43- Ethernet User Ports Configuration Commands

43.1 Ethernet User Ports Configuration Command Tree

Description

This chapter gives an overview of nodes that are handled by "Ethernet User Ports Configuration Commands".

Command Tree

----configure
----ethernet
----line
- (if-index)
- port-type
- [no] admin-up

----tca-line-threshold
- [no] enable
- [no] los
- [no] fcs
- [no] rx-octets
- [no] tx-octets
- [no] los-day
- [no] fcs-day
- [no] rx-octets-day
- [no] tx-octets-day

----mau
- (index)
- type
- power
- [no] speed-auto-sense
- [no] autonegotiate
- [no] cap100base-tfd
- [no] cap1000base-xfd
- [no] cap1000base-tfd

43.2 Ethernet Line Configuration Command

Command Description

This command allows the operator to configure the ethernet line.

User Level

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

Command Syntax

The command has the following syntax:

> configure ethernet line (if-index) [port-type <ETHITF::PortType>] [[no] admin-up]

Command Parameters

Table 43.2-1 "Ethernet Line Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(if-index)	Format: <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> Field type <Eqpt::RackId> - the rack number Field type <Eqpt::ShelfId> - the shelf number Field type <Eqpt::SlotId> - the LT slot number Field type <Eqpt::PortId> - the port number	interface index of the port

Table 43.2-2 "Ethernet Line Configuration Command" Command Parameters

Parameter	Type	Description
port-type	Parameter type: <ETHITF::PortType> Format: (uni | nni | hc-uni | uplink) Possible values: - uni : uni port type - nni : nni port type - hc-uni : hicap uni port type - uplink : uplink port type	*optional parameter* the whole network service model based on this interface
[no] admin-up	Parameter type: boolean	*optional parameter* admin status is up (read-only for voicefxs interface)

43.3 Ethernet Line TCA Threshold Configuration Command

Command Description

This command allows the operator to configure the Threshold Crossing Alert (TCA) thresholds. The configuration is specific per ethernet line.

User Level

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

Command Syntax

The command has the following syntax:

> configure ethernet line (if-index) tca-line-threshold [[no] enable] [no los | los <ETHITF::TcaThresholdLOS>] [no fcs | fcs <ETHITF::TcaThresholdFCS>] [no rx-octets | rx-octets <ETHITF::TcaThresholdMB>] [no tx-octets | tx-octets <ETHITF::TcaThresholdMB>] [no los-day | los-day <ETHITF::TcaThresholdLOS>] [no fcs-day | fcs-day <ETHITF::TcaThresholdFCS>] [no rx-octets-day | rx-octets-day <ETHITF::TcaThresholdMB>] [no tx-octets-day | tx-octets-day <ETHITF::TcaThresholdMB>]

Command Parameters

Table 43.3-1 "Ethernet Line TCA Threshold Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(if-index)	Format: <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> Field type <Eqpt::RackId> - the rack number Field type <Eqpt::ShelfId> - the shelf number Field type <Eqpt::SlotId> - the LT slot number Field type <Eqpt::PortId> - the port number	interface index of the port

Table 43.3-2 "Ethernet Line TCA Threshold Configuration Command" Command Parameters

Parameter	Type	Description
[no] enable	Parameter type: boolean	*optional parameter* enable the reporting of TCA's for this ethernet line
[no] los	Parameter type: <ETHITF::TcaThresholdLOS> Format: - the tca threshold value (times), 0 - disable	*optional parameter with default value: 0* loss of signal error in 15 minute

Parameter	Type	Description
[no] fcs	Parameter type: <ETHITF::TcaThresholdFCS> Format: - the tca threshold value (frames), 0 - disable	*optional parameter with default value: 0* frame check sequence error in 15 minute
[no] rx-octets	Parameter type: <ETHITF::TcaThresholdMB> Format: - the tca threshold value (specify octets in MB), 0 - disable	*optional parameter with default value: 0* received octets in 15 minute (specify in MB)
[no] tx-octets	Parameter type: <ETHITF::TcaThresholdMB> Format: - the tca threshold value (specify octets in MB), 0 - disable	*optional parameter with default value: 0* transmitted octets in 15 minute (specify in MB)
[no] los-day	Parameter type: <ETHITF::TcaThresholdLOS> Format: - the tca threshold value (times), 0 - disable	*optional parameter with default value: 0* loss of signal error in 1 day
[no] fcs-day	Parameter type: <ETHITF::TcaThresholdFCS> Format: - the tca threshold value (frames), 0 - disable	*optional parameter with default value: 0* frame check sequence error in 1 day
[no] rx-octets-day	Parameter type: <ETHITF::TcaThresholdMB> Format: - the tca threshold value (specify octets in MB), 0 - disable	*optional parameter with default value: 0* received octets in 1 day (specify in MB)
[no] tx-octets-day	Parameter type: <ETHITF::TcaThresholdMB> Format: - the tca threshold value (specify octets in MB), 0 - disable	*optional parameter with default value: 0* transmitted octets in 1 day (specify in MB)

43.4 Ethernet Line Mau Configuration Command

Command Description

This command allows the operator to configure the Mau. The configuration is specific per ethernet line.

User Level

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

Command Syntax

The command has the following syntax:

> configure ethernet line (if-index) mau (index) [type <Ether::MAUType>] [power <ETHITF::Power>] [[no] speed-auto-sense] [[no] autonegotiate] [[no] cap100base-tfd] [[no] cap1000base-xfd] [[no] cap1000base-tfd]

Command Parameters

Table 43.4-1 "Ethernet Line Mau Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(if-index)	Format: <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> Field type <Eqpt::RackId> - the rack number Field type <Eqpt::ShelfId> - the shelf number Field type <Eqpt::SlotId> - the LT slot number Field type <Eqpt::PortId> - the port number	interface index of the port
(index)	Format: - port to which the MAU is connected - range: [1...2147483647]	identify MAU, among others connected to same interface

Table 43.4-2 "Ethernet Line Mau Configuration Command" Command Parameters

Parameter	Type	Description
type	Parameter type: <Ether::MAUType> Format: (10baset | 100basetxhd | 100basetxfd | 100basefxhd | 100basefxfd | 1000basexhd | 1000basexfd	*optional parameter* the mau type

Parameter	Type	Description
	| 1000baselxhd | 1000baselxfd | 1000basesxhd | 1000basesxfd | 1000basethd | 1000basetfd | 10gbasex | 10gbaser | 10gbaseer | 10gbaselr | 10gbasesr | 100basebx10d | 100basebx10u | 100baselx10 | 1000basebx10d | 1000basebx10u | 1000baselx10 | 2500basex | 10gbasetfd) Possible values: - 10baset : UTP 10M - 100basetxhd : UTP 100M half duplex - 100basetxfd : UTP 100M full duplex - 100basefxhd : X fiber over PMT half duplex - 100basefxfd : X fiber over PMT full duplex - 1000basexhd : PCS/PMA,unknown PMD, half duplex - 1000basexfd : PCS/PMA,unknown PMD, full duplex - 1000baselxhd : fiber over long-wavelength laser half duplex - 1000baselxfd : fiber over long-wavelength laser full duplex - 1000basesxhd : fiber over short-wavelength laser half duplex - 1000basesxfd : fiber over short-wavelength laser full duplex - 1000basethd : UTP 1G half duplex - 1000basetfd : UTP 1G full duplex - 10gbasex : fiber 10G ethernet, PCS 8B/10B - 10gbaser : fiber 10G ethernet, PCS 64B/66B - 10gbaseer : fiber 10G ethernet extended reach, 30km - 10gbaselr : fiber 10G ethernet long reach, 10km - 10gbasesr : fiber 10G ethernet short reach, 300m - 100basebx10d : one single-mode fiber OLT long wavelength, 10km, 100 base - 100basebx10u : one single-mode fiber ONU, long wavelength, 10km, 100 base - 100baselx10 : two single-mode fibers over long wavelength, 10km, 100 base - 1000basebx10d : one single-mode fiber OLT over long wavelength, 10km, 1000 base - 1000basebx10u : one single-mode fiber ONU over long wavelength, 10km, 1000 base - 1000baselx10 : two single-mode fibers over long wavelength, 10km, 1000 base - 2500basex : single-mode fibers, 2.5G base - 10gbasetfd : UTP 10G full duplex	
power	Parameter type: <ETHITF::Power> Format:	*optional parameter* the administrative status of sfp

Parameter	Type	Description
	(up | down) Possible values: - up : up - down : down	power
[no] speed-auto-sense	Parameter type: boolean	*optional parameter* enable auto-sensing fiber speed on this port
[no] autonegotiate	Parameter type: boolean	*optional parameter* enable auto-negotiation on this port
[no] cap100base-tfd	Parameter type: boolean	*optional parameter* advertise 100M electrical
[no] cap1000base-xfd	Parameter type: boolean	*optional parameter* advertise 1G optical
[no] cap1000base-tfd	Parameter type: boolean	*optional parameter* advertise 1G electrical