4.1.3902.1012.3.50.8.16.1.3" } ,  

 {"zxGponOmciEthStatsUpOctets" , "1.3.6.1.4.1.3902.1012.3.50.8.16.1.4" } ,  

 {"zxGponOmciEthStatsUpPkts" , "1.3.6.1.4.1.3902.1012.3.50.8.16.1.5" } ,  

 {"zxGponOmciEthStatsUpBroadcastPkts", "1.3.6.1.4.1.3902.1012.3.50.8.16.1.6" } ,  

 {"zxGponOmciEthStatsUpMulticastPkts", "1.3.6.1.4.1.3902.1012.3.50.8.16.1.7" } ,  

 {"zxGponOmciEthStatsUpCRCErrPkts", "1.3.6.1.4.1.3902.1012.3.50.8.16.1.8" } ,  

 {"zxGponOmciEthStatsUpUndersizePkts", "1.3.6.1.4.1.3902.1012.3.50.8.16.1.9" } ,  

 {"zxGponOmciEthStatsUpOversizePkts", "1.3.6.1.4.1.3902.1012.3.50.8.16.1.10" } ,  

 {"zxGponOmciEthStatsUp64OctetsPkts", "1.3.6.1.4.1.3902.1012.3.50.8.16.1.11" } ,  

 {"zxGponOmciEthStatsUp65To127OctetsPkts", "1.3.6.1.4.1.3902.1012.3.50.8.16.1.12" } ,  

 {"zxGponOmciEthStatsUp128To255OctetsPkts", "1.3.6.1.4.1.3902.1012.3.50.8.16.1.13" } ,  

 {"zxGponOmciEthStatsUp256To511OctetsPkts", "1.3.6.1.4.1.3902.1012.3.50.8.16.1.14" } ,  

 {"zxGponOmciEthStatsUp512To1023OctetsPkts",  

 "1.3.6.1.4.1.3902.1012.3.50.8.16.1.15" } ,  

 {"zxGponOmciEthStatsUp1024To1518OctetsPkts",  

 "1.3.6.1.4.1.3902.1012.3.50.8.16.1.16" } ,  

 {"zxGponOmciEthStatsUpEntryStatus", "1.3.6.1.4.1.3902.1012.3.50.8.16.1.30" } , //Used  

 to start the performance statistics, when it is set as 4, it indicates to start statistics; when it is set as  

 6, it indicates to delete statistics.
```

Downlink:

```
{"zxGponOmciEthStatsDownTable" , "1.3.6.1.4.1.3902.1012.3.50.8.17" } ,  
 {"zxGponOmciEthStatsDownEntry" , "1.3.6.1.4.1.3902.1012.3.50.8.17.1" } ,  
 {"zxGponOmciEthStatsDownIntervalEndTime", "1.3.6.1.4.1.3902.1012.3.50.8.17.1.1" } ,  
 {"zxGponOmciEthStatsDownThresDataId", "1.3.6.1.4.1.3902.1012.3.50.8.17.1.2" } ,  
 {"zxGponOmciEthStatsDownDropEvents", "1.3.6.1.4.1.3902.1012.3.50.8.17.1.3" } ,  
 {"zxGponOmciEthStatsDownOctets", "1.3.6.1.4.1.3902.1012.3.50.8.17.1.4" } ,  
 {"zxGponOmciEthStatsDownPkts" , "1.3.6.1.4.1.3902.1012.3.50.8.17.1.5" } ,  
 {"zxGponOmciEthStatsDownBroadcastPkts", "1.3.6.1.4.1.3902.1012.3.50.8.17.1.6" } ,  
 {"zxGponOmciEthStatsDownMulticastPkts", "1.3.6.1.4.1.3902.1012.3.50.8.17.1.7" } ,  
 {"zxGponOmciEthStatsDownCRCErrPkts", "1.3.6.1.4.1.3902.1012.3.50.8.17.1.8" } ,  
 {"zxGponOmciEthStatsDownUndersizePkts", "1.3.6.1.4.1.3902.1012.3.50.8.17.1.9" } ,  
 {"zxGponOmciEthStatsDownOversizePkts", "1.3.6.1.4.1.3902.1012.3.50.8.17.1.10" } ,  
 {"zxGponOmciEthStatsDown64OctetsPkts", "1.3.6.1.4.1.3902.1012.3.50.8.17.1.11" } ,  
 {"zxGponOmciEthStatsDown65To127OctetsPkts",  
 "1.3.6.1.4.1.3902.1012.3.50.8.17.1.12" } ,  
 {"zxGponOmciEthStatsDown128To255OctetsPkts",  
 "1.3.6.1.4.1.3902.1012.3.50.8.17.1.13" } ,  
 {"zxGponOmciEthStatsDown256To511OctetsPkts",  
 "1.3.6.1.4.1.3902.1012.3.50.8.17.1.14" } ,  
 {"zxGponOmciEthStatsDown512To1023OctetsPkts",  
 "1.3.6.1.4.1.3902.1012.3.50.8.17.1.15" } ,  
 {"zxGponOmciEthStatsDown1024To1518OctetsPkts",  
 "1.3.6.1.4.1.3902.1012.3.50.8.17.1.16" } ,  
 {"zxGponOmciEthStatsDownEntryStatus", "1.3.6.1.4.1.3902.1012.3.50.8.17.1.30" } ,  
 //Used to start the performance statistics, when it is set as 4, it indicates to start statistics; when it  
 is set as 6, it indicates to delete statistics.
```

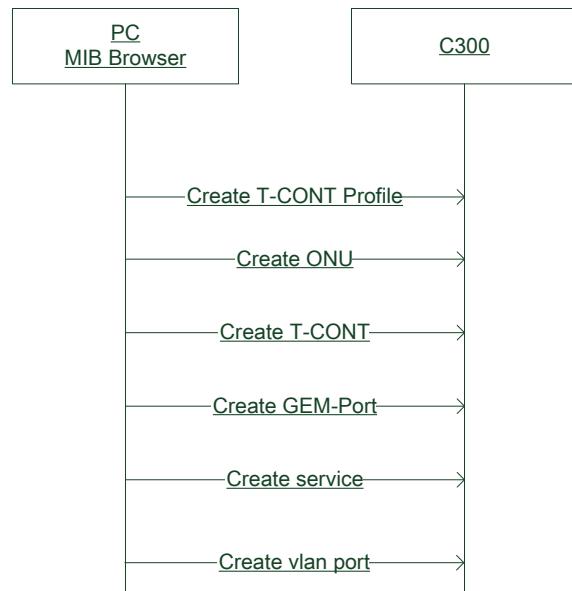
10 Configuration Process Examples

10.1 GPON HSI Service

10.1.1 Configuration Data

Item	Data
T-CONT Bandwidth profile	Index 2 Type1 fixed 20M
ONU	Slot 3 olt 1 onu 1 type ZTE-F622 register mode : sn CIGG00000001
T-CONT	Index 1 Link profile 20M
GEM-Port	Index 1 Link T-CONT 1
service	Index 1 Link GEM-Port 1 ServiceType:internet ServiceMapType:VLAN ServiceMapVlan:200
vlan port	vlanPortMode:hybrid untag add pvid vlanProfile0 at ethUni, then vlan 10 translate to vlan 100.

10.1.2 Configuration Steps



In CLI case:

```
ZXAN(config-gpon)#profile tcont T1-20M type 1 fixed 20000
```

```
ZXAN(config-if)#onu 1 type ZTE-F622 sn CIGG00000001
```

```
ZXAN(config-if)#tcont 1 p T1-10M
```

```
ZXAN(config-if)#gempore 1 name Gem1 unicast tcont 1
```

```
ZXAN(gpon-onu-mng)# service vlanProfile00 type internet gempore 1 vlan 100
```

```
ZXAN(gpon-onu-mng)# vlan port eth_0/1 mode hybrid
```

```
ZXAN(gpon-onu-mng)# vlan port eth_0/1 vlan 10
```

```
ZXAN(gpon-onu-mng)# vlan port eth_0/1 translate vlan 10 svlan 100
```

STEP	MIB Variable	Parameter
Create T-CONT Profile	zxGponBWProfileIndex	0x70000002
	zxGponBWProfileName	T1-20M (string) profile name
	zxGponBWProfileFixed	20000 20M rate
	zxGponBWProfileAssured	0
	zxGponBWProfileMaximum	0
	zxGponBWProfileType	1 fixed bandwidth
	zxGponBWProfileEntryStatus	4 Creation
Create ONU	zxGponOntDevMgmtTypeName	ZTE-F622 (string) ONU type
	zxGponOntDevMgmtProvisionSn	Hex format number for ONU SN,e.g.CIGG00000001 means '43:49:47:47:00:00:00:01'
	zxGponOntDevMgmtEntryStatus	4 creation
	zxGponOntRegMode	1 registration mode:SN
Create T-CONT	zxOnuTrafficMgmtUnitTcontIdx	1 T-CONT ID
	zxOnuTrafficMgmtUnitTcontUpBWIdxPtr	0x70000002 associated Ifid
	zxOnuTrafficMgmtUnitEntryStatus	4 creation
Create GEM-Port	zxGponGemPortIdx	1 GEM-Port ID
	zxGponGemPortName	Gem1 (string) PORT Name
	zxGponGemPortType	1 unicast PORT Type
	zxGponGemPortTcontIdx	1 associated T-CONT(ID)
	zxGponGemPortEntryStatus	4 creation
Create service	zxGponServiceIndex	1
	zxGponServiceName	vlanProfile00
	zxGponServiceType	1 internet
	zxGponServiceGemPort	gemport 1
	zxGponServiceMapType	2 vlan
	zxGponServiceMapVlan	100

STEP	MIB Variable	Parameter
	zxGponServiceEntryStatus	4 creation
Create vlan port	zxGponVlanPortType	1 ethuni
	zxGponVlanPortIndex	1
	zxGponVlanPortMode	3 hybrid
	zxGponVlanPortPvid	10
	zxGponVlanPortConfVlanCmd	1 addTaggedVlan
	zxGponVlanPortConfVlanId	10
	zxGponVlanTranslateVlanId	10
	zxGponVlanTranslatePriority	8 no configuration
	zxGponVlanTranslateSVlanId	100
	zxGponVlanTranslateSVlanPriority	8 no configuration

PS: The 2nd index is need for ONU/TCONT/GEMPORT creation.

The primary Index: OLT Ifindex

The 2nd Index: ONU ID (e.g. 1, 2, 3, 4, ...)

10.2 GPON VOIP

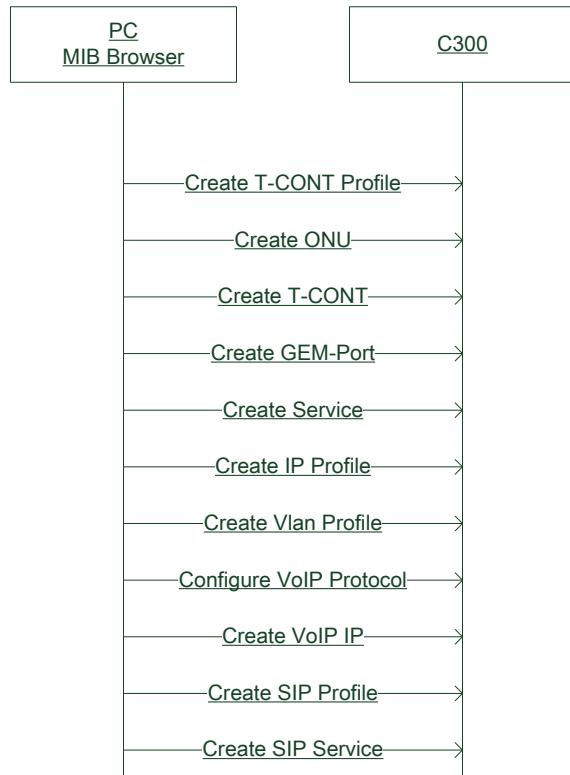
10.2.1 SIP

Configuration Data

Item	Data
T-CONT Bandwidth profile	Index 2 Type1 fixed 20M
ONU	Slot 3 olt 1 onu 1 type ZTE-F622 register mode : sn CIGG00000001

Item	Data
T-CONT	Index 1 Link profile 20M
GEM-Port	Index 1 Link T-CONT 1
service	Index 1 Link GEM-Port 1 ServiceType:voip ServiceMapType:VLAN ServiceMapVlan:200
VoIP (SIP)	SignalProtocolUsed:SIP VLAN 200 ONT IP: 10.40.110.101, Mask: 255.255.255.0, Gateway: 10.40.110.254 POTS1: AOR: 66660050 Username: 66660050 Password: 123 POTS2: AOR: 66660051 Username: 66660051 Password: 123

Configuration Steps



In CLI case:

PON configuration is the same as 2.1.2.

```
ZXAN(gpon-onu-mng)#service voip type voip iphost 1 gempport 1 vlan 200
```

```
ZXAN(config-gpon)#onu profile ip ipProfile static gateway 10.40.110.254
```

```
ZXAN(config-gpon)# onu profile vlan vlanProfile tag-mode tag cvlan 200
```

```
ZXAN(gpon-onu-mng)#voip protocol sip
```

```
ZXAN(gpon-onu-mng)#voip-ip mode static ip-profileipProfile ip 10.40.110.101 mask 255.255.255.0 vlan-profile  
vlanProfile host 1
```

ZXAN(config-gpon)#onu profile sip sipProfile proxy 10.40.123.25

ZXAN(gpon-onu-mng)#sip-service pots_0/1 profile sipProfile userid 66660050 username 66660050 password 123

ZXAN(gpon-onu-mng)#sip-service pots_0/2 profile sipProfile userid 66660051 username 66660051 password 123

Steps	MIB Variable	Parameter
Create service	zxGponServiceIndex	1
	zxGponServiceName	voip
	zxGponServiceType	3 voip
	zxGponServiceIfId	2 iphost
	zxGponServiceGemPort	gemport 1
	zxGponServiceMapType	2 vlan
	zxGponServiceMapVlan	200
	zxGponServiceEntryStatus	4 creation
Create IP Profile	zxGponVoipIpProfileName	ipProfile
	zxGponVoipIpProfileGateway	'0a:28:6e:fe' 10.40.110.254
	zxGponVoipIpProfileRowStatus	4 creation
Create Vlan Profile	zxGponVoipVlanProfileName	vlanProfile
	zxGponVoipVlanProfileTagMode	1 tag
	zxGponVoipVlanProfileCVlanId	200
	zxGponVoipVlanProfileRowStatus	4 creation
Create VoIP IP	zxGponOnuVoipIpMode	1 static
	zxGponOnuVoipIpProfile	ipProfile
	zxGponOnuVoipVlanProfile	vlanProfile
	zxGponOnuVoipHostId	1
	zxGponOnuVoipIpAddr	'0a:28:6e:65' 10.40.110.101
	zxGponOnuVoipIpAddrPfxLen	24 255.255.255.0

Steps	MIB Variable	Parameter
Configure VoIP Protocol	zxGponVoIPConfigDataSignalProtocolUsed	2 sip
Create SIP Profile	zxGponSipProfileId	0x70000001
	zxGponSipProfileName	sipProfile
	zxGponSipProxyServerAddress	'0a:28:7b:19'
	zxGponSipRowStatus	10.40.123.25 4 creation
Create Server SIP	zxGponUNIIndex	1
	zxGponSipUserProfileId	0x70000001
	zxGponSipUserPartAor	66660050
	zxGponSipUsername	66660050
	zxGponSipUserPassword	123
	zxGponSipUserRowStatus	4 creation
	zxGponUNIIndex	2
	zxGponSipUserProfileId	0x70000001
	zxGponSipUserPartAor	66660051
	zxGponSipUsername	66660051
	zxGponSipUserPassword	123
	zxGponSipUserRowStatus	4 creation

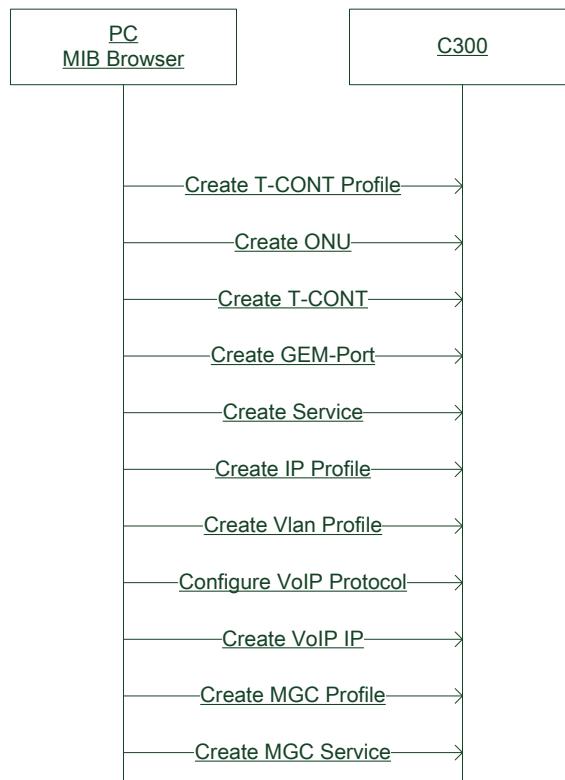
10.2.2 H.248

Configuration Data

Item	Data
T-CONT Bandwidth profile	Index 2 Type1 fixed 20M
ONU	Slot 3 olt 1 onu 1 type ZTE-F622 register mode : sn CIGG00000001
T-CONT	Index 1 Link profile 20M
GEM-Port	Index 1 Link T-CONT 1

Item	Data
service	Index 1 Link GEM-Port 1 ServiceType:voip ServiceMapType:VLAN ServiceMapVlan:200
VoIP (SIP)	Link Service 1 SignalProtocolUsed: H.248 VLAN: 200 ONT IP: 10.40.110.101, Mask: 255.255.255.0, Gateway: 10.40.110.254 Server: 10.63.198.200 user-tid: AG589, postfix-len:5, postfix-start:1 rtp-tid: RTP, postfix-len:3, postfix-start:0

Configuration Steps



In CLI case:

PON configuration is same as 2.1.2.

ZXAN(gpon-onu-mng)#service voip type voip iphost 1 gemport 1 vlan 200

ZXAN(config-gpon)#onu profile ip ipProfile static gateway 10.40.110.254

ZXAN(config-gpon)# onu profile vlan vlanProfile tag-mode tag cvlan 200

ZXAN(gpon-onu-mng)# voip protocol h248 domain domain1

ZXAN(gpon-onu-mng)#voip-ip mode static ip-profile ipProfile ip 10.40.110.101 mask 255.255.255.0 vlan-profile vlanProfile host 1

ZXAN(config-gpon)#onu profile mgc mgcProfile server1 10.63.198.200

ZXAN(config-gpon)#onu profile mgc mgcProfile user-tid prefix AG589 postfix-len 5 postfix-start 1

ZXAN(config-gpon)#onu profile mgc mgcProfile rtp-tid prefix RTP postfix-len 3 postfix-start 0

ZXAN(gpon-onu-mng)#mgc-service pots_0/1 profile mgcProfile

Steps	MIB Variable	Parameter
Create service	zxGponServiceIndex	1
	zxGponServiceName	voip
	zxGponServiceType	3 voip
	zxGponServiceIfId	2 iphost
	zxGponServiceGemPort	gemport 1
	zxGponServiceMapType	2 vlan
	zxGponServiceMapVlan	200
	zxGponServiceEntryStatus	4 creation
Create IP Profile	zxGponVoipIpProfileName	ipProfile
	zxGponVoipIpProfileGateway	'0a:28:6e:fe' 10.40.110.254
	zxGponVoipIpProfileRowStatus	4

Steps	MIB Variable	Parameter	
		creation	
Create Vlan Profile	zxGponVoipVlanProfileName	vlanProfile	
	zxGponVoipVlanProfileTagMode	1 tag	
	zxGponVoipVlanProfileCVlanId	200	
	zxGponVoipVlanProfileRowStatus	4 creation	
Create VoIP IP	zxGponOnuVoipIpMode	1 static	
	zxGponOnuVoipIpProfile	ipProfile	
	zxGponOnuVoipVlanProfile	vlanProfile	
	zxGponOnuVoipHostId	1	
	zxGponOnuVoipIpAddr	'0a:28:6e:65'	10.40.110.101
	zxGponOnuVoipIpAddrPfxLen	24 255.255.255.0	
Configure VoIP Protocol	zxGponVoIPConfigDataSignalProtocolUsed	3 h248	
	zxGponVoIPOnuDomainName	domain1	
Create Mgc Profile	zxGponMgcProfileId	0x70000001	
	zxGponMgcProfileName	mgcProfile	
	zxGponMgcPrimaryServer	'0a:28:7b:19'	10.40.123.25
	zxGponMgcUserTidAssignPolicy	2 specified	
	zxGponMgcUserTidPrefix	AG589	
	zxGponMgcUserTidPostfixLen	5	
	zxGponMgcUserTidPostfixStartNum	1	
	zxGponMgcRtpTidAssignPolicy	2 specified	
	zxGponMgcRtpTidPrefix	RTP	
	zxGponMgcRtpTidPostfixLen	3	
	zxGponMgcRtpTidPostfixStartNum	0	
	zxGponSipRowStatus	4 creation	
Create Mgc Server	zxGponUNIIndex	1	
	zxGponMgcUserProfileId	0x70000001	
	zxGponMgcUserRowStatus	4	

Steps	MIB Variable	Parameter
		creation

10.3 EPON HIS Service

10.4 EPON VOIP

11 Optical Module and Optical Power

11.1V1.2.0 PON Optical Module

OID Specification

zxAnOLTOpticalDiagTable's OID is .1.3.6.1.4.1.3902.1015.1010.11.1.

Index Specification

{ zxAnOltIndex }, Type 1 PON composite index.

MIB Specification

For detailed description, refer to ZXAN-TRANSCEIVER-MIB.mib.

Only optical modules of the PON port use this MIB.

C300V1.2.3 changes to use platform MIB, the following MIB do not support any more.

Optical power unit is 0.001dBm.

zxAnOLTOpticalDiagTable OBJECT-TYPE
SYNTAX SEQUENCE OF ZxAnOLTOpticalDiagEntry
MAX-ACCESS not-accessible
STATUS deprecated
DESCRIPTION
" "
::= { zxAnTransceiver 1 }

zxAnOLTOpticalDiagEntry OBJECT-TYPE
SYNTAX ZxAnOLTOpticalDiagEntry
MAX-ACCESS not-accessible
STATUS deprecated
DESCRIPTION
"
INDEX { zxAnOltIndex }
::= { zxAnOLTOpticalDiagTable 1 }

ZxAnOLTOpticalDiagEntry ::= SEQUENCE {
zxAnOltIndex Integer32,
zxAnTransceiverTemp Integer32,
zxAnTransceiverVoltage Integer32,
zxAnTxBiasCurrent Integer32,
zxAnTxOpticalPower Integer32,
zxAnRxOpticalPower Integer32,
zxAnTransceiverLinkRate Integer32,

```
zxAnTransceiverWaveLength      Integer32,  
zxAnTransceiverVendorName     OCTET STRING,  
zxAnTransceiverVendorPn       OCTET STRING  
}
```

11.2 Optical Module

All optical modules of the Ethernet port and PON port in V1.2.3 query via this MIB.
CES optical modules in V1.2.5 also query via this MIB.

11.2.1 Information Query

OID Specification

zxAnOpticalModuleMonTable's OID is .1.3.6.1.4.1.3902.1015.3.1.13.

OLT's transmitting optical power

zxAnOpticalPowerTxCurrValue: .1.3.6.1.4.1.3902.1015.3.1.13.1.4

The index is ifid

gpon-olt_1/3/1 corresponds to: 0x10010000

gei_1/19/1 corresponds to: 0x100F0000

gei_1/19/2 corresponds to: 0x100F0100

...

0F corresponds to logic cardid

01 corresponds to logic port No.

Index Specification

{ ifIndex }, platform Type 1 composite index.

MIB Specification

For detailed description, refer to ZTE-AN-INTERFACE-MIB.mib.

```
zxAnOpticalModuleMonTable      OBJECT-TYPE  
    SYNTAX      SEQUENCE OF ZxAnOpticalModuleMonEntry  
    MAX-ACCESS not-accessible  
    STATUS      current  
    DESCRIPTION "This table provides objects to monitor optical module  
in a network element. It also provides  
objects for setting high and low threshold levels."  
 ::= { zxAnInterfaceObjects 13 }
```

```
zxAnOpticalModuleMonEntry      OBJECT-TYPE
    SYNTAX      ZxAnOpticalModuleMonEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION "An entry in zxAnOpticalModuleMonTable."
    INDEX      { ifIndex }
    ::=  { zxAnOpticalModuleMonTable 1 }

ZxAnOpticalModuleMonEntry ::= SEQUENCE {
    zxAnOpticalPowerRxCurrValue          Integer32,
    zxAnOpticalPowerRxLowerThresh        Integer32,
    zxAnOpticalPowerRxUpperThresh        Integer32,
    zxAnOpticalPowerTxCurrValue          Integer32,
    zxAnOpticalPowerTxLowerThresh        Integer32,
    zxAnOpticalPowerTxUpperThresh        Integer32,
    zxAnOpticalIfRxRate                 Integer32,
    zxAnOpticalIfTxRate                 Integer32,
    zxAnOpticalBiasCurrent              Integer32,
    zxAnOpticalSupplyVoltage            Integer32,
    zxAnOpticalWavelength               Integer32,
    zxAnOpticalTemperature              Integer32,
    zxAnOpticalVenderPn                DisplayString,
    zxAnOpticalVenderName              DisplayString,
    zxAnOpticalBiasCurrLowerThresh     Integer32,
    zxAnOpticalBiasCurrUpperThresh     Integer32,
    zxAnOpticalVoltageLowerThresh      Integer32,
    zxAnOpticalVoltageUpperThresh      Integer32,
    zxAnOpticalTempLowerThresh         Integer32,
    zxAnOpticalTempUpperThresh         Integer32,
    zxAnOpticalIfRate                  Integer32,
    zxAnOpticalFiberType               INTEGER,
    zxAnOpticalVersionLevel            DisplayString,
    zxAnOpticalVendorSn                DisplayString,
    zxAnOpticalProductionDate          DisplayString,
    zxAnOpticalModuleType              DisplayString,
    zxAnOpticalFiberInterfaceType      DisplayString,
    zxAnOpticalMaterialNumber          OCTET STRING,
    zxAnOpticalRegisterData            OCTET STRING
}
```

11.2.2 Threshold Value Setting

Index Specification

Profile name, character string

OID Specification

MIB Variable	OID	Specification
zxAnOptPrfRxPwrLowerThresh	.1.3.6.1.4.1.3902.1015.3.1.23.2.1.2	Receiving optical power lower threshold
zxAnOptPrfRxPwrUpperThresh	.1.3.6.1.4.1.3902.1015.3.1.23.2.1.3	Receiving optical power upper threshold
zxAnOptPrfTxPwrLowerThresh	.1.3.6.1.4.1.3902.1015.3.1.23.2.1.4	Transmitting optical power lower threshold
zxAnOptPrfTxPwrUpperThresh	.1.3.6.1.4.1.3902.1015.3.1.23.2.1.5	Transmitting optical power upper threshold
zxAnOptPrfBiasCurrLowerThresh	.1.3.6.1.4.1.3902.1015.3.1.23.2.1.6	Current lower threshold
zxAnOptPrfBiasCurrUpperThresh	.1.3.6.1.4.1.3902.1015.3.1.23.2.1.7	Current upper threshold
zxAnOptPrfVoltageLowerThresh	.1.3.6.1.4.1.3902.1015.3.1.23.2.1.8	Voltage lower threshold
zxAnOptPrfVoltageUpperThresh	.1.3.6.1.4.1.3902.1015.3.1.23.2.1.9	Voltage upper threshold
zxAnOptPrfTempLowerThresh	.1.3.6.1.4.1.3902.1015.3.1.23.2.1.10	Temperature lower threshold
zxAnOptPrfTempUpperThresh	.1.3.6.1.4.1.3902.1015.3.1.23.2.1.11	Temperature upper threshold
zxAnOptPrfOfflineTrapEnable	.1.3.6.1.4.1.3902.1015.3.1.23.2.1.12	Online alarm switch

11.2.3 Threshold Value Loading

Index Specification

Type 1 platform composite index

OID Specification

MIB Variable	OID	Specification
zxAnOpticalIfAlmPrf	.1.3.6.1.4.1.3902.1015.3.1.23.3.1.2	Profile name

11.3 Receiving Optical Power at OLT Side

1.3.6.1.4.1.3902.1015.1010.11.2.1.2

Level-2 index: Type 1 PON composite index and ONU ID

For example: the index that gpon-onu_1/2/2:3 corresponds to: 268567040.3

Corresponding snmp operation command should be:

```
snmpwalk -v2c -c public 172.17.56.250
1.3.6.1.4.1.3902.1015.1010.11.2.1.2.268567040.3
```

*0.002 – 30.

11.4 Optical Power at EPON ONU Side

Index Specification

Type 3 PON composite index

OID Specification

MIB Variable	OID	Specification
zxAnEponOnuTransTemperature	.1.3.6.1.4.1.3902.1015.1010.1.1.1.29.1.1	Temperature
zxAnEponOnuSupplyVoltage	.1.3.6.1.4.1.3902.1015.1010.1.1.1.29.1.2	Voltage
zxAnEponOnuTxBiasCurrent	.1.3.6.1.4.1.3902.1015.1010.1.1.1.29.1.3	Current
zxAnEponOnuTxPower	.1.3.6.1.4.1.3902.1015.1010.1.1.1.29.1.4	Transmitting optical power dBm
zxAnEponOnuRxPower	.1.3.6.1.4.1.3902.1015.1010.1.1.1.29.1.5	Receiving optical power dBm

11.5 Optical Power at GPON ONU Side

```
{"zxGponRmANIMgmt" , "1.3.6.1.4.1.3902.1012.3.50.12"},  
{"zxGponPonTable" , "1.3.6.1.4.1.3902.1012.3.50.12.1"},  
{"zxGponPonEntry" , "1.3.6.1.4.1.3902.1012.3.50.12.1.1"},  
{"zxGponPonSRIInd" , "1.3.6.1.4.1.3902.1012.3.50.12.1.1.1"},  
{"zxGponPonTotalTcontNum" , "1.3.6.1.4.1.3902.1012.3.50.12.1.1.2"},  
{"zxGponPonGemBlockLen" , "1.3.6.1.4.1.3902.1012.3.50.12.1.1.3"},  
{"zxGponPonPiggybackDBAReporting", "1.3.6.1.4.1.3902.1012.3.50.12.1.1.4"},  
{"zxGponPonWholeOnuDBAReporting", "1.3.6.1.4.1.3902.1012.3.50.12.1.1.5"},  
{"zxGponPonSFThreshold" , "1.3.6.1.4.1.3902.1012.3.50.12.1.1.6"},  
{"zxGponPonSDThreshold" , "1.3.6.1.4.1.3902.1012.3.50.12.1.1.7"},  
{"zxGponPonAlarmReport" , "1.3.6.1.4.1.3902.1012.3.50.12.1.1.8"},  
{"zxGponPonAlarmDisableInterval", "1.3.6.1.4.1.3902.1012.3.50.12.1.1.9"},  
{"zxGponPonRxOpticalLevel" , "1.3.6.1.4.1.3902.1012.3.50.12.1.1.10"},  
{"zxGponPonLowerRxOpticalThreshold", "1.3.6.1.4.1.3902.1012.3.50.12.1.1.11"},  
{"zxGponPonUpperRxOpticalThreshold", "1.3.6.1.4.1.3902.1012.3.50.12.1.1.12"},  
{"zxGponPonOntResponseTime" , "1.3.6.1.4.1.3902.1012.3.50.12.1.1.13"},  
{"zxGponPonTxOpticalLevel" , "1.3.6.1.4.1.3902.1012.3.50.12.1.1.14"},  
{"zxGponPonLowerTxOpticalThreshold", "1.3.6.1.4.1.3902.1012.3.50.12.1.1.15"},  
{"zxGponPonUpperTxOpticalThreshold", "1.3.6.1.4.1.3902.1012.3.50.12.1.1.16"},  
{"zxGponPonPowerFeedVoltage" , "1.3.6.1.4.1.3902.1012.3.50.12.1.1.17"},  
{"zxGponPonLaserBiasCurrent" , "1.3.6.1.4.1.3902.1012.3.50.12.1.1.18"},  
{"zxGponPonTemperature" , "1.3.6.1.4.1.3902.1012.3.50.12.1.1.19"},  
{"zxGponPonLowerVoltageThreshold", "1.3.6.1.4.1.3902.1012.3.50.12.1.1.20"},  
{"zxGponPonUpperVoltageThreshold", "1.3.6.1.4.1.3902.1012.3.50.12.1.1.21"},  
{"zxGponPonLowerCurrentThreshold", "1.3.6.1.4.1.3902.1012.3.50.12.1.1.22"},  
{"zxGponPonUpperCurrentThreshold", "1.3.6.1.4.1.3902.1012.3.50.12.1.1.23"},  
{"zxGponPonLowerTemperatureThreshold", "1.3.6.1.4.1.3902.1012.3.50.12.1.1.24"},  
{"zxGponPonUpperTemperatureThreshold", "1.3.6.1.4.1.3902.1012.3.50.12.1.1.25"},
```

12 Performance Statistics

12.1 Ethernet Port Real-time Statistics

Both V1.2.0 and V1.2.3 support it.

12.1.1 ifTable Real-time Statistics

OID Specification

ifTable's OID is .1.3.6.1.2.1.2.2.

Index Specification

{ ifIndex }, Type 1 platform composite index.

MIB Specification

Refer to rfc2863.mib.

ifTable OBJECT-TYPE

SYNTAX SEQUENCE OF IfEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of interface entries. The number of entries is given by the value of ifNumber."

::= { interfaces 2 }

ifEntry OBJECT-TYPE

SYNTAX IfEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry containing management information applicable to a particular interface."

INDEX { ifIndex }

::= { ifTable 1 }

IfEntry ::=

SEQUENCE {

 ifIndex InterfaceIndex,

 ifDescr DisplayString,

 ifType IANAIfType,

```
ifMtu          Integer32,  
ifSpeed        Gauge32,  
ifPhysAddress   PhysAddress,  
ifAdminStatus    INTEGER,  
ifOperStatus     INTEGER,  
ifLastChange    TimeTicks,  
ifInOctets      Counter32,  
ifInUcastPkts   Counter32,  
ifInNUcastPkts  Counter32, -- deprecated  
ifInDiscards    Counter32,  
ifInErrors      Counter32,  
ifInUnknownProtos Counter32,  
ifOutOctets     Counter32,  
ifOutUcastPkts  Counter32,  
ifOutNUcastPkts Counter32, -- deprecated  
ifOutDiscards   Counter32,  
ifOutErrors     Counter32,  
ifOutQLen       Gauge32, -- deprecated  
ifSpecific      OBJECT IDENTIFIER -- deprecated  
}
```

12.1.2 ifXTable Real-time Statistics

OID Specification

ifXTable's OID is .1.3.6.1.2.1.31.1.1.

Index Specification

{ ifIndex }, Type 1 platform composite index.

MIB Specification

Refer to rfc2863.mib.

```
ifXTable      OBJECT-TYPE  
SYNTAX        SEQUENCE OF IfXEntry  
MAX-ACCESS    not-accessible  
STATUS        current  
DESCRIPTION  
           "A list of interface entries. The number of entries is  
           given by the value of ifNumber. This table contains  
           additional objects for the interface table."  
::= { ifMIBObjects 1 }
```

```
ifXEntry      OBJECT-TYPE
    SYNTAX      IfXEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "An entry containing additional management information
         applicable to a particular interface."
    AUGMENTS    { ifEntry }
    ::= { ifXTable 1 }
```

```
IfXEntry ::= SEQUENCE {
    ifName          DisplayString,
    ifInMulticastPkts Counter32,
    ifInBroadcastPkts Counter32,
    ifOutMulticastPkts Counter32,
    ifOutBroadcastPkts Counter32,
    ifHCInOctets     Counter64,
    ifHCInUcastPkts  Counter64,
    ifHCInMulticastPkts Counter64,
    ifHCInBroadcastPkts Counter64,
    ifHCOutOctets    Counter64,
    ifHCOutUcastPkts Counter64,
    ifHCOutMulticastPkts Counter64,
    ifHCOutBroadcastPkts Counter64,
    ifLinkUpDownTrapEnable INTEGER,
    ifHighSpeed       Gauge32,
    ifPromiscuousMode TruthValue,
    ifConnectorPresent TruthValue,
    ifAlias           DisplayString,
    ifCounterDiscontinuityTime TimeStamp
}
```

12.1.3 zxAnEtherIfStatTable Real-time Statistics

```
ZxAnEtherIfStatEntry ::= SEQUENCE {
    zxAnEtherIfStatFCSErrors      Counter32,
    zxAnEtherIfStat15minFCSErrors Counter32,
    zxAnEtherIf15minFcsErrsThresh Integer32,
    zxAnEtherIfStat1dayFCSErrors  Counter32,
    zxAnEtherIf1dayFcsErrsThresh Integer32,
```

zxAnEtherIfOutDiscardPktRatio	Integer32,
zxAnEtherIfInDiscardPktRatio	Integer32,
zxAnEtherIfInErrPktRatio	Integer32,
zxAnEtherIfOutPkts	Counter64,
zxAnEtherIfInOctetsCorrect	Counter64,
zxAnEtherIfOutOctetsCorrect	Counter64,
zxAnEtherIfInOctetsError	Counter64,
zxAnEtherIfOutOctetsError	Counter64,
zxAnEthIfStat1SecFcsErrs	Counter64,
zxAnEthIfStat1SecFcsErrsThresh	Integer32,
zxAnEtherIfStatOutDiscardPkt	Counter64,
zxAnEtherIfStatInDiscardPkt	Counter64,
zxAnEtherIfStatReset	INTEGER
}	

12.2 OLT Ethernet Real-time Statistics

Both V1.2.0 and V1.2.3 versions support it.

12.2.1 Real-time Performance

OID Specification

zxAnXponOltIfStatTable's OID is .1.3.6.1.4.1.3902.1015.1010.5.4.

Index Specification

{ zxAnXponOltIfIndex }, Type 1 PON composite index.

MIB Specification

Refer to zxAnXpon.mib.

zxAnXponOltIfStatTable OBJECT-TYPE

SYNTAX	SEQUENCE OF ZxAnXponOltIfStatEntry
MAX-ACCESS	not-accessible
STATUS	current
DESCRIPTION	"xPON interface statistics table"
::= { zxAnXpon 4 }	

zxAnXponOltIfStatEntry OBJECT-TYPE

SYNTAX	ZxAnXponOltIfStatEntry
MAX-ACCESS	not-accessible
STATUS	current

DESCRIPTION

""

```
INDEX { zxAnXponOltIfIndex }
 ::= { zxAnXponOltIfStatTable 1 }
```

ZxAnXponOltIfStatEntry ::=

```
SEQUENCE {
    zxAnXponOltIfIndex           INTEGER,
    zxAnXponOltIfRxOctes         Counter64,
    zxAnXponOltIfRxPkts          Counter64,
    zxAnXponOltIfRxUniPkts       Counter64,
    zxAnXponOltIfRxNonUniPkts    Counter64,
    zxAnXponOltIfRxMultPkts      Counter64,
    zxAnXponOltIfRxBroadPkts     Counter64,
    zxAnXponOltIfRxPktsDiscard   Counter64,
    zxAnXponOltIfRxPktsErr       Counter64,
    zxAnXponOltIfRxPDR           DisplayString,
    zxAnXponOltIfRxPER           DisplayString,
    zxAnXponOltIfTxOctes         Counter64,
    zxAnXponOltIfTxPkts          Counter64,
    zxAnXponOltIfTxUniPkts       Counter64,
    zxAnXponOltIfTxNonUniPkts    Counter64,
    zxAnXponOltIfTxMultPkts      Counter64,
    zxAnXponOltIfTxBroadPkts     Counter64,
    zxAnXponOltIfTxPktsDiscard   Counter64,
    zxAnXponOltIfTxPktsErr       Counter64,
    zxAnXponOltIfTxPDR           DisplayString,
    zxAnXponOltIfTxPER           DisplayString,
    zxAnXponOltIfRxCRCAlignErrors Counter64,
    zxAnXponOltIfRxUndersizePkts Counter64,
    zxAnXponOltIfRxOversizePkts   Counter64,
    zxAnXponOltIfRx64OctetPkts    Counter64,
    zxAnXponOltIfTx64OctetPkts    Counter64,
    zxAnXponOltIfRx65To127OctetPkts Counter64,
    zxAnXponOltIfTx65To127OctetPkts Counter64,
    zxAnXponOltIfRx128To255OctetPkts Counter64,
    zxAnXponOltIfTx128To255OctetPkts Counter64,
    zxAnXponOltIfRx256To511OctetPkts Counter64,
    zxAnXponOltIfTx256To511OctetPkts Counter64,
    zxAnXponOltIfRx512To1023OctPkts Counter64,
    zxAnXponOltIfTx512To1023OctPkts Counter64,
    zxAnXponOltIfRx1024To1518OctPkts Counter64,
    zxAnXponOltIfTx1024To1518OctPkts Counter64,
    zxAnXponOltIfStatus          INTEGER
```

{}

12.3 ONU Ethernet Real-time Statistics

Both V1.2.0 and V1.2.3 versions support it.

12.3.1 Real-time Performance

OID Specification

zxAnXponOnuIfStatTable's OID is .1.3.6.1.4.1.3902.1015.1010.5.5.

Index Specification

{ zxAnXponOnuIfIndex }, Type 3 or 9 PON composite index.

MIB Specification

Refer to zxAnXpon.mib.

zxAnXponOnuIfStatTable OBJECT-TYPE

SYNTAX	SEQUENCE OF ZxAnXponOnuIfStatEntry
MAX-ACCESS	not-accessible
STATUS	current
DESCRIPTION	"xPON interface statistics table"
::= { zxAnXpon 5 }	

zxAnXponOnuIfStatEntry OBJECT-TYPE

SYNTAX	ZxAnXponOnuIfStatEntry
MAX-ACCESS	not-accessible
STATUS	current
DESCRIPTION	""
INDEX	{ zxAnXponOnuIfIndex }
::= { zxAnXponOnuIfStatTable 1 }	

ZxAnXponOnuIfStatEntry ::=

SEQUENCE {	
zxAnXponOnuIfIndex	INTEGER,
zxAnXponOnuIfRxOctes	Counter64,
zxAnXponOnuIfRxPkts	Counter64,
zxAnXponOnuIfRxUniPkts	Counter64,
zxAnXponOnuIfRxNonUniPkts	Counter64,
zxAnXponOnuIfRxMultPkts	Counter64,
zxAnXponOnuIfRxBroadPkts	Counter64,

zxAnXponOnuIfRxPktsDiscard	Counter64,
zxAnXponOnuIfRxPktsErr	Counter64,
zxAnXponOnuIfRxPDR	DisplayString,
zxAnXponOnuIfRxPER	DisplayString,
zxAnXponOnuIfTxOctes	Counter64,
zxAnXponOnuIfTxPkts	Counter64,
zxAnXponOnuIfTxUniPkts	Counter64,
zxAnXponOnuIfTxNonUniPkts	Counter64,
zxAnXponOnuIfTxMultPkts	Counter64,
zxAnXponOnuIfTxBroadPkts	Counter64,
zxAnXponOnuIfTxPktsDiscard	Counter64,
zxAnXponOnuIfTxPktsErr	Counter64,
zxAnXponOnuIfTxPDR	DisplayString,
zxAnXponOnuIfTxPER	DisplayString,
zxAnXponOnuIfStatus	INTEGER
}	

12.4 GPON OLT PON-Layer Real-time Statistics

Both V1.2.0 and V1.2.3 versions support it.

12.4.1 Real-time Performance

OID Specification

.zxGponOltPmStatisRealtimeInfoTable's OID is .1.3.6.1.4.1.3902.1012.3.12.13.

Index Specification

{ zxGponMgmtPonOltId }, Type 1 PON composite index.

MIB Specification

Refer to zxGponService.mib.

zxGponOltPmStatisRealtimeInfoTable OBJECT-TYPE

SYNTAX SEQUENCE OF ZxGponOltPmStatisRealtimeInfoEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

""

REFERENCE

""

::= { zxGponStandardOlt 13 }

```
zxGponOltPmStatisRealtimeInfoEntry OBJECT-TYPE
    SYNTAX      ZxGponOltPmStatisRealtimeInfoEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        ""
    INDEX      { zxGponMgmtPonOltId }
    ::= { zxGponOltPmStatisRealtimeInfoTable 1 }

ZxGponOltPmStatisRealtimeInfoEntry ::=

SEQUENCE {
    zxGponOltPmStatisInfoCorrectNonIdleGemFramesUpstream
    Unsigned32,
    zxGponOltPmStatisInfoCorrectIdleGemFramesUpstream
    Unsigned32,
    zxGponOltPmStatisInfoErroredGemFramesUpstream          Unsigned32,
    zxGponOltPmStatisInfoGemPayloadBytesUpstream
    Unsigned32,
    zxGponOltPmStatisInfoCorrectEthernetFramesUpstream
    Unsigned32,
    zxGponOltPmStatisInfoErroredEthernetFramesUpstream
    Unsigned32,
    zxGponOltPmStatisInfoTotalOmciFramesUpstream          Unsigned32,
    zxGponOltPmStatisInfoERR                  Unsigned32,
    zxGponOltPmStatisInfoREI                  Unsigned32,
    zxGponOltPmStatisInfoValidEthernetPacketDownstream
    Unsigned32,
    zxGponOltPmStatisInfoCpuPacketDownstream          Unsigned32,
    zxGponOltPmStatisInfoPloamDownstream           Unsigned32,
    zxGponOltPmStatisInfoPloamUpstream            Unsigned32,
    zxGponOltPmStatisInfoInvalidPacketUpstream       Unsigned32,
    zxGponOltPmFecCorrectedBytes
    Unsigned32,
    zxGponOltPmFecCorrectedWords
    Unsigned32,
    zxGponOltPmFecUncorrectedWords
    Unsigned32,
    zxGponOltPmFecTotalRxWords
    Unsigned32,
    zxGponOltPmBipErrBits
    Unsigned32,
    zxGponOltPmCrcErrPkts
    Unsigned32,
    zxGponOltPmStatisReset
                                INTEGER
```

{}

12.5 GPON ONU PON-Layer Real-time Statistics

Both V1.2.0 and V1.2.3 versions support it.

12.5.1 Real-time Performance

OID Specification

zxGponOntPmStatisRealtimeInfoTable's OID is .1.3.6.1.4.1.3902.1012.3.28.6.1.

Index Specification

{ zxGponMgmtPonOltId, zxGponMgmtPonOnuId }, of them. zxGponMgmtPonOltId is Type 1 PON composite index, while others are regular index.

MIB Specification

Refer to zxGponService.mib.

zxGponOntPmStatisRealtimeInfoTable OBJECT-TYPE

SYNTAX SEQUENCE OF ZxGponOntPmStatisRealtimeInfoEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
 "unused attribute"
REFERENCE
 "G.984.3"
::= { zxGponPrivateOnu 6 }

zxGponOntPmStatisRealtimeInfoEntry OBJECT-TYPE

SYNTAX ZxGponOntPmStatisRealtimeInfoEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
 ""
INDEX { zxGponMgmtPonOltId, zxGponMgmtPonOnuId }
::= { zxGponOntPmStatisRealtimeInfoTable 1 }

ZxGponOntPmStatisRealtimeInfoEntry ::=

SEQUENCE {
 zxGponOntPmStatisInfoCorrectNonIdleGemFramesUpstream Unsigned32,
 zxGponOntPmStatisInfoCorrectIdleGemFramesUpstream Unsigned32,
 zxGponOntPmStatisInfoErroredGemFramesUpstream

```

Unsigned32,
    zxGponOntPmStatisInfoGemPayloadBytesUpstream

Unsigned32,
    zxGponOntPmStatisInfoCorrectEthernetFramesUpstream
    zxGponOntPmStatisInfoErroredEthernetFramesUpstream
    zxGponOntPmStatisInfoTotalOmciFramesUpstream
    zxGponOntPmStatisInfoERRi
        Unsigned32,
        Unsigned32,
        Unsigned32

Unsigned32,
    zxGponOntPmStatisInfoREIi

Unsigned32,
    zxGponOntPmStatisInfoUnreceivedBurstsUpstream
    zxGponOntPmStatisInfoBipErrorUpstream
    zxGponOntPmStatisInfoCorrectedBitsUpstream
    zxGponOntPmStatisInfoNotCorrectedWordsUpstream
    zxGponOntPmStatisInfoLostBurst
    zxGponOntTxCorrectNonIdleGemFrms
        Unsigned32,
        Unsigned32,
        Unsigned32,
        Unsigned32,
        Unsigned32

Unsigned32,
    zxGponOntTxCorrectIdleGemFrms

Unsigned32,
    zxGponOntTxOmciFrms

Unsigned32,
    zxGponOntTxPloamFrms

Unsigned32,
    zxGponOntRxPloamFrms

Unsigned32,
    zxGponOntLofiAlarms

Unsigned32,
    zxGponOntPmFecCorrectedBytes

Unsigned32,
    zxGponOntPmFecCorrectedWords

Unsigned32,
    zxGponOntPmFecUncorrectedWords

Unsigned32,
    zxGponOntPmFecTotalRxWords

Unsigned32,
    zxGponOntPmCrcErrPkts

Unsigned32,
    zxGponOntPmReset

INTEGER
}

```

12.6 Ethernet Port Performance (V1.2.3)

12.6.1 Real-time Performance

OID Specification

zxAnEthIfCurrStatsTable's OID is .1.3.6.1.4.1.3902.1015.3.11.2.2.

Index Specification

{ ifIndex }, Type 1 platform composite index.

MIB Specification

Refer to ZTE-AN-INTERFACE-STATS-MIB.mib.

```
zxAnEthIfCurrStatsTable      OBJECT-TYPE
    SYNTAX      SEQUENCE OF ZxAnEthIfCurrStatsEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Current performance data table of the ethernet interfaces."
    ::= { zxAnIfPerfObjects 2 }
```

```
zxAnEthIfCurrStatsEntry      OBJECT-TYPE
    SYNTAX      ZxAnEthIfCurrStatsEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Current performance data entry of the ethernet interfaces."
    INDEX      { ifIndex }
    ::= { zxAnEthIfCurrStatsTable 1 }
```

```
ZxAnEthIfCurrStatsEntry ::= SEQUENCE {
    zxAnEthIfInOctets          Counter64,
    zxAnEthIfInPkts            Counter64,
    zxAnEthIfInUcastPkts       Counter64,
    zxAnEthIfInMcastPkts       Counter64,
    zxAnEthIfInBcastPkts       Counter64,
    zxAnEthIfInOversizedPkts   Counter64,
    zxAnEthIfInUndersizedPkts  Counter64,
    zxAnEthIfOutOctets         Counter64,
    zxAnEthIfOutPkts           Counter64,
    zxAnEthIfOutUcastPkts      Counter64,
    zxAnEthIfOutMcastPkts      Counter64,
```

zxAnEthIfOutBcastPkts	Counter64,
zxAnEthIfOutPausePkts	Counter64,
zxAnEthIfOutDiscardPkts	Counter64,
zxAnEthIfOutCollisions	Counter64,
zxAnEthIfSingleCollisions	Counter64,
zxAnEthIfMultipleCollisions	Counter64,
zxAnEthIfFcsErrors	Counter64,
zxAnEthIfAlignmentErrors	Counter64,
zxAnEthIfReset	INTEGER
}	

12.6.2 15-Minute Real-time Performance

OID Specification

zxAnEthIfCurr15MinPerfTable's OID is .1.3.6.1.4.1.3902.1015.3.12.2.2.

Index Specification

{ ifIndex }, Type 1 platform composite index.

MIB Specification

Refer to ZTE-AN-INTERFACE-ETH-PERF-MIB.mib.

zxAnEthIfCurr15MinPerfTable OBJECT-TYPE
SYNTAX SEQUENCE OF ZxAnEthIfCurr15MinPerfEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
 "The 15 minutes interval performance data table of the ethernet
 interfaces."
 $::= \{ \text{zxAnEthIfPerfObjects} \ 2 \}$

zxAnEthIfCurr15MinPerfEntry OBJECT-TYPE
SYNTAX ZxAnEthIfCurr15MinPerfEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
 "The 15 minutes interval performance data entry of the ethernet
 interfaces."
INDEX { ifIndex }
 $::= \{ \text{zxAnEthIfCurr15MinPerfTable} \ 1 \}$

ZxAnEthIfCurr15MinPerfEntry ::= SEQUENCE {
 zxAnEthIfC15MTimeElapsed Gauge32,

zxAnEthIfC15MInOctets	Counter64,
zxAnEthIfC15MInPkts	Counter64,
zxAnEthIfC15MInUcastPkts	Counter64,
zxAnEthIfC15MInMcastPkts	Counter64,
zxAnEthIfC15MInBcastPkts	Counter64,
zxAnEthIfC15MInOversizedPkts	Counter64,
zxAnEthIfC15MInUndersizedPkts	Counter64,
zxAnEthIfC15MOutOctets	Counter64,
zxAnEthIfC15MOutPkts	Counter64,
zxAnEthIfC15MOutUcastPkts	Counter64,
zxAnEthIfC15MOutMcastPkts	Counter64,
zxAnEthIfC15MOutBcastPkts	Counter64,
zxAnEthIfC15MOutPausePkts	Counter64,
zxAnEthIfC15MOutDiscardPkts	Counter64,
zxAnEthIfC15MOutCollisions	Counter64,
zxAnEthIfC15MSingleCollisions	Counter64,
zxAnEthIfC15MMultipleCollisions	Counter64,
zxAnEthIfC15MFcsErrors	Counter64,
zxAnEthIfC15MAcknowledgements	Counter64,
zxAnEthIfC15MReset	INTEGER
}	

12.6.3 24-Hour Real-time Performance

OID Specification

zxAnEthIfCurr1DayPerfTable's OID is .1.3.6.1.4.1.3902.1015.3.12.2.3.

Index Specification

{ ifIndex }, Type 1 platform composite index.

MIB Specification

Refer to ZTE-AN-INTERFACE-ETH-PERF-MIB.mib.

zxAnEthIfCurr1DayPerfTable OBJECT-TYPE
 SYNTAX SEQUENCE OF ZxAnEthIfCurr1DayPerfEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "The 1 day interval performance data table of the ethernet
 interfaces."
 ::= { zxAnEthIfPerfObjects 3 }

zxAnEthIfCurr1DayPerfEntry OBJECT-TYPE
 SYNTAX ZxAnEthIfCurr1DayPerfEntry

MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
 "The 1 day interval performance data entry of the ethernet
 interfaces."
INDEX { ifIndex }
 ::= { zxAnEthIfCurr1DayPerfTable 1 }

ZxAnEthIfCurr1DayPerfEntry ::= SEQUENCE {
 zxAnEthIfC1DTimeElapsed Gauge32,
 zxAnEthIfC1DInOctets Counter64,
 zxAnEthIfC1DInPkts Counter64,
 zxAnEthIfC1DInUcastPkts Counter64,
 zxAnEthIfC1DInMcastPkts Counter64,
 zxAnEthIfC1DInBcastPkts Counter64,
 zxAnEthIfC1DInOversizedPkts Counter64,
 zxAnEthIfC1DInUndersizedPkts Counter64,
 zxAnEthIfC1DOutOctets Counter64,
 zxAnEthIfC1DOutPkts Counter64,
 zxAnEthIfC1DOutUcastPkts Counter64,
 zxAnEthIfC1DOutMcastPkts Counter64,
 zxAnEthIfC1DOutBcastPkts Counter64,
 zxAnEthIfC1DOutPausePkts Counter64,
 zxAnEthIfC1DOutDiscardPkts Counter64,
 zxAnEthIfC1DOutCollisions Counter64,
 zxAnEthIfC1DSingleCollisions Counter64,
 zxAnEthIfC1DMultipleCollisions Counter64,
 zxAnEthIfC1DFcsErrors Counter64,
 zxAnEthIfC1DAlignmentErrors Counter64,
 zxAnEthIfC1DReset INTEGER
}

12.6.4 15-Minute Historical Performance

OID Specification

zxAnEthIfHis15MinPerfTable's OID is .1.3.6.1.4.1.3902.1015.3.12.2.4.

Index Specification

{ ifIndex }, Type 1 platform composite index.

MIB Specification

Refer to ZTE-AN-INTERFACE-ETH-PERF-MIB.mib.

zxAnEthIfHis15MinPerfTable OBJECT-TYPE

SYNTAX SEQUENCE OF ZxAnEthIfHis15MinPerfEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
 "The 15 minutes interval history performance data table of the ethernet interfaces."
::= { zxAnEthIfPerfObjects 4 }

zxAnEthIfHis15MinPerfEntry OBJECT-TYPE
SYNTAX ZxAnEthIfHis15MinPerfEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
 "The 15 minutes interval performance data entry of the ethernet interfaces."
INDEX { ifIndex, zxAnEthIfH15MIntervalNo }
::= { zxAnEthIfHis15MinPerfTable 1 }

ZxAnEthIfHis15MinPerfEntry ::= SEQUENCE {
 zxAnEthIfH15MIntervalNo Integer32,
 zxAnEthIfH15MIntervalValidData TruthValue,
 zxAnEthIfH15MDaTime DateAndTime,
 zxAnEthIfH15MInOctets Counter64,
 zxAnEthIfH15MInPkts Counter64,
 zxAnEthIfH15MInUcastPkts Counter64,
 zxAnEthIfH15MInMcastPkts Counter64,
 zxAnEthIfH15MInBcastPkts Counter64,
 zxAnEthIfH15MInOversizedPkts Counter64,
 zxAnEthIfH15MInUndersizedPkts Counter64,
 zxAnEthIfH15MOutOctets Counter64,
 zxAnEthIfH15MOutPkts Counter64,
 zxAnEthIfH15MOutUcastPkts Counter64,
 zxAnEthIfH15MOutMcastPkts Counter64,
 zxAnEthIfH15MOutBcastPkts Counter64,
 zxAnEthIfH15MOutPausePkts Counter64,
 zxAnEthIfH15MOutDiscardPkts Counter64,
 zxAnEthIfH15MOutCollisions Counter64,
 zxAnEthIfH15MSingleCollisions Counter64,
 zxAnEthIfH15MMultipleCollisions Counter64,
 zxAnEthIfH15MFcsErrors Counter64,
 zxAnEthIfH15MAckignmentErrors Counter64
}

12.6.5 24-Hour Historical Performance

OID Specification

zxAnEthIfHis1DayPerfTable's OID is .1.3.6.1.4.1.3902.1015.3.12.2.5.

Index Specification

{ ifIndex }, Type 1 platform composite index.

MIB Specification

Refer to ZTE-AN-INTERFACE-ETH-PERF-MIB.mib.

```
zxAnEthIfHis1DayPerfTable      OBJECT-TYPE
    SYNTAX      SEQUENCE OF ZxAnEthIfHis1DayPerfEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The 1 day interval history performance data table of the ethernet
         interfaces."
 ::= { zxAnEthIfPerfObjects 5 }
```

```
zxAnEthIfHis1DayPerfEntry      OBJECT-TYPE
    SYNTAX      ZxAnEthIfHis1DayPerfEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The 1 day interval performance data entry of the ethernet
         interfaces."
 INDEX   { ifIndex, zxAnEthIfH1DIntervalNo }
 ::= { zxAnEthIfHis1DayPerfTable 1 }
```

```
ZxAnEthIfHis1DayPerfEntry ::= SEQUENCE {
    zxAnEthIfH1DIntervalNo          Integer32,
    zxAnEthIfH1DIntervalValidData  TruthValue,
    zxAnEthIfH1DDateTime           DateAndTime,
    zxAnEthIfH1DInOctets            Counter64,
    zxAnEthIfH1DInPkts              Counter64,
    zxAnEthIfH1DInUcastPkts         Counter64,
    zxAnEthIfH1DInMcastPkts         Counter64,
    zxAnEthIfH1DInBcastPkts         Counter64,
    zxAnEthIfH1DInOversizedPkts     Counter64,
    zxAnEthIfH1DInUndersizedPkts    Counter64,
    zxAnEthIfH1DOutOctets           Counter64,
    zxAnEthIfH1DOutPkts             Counter64,
    zxAnEthIfH1DOutUcastPkts        Counter64,
```

zxAnEthIfH1DOutMcastPkts	Counter64,
zxAnEthIfH1DOutBcastPkts	Counter64,
zxAnEthIfH1DOutPausePkts	Counter64,
zxAnEthIfH1DOutDiscardPkts	Counter64,
zxAnEthIfH1DOutCollisions	Counter64,
zxAnEthIfH1DSingleCollisions	Counter64,
zxAnEthIfH1DMultipleCollisions	Counter64,
zxAnEthIfH1DFcsErrors	Counter64,
zxAnEthIfH1DAlignmentErrors	Counter64
}	

12.6.6 Performance Threshold Alarm Profile

OID Specification

zxAnEthIfAlmProfileTable's OID is .1.3.6.1.4.1.3902.1015.3.12.2.8.

zxAnEthIfAlmProfileConfTable's OID is .1.3.6.1.4.1.3902.1015.3.12.2.6.

Index Specification

{ zxAnEthIfAlmProfileName, zxAnEthIfPerfVariable }

MIB Specification

Refer to ZTE-AN-INTERFACE-ETH-PERF-MIB.mib.

Type 1 platform composite index.

zxAnEthIfAlmProfileTable OBJECT-TYPE
 SYNTAX SEQUENCE OF ZxAnEthIfAlmProfileEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "The performance alarm threshold profile table of the ethernet
 interfaces. It can be used to delete all of the performance alarm
 threshold profiles which has the same name configured in
 'zxAnEthIfAlmProfileConfTable'."
 ::= { zxAnEthIfPerfObjects 8 }

zxAnEthIfAlmProfileEntry OBJECT-TYPE
 SYNTAX ZxAnEthIfAlmProfileEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "The performance alarm threshold profile entry of the ethernet
 interfaces."
 INDEX { zxAnEthIfAlmProfileName }
 ::= { zxAnEthIfAlmProfileTable 1 }

```
ZxAnEthIfAlmProfileEntry ::= SEQUENCE {
    zxAnEthIfAlmProfileRowStatus    RowStatus
}
```

```
zxAnEthIfAlmProfileConfTable   OBJECT-TYPE
    SYNTAX      SEQUENCE OF ZxAnEthIfAlmProfileConfEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The performance alarm threshold profile table of the ethernet
         interfaces."
    ::= { zxAnEthIfPerfObjects 6 }
```

```
zxAnEthIfAlmProfileConfEntry   OBJECT-TYPE
    SYNTAX      ZxAnEthIfAlmProfileConfEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The performance alarm threshold profile entry of the ethernet
         interfaces.These variables in the profile configuration is optional,
         if not configured, it means the correspondng alarm is not
         reported, but the alarm and clear alarm threshold configuration is
         needed to bind."
    INDEX     { zxAnEthIfAlmProfileName, zxAnEthIfPerfVariable }
    ::= { zxAnEthIfAlmProfileConfTable 1 }
```

```
ZxAnEthIfAlmProfileConfEntry ::= SEQUENCE {
    zxAnEthIfAlmProfileName          DisplayString,
    zxAnEthIfPerfVariable           OBJECT IDENTIFIER,
    zxAnEthIfRiseAlmThresh          HCPerfCurrentCount,
    zxAnEthIfClrRiseAlmThresh       HCPerfCurrentCount,
    zxAnEthIfRiseWarnThresh         HCPerfCurrentCount,
    zxAnEthIfClrRiseWarnThresh     HCPerfCurrentCount,
    zxAnEthIfFallWarnThresh        HCPerfCurrentCount,
    zxAnEthIfClrFallWarnThresh     HCPerfCurrentCount,
    zxAnEthIfFallAlmThresh         HCPerfCurrentCount,
    zxAnEthIfClrFallAlmThresh      HCPerfCurrentCount,
    zxAnEthIfThreshUsed            BITS,
    zxAnEthIfAlmProfileConfRowStatus RowStatus
}
```

12.6.7 Performance Alarm Profile Loading

OID Specification

zxAnEthIfAlmProfileApplyTable's OID is .1.3.6.1.4.1.3902.1015.3.12.2.7.

Index Specification

{ ifIndex }, Type 1 platform composite index.

MIB Specification

Refer to ZTE-AN-INTERFACE-ETH-PERF-MIB.mib.

```
zxAnEthIfAlmProfileApplyTable    OBJECT-TYPE
    SYNTAX      SEQUENCE OF ZxAnEthIfAlmProfileApplyEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The performance alarm threshold profile configuration table of
         the ethernet interfaces."
    ::= { zxAnEthIfPerfObjects 7 }
```

```
zxAnEthIfAlmProfileApplyEntry    OBJECT-TYPE
    SYNTAX      ZxAnEthIfAlmProfileApplyEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The performance alarm threshold profile configuration entry of
         the ethernet interfaces."
    INDEX      { ifIndex }
    ::= { zxAnEthIfAlmProfileApplyTable 1 }
```

```
ZxAnEthIfAlmProfileApplyEntry ::= SEQUENCE {
    zxAnEthIfAlmPrf                  DisplayString,
    zxAnEthIfAlmPrfApplyRowStatus     RowStatus
}
```

12.7 VPORT Performance (V1.2.3)

12.7.1 Starting and Ending

OID Specification

zxGponVportCurrPerfTable's OID is .1.3.6.1.4.1.3902.1012.3.34.2.

Index Specification

{ zxGponMgmtPonOltId, zxGponMgmtPonOnuId, zxGponMgmtPonOnuBpIndex }, of them, zxGponMgmtPonOltId is PON Type 1 composite index, while others are regular index.

MIB Specification

Refer to zxGponVportCurrPerfTable defined in zxGponService.mib.

By default, the system won't perform VPORT performance statistics. If needed, you can start or end a certain VPORT performance statistics via operating zxGponVportCurrRowStatus.

zxGponVportCurrPerfTable OBJECT-TYPE

SYNTAX SEQUENCE OF ZxGponVportCurrPerfEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
 "Enable/disable the interface GPON vport Stasic."
::= { zxAnGponVportPerfMgmt 2 }

zxGponVportCurrPerfEntry OBJECT-TYPE

SYNTAX ZxGponVportCurrPerfEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
 "It is entry in the table zxGponVportCurrPerfTable."
INDEX { zxGponMgmtPonOltId, zxGponMgmtPonOnuId, zxGponMgmtPonOnuBpIndex }
::= { zxGponVportCurrPerfTable 1 }

ZxGponVportCurrPerfEntry ::=

SEQUENCE {
 zxGponVportCurrRowStatus RowStatus
}

12.7.2 Real-time Performance

OID Specification

zxAnBrgIfCurrStatsTable's OID is .1.3.6.1.4.1.3902.1015.3.11.2.3.

Index Specification

{ ifIndex } , Type 4 or 10 platform composite index.

MIB Specification

Refer to ZTE-AN-INTERFACE-STATS-MIB.mib.

```
zxAnBrgIfCurrStatsTable      OBJECT-TYPE
    SYNTAX      SEQUENCE OF ZxAnBrgIfCurrStatsEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Current performance data table of bridge interfaces."
    ::= { zxAnIfPerfObjects 3 }
```

```
zxAnBrgIfCurrStatsEntry      OBJECT-TYPE
    SYNTAX      ZxAnBrgIfCurrStatsEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Current performance data entry of bridge interfaces."
    INDEX      { ifIndex }
    ::= { zxAnBrgIfCurrStatsTable 1 }
```

```
ZxAnBrgIfCurrStatsEntry ::= SEQUENCE {
    zxAnBrgIfInOctets          Counter64,
    zxAnBrgIfInUcastPkts       Counter64,
    zxAnBrgIfInMcastPkts       Counter64,
    zxAnBrgIfInBcastPkts       Counter64,
    zxAnBrgIfOutOctets         Counter64,
    zxAnBrgIfOutUcastPkts      Counter64,
    zxAnBrgIfOutMcastPkts      Counter64,
    zxAnBrgIfOutBcastPkts      Counter64,
    zxAnBrgIfReset              INTEGER
}
```

12.7.3 15-Minute Real-time Performance

OID Specification

zxAnBrgIfCurr15MinPerfTable's OID is .1.3.6.1.4.1.3902.1015.3.13.2.2.

Index Specification

{ ifIndex }, Type 4 or 10 platform composite index.

MIB Specification

Refer to ZTE-AN-INTERFACE-BRG-PERF-MIB.mib.

```
zxAnBrgIfCurr15MinPerfTable      OBJECT-TYPE
    SYNTAX      SEQUENCE OF ZxAnBrgIfCurr15MinPerfEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The 15 minutes interval performance data table of the bridge
         interfaces."
 ::= { zxAnBrgIfPerfObjects 2 }
```

```
zxAnBrgIfCurr15MinPerfEntry      OBJECT-TYPE
    SYNTAX      ZxAnBrgIfCurr15MinPerfEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The 15 minutes interval performance data entry of the bridge
         interfaces."
    INDEX      { ifIndex }
 ::= { zxAnBrgIfCurr15MinPerfTable 1 }
```

```
ZxAnBrgIfCurr15MinPerfEntry ::= SEQUENCE {
    zxAnBrgIfC15MTimeElapsed            Gauge32,
    zxAnBrgIfC15MInOctets              Counter64,
    zxAnBrgIfC15MInUcastPkts           Counter64,
    zxAnBrgIfC15MInMcastPkts          Counter64,
    zxAnBrgIfC15MInBcastPkts           Counter64,
    zxAnBrgIfC15MOutOctets             Counter64,
    zxAnBrgIfC15MOutUcastPkts          Counter64,
    zxAnBrgIfC15MOutMcastPkts          Counter64,
    zxAnBrgIfC15MOutBcastPkts          Counter64,
    zxAnBrgIfC15MReset                INTEGER
}
```

12.7.4 24-Hour Real-time Performance

OID Specification

zxAnBrgIfCurr1DayPerfTable's OID is .1.3.6.1.4.1.3902.1015.3.13.2.2.

Index Specification

{ ifIndex }, Type 4 or 10 platform composite index.

MIB Specification

Refer to ZTE-AN-INTERFACE-BRG-PERF-MIB.mib.

```
zxAnBrgIfCurr1DayPerfTable      OBJECT-TYPE
    SYNTAX      SEQUENCE OF ZxAnBrgIfCurr1DayPerfEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The 1 day interval performance data table of the bridge
         interfaces."
    ::= { zxAnBrgIfPerfObjects 3 }
```

```
zxAnBrgIfCurr1DayPerfEntry      OBJECT-TYPE
    SYNTAX      ZxAnBrgIfCurr1DayPerfEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The 1 day interval performance data entry of the bridge
         interfaces."
    INDEX      { ifIndex }
    ::= { zxAnBrgIfCurr1DayPerfTable 1 }
```

```
ZxAnBrgIfCurr1DayPerfEntry ::= SEQUENCE {
    zxAnBrgIfC1DTimeElapsed            Gauge32,
    zxAnBrgIfC1DInOctets              Counter64,
    zxAnBrgIfC1DInUcastPkts           Counter64,
    zxAnBrgIfC1DInMcastPkts           Counter64,
    zxAnBrgIfC1DInBcastPkts           Counter64,
    zxAnBrgIfC1DOutOctets             Counter64,
    zxAnBrgIfC1DOutUcastPkts          Counter64,
    zxAnBrgIfC1DOutMcastPkts          Counter64,
    zxAnBrgIfC1DOutBcastPkts          Counter64,
    zxAnBrgIfC1DReset                INTEGER
}
```

12.7.5 15-Minute Historical Performance

OID Specification

zxAnBrgIfHis15MinPerfTable's OID is .1.3.6.1.4.1.3902.1015.3.13.2.4.

Index Specification

{ ifIndex }, Type 4 or 10 platform composite index.

MIB Specification

Refer to ZTE-AN-INTERFACE-BRG-PERF-MIB.mib.

```
zxAnBrgIfHis15MinPerfTable      OBJECT-TYPE
```

SYNTAX SEQUENCE OF ZxAnBrgIfHis15MinPerfEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
 "The 15 minutes interval history performance data table of the bridge interfaces."
::= { zxAnBrgIfPerfObjects 4 }

zxAnBrgIfHis15MinPerfEntry OBJECT-TYPE
SYNTAX ZxAnBrgIfHis15MinPerfEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
 "The 15 minutes interval performance data entry of the bridge interfaces."
INDEX { ifIndex,zxAnBrgIfH15MIntervalNo }
::= { zxAnBrgIfHis15MinPerfTable 1 }

ZxAnBrgIfHis15MinPerfEntry ::= SEQUENCE {
 zxAnBrgIfH15MIntervalNo Integer32,
 zxAnBrgIfH15MIntervalValidData TruthValue,
 zxAnBrgIfH15MDaTime DateAndTime,
 zxAnBrgIfH15MInOctets Counter64,
 zxAnBrgIfH15MInUcastPkts Counter64,
 zxAnBrgIfH15MInMcastPkts Counter64,
 zxAnBrgIfH15MInBcastPkts Counter64,
 zxAnBrgIfH15MOutOctets Counter64,
 zxAnBrgIfH15MOutUcastPkts Counter64,
 zxAnBrgIfH15MOutMcastPkts Counter64,
 zxAnBrgIfH15MOutBcastPkts Counter64
}

12.7.6 24-Hour Historical Performance

OID Specification

zxAnBrgIfHis1DayPerfTable's OID is .1.3.6.1.4.1.3902.1015.3.13.2.5.

Index Specification

{ ifIndex }, Type 4 or 10 platform composite index.

MIB Specification

Refer to ZTE-AN-INTERFACE-BRG-PERF-MIB.mib.

```
zxAnBrgIfHis1DayPerfTable      OBJECT-TYPE
    SYNTAX      SEQUENCE OF ZxAnBrgIfHis1DayPerfEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The 1 day interval history performance data table of the bridge
         interfaces."
 ::= { zxAnBrgIfPerfObjects 5 }
```

```
zxAnBrgIfHis1DayPerfEntry      OBJECT-TYPE
    SYNTAX      ZxAnBrgIfHis1DayPerfEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The 1 day interval performance data entry of the bridge
         interfaces."
 INDEX   { ifIndex,zxAnBrgIfH1DIntervalNo }
 ::= { zxAnBrgIfHis1DayPerfTable 1 }
```

```
ZxAnBrgIfHis1DayPerfEntry ::= SEQUENCE {
    zxAnBrgIfH1DIntervalNo          Integer32,
    zxAnBrgIfH1DIntervalValidData   TruthValue,
    zxAnBrgIfH1DDateTime           DateAndTime,
    zxAnBrgIfH1DInOctets            Counter64,
    zxAnBrgIfH1DInUcastPkts         Counter64,
    zxAnBrgIfH1DInMcastPkts         Counter64,
    zxAnBrgIfH1DInBcastPkts         Counter64,
    zxAnBrgIfH1DOutOctets           Counter64,
    zxAnBrgIfH1DOutUcastPkts         Counter64,
    zxAnBrgIfH1DOutMcastPkts         Counter64,
    zxAnBrgIfH1DOutBcastPkts         Counter64
}
```

12.7.7 Performance Threshold Alarm Profile

OID Specification

zxAnBrgIfAlmProfileTable's OID is .1.3.6.1.4.1.3902.1015.3.13.2.8.

zxAnBrgIfAlmProfileConfTable's OID is .1.3.6.1.4.1.3902.1015.3.13.2.6.

Index Specification

{ ifIndex }, Type 4 or 10 platform composite index.

MIB Specification

Refer to ZTE-AN-INTERFACE-BRG-PERF-MIB.mib.

zxAnBrgIfAlmProfileTable OBJECT-TYPE
SYNTAX SEQUENCE OF ZxAnBrgIfAlmProfileEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"The performance alarm threshold profile table of the bridge interfaces. It can be used to delete all of the performance alarm threshold profiles which has the same name configured in 'zxAnBrgIfAlmProfileConfTable'."
 ::= { zxAnBrgIfPerfObjects 8 }

zxAnBrgIfAlmProfileEntry OBJECT-TYPE
SYNTAX ZxAnBrgIfAlmProfileEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"The performance alarm threshold profile entry of the bridge interfaces."
INDEX { zxAnBrgIfAlmProfileName }
 ::= { zxAnBrgIfAlmProfileTable 1 }

ZxAnBrgIfAlmProfileEntry ::= SEQUENCE {
 zxAnBrgIfAlmProfileRowStatus RowStatus
}

zxAnBrgIfAlmProfileConfTable OBJECT-TYPE
SYNTAX SEQUENCE OF ZxAnBrgIfAlmProfileConfEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"The performance alarm threshold profile table of the bridge interfaces."
 ::= { zxAnBrgIfPerfObjects 6 }

zxAnBrgIfAlmProfileConfEntry OBJECT-TYPE
SYNTAX ZxAnBrgIfAlmProfileConfEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"The performance alarm threshold profile table of the bridge interfaces.These variables in the profile configuration is optional, if not configured, it means the corresponding alarm is not reported, but the alarm and clear alarm threshold configuration is needed to bind. "

```
INDEX { zxAnBrgIfAlmProfileName, zxAnBrgIfPerfVariable }
 ::= { zxAnBrgIfAlmProfileConfTable 1 }
```

```
ZxAnBrgIfAlmProfileConfEntry ::= SEQUENCE {
    zxAnBrgIfAlmProfileName      DisplayString,
    zxAnBrgIfPerfVariable        OBJECT IDENTIFIER,
    zxAnBrgIfRiseAlmThresh      HCPerfCurrentCount,
    zxAnBrgIfClrRiseAlmThresh   HCPerfCurrentCount,
    zxAnBrgIfRiseWarnThresh     HCPerfCurrentCount,
    zxAnBrgIfClrRiseWarnThresh  HCPerfCurrentCount,
    zxAnBrgIfFallWarnThresh    HCPerfCurrentCount,
    zxAnBrgIfClrFallWarnThresh  HCPerfCurrentCount,
    zxAnBrgIfFallAlmThresh     HCPerfCurrentCount,
    zxAnBrgIfClrFallAlmThresh   HCPerfCurrentCount,
    zxAnBrgIfThreshUsed        BITS,
    zxAnBrgIfAlmProfileConfRowStatus RowStatus
}
```

12.7.8 Performance Alarm Profile Loading

OID Specification

zxAnBrgIfAlmProfileApplyTable's OID is .1.3.6.1.4.1.3902.1015.3.13.2.7.

Index Specification

{ ifIndex }, Type 4 or 10 platform composite index.

MIB Specification

Refer to ZTE-AN-INTERFACE-BRG-PERF-MIB.mib.

```
zxAnBrgIfAlmProfileApplyTable   OBJECT-TYPE
    SYNTAX      SEQUENCE OF ZxAnBrgIfAlmProfileApplyEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The performance alarm threshold profile configuration table of
         the bridge interfaces."
 ::= { zxAnBrgIfPerfObjects 7 }
```

```
zxAnBrgIfAlmProfileApplyEntry   OBJECT-TYPE
    SYNTAX      ZxAnBrgIfAlmProfileApplyEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The performance alarm threshold profile configuration entry of
```

```
the bridge interfaces."  
INDEX { ifIndex }  
 ::= { zxAnBrgIfAlmProfileApplyTable 1 }  
  
ZxAnBrgIfAlmProfileApplyEntry ::= SEQUENCE {  
    zxAnBrgIfAlmPrf          DisplayString,  
    zxAnBrgIfAlmPrfApplyRowStatus   RowStatus  
}
```

12.8 OLT Ethernet Performance (V1.2.3)

The performance is started by default.

12.8.1 Real-time Performance

OID Specification

zxAnPonOltIfCurrPerfTable's OID is .1.3.6.1.4.1.3902.1015.1010.5.55.1.

Index Specification

{ zxAnXponOltIfIndex }, Type 1 PON composite index.

MIB Specification

Refer to zxAnXpon.mib.

zxAnPonOltIfCurrPerfTable OBJECT-TYPE

```
SYNTAX      SEQUENCE OF ZxAnPonOltIfCurrPerfEntry  
MAX-ACCESS  not-accessible  
STATUS      current  
DESCRIPTION  
"The current interface performance data table of XPON OLT."  
 ::= { zxAnPonOltPerfMgmt 1 }
```

zxAnPonOltIfCurrPerfEntry OBJECT-TYPE

```
SYNTAX      ZxAnPonOltIfCurrPerfEntry  
MAX-ACCESS  not-accessible  
STATUS      current  
DESCRIPTION  
"An entry in the OLT current interface performance data table."  
INDEX      { zxAnXponOltIfIndex }  
 ::= { zxAnPonOltIfCurrPerfTable 1 }
```

ZxAnPonOltIfCurrPerfEntry ::=

```
SEQUENCE {
    zxAnPonOltIfDropEvents           Counter64,
    zxAnPonOltIfRxOctets             Counter64,
    zxAnPonOltIfTxOctets             Counter64,
    zxAnPonOltIfRxPkts               Counter64,
    zxAnPonOltIfTxPkts               Counter64,
    zxAnPonOltIfRxBroadPkts          Counter64,
    zxAnPonOltIfTxBroadPkts          Counter64,
    zxAnPonOltIfRxMultiPkts          Counter64,
    zxAnPonOltIfTxMultiPkts          Counter64,
    zxAnPonOltIfRxCRCErrors          Counter64,
    zxAnPonOltIfTxCRCErrors          Counter64,
    zxAnPonOltIfRxUnderPkts          Counter64,
    zxAnPonOltIfTxUnderPkts          Counter64,
    zxAnPonOltIfRxOverPkts            Counter64,
    zxAnPonOltIfTxOverPkts            Counter64,
    zxAnPonOltIfRxFragments          Counter64,
    zxAnPonOltIfTxFragments          Counter64,
    zxAnPonOltIfRxJabbers             Counter64,
    zxAnPonOltIfTxJabbers             Counter64,
    zxAnPonOltIfCollisions           Counter64,
    zxAnPonOltIfRx64Octs              Counter64,
    zxAnPonOltIfRx65To127Octs         Counter64,
    zxAnPonOltIfRx128To255Octs        Counter64,
    zxAnPonOltIfRx256To511Octs        Counter64,
    zxAnPonOltIfRx512To1023Octs       Counter64,
    zxAnPonOltIfRx1024To1518Octs      Counter64,
    zxAnPonOltIfTx64Octs              Counter64,
    zxAnPonOltIfTx65To127Octs         Counter64,
    zxAnPonOltIfTx128To255Octs        Counter64,
    zxAnPonOltIfTx256To511Octs        Counter64,
    zxAnPonOltIfTx512To1023Octs       Counter64,
    zxAnPonOltIfTx1024To1518Octs      Counter64,
    zxAnPonOltIfCurrPerfReset         INTEGER
}
```

12.8.2 15-Minute Real-time Performance

OID Specification

zxAnPonOltIfCurr15MinPerfTable's OID is .1.3.6.1.4.1.3902.1015.1010.5.55.2.

Index Specification

{ zxAnXponOltIfIndex }, Type 1 PON composite index.

MIB Specification

Refer to zxAnXpon.mib.

zxAnPonOltIfCurr15MinPerfTable OBJECT-TYPE

SYNTAX SEQUENCE OF ZxAnPonOltIfCurr15MinPerfEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The current 15 minutes performance data table of XPON OLT."

::= { zxAnPonOltPerfMgmt 2 }

zxAnPonOltIfCurr15MinPerfEntry OBJECT-TYPE

SYNTAX ZxAnPonOltIfCurr15MinPerfEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the OLT current 15 minutes performance data table."

INDEX { zxAnXponOltIfIndex }

::= { zxAnPonOltIfCurr15MinPerfTable 1 }

ZxAnPonOltIfCurr15MinPerfEntry ::=

SEQUENCE {

zxAnPonOltIfC15MTimeElapsed	Gauge32,
zxAnPonOltIfC15MDropEvents	Counter64,
zxAnPonOltIfC15MRxOctets	Counter64,
zxAnPonOltIfC15MTxOctets	Counter64,
zxAnPonOltIfC15MRxPkts	Counter64,
zxAnPonOltIfC15MTxPkts	Counter64,
zxAnPonOltIfC15MRxBroadPkts	Counter64,
zxAnPonOltIfC15MTxBroadPkts	Counter64,
zxAnPonOltIfC15MRxMultiPkts	Counter64,
zxAnPonOltIfC15MTxMultiPkts	Counter64,
zxAnPonOltIfC15MRxCRCErrors	Counter64,
zxAnPonOltIfC15MTxCRCErrors	Counter64,
zxAnPonOltIfC15MRxUnderPkts	Counter64,
zxAnPonOltIfC15MTxUnderPkts	Counter64,
zxAnPonOltIfC15MRxOverPkts	Counter64,
zxAnPonOltIfC15MTxOverPkts	Counter64,
zxAnPonOltIfC15MRxFragments	Counter64,
zxAnPonOltIfC15MTxFragments	Counter64,
zxAnPonOltIfC15MRxJabbers	Counter64,
zxAnPonOltIfC15MTxJabbers	Counter64,

zxAnPonOltIfC15MCollisions	Counter64,
zxAnPonOltIfC15MRx64Octs	Counter64,
zxAnPonOltIfC15MRx65To127Octs	Counter64,
zxAnPonOltIfC15MRx128To255Octs	Counter64,
zxAnPonOltIfC15MRx256To511Octs	Counter64,
zxAnPonOltIfC15MRx512To1023Octs	Counter64,
zxAnPonOltIfC15MRx1024To1518Octs	Counter64,
zxAnPonOltIfC15MTx64Octs	Counter64,
zxAnPonOltIfC15MTx65To127Octs	Counter64,
zxAnPonOltIfC15MTx128To255Octs	Counter64,
zxAnPonOltIfC15MTx256To511Octs	Counter64,
zxAnPonOltIfC15MTx512To1023Octs	Counter64,
zxAnPonOltIfC15MTx1024To1518Octs	Counter64,
zxAnPonOltIfC15MPerfReset	INTEGER
}	

12.8.3 24-Minute Real-time Performance

OID Specification

zxAnPonOltIfCurr1DayPerfTable's OID is .1.3.6.1.4.1.3902.1015.1010.5.55.3.

Index Specification

{ zxAnXponOltIfIndex }, Type 1 PON composite index.

MIB Specification

Refer to zxAnXpon.mib.

zxAnPonOltIfCurr1DayPerfTable OBJECT-TYPE

SYNTAX	SEQUENCE OF ZxAnPonOltIfCurr1DayPerfEntry
MAX-ACCESS	not-accessible
STATUS	current
DESCRIPTION	"The current 1 day performance data table of XPON OLT."

::= { zxAnPonOltPerfMgmt 3 }

zxAnPonOltIfCurr1DayPerfEntry OBJECT-TYPE

SYNTAX	ZxAnPonOltIfCurr1DayPerfEntry
MAX-ACCESS	not-accessible
STATUS	current
DESCRIPTION	"An entry in the OLT current 1 day performance data table."

INDEX { zxAnXponOltIfIndex }

::= { zxAnPonOltIfCurr1DayPerfTable 1 }

```
ZxAnPonOltIfCurr1DayPerfEntry ::=  
SEQUENCE {  
    zxAnPonOltIfC1DTimeElapsed            Gauge32,  
    zxAnPonOltIfC1DDropEvents             Counter64,  
    zxAnPonOltIfC1DRxOctets              Counter64,  
    zxAnPonOltIfC1DTxOctets              Counter64,  
    zxAnPonOltIfC1DRxPkts                Counter64,  
    zxAnPonOltIfC1DTxPkts                Counter64,  
    zxAnPonOltIfC1DRxBroadPkts           Counter64,  
    zxAnPonOltIfC1DTxBroadPkts           Counter64,  
    zxAnPonOltIfC1DRxMultiPkts          Counter64,  
    zxAnPonOltIfC1DTxMultiPkts          Counter64,  
    zxAnPonOltIfC1DRxCRCErrors          Counter64,  
    zxAnPonOltIfC1DTxCRCErrors          Counter64,  
    zxAnPonOltIfC1DRxUnderPkts          Counter64,  
    zxAnPonOltIfC1DTxUnderPkts          Counter64,  
    zxAnPonOltIfC1DRxOverPkts           Counter64,  
    zxAnPonOltIfC1DTxOverPkts           Counter64,  
    zxAnPonOltIfC1DRxFragments          Counter64,  
    zxAnPonOltIfC1DTxFragments          Counter64,  
    zxAnPonOltIfC1DRxJabbers            Counter64,  
    zxAnPonOltIfC1DTxJabbers            Counter64,  
    zxAnPonOltIfC1DCollisions          Counter64,  
    zxAnPonOltIfC1DRx64Octs             Counter64,  
    zxAnPonOltIfC1DRx65To127Octs        Counter64,  
    zxAnPonOltIfC1DRx128To255Octs        Counter64,  
    zxAnPonOltIfC1DRx256To511Octs        Counter64,  
    zxAnPonOltIfC1DRx512To1023Octs       Counter64,  
    zxAnPonOltIfC1DRx1024To1518Octs       Counter64,  
    zxAnPonOltIfC1DTx64Octs             Counter64,  
    zxAnPonOltIfC1DTx65To127Octs        Counter64,  
    zxAnPonOltIfC1DTx128To255Octs        Counter64,  
    zxAnPonOltIfC1DTx256To511Octs        Counter64,  
    zxAnPonOltIfC1DTx512To1023Octs       Counter64,  
    zxAnPonOltIfC1DTx1024To1518Octs       Counter64,  
    zxAnPonOltIfC1DPerfReset            INTEGER  
}
```

12.8.4 15-Minute Historical Performance

OID Specification

zxAnPonOltIfHis15MinPerfTable's OID is .1.3.6.1.4.1.3902.1015.1010.5.55.4.

Index Specification

{ zxAnXponOltIfIndex } , Type 1 PON composite index.

MIB Specification

Refer to zxAnXpon.mib.

zxAnPonOltIfHis15MinPerfTable OBJECT-TYPE

SYNTAX SEQUENCE OF ZxAnPonOltIfHis15MinPerfEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The 15 minutes interval performance data table of XPON OLT."

::= { zxAnPonOltPerfMgmt 4 }

zxAnPonOltIfHis15MinPerfEntry OBJECT-TYPE

SYNTAX ZxAnPonOltIfHis15MinPerfEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the OLT 15 minutes interval performance data table."

INDEX { zxAnXponOltIfIndex,zxAnPonOltIfH15MIntervalNumber }

::= { zxAnPonOltIfHis15MinPerfTable 1 }

ZxAnPonOltIfHis15MinPerfEntry ::=

SEQUENCE {

zxAnPonOltIfH15MIntervalNumber	Integer32,
zxAnPonOltIfH15MDateAndTime	DateAndTime,
zxAnPonOltIfH15MDropEvents	Counter64,
zxAnPonOltIfH15MRxOctets	Counter64,
zxAnPonOltIfH15MTxOctets	Counter64,
zxAnPonOltIfH15MRxPkts	Counter64,
zxAnPonOltIfH15MTxPkts	Counter64,
zxAnPonOltIfH15MRxBroadPkts	Counter64,
zxAnPonOltIfH15MTxBroadPkts	Counter64,
zxAnPonOltIfH15MRxMultiPkts	Counter64,
zxAnPonOltIfH15MTxMultiPkts	Counter64,
zxAnPonOltIfH15MRxCRCErrors	Counter64,
zxAnPonOltIfH15MTxCRCErrors	Counter64,
zxAnPonOltIfH15MRxUnderPkts	Counter64,
zxAnPonOltIfH15MTxUnderPkts	Counter64,
zxAnPonOltIfH15MRxOverPkts	Counter64,
zxAnPonOltIfH15MTxOverPkts	Counter64,
zxAnPonOltIfH15MRxFragments	Counter64,

zxAnPonOltIfH15MTxFragments	Counter64,
zxAnPonOltIfH15MRxJabbers	Counter64,
zxAnPonOltIfH15MTxJabbers	Counter64,
zxAnPonOltIfH15MCollisions	Counter64,
zxAnPonOltIfH15MRx64Octs	Counter64,
zxAnPonOltIfH15MRx65To127Octs	Counter64,
zxAnPonOltIfH15MRx128To255Octs	Counter64,
zxAnPonOltIfH15MRx256To511Octs	Counter64,
zxAnPonOltIfH15MRx512To1023Octs	Counter64,
zxAnPonOltIfH15MRx1024To1518Octs	Counter64,
zxAnPonOltIfH15MTx64Octs	Counter64,
zxAnPonOltIfH15MTx65To127Octs	Counter64,
zxAnPonOltIfH15MTx128To255Octs	Counter64,
zxAnPonOltIfH15MTx256To511Octs	Counter64,
zxAnPonOltIfH15MTx512To1023Octs	Counter64,
zxAnPonOltIfH15MTx1024To1518Octs	Counter64,
zxAnPonOltIfH15MValidData	TruthValue
}	

12.8.5 24-Hour Historical Performance

OID Specification

zxAnPonOltIfHis1DayPerfTable's OID is .1.3.6.1.4.1.3902.1015.1010.5.55.5.

Index Specification

{ zxAnXponOltIfIndex }, Type 1 PON composite index.

MIB Specification

Refer to zxAnXpon.mib.

zxAnPonOltIfHis1DayPerfTable OBJECT-TYPE

SYNTAX SEQUENCE OF ZxAnPonOltIfHis1DayPerfEntry
MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The 1 day interval performance data table of XPON OLT."

::= { zxAnPonOltPerfMgmt 5 }

zxAnPonOltIfHis1DayPerfEntry OBJECT-TYPE

SYNTAX ZxAnPonOltIfHis1DayPerfEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The 1 day interval performance data entry of interfaces."
INDEX { zxAnXponOltIfIndex,zxAnPonOltIfH1DIntervalNumber }
 ::= { zxAnPonOltIfHis1DayPerfTable 1 }

ZxAnPonOltIfHis1DayPerfEntry ::=
SEQUENCE {
zxAnPonOltIfH1DIntervalNumber Integer32,
zxAnPonOltIfH1DDateAndTime DateAndTime,
zxAnPonOltIfH1DDropEvents Counter64,
zxAnPonOltIfH1DRxOctets Counter64,
zxAnPonOltIfH1DTxOctets Counter64,
zxAnPonOltIfH1DRxPkts Counter64,
zxAnPonOltIfH1DTxPkts Counter64,
zxAnPonOltIfH1DRxBroadPkts Counter64,
zxAnPonOltIfH1DTxBroadPkts Counter64,
zxAnPonOltIfH1DRxMultiPkts Counter64,
zxAnPonOltIfH1DTxMultiPkts Counter64,
zxAnPonOltIfH1DRxCRCErrors Counter64,
zxAnPonOltIfH1DTxCRCErrors Counter64,
zxAnPonOltIfH1DRxUnderPkts Counter64,
zxAnPonOltIfH1DTxUnderPkts Counter64,
zxAnPonOltIfH1DRxOverPkts Counter64,
zxAnPonOltIfH1DTxOverPkts Counter64,
zxAnPonOltIfH1DRxFragments Counter64,
zxAnPonOltIfH1DTxFragments Counter64,
zxAnPonOltIfH1DRxJabbers Counter64,
zxAnPonOltIfH1DTxJabbers Counter64,
zxAnPonOltIfH1DCollisions Counter64,
zxAnPonOltIfH1DRx64Octs Counter64,
zxAnPonOltIfH1DRx65To127Octs Counter64,
zxAnPonOltIfH1DRx128To255Octs Counter64,
zxAnPonOltIfH1DRx256To511Octs Counter64,
zxAnPonOltIfH1DRx512To1023Octs Counter64,
zxAnPonOltIfH1DRx1024To1518Octs Counter64,
zxAnPonOltIfH1DTx64Octs Counter64,
zxAnPonOltIfH1DTx65To127Octs Counter64,
zxAnPonOltIfH1DTx128To255Octs Counter64,
zxAnPonOltIfH1DTx256To511Octs Counter64,
zxAnPonOltIfH1DTx512To1023Octs Counter64,
zxAnPonOltIfH1DTx1024To1518Octs Counter64,
zxAnPonOltIfH1DValidData TruthValue
}

12.9 ONU Ethernet Performance (V1.2.3)

The performance is started by default.

12.9.1 Real-time Performance

OID Specification

zxAnPonOnuIfCurrPerfTable's OID is .1.3.6.1.4.1.3902.1015.1010.5.56.1.

Index Specification

{ zxAnXponOnuIfIndex }, Type 3 or 9 PON composite index.

MIB Specification

Refer to zxAnXpon.mib.

zxAnPonOnuIfCurrPerfTable OBJECT-TYPE

SYNTAX SEQUENCE OF ZxAnPonOnuIfCurrPerfEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
 "The current interface performance data table of XPON ONU."
::= { zxAnPonOnuPerfMgmt 1 }

zxAnPonOnuIfCurrPerfEntry OBJECT-TYPE

SYNTAX ZxAnPonOnuIfCurrPerfEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
 "An entry in the ONU current interface performance data table."
INDEX { zxAnXponOnuIfIndex }
::= { zxAnPonOnuIfCurrPerfTable 1 }

ZxAnPonOnuIfCurrPerfEntry ::=

SEQUENCE {
 zxAnPonOnuIfDropEvents Counter64,
 zxAnPonOnuIfRxOctets Counter64,
 zxAnPonOnuIfTxOctets Counter64,
 zxAnPonOnuIfRxPkts Counter64,
 zxAnPonOnuIfTxPkts Counter64,
 zxAnPonOnuIfRxBroadPkts Counter64,
 zxAnPonOnuIfTxBroadPkts Counter64,
 zxAnPonOnuIfRxMultiPkts Counter64,
 zxAnPonOnuIfTxMultiPkts Counter64,

zxAnPonOnuIfRxCRCErrors	Counter64,
zxAnPonOnuIfTxCRCErrors	Counter64,
zxAnPonOnuIfRxUnderPkts	Counter64,
zxAnPonOnuIfTxUnderPkts	Counter64,
zxAnPonOnuIfRxOverPkts	Counter64,
zxAnPonOnuIfTxOverPkts	Counter64,
zxAnPonOnuIfRxFragments	Counter64,
zxAnPonOnuIfTxFragments	Counter64,
zxAnPonOnuIfRxJabbers	Counter64,
zxAnPonOnuIfTxJabbers	Counter64,
zxAnPonOnuIfCollisions	Counter64,
zxAnPonOnuIfRx64Octs	Counter64,
zxAnPonOnuIfRx65To127Octs	Counter64,
zxAnPonOnuIfRx128To255Octs	Counter64,
zxAnPonOnuIfRx256To511Octs	Counter64,
zxAnPonOnuIfRx512To1023Octs	Counter64,
zxAnPonOnuIfRx1024To1518Octs	Counter64,
zxAnPonOnuIfTx64Octs	Counter64,
zxAnPonOnuIfTx65To127Octs	Counter64,
zxAnPonOnuIfTx128To255Octs	Counter64,
zxAnPonOnuIfTx256To511Octs	Counter64,
zxAnPonOnuIfTx512To1023Octs	Counter64,
zxAnPonOnuIfTx1024To1518Octs	Counter64,
zxAnPonOnuIfCurrPerfReset	INTEGER
}	

12.9.2 15-Minute Real-time Performance

OID Specification

zxAnPonOnuIfCurr15MinPerfTable's OID is .1.3.6.1.4.1.3902.1015.1010.5.56.2.

Index Specification

{ zxAnXponOnuIfIndex }, Type 3 or 9 PON composite index.

MIB Specification

Refer to zxAnXpon.mib.

zxAnPonOnuIfCurr15MinPerfTable OBJECT-TYPE

SYNTAX SEQUENCE OF ZxAnPonOnuIfCurr15MinPerfEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The current 15 minutes performance data table of XPON ONU."

::= { zxAnPonOnuPerfMgmt 2 }

zxAnPonOnuIfCurr15MinPerfEntry OBJECT-TYPE
SYNTAX ZxAnPonOnuIfCurr15MinPerfEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION "An entry in the ONU current 15 minutes performance data table."
INDEX { zxAnXponOnuIfIndex }
 ::= { zxAnPonOnuIfCurr15MinPerfTable 1 }

ZxAnPonOnuIfCurr15MinPerfEntry ::=
SEQUENCE {
zxAnPonOnuIfC15MTimeElapsed Gauge32,
zxAnPonOnuIfC15MDropEvents Counter64,
zxAnPonOnuIfC15MRxOctets Counter64,
zxAnPonOnuIfC15MTxOctets Counter64,
zxAnPonOnuIfC15MRxPkts Counter64,
zxAnPonOnuIfC15MTxPkts Counter64,
zxAnPonOnuIfC15MRxBroadPkts Counter64,
zxAnPonOnuIfC15MTxBroadPkts Counter64,
zxAnPonOnuIfC15MRxMultiPkts Counter64,
zxAnPonOnuIfC15MTxMultiPkts Counter64,
zxAnPonOnuIfC15MRxCRCErrors Counter64,
zxAnPonOnuIfC15MTxCRCErrors Counter64,
zxAnPonOnuIfC15MRxUnderPkts Counter64,
zxAnPonOnuIfC15MTxUnderPkts Counter64,
zxAnPonOnuIfC15MRxOverPkts Counter64,
zxAnPonOnuIfC15MTxOverPkts Counter64,
zxAnPonOnuIfC15MRxFragments Counter64,
zxAnPonOnuIfC15MTxFragments Counter64,
zxAnPonOnuIfC15MRxJabbers Counter64,
zxAnPonOnuIfC15MTxJabbers Counter64,
zxAnPonOnuIfC15MCollisions Counter64,
zxAnPonOnuIfC15MRx64Octs Counter64,
zxAnPonOnuIfC15MRx65To127Octs Counter64,
zxAnPonOnuIfC15MRx128To255Octs Counter64,
zxAnPonOnuIfC15MRx256To511Octs Counter64,
zxAnPonOnuIfC15MRx512To1023Octs Counter64,
zxAnPonOnuIfC15MRx1024To1518Octs Counter64,
zxAnPonOnuIfC15MTx64Octs Counter64,
zxAnPonOnuIfC15MTx65To127Octs Counter64,
zxAnPonOnuIfC15MTx128To255Octs Counter64,
zxAnPonOnuIfC15MTx256To511Octs Counter64,
zxAnPonOnuIfC15MTx512To1023Octs Counter64,

zxAnPonOnuIfC15MTx1024To1518Octs	Counter64,
zxAnPonOnuIfC15MPerfReset	INTEGER
}	

12.9.3 24-Minute Real-time Performance

OID Specification

.zxAnPonOnuIfCurr1DayPerfTable's OID is .1.3.6.1.4.1.3902.1015.1010.5.56.3.

Index Specification

{ zxAnXponOnuIfIndex }, Type 3 or 9 PON composite index.

MIB Specification

Refer to zxAnXpon.mib.

zxAnPonOnuIfCurr1DayPerfTable OBJECT-TYPE

SYNTAX	SEQUENCE OF ZxAnPonOnuIfCurr1DayPerfEntry
MAX-ACCESS	not-accessible
STATUS	current
DESCRIPTION	
	"The current 1 day performance data table of XPON ONU."
::=	{ zxAnPonOnuPerfMgmt 3 }

zxAnPonOnuIfCurr1DayPerfEntry OBJECT-TYPE

SYNTAX	ZxAnPonOnuIfCurr1DayPerfEntry
MAX-ACCESS	not-accessible
STATUS	current
DESCRIPTION	
	"An entry in the ONU current 1 day performance data table."
INDEX	{ zxAnXponOnuIfIndex }
::=	{ zxAnPonOnuIfCurr1DayPerfTable 1 }

ZxAnPonOnuIfCurr1DayPerfEntry ::=

SEQUENCE {	
zxAnPonOnuIfC1DTimeElapsed	Gauge32,
zxAnPonOnuIfC1DDropEvents	Counter64,
zxAnPonOnuIfC1DRxOctets	Counter64,
zxAnPonOnuIfC1DTxOctets	Counter64,
zxAnPonOnuIfC1DRxPkts	Counter64,
zxAnPonOnuIfC1DTxPkts	Counter64,
zxAnPonOnuIfC1DRxBroadPkts	Counter64,
zxAnPonOnuIfC1DTxBroadPkts	Counter64,
zxAnPonOnuIfC1DRxMultiPkts	Counter64,

zxAnPonOnuIfC1DTxMultiPkts	Counter64,
zxAnPonOnuIfC1DRxCRCErrors	Counter64,
zxAnPonOnuIfC1DTxCRCErrors	Counter64,
zxAnPonOnuIfC1DRxUnderPkts	Counter64,
zxAnPonOnuIfC1DTxUnderPkts	Counter64,
zxAnPonOnuIfC1DRxOverPkts	Counter64,
zxAnPonOnuIfC1DTxOverPkts	Counter64,
zxAnPonOnuIfC1DRxFragments	Counter64,
zxAnPonOnuIfC1DTxFragments	Counter64,
zxAnPonOnuIfC1DRxJabbers	Counter64,
zxAnPonOnuIfC1DTxJabbers	Counter64,
zxAnPonOnuIfC1DCollisions	Counter64,
zxAnPonOnuIfC1DRx64Octs	Counter64,
zxAnPonOnuIfC1DRx65To127Octs	Counter64,
zxAnPonOnuIfC1DRx128To255Octs	Counter64,
zxAnPonOnuIfC1DRx256To511Octs	Counter64,
zxAnPonOnuIfC1DRx512To1023Octs	Counter64,
zxAnPonOnuIfC1DRx1024To1518Octs	Counter64,
zxAnPonOnuIfC1DTx64Octs	Counter64,
zxAnPonOnuIfC1DTx65To127Octs	Counter64,
zxAnPonOnuIfC1DTx128To255Octs	Counter64,
zxAnPonOnuIfC1DTx256To511Octs	Counter64,
zxAnPonOnuIfC1DTx512To1023Octs	Counter64,
zxAnPonOnuIfC1DTx1024To1518Octs	Counter64,
zxAnPonOnuIfC1DPerfReset	INTEGER
}	

12.9.4 15-Minute Historical Performance

OID Specification

zxAnPonOnuIfHis15MinPerfTable's OID is .1.3.6.1.4.1.3902.1015.1010.5.56.4.

Index Specification

{ zxAnXponOnuIfIndex }, Type 3 or 9 PON composite index.

MIB Specification

Refer to zxAnXpon.mib.

zxAnPonOnuIfHis15MinPerfTable OBJECT-TYPE

SYNTAX SEQUENCE OF ZxAnPonOnuIfHis15MinPerfEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The 15 minutes interval performance data table of XPON ONU."

::= { zxAnPonOnuPerfMgmt 4 }

zxAnPonOnuIfHis15MinPerfEntry OBJECT-TYPE
SYNTAX ZxAnPonOnuIfHis15MinPerfEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"An entry in the ONU 15 minutes interval performance data table."
INDEX { zxAnXponOnuIfIndex, zxAnPonOnuIfH15MIntervalNumber }
 ::= { zxAnPonOnuIfHis15MinPerfTable 1 }

ZxAnPonOnuIfHis15MinPerfEntry ::=
SEQUENCE {
zxAnPonOnuIfH15MIntervalNumber Integer32,
zxAnPonOnuIfH15MDateAndTime DateAndTime,
zxAnPonOnuIfH15MDropEvents Counter64,
zxAnPonOnuIfH15MRxOctets Counter64,
zxAnPonOnuIfH15MTxOctets Counter64,
zxAnPonOnuIfH15MRxPkts Counter64,
zxAnPonOnuIfH15MTxPkts Counter64,
zxAnPonOnuIfH15MRxBroadPkts Counter64,
zxAnPonOnuIfH15MTxBroadPkts Counter64,
zxAnPonOnuIfH15MRxMultiPkts Counter64,
zxAnPonOnuIfH15MTxMultiPkts Counter64,
zxAnPonOnuIfH15MRxCRCErrors Counter64,
zxAnPonOnuIfH15MTxCRCErrors Counter64,
zxAnPonOnuIfH15MRxUnderPkts Counter64,
zxAnPonOnuIfH15MTxUnderPkts Counter64,
zxAnPonOnuIfH15MRxOverPkts Counter64,
zxAnPonOnuIfH15MTxOverPkts Counter64,
zxAnPonOnuIfH15MRxFragments Counter64,
zxAnPonOnuIfH15MTxFragments Counter64,
zxAnPonOnuIfH15MRxJabbers Counter64,
zxAnPonOnuIfH15MTxJabbers Counter64,
zxAnPonOnuIfH15MCollisions Counter64,
zxAnPonOnuIfH15MRx64Octs Counter64,
zxAnPonOnuIfH15MRx65To127Octs Counter64,
zxAnPonOnuIfH15MRx128To255Octs Counter64,
zxAnPonOnuIfH15MRx256To511Octs Counter64,
zxAnPonOnuIfH15MRx512To1023Octs Counter64,
zxAnPonOnuIfH15MRx1024To1518Octs Counter64,
zxAnPonOnuIfH15MTx64Octs Counter64,
zxAnPonOnuIfH15MTx65To127Octs Counter64,
zxAnPonOnuIfH15MTx128To255Octs Counter64,

zxAnPonOnuIfH15MTx256To511Octs	Counter64,
zxAnPonOnuIfH15MTx512To1023Octs	Counter64,
zxAnPonOnuIfH15MTx1024To1518Octs	Counter64,
zxAnPonOnuIfH15MValidData	TruthValue}

12.9.5 24-Hour Historical Performance

OID Specification

zxAnPonOnuIfHis1DayPerfTable's OID is .1.3.6.1.4.1.3902.1015.1010.5.56.5.

Index Specification

{ zxAnXponOnuIfIndex }, Type 3 or 9 PON composite index.

MIB Specification

Refer to zxAnXpon.mib.

zxAnPonOnuIfHis1DayPerfTable OBJECT-TYPE

SYNTAX	SEQUENCE OF ZxAnPonOnuIfHis1DayPerfEntry
MAX-ACCESS	not-accessible
STATUS	current
DESCRIPTION	"The 1 day interval performance data table of XPON ONU."

::= { zxAnPonOnuPerfMgmt 5 }

zxAnPonOnuIfHis1DayPerfEntry OBJECT-TYPE

SYNTAX	ZxAnPonOnuIfHis1DayPerfEntry
MAX-ACCESS	not-accessible
STATUS	current
DESCRIPTION	"The 1 day interval performance data entry of interfaces."

INDEX { zxAnXponOnuIfIndex, zxAnPonOnuIfH1DIntervalNumber }

::= { zxAnPonOnuIfHis1DayPerfTable 1 }

ZxAnPonOnuIfHis1DayPerfEntry ::=

SEQUENCE {	
zxAnPonOnuIfH1DIntervalNumber	Integer32,
zxAnPonOnuIfH1DDateAndTime	DateAndTime,
zxAnPonOnuIfH1DDropEvents	Counter64,
zxAnPonOnuIfH1DRxOctets	Counter64,
zxAnPonOnuIfH1DTxOctets	Counter64,
zxAnPonOnuIfH1DRxPkts	Counter64,
zxAnPonOnuIfH1DTxPkts	Counter64,
zxAnPonOnuIfH1DRxBroadPkts	Counter64,
zxAnPonOnuIfH1DTxBroadPkts	Counter64,

zxAnPonOnuIfH1DRxMultiPkts	Counter64,
zxAnPonOnuIfH1DTxMultiPkts	Counter64,
zxAnPonOnuIfH1DRxCRCErrors	Counter64,
zxAnPonOnuIfH1DTxCRCErrors	Counter64,
zxAnPonOnuIfH1DRxUnderPkts	Counter64,
zxAnPonOnuIfH1DTxUnderPkts	Counter64,
zxAnPonOnuIfH1DRxOverPkts	Counter64,
zxAnPonOnuIfH1DTxOverPkts	Counter64,
zxAnPonOnuIfH1DRxFragments	Counter64,
zxAnPonOnuIfH1DTxFragments	Counter64,
zxAnPonOnuIfH1DRxJabbers	Counter64,
zxAnPonOnuIfH1DTxJabbers	Counter64,
zxAnPonOnuIfH1DCollisions	Counter64,
zxAnPonOnuIfH1DRx64Octs	Counter64,
zxAnPonOnuIfH1DRx65To127Octs	Counter64,
zxAnPonOnuIfH1DRx128To255Octs	Counter64,
zxAnPonOnuIfH1DRx256To511Octs	Counter64,
zxAnPonOnuIfH1DRx512To1023Octs	Counter64,
zxAnPonOnuIfH1DRx1024To1518Octs	Counter64,
zxAnPonOnuIfH1DTx64Octs	Counter64,
zxAnPonOnuIfH1DTx65To127Octs	Counter64,
zxAnPonOnuIfH1DTx128To255Octs	Counter64,
zxAnPonOnuIfH1DTx256To511Octs	Counter64,
zxAnPonOnuIfH1DTx512To1023Octs	Counter64,
zxAnPonOnuIfH1DTx1024To1518Octs	Counter64,
zxAnPonOnuIfH1DValidData	TruthValue
}	

12.10 GPON OLT PON-Layer Performance (V1.2.3)

12.10.1 Real-time Performance

OID Specification

zxGponOltCurrPerfTable's OID is .1.3.6.1.4.1.3902.1012.3.31.1.

Index Specification

zxGponMgmtPonOltId , Type 1 PON composite index.

MIB Specification

Refer to zxGponService.mib.

zxGponOltCurrPerfTable OBJECT-TYPE

SYNTAX	SEQUENCE OF ZxGponOltCurrPerfEntry
--------	------------------------------------

```
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "The current performance data table of GPON OLT."
::= { zxAnGponOltPerfMgmt 1 }
```

```
zxGponOltCurrPerfEntry OBJECT-TYPE
    SYNTAX     ZxGponOltCurrPerfEntry
    MAX-ACCESS not-accessible
    STATUS     current
    DESCRIPTION
        "An entry in the OLT current performance data table."
INDEX   { zxGponMgmtPonOltId }
::= { zxGponOltCurrPerfTable 1 }
```

```
ZxGponOltCurrPerfEntry ::=

SEQUENCE {
    zxGponOltCorrNonIdleGemFrmUp      Counter64,
    zxGponOltCorrIdleGemFrmUp        Counter64,
    zxGponOltErroredGemFrmUp        Counter64,
    zxGponOltGemPayloadBytesUp       Counter64,
    zxGponOltCorrEtherFrmUp         Counter64,
    zxGponOltErroredEtherFrmUp       Counter64,
    zxGponOltPerfErr                Counter64,
    zxGponOltPerfRei                Counter64,
    zxGponOltValidEtherPktDown      Counter64,
    zxGponOltPloamDown              Counter64,
    zxGponOltErroredPloamUp         Counter64,
    zxGponOltPloamUp                Counter64,
    zxGponOltFecCorrBytes          Counter64,
    zxGponOltFecCorrWords          Counter64,
    zxGponOltFecUnCorrWords        Counter64,
    zxGponOltFecTotalRxWords       Counter64,
    zxGponOltBipCorrBits           Counter64,
    zxGponOltCrcErrPkts            Counter64,
    zxGponOltCurrReset             INTEGER
}
```

12.10.2 15-Minute Real-time Performance

OID Specification

zxGponOltCurrPerf15MinTable's OID is .1.3.6.1.4.1.3902.1012.3.31.2.

Index Specification

zxGponMgmtPonOltId , Type 1 PON composite index.

MIB Specification

Refer to zxGponService.mib.

zxGponOltCurrPerf15MinTable OBJECT-TYPE

SYNTAX SEQUENCE OF ZxGponOltCurrPerf15MinEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The current 15 minutes performance data table of GPON OLT."

::= { zxAnGponOltPerfMgmt 2 }

zxGponOltCurrPerf15MinEntry OBJECT-TYPE

SYNTAX ZxGponOltCurrPerf15MinEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the OLT current 15 minutes performance data table."

INDEX { zxGponMgmtPonOltId }

::= { zxGponOltCurrPerf15MinTable 1 }

ZxGponOltCurrPerf15MinEntry ::=

SEQUENCE {

zxGponOltC15MTimeElapsed	Gauge32,
zxGponOltC15MCorrNonIdleGemFrmUp	Counter64,
zxGponOltC15MCorrIdleGemFrmUp	Counter64,
zxGponOltC15MErroredGemFrmUp	Counter64,
zxGponOltC15MGemPayloadBytesUp	Counter64,
zxGponOltC15MCorrEtherFrmUp	Counter64,
zxGponOltC15MErroredEtherFrmUp	Counter64,
zxGponOltC15MErr	Counter64,
zxGponOltC15MRei	Counter64,
zxGponOltC15MValidEtherPktDown	Counter64,
zxGponOltC15MPloamDown	Counter64,
zxGponOltC15MErroredPloamUp	Counter64,
zxGponOltC15MPloamUp	Counter64,
zxGponOltC15MFecCorrBytes	Counter64,
zxGponOltC15MFecCorrWords	Counter64,
zxGponOltC15MFecUnCorrWords	Counter64,
zxGponOltC15MFecTotalRxWords	Counter64,
zxGponOltC15MBipCorrBits	Counter64,
zxGponOltC15MCrcErrPkts	Counter64,

```
zxGponOltC15MReset           INTEGER
    }
```

12.10.3 24-Hour Real-time Performance

OID Specification

zxGponOltCurrPerf1DayTable's OID is .1.3.6.1.4.1.3902.1012.3.31.3.

Index Specification

zxGponMgmtPonOltId , Type 1 PON composite index.

MIB Specification

Refer to zxGponService.mib.

zxGponOltCurrPerf1DayTable OBJECT-TYPE

```
SYNTAX      SEQUENCE OF ZxGponOltCurrPerf1DayEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
```

"The current 1 day performance data table of GPON OLT."

```
::= { zxAnGponOltPerfMgmt 3 }
```

zxGponOltCurrPerf1DayEntry OBJECT-TYPE

```
SYNTAX      ZxGponOltCurrPerf1DayEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
```

"An entry in the OLT current 1 day performance data table."

```
INDEX      { zxGponMgmtPonOltId }
 ::= { zxGponOltCurrPerf1DayTable 1 }
```

ZxGponOltCurrPerf1DayEntry ::=

```
SEQUENCE {
zxGponOltC1DTimeElapsed          Gauge32,
zxGponOltC1DCorrNonIdleGemFrmUp Counter64,
zxGponOltC1DCorrIdleGemFrmUp    Counter64,
zxGponOltC1DErroredGemFrmUp     Counter64,
zxGponOltC1DGemPayloadBytesUp   Counter64,
zxGponOltC1DCorrEtherFrmUp      Counter64,
zxGponOltC1DErroredEtherFrmUp   Counter64,
zxGponOltC1DErr                  Counter64,
zxGponOltC1DRei                 Counter64,
zxGponOltC1DValidEtherPktDown   Counter64,
```

zxGponOltC1DPloamDown	Counter64,
zxGponOltC1DErroredPloamUp	Counter64,
zxGponOltC1DPloamUp	Counter64,
zxGponOltC1DFecCorrBytes	Counter64,
zxGponOltC1DFecCorrWords	Counter64,
zxGponOltC1DFecUnCorrWords	Counter64,
zxGponOltC1DFecTotalRxWords	Counter64,
zxGponOltC1DBipCorrBits	Counter64,
zxGponOltC1DCrcErrPkts	Counter64,
zxGponOltC1DReset	INTEGER
}	

12.10.4 15-Minute Historical Performance

OID Specification

zxGponOltPerf15MinIntervalTable's OID is .1.3.6.1.4.1.3902.1012.3.31.4.

Index Specification

zxGponMgmtPonOltId , Type 1 PON composite index.

MIB Specification

Refer to zxGponService.mib.

zxGponOltPerf15MinIntervalTable OBJECT-TYPE

SYNTAX	SEQUENCE OF ZxGponOltPerf15MinIntervalEntry
MAX-ACCESS	not-accessible
STATUS	current
DESCRIPTION	"The 15 minutes interval performance data table of GPON OLT."
::= { zxAnGponOltPerfMgmt 4 }	

zxGponOltPerf15MinIntervalEntry OBJECT-TYPE

SYNTAX	ZxGponOltPerf15MinIntervalEntry
MAX-ACCESS	not-accessible
STATUS	current
DESCRIPTION	"An entry in the OLT 15 minutes interval performance data table."
INDEX	{ zxGponMgmtPonOltId, zxGponOltH15MIntervalNumber }
::= { zxGponOltPerf15MinIntervalTable 1 }	

ZxGponOltPerf15MinIntervalEntry ::=

SEQUENCE {	
zxGponOltH15MIntervalNumber	Integer32,

zxGponOltH15MDateAndTime	DateAndTime,
zxGponOltH15MCorrNonIdleGemFrmUp	Counter64,
zxGponOltH15MCorrIdleGemFrmUp	Counter64,
zxGponOltH15MErroredGemFrmUp	Counter64,
zxGponOltH15MGemPayloadBytesUp	Counter64,
zxGponOltH15MCorrEtherFrmUp	Counter64,
zxGponOltH15MErroredEtherFrmUp	Counter64,
zxGponOltH15MErr	Counter64,
zxGponOltH15MRei	Counter64,
zxGponOltH15MValidEtherPktDown	Counter64,
zxGponOltH15MPloamDown	Counter64,
zxGponOltH15MErroredPloamUp	Counter64,
zxGponOltH15MPloamUp	Counter64,
zxGponOltH15MFecCorrBytes	Counter64,
zxGponOltH15MFecCorrWords	Counter64,
zxGponOltH15MFecUnCorrWords	Counter64,
zxGponOltH15MFecTotalRxWords	Counter64,
zxGponOltH15MBipCorrBits	Counter64,
zxGponOltH15MCrcErrPkts	Counter64,
zxGponOltH15MValidData	TruthValue
}	

12.10.5 24-Hour Historical Performance

OID Specification

zxGponOltPerf1DayIntervalTable's OID is .1.3.6.1.4.1.3902.1012.3.31.5.

Index Specification

zxGponMgmtPonOltId , Type 1 PON composite index.

MIB Specification

Refer to zxGponService.mib.

zxGponOltPerf1DayIntervalTable OBJECT-TYPE
 SYNTAX SEQUENCE OF ZxGponOltPerf1DayIntervalEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "The 1 day interval performance data table of interfaces."
 ::= { zxAnGponOltPerfMgmt 5 }

zxGponOltPerf1DayIntervalEntry OBJECT-TYPE
 SYNTAX ZxGponOltPerf1DayIntervalEntry

MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
 "The 1 day interval performance data entry of interfaces."
INDEX { zxGponMgmtPonOltId, zxGponOltH1DIntervalNumber }
 ::= { zxGponOltPerf1DayIntervalTable 1 }

ZxGponOltPerf1DayIntervalEntry ::=
SEQUENCE {
 zxGponOltH1DIntervalNumber Integer32,
 zxGponOltH1DDateAndTime DateAndTime,
 zxGponOltH1DCorrNonIdleGemFrmUp Counter64,
 zxGponOltH1DCorrIdleGemFrmUp Counter64,
 zxGponOltH1DErroredGemFrmUp Counter64,
 zxGponOltH1DGemPayloadBytesUp Counter64,
 zxGponOltH1DCorrEtherFrmUp Counter64,
 zxGponOltH1DErroredEtherFrmUp Counter64,
 zxGponOltH1DErr Counter64,
 zxGponOltH1DRei Counter64,
 zxGponOltH1DValidEtherPktDown Counter64,
 zxGponOltH1DPloamDown Counter64,
 zxGponOltH1DErroredPloamUp Counter64,
 zxGponOltH1DPloamUp Counter64,
 zxGponOltH1DFecCorrBytes Counter64,
 zxGponOltH1DFecCorrWords Counter64,
 zxGponOltH1DFecUnCorrWords Counter64,
 zxGponOltH1DFecTotalRxWords Counter64,
 zxGponOltH1DBipCorrBits Counter64,
 zxGponOltH1DCrcErrPkts Counter64,
 zxGponOltH1DValidData TruthValue
}

12.11 GPON ONU PON-Layer Performance (V1.2.3)

12.11.1 Real-time Performance

OID Specification

zxGponOntCurrPerfTable's OID is .1.3.6.1.4.1.3902.1012.3.32.1.

Index Specification

{ zxGponMgmtPonOltId, zxGponMgmtPonOnuId }, of them, zxGponMgmtPonOltId is PON Type 1 composite index, while others are regular index.

MIB Specification

Refer to zxGponService.mib.

zxGponOntCurrPerfTable OBJECT-TYPE

SYNTAX SEQUENCE OF ZxGponOntCurrPerfEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
 "The GPON ONU current performance data table"
 ::= { zxAnGponOntPerfMgmt 1 }

zxGponOntCurrPerfEntry OBJECT-TYPE

SYNTAX ZxGponOntCurrPerfEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
 "The entry in the ONU current performance data table."
INDEX { zxGponMgmtPonOltId, zxGponMgmtPonOnuId }
 ::= { zxGponOntCurrPerfTable 1 }

ZxGponOntCurrPerfEntry ::=

SEQUENCE {
 zxGponOntCorrNonIdleGemFrmUp Counter64,
 zxGponOntGemPayloadBytesUp Counter64,
 zxGponOntCorrEtherFrmUp Counter64,
 zxGponOntErroredEtherFrmUp Counter64,
 zxGponOntTotlOmciFrmUp Counter64,
 zxGponOntErri Counter64,
 zxGponOntReii Counter64,
 zxGponOntUnrxBurstsUp Counter64,
 zxGponOntBipErrorUp Counter64,
 zxGponOntCorrBitsUp Counter64,
 zxGponOntNotCorrWordsUp Counter64,
 zxGponOntCorrNonIdleGemFrmDn Counter64,
 zxGponOntTxOmciFrames Counter64,
 zxGponOntTxPloamFrames Counter64,
 zxGponOntRxPloamFrames Counter64,
 zxGponOntLofiAlms Counter64,
 zxGponOntFecCorrBytes Counter64,
 zxGponOntFecCorrWords Counter64,
 zxGponOntFecUnCorrWords Counter64,
 zxGponOntFecTotalRxWords Counter64,
 zxGponOntCrcErrPkts Counter64,

zxGponOntCurrReset	INTEGER
}	

12.11.2 15-Minute Real-time Performance

OID Specification

zxGponOntCurrPerf15MinTable's OID is .1.3.6.1.4.1.3902.1012.3.32.1.

Index Specification

{ zxGponMgmtPonOltId, zxGponMgmtPonOnuId }, of them, zxGponMgmtPonOltId is PON Type 1 composite index, while others are regular index.

MIB Specification

Refer to zxGponService.mib.

zxGponOntCurrPerf15MinTable OBJECT-TYPE

SYNTAX	SEQUENCE OF ZxGponOntCurrPerf15MinEntry
MAX-ACCESS	not-accessible
STATUS	current
DESCRIPTION	"The current 15 minutes performance data table of GPON ONU." ::= { zxAnGponOntPerfMgmt 2 }

zxGponOntCurrPerf15MinEntry OBJECT-TYPE

SYNTAX	ZxGponOntCurrPerf15MinEntry
MAX-ACCESS	not-accessible
STATUS	current
DESCRIPTION	"An entry in the ONU current 15 minutes performance data table." INDEX { zxGponMgmtPonOltId, zxGponMgmtPonOnuId } ::= { zxGponOntCurrPerf15MinTable 1 }

ZxGponOntCurrPerf15MinEntry ::=

SEQUENCE {	
zxGponOntC15MTimeElapsed	Gauge32,
zxGponOntC15MCorrNonIdleGemFrmUp	Counter64,
zxGponOntC15MGemPayloadBytesUp	Counter64,
zxGponOntC15MCorrEtherFrmUp	Counter64,
zxGponOntC15MErroredEtherFrmUp	Counter64,
zxGponOntC15MTotlOmciFrmUp	Counter64,
zxGponOntC15MERri	Counter64,
zxGponOntC15MReii	Counter64,

zxGponOntC15MUnrxBurstsUp	Counter64,
zxGponOntC15MBipErrorUp	Counter64,
zxGponOntC15MCorrBitsUp	Counter64,
zxGponOntC15MNotCorrWordsUp	Counter64,
zxGponOntC15MCorrNonIdleGemFrmDn	Counter64,
zxGponOntC15MTxOmciFrms	Counter64,
zxGponOntC15MTxPloamFrms	Counter64,
zxGponOntC15MRxPloamFrms	Counter64,
zxGponOntC15MLofiAlarms	Counter64,
zxGponOntC15MFecCorrBytes	Counter64,
zxGponOntC15MFecCorrWords	Counter64,
zxGponOntC15MFecUnCorrWords	Counter64,
zxGponOntC15MFecTotalRxWords	Counter64,
zxGponOntC15MCrcErrPkts	Counter64,
zxGponOntC15MReset	INTEGER
}	

12.11.3 24-Hour Real-time Performance

OID Specification

zxGponOntCurrPerf1DayTable's OID is .1.3.6.1.4.1.3902.1012.3.32.3.

Index Specification

{ zxGponMgmtPonOltId, zxGponMgmtPonOnuId }, of them, zxGponMgmtPonOltId is PON Type 1 composite index, while others are regular index.

MIB Specification

Refer to zxGponService.mib.

zxGponOntCurrPerf1DayTable OBJECT-TYPE
 SYNTAX SEQUENCE OF ZxGponOntCurrPerf1DayEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "The current 1 day performance
 data table of GPON ONU."
 ::= { zxAnGponOntPerfMgmt 3 }

zxGponOntCurrPerf1DayEntry OBJECT-TYPE
 SYNTAX ZxGponOntCurrPerf1DayEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "An entry in the ONU current 1 day

performance data table."

```

INDEX { zxGponMgmtPonOltId, zxGponMgmtPonOnuId }
 ::= { zxGponOntCurrPerf1DayTable 1 }

ZxGponOntCurrPerf1DayEntry ::=

SEQUENCE {
    zxGponOntC1DTimeElapsed                                Gauge32,
    zxGponOntC1DCorrNonIdleGemFrmUp                      Counter64,
    zxGponOntC1DGemPayloadBytesUp                         Counter64,
    zxGponOntC1DCorrEtherFrmUp                           Counter64,
    zxGponOntC1DErroredEtherFrmUp                        Counter64,
    zxGponOntC1DTotlOmciFrmUp                           Counter64,
    zxGponOntC1DErri                                     Counter64,
    zxGponOntC1DReii                                    Counter64,
    zxGponOntC1DUnrxBurstsUp                            Counter64,
    zxGponOntC1DBipErrorUp                             Counter64,
    zxGponOntC1DCorrBitsUp                            Counter64,
    zxGponOntC1DNotCorrWordsUp                          Counter64,
    zxGponOntC1DCorrNonIdleGemFrmDn                     Counter64,
    zxGponOntC1DTxOmciFrms                            Counter64,
    zxGponOntC1DTxPloamFrms                           Counter64,
    zxGponOntC1DRxPloamFrms                           Counter64,
    zxGponOntC1DLofiAlarms                            Counter64,
    zxGponOntC1DFecCorrBytes                          Counter64,
    zxGponOntC1DFecCorrWords                          Counter64,
    zxGponOntC1DFecUnCorrWords                        Counter64,
    zxGponOntC1DFecTotalRxWords                       Counter64,
    zxGponOntC1DCrcErrPkts                           Counter64,
    zxGponOntC1DReset                                INTEGER
}

```

12.11.4 15-Minute Historical Performance

OID Specification

zxGponOntPerf15MinIntervalTable's OID is .1.3.6.1.4.1.3902.1012.3.32.4.

Index Specification

{ zxGponMgmtPonOltId, zxGponMgmtPonOnuId }, of them, zxGponMgmtPonOltId is PON Type 1 composite index, while others are regular index.

MIB Specification

Refer to zxGponService.mib.

zxGponOntPerf15MinIntervalTable OBJECT-TYPE

SYNTAX SEQUENCE OF ZxGponOntPerf15MinIntervalEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The 15 minutes interval performance data table of GPON ONT."

::= { zxAnGponOntPerfMgmt 4 }

zxGponOntPerf15MinIntervalEntry OBJECT-TYPE

SYNTAX ZxGponOntPerf15MinIntervalEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The entry in the ONU 15 minutes interval
performance data table."

INDEX { zxGponMgmtPonOltId, zxGponMgmtPonOnuId,

zxGponOntH15MIntervalNumber }

::= { zxGponOntPerf15MinIntervalTable 1 }

ZxGponOntPerf15MinIntervalEntry ::=

SEQUENCE {

zxGponOntH15MIntervalNumber	Integer32,
zxGponOntH15MDateAndTime	DateAndTime,
zxGponOntH15MCorrNonIdleGemFrmUp	Counter64,
zxGponOntH15MGemPayloadBytesUp	Counter64,
zxGponOntH15MCorrEtherFrmUp	Counter64,
zxGponOntH15MErroredEtherFrmUp	Counter64,
zxGponOntH15MTotlOmciFrmUp	Counter64,
zxGponOntH15MERri	Counter64,
zxGponOntH15MReii	Counter64,
zxGponOntH15MUnrxBurstsUp	Counter64,
zxGponOntH15MBipErrorUp	Counter64,
zxGponOntH15MCorrBitsUp	Counter64,
zxGponOntH15MNotCorrWordsUp	Counter64,
zxGponOntH15MCorrNonIdleGemFrmDn	Counter64,
zxGponOntH15MTxOmciFrms	Counter64,
zxGponOntH15MTxPloamFrms	Counter64,
zxGponOntH15MRxPloamFrms	Counter64,
zxGponOntH15MLofiAlarms	Counter64,
zxGponOntH15MFecCorrBytes	Counter64,
zxGponOntH15MFecCorrWords	Counter64,
zxGponOntH15MFecUnCorrWords	Counter64,
zxGponOntH15MFecTotalRxWords	Counter64,
zxGponOntH15MCrcErrPkts	Counter64,
zxGponOntH15MValidData	TruthValue

{}

12.11.5 24-Hour Historical Performance

OID Specification

zxGponOntPerf1DayIntervalTable's OID is .1.3.6.1.4.1.3902.1012.3.32.5.

Index Specification

{ zxGponMgmtPonOltId, zxGponMgmtPonOnuId }, of them, zxGponMgmtPonOltId is PON Type 1 composite index, while others are regular index.

MIB Specification

Refer to zxGponService.mib.

zxGponOntPerf1DayIntervalTable OBJECT-TYPE

SYNTAX SEQUENCE OF ZxGponOntPerf1DayIntervalEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The 1 day interval performance data table of GPON ONT."

::= { zxAnGponOntPerfMgmt 5 }

zxGponOntPerf1DayIntervalEntry OBJECT-TYPE

SYNTAX ZxGponOntPerf1DayIntervalEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The entry in the ONU 1 day interval
performance data table."

INDEX { zxGponMgmtPonOltId, zxGponMgmtPonOnuId,

zxGponOntH1DIntervalNumber }

::= { zxGponOntPerf1DayIntervalTable 1 }

ZxGponOntPerf1DayIntervalEntry ::=

SEQUENCE {

zxGponOntH1DIntervalNumber Integer32,

zxGponOntH1DDateAndTime DateAndTime,

zxGponOntH1DCorrNonIdleGemFrmUp Counter64,

zxGponOntH1DGemPayloadBytesUp Counter64,

zxGponOntH1DCorrEtherFrmUp Counter64,

zxGponOntH1DErroredEtherFrmUp Counter64,

zxGponOntH1DTotlOmciFrmUp Counter64,

zxGponOntH1DErri Counter64,

zxGponOntH1DReii Counter64,

zxGponOntH1DUnrxBurstsUp	Counter64,
zxGponOntH1DBipErrorUp	Counter64,
zxGponOntH1DCorrBitsUp	Counter64,
zxGponOntH1DNotCorrWordsUp	Counter64,
zxGponOntH1DCorrNonIdleGemFrmDn	Counter64,
zxGponOntH1DTxOmciFrms	Counter64,
zxGponOntH1DTxPloamFrms	Counter64,
zxGponOntH1DRxPloamFrms	Counter64,
zxGponOntH1DLofiAlarms	Counter64,
zxGponOntH1DFecCorrBytes	Counter64,
zxGponOntH1DFecCorrWords	Counter64,
zxGponOntH1DFecUnCorrWords	Counter64,
zxGponOntH1DFecTotalRxWords	Counter64,
zxGponOntH1DCrcErrPkts	Counter64,
zxGponOntH1DValidData	TruthValue
}	

12.12 GPON GEMPORT Real-time Statistics (V1.2.3)

12.12.1 Real-time Performance

OID Specification

zxAnGponGemportPerfMgmt's OID is .1.3.6.1.4.1.3902.1012.3.33.2.

Index Specification

{ zxGponMgmtPonOltId, zxGponMgmtPonOnuId, zxGponGemPortIdx }, of them, zxGponMgmtPonOltId is PON Type 1 composite index, while others are regular index.

MIB Specification

Refer to zxGponService.mib.

By default, the system won't perform Gemport performance statistics. If needed, you need to create the performance point first via operating zxGponGemPortCurrRowStatus.

zxGponGemPortCurrPerfTable OBJECT-TYPE

SYNTAX SEQUENCE OF ZxGponGemPortCurrPerfEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The GPON GEM port current performance data table"

::= { zxAnGponGemportPerfMgmt 2 }

zxGponGemPortCurrPerfEntry OBJECT-TYPE

SYNTAX ZxGponGemPortCurrPerfEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The entry in the GEM port current performance data table."

INDEX { zxGponMgmtPonOltId, zxGponMgmtPonOnuId, zxGponGemPortIdx }
 ::= { zxGponGemPortCurrPerfTable 1 }

ZxGponGemPortCurrPerfEntry ::=

SEQUENCE {

zxGponGemPortRxOctets	Counter64,
zxGponGemPortRxUcastPkts	Counter64,
zxGponGemPortRxBroadcastPkts	Counter64,
zxGponGemPortRxMulticastPkts	Counter64,
zxGponGemPortRxDiscards	Counter64,
zxGponGemPortTxOctets	Counter64,
zxGponGemPortTxUcastPkts	Counter64,
zxGponGemPortTxBroadcastPkts	Counter64,
zxGponGemPortTxMulticastPkts	Counter64,
zxGponGemPortTxDiscards	Counter64,
zxGponGemPortCurrReset	INTEGER,
zxGponGemPortCurrRowStatus	RowStatus

}

13 System Control Alarms & Notifications

ZTE-AN-EQUIP-MIB.mib

13.1 Notification of System Cold Starting

TripOID	.1.3.6.1.6.3.1.1.5.1	Notification
Variable Carried	Null	

13.2 Notification of Active / Standby Changeover

TripOID	.1.3.6.1.4.1.3902.1015.2.2.1.2	Notification
Variable Carried	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.5	zxAnCardOperStatus The card is in running status

13.3 Notification of Failing to Synchronize Active / Standby Data

TripOID	.1.3.6.1.4.1.3902.1015.2.2.1.3	Notification
Variable Carried	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.5	zxAnCardOperStatus The card is in running status

13.4 Alarms that the Card Works Abnormally

13.4.1 Alarms

TripOID	.1.3.6.1.4.1.3902.1015.2.2.2.2	Major Alarm
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex
	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.2	zxAnCardCfgMainType
	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.3	zxAnCardActMainType
	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.4	zxAnCardActType
		Card name

	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.6	zxAnCardAdminStatus	Administration status of the card
	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.5	zxAnCardOperStatus	Running status of the card

Note: Of them, for the structure coding rules inside ifIndex, refer to *ZTE EPON Equipment Composite Index Definitions*.

The running status values of the card (.1.3.6.1.4.1.3902.1015.2.1.1.3.1.5):

- 1: The card is working normally
- 2: The card can not be used
- 3: The card's software isn't running
- 4: The card is off-line
- 5: The card is being configured
- 6: Configuration of the card failed
- 7: Card types aren't matched
- 8: The card isn't activated
- 9: The card is working abnormally
- 10: The card can not be used

13.4.2 Alarm Recovery

TripOID	.1.3.6.1.4.1.3902.1015.2.2.2.1		Alarm Recovery
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	ifIndex
	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.2	zxAnCardCfgMainType	Configured card type
	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.3	zxAnCardActMainType	Actual card type
	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.4	zxAnCardActType	Card name
	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.6	zxAnCardAdminStatus	Administration status of the card
	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.5	zxAnCardOperStatus	Running status of the card

13.5 Alarm of Failing to Detect / Scan Cards

13.5.1 Alarm

TripOID	.1.3.6.1.4.1.3902.1015.2.2.2.3		Minor Alarm
Variable Carried	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.3	zxAnCardActMainType	Actual card type
	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.4	zxAnCardActType	Card name

	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.13	zxAnCardStandbyStatus	Active / standby status of the card
--	-------------------------------------	-----------------------	-------------------------------------

13.5.2 Alarm Recovery

TripOID	.1.3.6.1.4.1.3902.1015.2.2.2.4		Alarm Recovery
Variable Carried	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.3	zxAnCardActMainType	Actual card type
	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.4	zxAnCardActType	Card name
	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.13		Active / standby status of the card

13.6 Alarm of Wrong Communication of Card Services

13.6.1 Alarm

TripOID	.1.3.6.1.4.1.3902.1015.2.2.2.12		Minor Alarm
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	ifIndex
	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.2	zxAnCardCfgMainType	Configured card type
	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.3		Actual card type
	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.4		Card name
	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.6		Administration status of the card
	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.5		Running status of the card

13.6.2 Alarm Recovery

TripOID	.1.3.6.1.4.1.3902.1015.2.2.2.13		Alarm Recovery
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	ifIndex
	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.2	zxAnCardCfgMainType	Configured card type
	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.3		Actual card type

	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.4	zxAnCardActType	Card name
	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.6	zxAnCardAdminStatus	Administration status of the card
	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.5	zxAnCardOperStatus	Running status of the card

13.7 Alarm of Memory Overloading

13.7.1 Alarm

TripOID	.1.3.6.1.4.1.3902.1015.2.2.2.3		Minor Alarm
Variable Carried	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.11	zxAnCardMemUsage	Memory usage rate
	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.12	zxAnCardMemUsageThreshold	Memory usage threshold

13.7.2 Alarm Recovery

TripOID	.1.3.6.1.4.1.3902.1015.2.2.2.8		Alarm Recovery
Variable Carried	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.11	zxAnCardMemUsage	Memory usage rate
	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.12	zxAnCardMemUsageThreshold	Memory usage threshold

13.8 Alarm of CPU Overloading

13.8.1 Alarm

TripOID	.1.3.6.1.4.1.3902.1015.2.2.2.6		Minor Alarm
Variable Carried	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.9	zxAnCardCpuLoad	Current CPU utilization rate

	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.109	zxAnCardCpuLoadThreshold	CPU utilization rate threshold
--	--------------------------------------	--------------------------	--------------------------------

13.8.2 Alarm Recovery

TripOID	.1.3.6.1.4.1.3902.1015.2.2.2.7		Alarm Recovery
Variable Carried	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.9	zxAnCardCpuLoad	Current CPU utilization rate
	.1.3.6.1.4.1.3902.1015.2.1.1.3.1.109	zxAnCardCpuLoadThreshold	CPU utilization rate threshold

13.9 Alarm that the Card Fails to Update Version

13.9.1 Alarm

TripOID	.1.3.6.1.4.1.3902.1015.2.2.2.10		Common Alarm
Variable Carried	.1.3.6.1.4.1.3902.1015.2.1.2.5.1.2	zxAnVerUpdateStatus	Version update status
	.1.3.6.1.4.1.3902.1015.2.1.2.5.1.3	zxAnVerUpdateReason	Version update reason

13.9.2 Alarm Recovery

TripOID	.1.3.6.1.4.1.3902.1015.2.2.2.11		Alarm Recovery
Variable Carried	.1.3.6.1.4.1.3902.1015.2.1.2.5.1.2	zxAnVerUpdateStatus	Version update status
	.1.3.6.1.4.1.3902.1015.2.1.2.5.1.3	zxAnVerUpdateReason	Version update reason

13.10 Alarm of Abnormal Power Supply

13.10.1 Alarm

TripOID	.1.3.6.1.4.1.3902.1015.2.2.3.12		Common Alarm
Variable Carried	.1.3.6.1.4.1.3902.1015.2.1.3.9.2.1.2	zxAnPowerSupplyOperState	Operation state

13.10.2 Alarm Recovery

TripOID	.1.3.6.1.4.1.3902.1015.2.2.3.13		Alarm Recovery
Variable Carried	.1.3.6.1.4.1.3902.1015.2.1.3.9.2.1.2	zxAnPowerSupplyOperState	Operation state

13.11 High Temperature Alarm

13.11.1 Alarm

TripOID	.1.3.6.1.4.1.3902.1015.2.2.3.1		Common Alarm
Variable Carried	.1.3.6.1.4.1.3902.1015.2.1.3.2	zxAnEnvTemperature	Actual Temperature
	.1.3.6.1.4.1.3902.1015.2.1.3.3	zxAnEnvTemperatureAlarmThreshold	Threshold Temperature

13.11.2 Alarm Recovery

TripOID	.1.3.6.1.4.1.3902.1015.2.2.3.2		Alarm Recovery
Variable Carried	.1.3.6.1.4.1.3902.1015.2.1.3.2	zxAnEnvTemperature	Actual Temperature
	.1.3.6.1.4.1.3902.1015.2.1.3.3	zxAnEnvTemperatureAlarmThreshold	Threshold Temperature

13.12 Alarm that the Fan is Off-line

13.12.1 Alarm

TripOID	.1.3.6.1.4.1.3902.1015.2.2.3.5		Common Alarm
Variable Carried	.1.3.6.1.4.1.3902.1015.2.1.3.10.10.10.1.6	zxAnEnvFanOnlineStatus	Fan status

13.12.2 Alarm Recovery

TripOID	.1.3.6.1.4.1.3902.1015.2.2.3.6		Alarm Recovery
Variable Carried	.1.3.6.1.4.1.3902.1015.2.1.3.10.10.10.1.6	zxAnEnvFanOnlineStatus	Fan status

13.13 Alarm that the Fan Operates Abnormally

13.13.1 Alarm

TripOID	.1.3.6.1.4.1.3902.1015.2.2.2.8		Common Alarm
Variable Carried	.1.3.6.1.4.1.3902.1015.2.1.3.10.10.10.1.5	zxAnEnvFanOperStatus	Fan operation status up(1), down(2), unknown(3)

13.13.2 Alarm Recovery

TripOID	.1.3.6.1.4.1.3902.1015.2.2.2.9		Alarm Recovery
Variable Carried	.1.3.6.1.4.1.3902.1015.2.1.3.10.10.10.1.5	zxAnEnvFanOperStatus	Fan operation status up(1), down(2), unknown(3)

13.14 Alarm of Abnormal Dust Cover

13.14.1 Alarm

TripOID	.1.3.6.1.4.1.3902.1015.2.2.3.10		Common Alarm
Variable Carried	Null		

13.14.2 Alarm Recovery

TripOID	.1.3.6.1.4.1.3902.1015.2.2.3.11		Alarm Recovery
Variable Carried	Null		

13.15 Notification of Damaged Sensor

TripOID	.1.3.6.1.4.1.3902.1015.2.2.3.7		Notification
Variable Carried	Null		

13.16 Alarm of Link Down of Environment Monitoring

Interface

13.16.1 Alarm

TripOID	.1.3.6.1.4.1.3902.1015.2.2.3.3		Common Alarm
Variable Carried	Null		

13.16.2 Alarm Recovery

TripOID	.1.3.6.1.4.1.3902.1015.2.2.3.4	Alarm
---------	--------------------------------	-------

		Recovery
Variable Carried	Null	

14 Platform Alarms & Notifications

14.1 LinkDown Alarm of Uplink Port

14.1.1 Alarm

TripOID	.1.3.6.1.4.1.3902.1015.3.2.2		Major Alarm
Variable Carried	.1.3.6.1.2.1.2.2.1.7	ifAdminStatus	Administration status
	.1.3.6.1.2.1.2.2.1.8	ifOperStatus	Operation status
	.1.3.6.1.2.1.2.2.1.3	ifType	Interface type

14.1.2 Alarm Recovery

TripOID	.1.3.6.1.4.1.3902.1015.3.2.1		Alarm Recovery
Variable Carried	.1.3.6.1.2.1.2.2.1.7	ifAdminStatus	Administration status
	.1.3.6.1.2.1.2.2.1.8	ifOperStatus	Operation status
	.1.3.6.1.2.1.2.2.1.3	ifType	Interface type

14.2 Dos Attack Alarm

14.2.1 Alarm

TripOID	.1.3.6.1.4.1.3902.1015.11.2.1		Common Alarm
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	IfIndex
	.1.3.6.1.4.1.3902.1015.11.1.1.6	zxAnServiceAntiDosSourceMac	Source MAC address
	.1.3.6.1.4.1.3902.1015.11.1.1.7	zxAnServiceAntiDosPortVlan	Port VLAN

14.2.2 Alarm Recovery

TripOID	.1.3.6.1.4.1.3902.1015.2.2.2.4		Alarm Recovery
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	IfIndex
	.1.3.6.1.4.1.3902.1015.11.1.1.6	zxAnServiceAntiDosSourceMac	Source MAC address
	.1.3.6.1.4.1.3902.1015.11.1.1.7	zxAnServiceAntiDosPortVlan	Port VLAN

14.3 LinkUp Notification of User Port

TripOID	.1.3.6.1.4.1.3902.1015.2.2.2.9		Notification
Variable Carried	.1.3.6.1.2.1.2.2.1.7	ifAdminStatus	Administration status
	.1.3.6.1.2.1.2.2.1.8	ifOperStatus	Operation state
	.1.3.6.1.2.1.2.2.1.3	ifType	Interface type

14.4 LinkDown Notification of User Port

TripOID	.1.3.6.1.4.1.3902.1015.2.2.2.4		Notification
Variable Carried	.1.3.6.1.2.1.2.2.1.7	ifAdminStatus	Administration status
	.1.3.6.1.2.1.2.2.1.8	ifOperStatus	Operation state
	.1.3.6.1.2.1.2.2.1.3	ifType	Interface type

14.5 Notification of Logging on Serial Port or Administration

Port

TripOID	.1.3.6.1.4.1.3902.1015.1.2.6.1		Notification
Variable Carried	.1.3.6.1.4.1.3902.1015.1.1.3.4	zxAnSysLatestLogonCrftTerminalType	Logon type

14.6 Notification of Logging out Serial Port or Administration Port

TripOID	.1.3.6.1.4.1.3902.1015.1.2.6.2		Notification
Variable Carried	.1.3.6.1.4.1.3902.1015.1.1.3.4	zxAnSysLatestLogonCrftTerminalType	Logon type

15 EPON Alarms & Notifications

ZXEAPON-TRAP-MIB.mib

15.1 Notification of PON Port Resetting

TripOID	.1.3.6.1.4.1.3902.1015.1010.1.10.3.2		Notification
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	ifIndex

15.2 Notification that Unknown ONUs are Online

TripOID	.1.3.6.1.4.1.3902.1015.1010.1.10.3.9		Notification
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	ifIndex
	.1.3.6.1.4.1.3902.1015.1010.1.10.3.1	zxAnEponTrapEventString	Additional information

15.3 Notification of Refusing Registration of Unknown ONUs

TripOID	.1.3.6.1.4.1.3902.1015.1010.1.10.3.8		Notification
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	ifIndex

15.4 Notification of Failing to Find Extended OAM

TripOID	.1.3.6.1.4.1.3902.1015.1010.1.10.3.5		Notification
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	ifIndex
	.1.3.6.1.4.1.3902.1015.1010.1.10.3.1	zxAnEponTrapEventString	Additional information

15.5Notification that Unknown ONUs are Offline

TripOID	.1.3.6.1.4.1.3902.1015.1010.1.10.3.7		Notification
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	ifIndex
	.1.3.6.1.4.1.3902.1015.1010.1.10.3.1	zxAnEponTrapEventString	Additional information

15.6Notification of Power-down of ONUs

TripOID	.1.3.6.1.4.1.3902.1015.1010.1.10.3.12		Notification
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	ifIndex

15.7ONU Offline Alarm

15.7.1 Alarm

TripOID	.1.3.6.1.4.1.3902.1015.1010.1.10.1.15		Major Alarm
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	ifIndex
	.1.3.6.1.4.1.3902.1015.1010.1.10.2.8	zxAnEponTrapOnuOffLineReason	Offline reason

15.7.2 Alarm Recovery

TripOID	.1.3.6.1.4.1.3902.1015.1010.1.10.1.16		Alarm Recovery
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	ifIndex
	.1.3.6.1.4.1.3902.1015.1010.1.10.2.8	zxAnEponTrapOnuOffLineReason	Offline reason

15.8 Alarm of Losing PON Port Signals

15.8.1 Alarm

TripOID	.1.3.6.1.4.1.3902.1015.1010.1.10.1.13		Major Alarm
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	ifIndex
	.1.3.6.1.4.1.3902.1015.1010.1.10.2.7	zxAnEponTrapPonLosReason	Alarm reason

Values of LOS reasons (.1.3.6.1.4.1.3902.1015.1010.1.10.2.7):

- 1- The fiber is disconnected.
- 2 - Unknown reasons.
- 3 - The ONU is powered down.
- 4 - The ONU has never been online.

15.8.2 Alarm Recovery

TripOID	.1.3.6.1.4.1.3902.1015.1010.1.10.1.14		Alarm Recovery
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	ifIndex
	.1.3.6.1.4.1.3902.1015.1010.1.10.2.7	zxAnEponTrapPonLosReason	Alarm reason

15.9 Alarm of PON Port Bit Error Rate

15.9.1 Alarm

TripOID	.1.3.6.1.4.1.3902.1015.1010.1.10.1.11		Major Alarm
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	ifIndex

15.9.2 Alarm Recovery

TripOID	.1.3.6.1.4.1.3902.1015.1010.1.10.1.12		Alarm Recovery
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	ifIndex

15.10 Alarm of Exceeding Threshold of ONU Optical Power

15.10.1 Alarm

TripOID	.1.3.6.1.4.1.3902.1015.1010.1.10.1.1		Major Alarm
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	ifIndex
	.1.3.6.1.4.1.3902.1015.1010.1.10.3.1	zxAnEponTrapEventString	Threshold information

15.10.2 Alarm Recovery

TripOID	.1.3.6.1.4.1.3902.1015.1010.1.10.1.2		Alarm Recovery
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	ifIndex
	.1.3.6.1.4.1.3902.1015.1010.1.10.3.1	zxAnEponTrapEventString	Threshold information

15.11 Alarm of Interval Event of ONU's Error Symbols

15.11.1 Alarm

TripOID	.1.3.6.1.4.1.3902.1015.1010.1.10.1.17		Major Alarm
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	ifIndex

15.11.2 Alarm Recovery

TripOID	.1.3.6.1.4.1.3902.1015.1010.1.10.1.18		Alarm Recovery
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	ifIndex

15.11.3 ONU Error Frame Event

15.11.4 Alarm

TripOID	.1.3.6.1.4.1.3902.1015.1010.1.10.1.19		Major Alarm
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	ifIndex

15.11.5 Alarm Recovery

TripOID	.1.3.6.1.4.1.3902.1015.1010.1.10.1.20		Alarm Recovery
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	ifIndex

15.12 Alarm of Interval Event of ONU's Error Frames

15.12.1 Alarm

TripOID	.1.3.6.1.4.1.3902.1015.1010.1.10.1.21		Major Alarm
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	ifIndex

15.12.2 Alarm Recovery

TripOID	.1.3.6.1.4.1.3902.1015.1010.1.10.1.22		Alarm Recovery
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	ifIndex

15.13 Alarm of Total Number of Seconds Event of ONU's Error Frames

15.13.1 Alarm

TripOID	.1.3.6.1.4.1.3902.1015.1010.1.10.1.23		Major Alarm
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Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	ifIndex
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15.13.2 Alarm Recovery

TripOID	.1.3.6.1.4.1.3902.1015.1010.1.10.1.24		Alarm Recovery
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	ifIndex

15.14 Alarm of ONU Uplink's Link Bit Error

15.14.1 Alarm

TripOID	.1.3.6.1.4.1.3902.1015.1010.1.10.1.25		Major Alarm
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	ifIndex

15.14.2 Alarm Recovery

TripOID	.1.3.6.1.4.1.3902.1015.1010.1.10.1.26		Alarm Recovery
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	ifIndex

15.15 Alarm of ONU Uplink's Link Frame Error

15.15.1 Alarm

TripOID	.1.3.6.1.4.1.3902.1015.1010.1.10.1.27		Major Alarm
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	ifIndex

15.15.2 Alarm Recovery

TripOID	.1.3.6.1.4.1.3902.1015.1010.1.10.1.28		Alarm Recovery
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	ifIndex

15.16 Notification of Failing to Configure Local ONUs

TripOID	.1.3.6.1.4.1.3902.1015.1010.1.10.3.6		Notification
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	ifIndex

15.17 Notification of Extended OAM Event

TripOID	.1.3.6.1.4.1.3902.1015.1010.1.10.3.11		Notification
Variable Carried	.1.3.6.1.2.1.2.2.1.1	ifIndex	ifIndex
	.1.3.6.1.4.1.3902.1015.1010.1.10.3.1	zxAnEponTrapEventString	OAM information

16 GPON Alarms & Notifications

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{ "zxGponOltSDi" , "1.3.6.1.4.1.3902.1012.3.45.109" } ,  
{ "zxGponOltSDiRestore" , "1.3.6.1.4.1.3902.1012.3.45.110" } ,  
{ "zxGponOltTxPowerAbnormalInform" , "1.3.6.1.4.1.3902.1012.3.45.181" } ,  
  
{ "zxGponOnuOMCITrap" , "1.3.6.1.4.1.3902.1012.3.50.7.1" } ,
```