

70- Epon Profile Configuration Commands

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70.1 Epon Profile Configuration Command Tree

Description

This chapter gives an overview of nodes that are handled by "Epon Profile Configuration Commands".

Command Tree

```
----configure
  ----epon
    ----profiles
      ----[no] filter
        - (profile-idx)
        - profile-name
        - [no] classfandv1
        - [no] classac1
        - [no] classfandv2
        - [no] classac2
        - [no] classfandv3
        - [no] classac3
        - [no] classfandv4
        - [no] classac4
      ----[no] digitmap
        - (profile-idx)
        - substr-idx
        - profile-name
        - substring
      ----[no] ontalarm
        - (name)
        - [no] equip-almr
        - [no] power-almr
        - [no] batt-miss
        - [no] batt-fail
        - [no] batt-volt-low
        - [no] phy-intr-almr
        - [no] selftest-fail
        - [no] otemp-hi-almr
        - [no] otemp-lo-almr
        - [no] iad-conn-fail
        - [no] pon-ifswitch
        - [no] rxpow-hi-almr
        - [no] rxpow-lo-almr
        - [no] txpow-hi-almr
        - [no] txpow-lo-almr
        - [no] txbi-hi-almr
        - [no] txbi-lo-almr
        - [no] vcc-hi-almr
        - [no] vcc-lo-almr
        - [no] temp-hi-almr
        - [no] temp-lo-almr
        - [no] rxpow-hi-warn
        - [no] rxpow-lo-warn
        - [no] txpow-hi-warn
```

- [no] txpow-lo-warn
- [no] txbi-hi-warn
- [no] txbi-lo-warn
- [no] vcc-hi-warn
- [no] vcc-lo-warn
- [no] temp-hi-warn
- [no] temp-lo-warn
- [no] ethp-aneg-fl
- [no] ethp-los
- [no] ethp-fail
- [no] ethp-loopback
- [no] ethp-conges
- [no] potsp-fail
- [no] elport-fail
- [no] el-tim-unlock
- [no] el-los

70.2 Epon Filter Profile Configuration Command

Command Description

This command allows the operator to configure an on filter profile.

Note: The profile could not be modified.

This object contains a table for defining classification and filter rules by operator. The max field for one rule could be specified is 4.

User Level

The command can be accessed by operators with equipment privileges, and executed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

```
> configure epon profiles ( no filter (profile-idx) ) | ( filter (profile-idx) profile-name <AsamProfileName> [ no
classfandv1 | classfandv1 <Epon::ClassVal> ] [ no classac1 | classac1 <Epon::ClassAc> ] [ no classfandv2 |
classfandv2 <Epon::ClassVal> ] [ no classac2 | classac2 <Epon::ClassAc> ] [ no classfandv3 | classfandv3
<Epon::ClassVal> ] [ no classac3 | classac3 <Epon::ClassAc> ] [ no classfandv4 | classfandv4 <Epon::ClassVal> ]
[ no classac4 | classac4 <Epon::ClassAc> ] )
```

Command Parameters

Table 70.2-1 "Epon Filter Profile Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(profile-idx)	Format: - filter profile id - range: [1...8192]	index to the Profile

Table 70.2-2 "Epon Filter Profile Configuration Command" Command Parameters

Parameter	Type	Description
profile-name	Parameter type: <AsamProfileName> Format: - a profile name - range: [a-zA-Z0-9-_.] - length: 1<=x<=32	<i>mandatory parameter</i> A string 1..32 characters long which uniquely identifies this Profile
[no] classfandv1	Parameter type: <Epon::ClassVal> Format: (dmac : <Epon::Mac16Addr> smac : <Epon::Mac16Addr> vlanpriority : <Epon::ClassVal> vlanid : <Epon::ClassVal> ethtype : <Epon::EthHexType> dip : <Epon::IpAddr> sip : <Epon::IpAddr>	<i>optional parameter with default value: "noconfig : 65535"</i> field and value for classification

Parameter	Type	Description
	ipversion : <Epon::ClassVal> ipdscp : <Epon::ClassVal> ipprecedence : <Epon::ClassVal> sport : <Epon::ClassVal> dport : <Epon::ClassVal> ipprotocol : <Epon::ClassVal> noconfig : <Epon::ClassVal>) Possible values: - dmac : - smac : - vlanpriority : - vlanid : - ethtype : - dip : - sip : - ipversion : - ipdscp : - ipprecedence : - sport : - dport : - ipprotocol : - noconfig : fv not set value Field type <Epon::Mac16Addr> - mac-address (example : 01:02:03:04:05:06) - length: 6 Field type <Epon::IpAddr> - Source/Destination IP Address Field type <Epon::ClassVal> - EponTcClassifierFieldsType Field type <Epon::ClassVal> - EponTcClassifierFieldsType Field type <Epon::ClassVal> - EponTcClassifierFieldsType Field type <Epon::EthHexType> - eth type(example : 8860) - range: [a-fA-F0-9] - length: 1<=x<=4 Field type <Epon::ClassVal> - EponTcClassifierFieldsType Field type <Epon::ClassVal> - EponTcClassifierFieldsType Field type <Epon::ClassVal> - EponTcClassifierFieldsType Field type <Epon::ClassVal> - EponTcClassifierFieldsType Field type <Epon::ClassVal> - EponTcClassifierFieldsType	
[no] classacl	Parameter type: <Epon::ClassAc> Format: (match nomatch equal nonequal nogreater noless fieldexist fieldnoexist	<i>optional parameter with default value: "acnoconfig"</i> action for classification

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Parameter	Type	Description
	acnoconfig) Possible values: - match : always match - nomatch : nevermatch - equal : equal - nonequal : not equal - nogreater : less than or equal - noless : greater than or equal - fieldexist : field exist - fieldnoexist : field not exist - acnoconfig : ac not set value	
[no] classfandv2	Parameter type: <Epon::ClassVal> Format: (dmac : <Epon::Mac16Addr> smac : <Epon::Mac16Addr> vlanpriority : <Epon::ClassVal> vlanid : <Epon::ClassVal> ethtype : <Epon::EthHexType> dip : <Epon::IpAdd> sip : <Epon::IpAdd> ipversion : <Epon::ClassVal> ipdscp : <Epon::ClassVal> ipprecedence : <Epon::ClassVal> sport : <Epon::ClassVal> dport : <Epon::ClassVal> ipprotocol : <Epon::ClassVal> noconfig : <Epon::ClassVal>) Possible values: - dmac : - smac : - vlanpriority : - vlanid : - ethtype : - dip : - sip : - ipversion : - ipdscp : - ipprecedence : - sport : - dport : - ipprotocol : - noconfig : fv not set value Field type <Epon::Mac16Addr> - mac-address (example : 01:02:03:04:05:06) - length: 6 Field type <Epon::IpAdd> - Source/Destination IP Address Field type <Epon::ClassVal> - EponTcClassifierFieldsType Field type <Epon::ClassVal> - EponTcClassifierFieldsType Field type <Epon::ClassVal> - EponTcClassifierFieldsType Field type <Epon::EthHexType> - eth type(example : 8860) - range: [a-fA-F0-9] - length: 1<=x<=4	<i>optional parameter with default value: "noconfig : 65535"</i> field and value for classification

Parameter	Type	Description
	Field type <Epon::ClassVal> - EponTcClassifierFieldsType Field type <Epon::ClassVal> - EponTcClassifierFieldsType Field type <Epon::ClassVal> - EponTcClassifierFieldsType Field type <Epon::ClassVal> - EponTcClassifierFieldsType Field type <Epon::ClassVal> - EponTcClassifierFieldsType	
[no] classac2	Parameter type: <Epon::ClassAc> Format: (match nomatch equal nonequal nogreater noless fieldexist fieldnoexist acnoconfig) Possible values: - match : always match - nomatch : nevermatch - equal : equal - nonequal : not equal - nogreater : less than or equal - noless : greater than or equal - fieldexist : field exist - fieldnoexist : field not exist - acnoconfig : ac not set value	<i>optional parameter with default value: "acnoconfig"</i> action for classification
[no] classfandv3	Parameter type: <Epon::ClassVal> Format: (dmac : <Epon::Mac16Addr> smac : <Epon::Mac16Addr> vlanpriority : <Epon::ClassVal> vlanid : <Epon::ClassVal> ethtype : <Epon::EthHexType> dip : <Epon::IpAddr> sip : <Epon::IpAddr> ipversion : <Epon::ClassVal> ipdscp : <Epon::ClassVal> ipprecedence : <Epon::ClassVal> sport : <Epon::ClassVal> dport : <Epon::ClassVal> ipprotocol : <Epon::ClassVal> noconfig : <Epon::ClassVal>) Possible values: - dmac : - smac : - vlanpriority : - vlanid : - ethtype : - dip : - sip : - ipversion : - ipdscp :	<i>optional parameter with default value: "noconfig : 65535"</i> field and value for classification

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Parameter	Type	Description
	<ul style="list-style-type: none"> - ipprecedence : - sport : - dport : - ipprotocol : - noconfig : fv not set value Field type <Epon::Mac16Addr> - mac-address (example : 01:02:03:04:05:06) - length: 6 Field type <Epon::IpAdd> - Source/Destination IP Address Field type <Epon::ClassVal> - EponTcClassifierFieldsType Field type <Epon::ClassVal> - EponTcClassifierFieldsType Field type <Epon::ClassVal> - EponTcClassifierFieldsType Field type <Epon::EthHexType> - eth type(example : 8860) - range: [a-fA-F0-9] - length: 1<=x<=4 Field type <Epon::ClassVal> - EponTcClassifierFieldsType Field type <Epon::ClassVal> - EponTcClassifierFieldsType Field type <Epon::ClassVal> - EponTcClassifierFieldsType Field type <Epon::ClassVal> - EponTcClassifierFieldsType Field type <Epon::ClassVal> - EponTcClassifierFieldsType 	
[no] classac3	Parameter type: <Epon::ClassAc> Format: (match nomatch equal nonequal nogreater noless fieldexist fieldnoexist acnoconfig) Possible values: <ul style="list-style-type: none"> - match : always match - nomatch : nevermatch - equal : equal - nonequal : not equal - nogreater : less than or equal - noless : greater than or equal - fieldexist : field exist - fieldnoexist : field not exist - acnoconfig : ac not set value 	<i>optional parameter with default value: "acnoconfig"</i> action for classification
[no] classfandv4	Parameter type: <Epon::ClassVal> Format: (dmac : <Epon::Mac16Addr> smac : <Epon::Mac16Addr> vlanpriority : <Epon::ClassVal> vlanid : <Epon::ClassVal>	<i>optional parameter with default value: "noconfig : 65535"</i> field and value for classification

Parameter	Type	Description
	ethtype : <Epon::EthHexType> dip : <Epon::IpAddr> sip : <Epon::IpAddr> ipversion : <Epon::ClassVal> ipdscp : <Epon::ClassVal> ipprecedence : <Epon::ClassVal> sport : <Epon::ClassVal> dport : <Epon::ClassVal> ipprotocol : <Epon::ClassVal> noconfig : <Epon::ClassVal>) Possible values: - dmac : - smac : - vlanpriority : - vlanid : - ethtype : - dip : - sip : - ipversion : - ipdscp : - ipprecedence : - sport : - dport : - ipprotocol : - noconfig : fv not set value Field type <Epon::Mac16Addr> - mac-address (example : 01:02:03:04:05:06) - length: 6 Field type <Epon::IpAddr> - Source/Destination IP Address Field type <Epon::ClassVal> - EponTcClassifierFieldsType Field type <Epon::ClassVal> - EponTcClassifierFieldsType Field type <Epon::ClassVal> - EponTcClassifierFieldsType Field type <Epon::EthHexType> - eth type(example : 8860) - range: [a-fA-F0-9] - length: 1<=x<=4 Field type <Epon::ClassVal> - EponTcClassifierFieldsType Field type <Epon::ClassVal> - EponTcClassifierFieldsType Field type <Epon::ClassVal> - EponTcClassifierFieldsType Field type <Epon::ClassVal> - EponTcClassifierFieldsType Field type <Epon::ClassVal> - EponTcClassifierFieldsType	
[no] classac4	Parameter type: <Epon::ClassAc> Format: (match nomatch equal nonequal nogreater	<i>optional parameter with default value: "acnoconfig"</i> action for classification

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Parameter	Type	Description
	<div>noless fieldexist fieldnoexist acnoconfig)</div> <div>Possible values:</div> <div><ul style="list-style-type: none">- match : always match- nomatch : nevermatch- equal : equal- nonequal : not equal- nogreater : less than or equal- noless : greater than or equal- fieldexist : field exist- fieldnoexist : field not exist- acnoconfig : ac not set value</div>	

70.3 Epon Digit Map Profile Configuration Command

Command Description

This command allows the operator to configure a sip digit map profile.

profile-name - A string 1..32 characters long which uniquely identifies this Profile.

substring - SIP Digit Map string.

User Level

The command can be accessed by operators with equipment privileges, and executed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

```
> configure epon profiles ( no digitmap (profile-idx) substr-idx <AsamProfileIndex> ) | ( digitmap (profile-idx)
  substr-idx <AsamProfileIndex> profile-name <AsamProfileName> substring <Epon::substring> )
```

Command Parameters

Table 70.3-1 "Epon Digit Map Profile Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(profile-idx)	Format: - a profile index - range: [1...250]	index to the eponSIPDigitMapProfileTable
substr-idx	Parameter type: <AsamProfileIndex> Format: - a profile index - range: [1...250]	sub-string index to the eponSIPDigitMapProfileTable

Table 70.3-2 "Epon Digit Map Profile Configuration Command" Command Parameters

Parameter	Type	Description
profile-name	Parameter type: <AsamProfileName> Format: - a profile name - range: [a-zA-Z0-9-_.] - length: 1<=x<=32	<i>mandatory parameter</i> A string 1 to 32 characters long which uniquely identifies this Profile
substring	Parameter type: <Epon::substring> Format: - sub string index to the SIP Digit Map Profile - length: x<=256	<i>mandatory parameter</i> SIP Digit Map string

70.4 Epon Alarm Control Profile Configuration Command

Command Description

This command allows the operator to configures an ont alarm control profile.

Note: The profile can be modified.

This object contains a table for defining alarm control bitmap by operator. Each bit indicates a sort of ONU alarm is enable or disable

User Level

The command can be accessed by operators with equipment privileges, and executed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

```
> configure epon profiles ( no ontalarm (name) ) | ( ontalarm (name) [ [ no ] equip-alm ] [ [ no ] power-alm ] [ [ no ] batt-miss ] [ [ no ] batt-fail ] [ [ no ] batt-volt-low ] [ [ no ] phy-intr-alm ] [ [ no ] selftest-fail ] [ [ no ] otemp-hi-alm ] [ [ no ] otemp-lo-alm ] [ [ no ] iad-conn-fail ] [ [ no ] pon-ifswitch ] [ [ no ] rxpow-hi-alm ] [ [ no ] rxpow-lo-alm ] [ [ no ] txpow-hi-alm ] [ [ no ] txpow-lo-alm ] [ [ no ] txbi-hi-alm ] [ [ no ] txbi-lo-alm ] [ [ no ] vcc-hi-alm ] [ [ no ] vcc-lo-alm ] [ [ no ] temp-hi-alm ] [ [ no ] temp-lo-alm ] [ [ no ] rxpow-hi-warn ] [ [ no ] rxpow-lo-warn ] [ [ no ] txpow-hi-warn ] [ [ no ] txpow-lo-warn ] [ [ no ] txbi-hi-warn ] [ [ no ] txbi-lo-warn ] [ [ no ] vcc-hi-warn ] [ [ no ] vcc-lo-warn ] [ [ no ] temp-hi-warn ] [ [ no ] temp-lo-warn ] [ [ no ] ethp-aneg-fl ] [ [ no ] ethp-los ] [ [ no ] ethp-fail ] [ [ no ] ethp-loopback ] [ [ no ] ethp-conges ] [ [ no ] potsp-fail ] [ [ no ] e1port-fail ] [ [ no ] e1-tim-unlock ] [ [ no ] e1-los ] )
```

Command Parameters

Table 70.4-1 "Epon Alarm Control Profile Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(name)	Format: - name of the Alarm Control profile - length: 1<=x<=32	A unique profile name

Table 70.4-2 "Epon Alarm Control Profile Configuration Command" Command Parameters

Parameter	Type	Description
[no] equip-alm	Parameter type: boolean	<i>optional parameter</i> enable EquipmentAlarm
[no] power-alm	Parameter type: boolean	<i>optional parameter</i> enable PowerAlarm
[no] batt-miss	Parameter type: boolean	<i>optional parameter</i> enable BatteryMissing
[no] batt-fail	Parameter type: boolean	<i>optional parameter</i>

Parameter	Type	Description
		enable BatteryFailure
[no] batt-volt-low	Parameter type: boolean	<i>optional parameter</i> enable BatteryVoltLow
[no] phy-intr-alm	Parameter type: boolean	<i>optional parameter</i> enable PhysicalIntrusionAlarm
[no] selftest-fail	Parameter type: boolean	<i>optional parameter</i> enable ONUSelfTestFailure
[no] otemp-hi-alm	Parameter type: boolean	<i>optional parameter</i> enable ONUTempHighAlarm
[no] otemp-lo-alm	Parameter type: boolean	<i>optional parameter</i> enable ONUTempLowAlarm
[no] iad-conn-fail	Parameter type: boolean	<i>optional parameter</i> enable IADConnectionFailure
[no] pon-ifswitch	Parameter type: boolean	<i>optional parameter</i> enable PON_IFSwitch
[no] rxpow-hi-alm	Parameter type: boolean	<i>optional parameter</i> enable RXPowerHighAlarm
[no] rxpow-lo-alm	Parameter type: boolean	<i>optional parameter</i> enable RXPowerLowAlarm
[no] txpow-hi-alm	Parameter type: boolean	<i>optional parameter</i> enable TXPowerHighAlarm
[no] txpow-lo-alm	Parameter type: boolean	<i>optional parameter</i> enable TXPowerLowAlarm
[no] txbi-hi-alm	Parameter type: boolean	<i>optional parameter</i> enable TXBiasHighAlarm
[no] txbi-lo-alm	Parameter type: boolean	<i>optional parameter</i> enable TXBiasLowAlarm
[no] vcc-hi-alm	Parameter type: boolean	<i>optional parameter</i> enable VccHighAlarm
[no] vcc-lo-alm	Parameter type: boolean	<i>optional parameter</i> enable VccLowAlarm
[no] temp-hi-alm	Parameter type: boolean	<i>optional parameter</i> enable TempHighAlarm
[no] temp-lo-alm	Parameter type: boolean	<i>optional parameter</i> enable TempLowAlarm
[no] rxpow-hi-warn	Parameter type: boolean	<i>optional parameter</i> enable RXPowerHighWarning
[no] rxpow-lo-warn	Parameter type: boolean	<i>optional parameter</i> enable RXPowerLowWarning
[no] txpow-hi-warn	Parameter type: boolean	<i>optional parameter</i> enable TXPowerHighWarning
[no] txpow-lo-warn	Parameter type: boolean	<i>optional parameter</i> enable TXPowerLowWarning
[no] txbi-hi-warn	Parameter type: boolean	<i>optional parameter</i> enable TXBiasHighWarning
[no] txbi-lo-warn	Parameter type: boolean	<i>optional parameter</i> enable TXBiasLowWarning
[no] vcc-hi-warn	Parameter type: boolean	<i>optional parameter</i> enable VccHighWarning
[no] vcc-lo-warn	Parameter type: boolean	<i>optional parameter</i> enable VccLowWarning
[no] temp-hi-warn	Parameter type: boolean	<i>optional parameter</i> enable TempHighWarning
[no] temp-lo-warn	Parameter type: boolean	<i>optional parameter</i> enable TempLowWarning
[no] ethp-aneg-fl	Parameter type: boolean	<i>optional parameter</i> enable EthPortAutoNegFailure

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Parameter	Type	Description
[no] ethp-los	Parameter type: boolean	<i>optional parameter</i> enable EthPortLOS
[no] ethp-fail	Parameter type: boolean	<i>optional parameter</i> enable EthPortFailure
[no] ethp-loopback	Parameter type: boolean	<i>optional parameter</i> enable EthPortLoopback
[no] ethp-conges	Parameter type: boolean	<i>optional parameter</i> enable EthPortCongestion
[no] potsp-fail	Parameter type: boolean	<i>optional parameter</i> enable POTSPortFailure
[no] e1port-fail	Parameter type: boolean	<i>optional parameter</i> enable E1PortFailure
[no] e1-tim-unlock	Parameter type: boolean	<i>optional parameter</i> enable E1TimingUnlock
[no] e1-los	Parameter type: boolean	<i>optional parameter</i> enable E1LOS