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# **Guide to CLI command of RS1010**

**V1.00**

**July.2013**

## Revision History

Version	Date	Description
V1.00	2013-7-2	

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## 1 General Description

This document is intended to instruct in the basics configuration and maintenance of RS1010. Prior experience with communication knowledge will be great helpful to understand this document but is not indispensable.

## 2 Access mode

There are two ways involved in managing RS1010. One is by RS232 interface, the other is by telnet.

The RS232 connection operates at 19200 baud, 8 data bits, 1 stop bit and no parity. Initially, the IP address, gateway, subnet mask are set in this mode.

When placed in remote, RS1010 can be accessed through a telnet connection as well. In this mode, the IP address, user name and password should be Configured via RS232 interface.

The device can also support telnet access across routers. In this way, the Gateway, Subnet mask, IP address should be set correctly.

## 3 How to access the interface

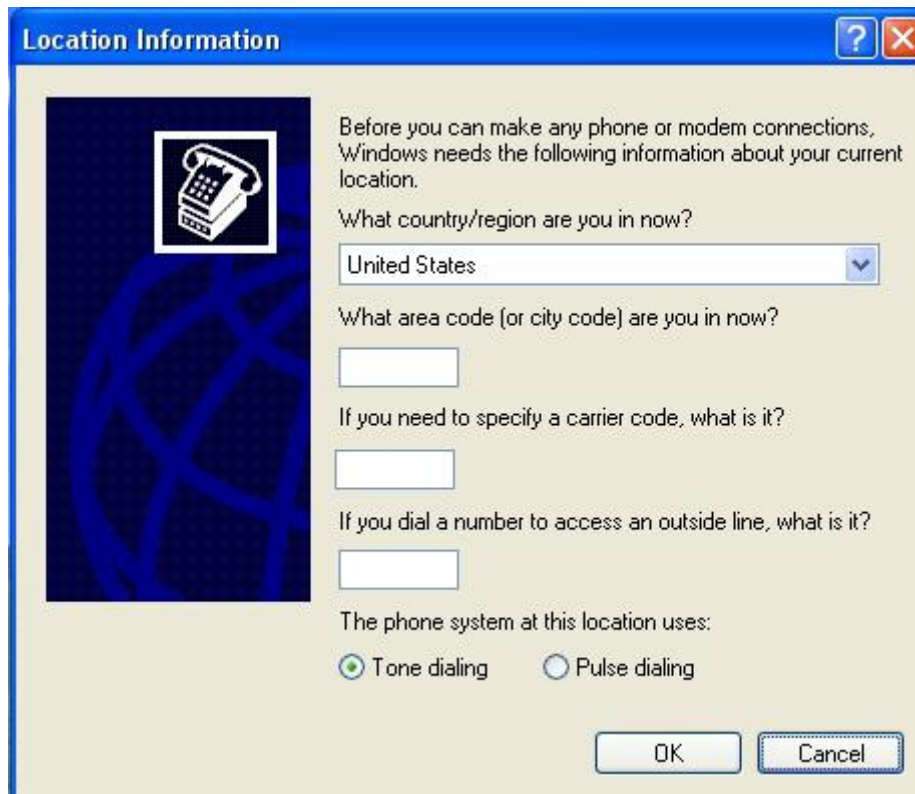
### 3.1 BY RS232 INTERFACE

#### 3.1.1 Set Hyper Terminal

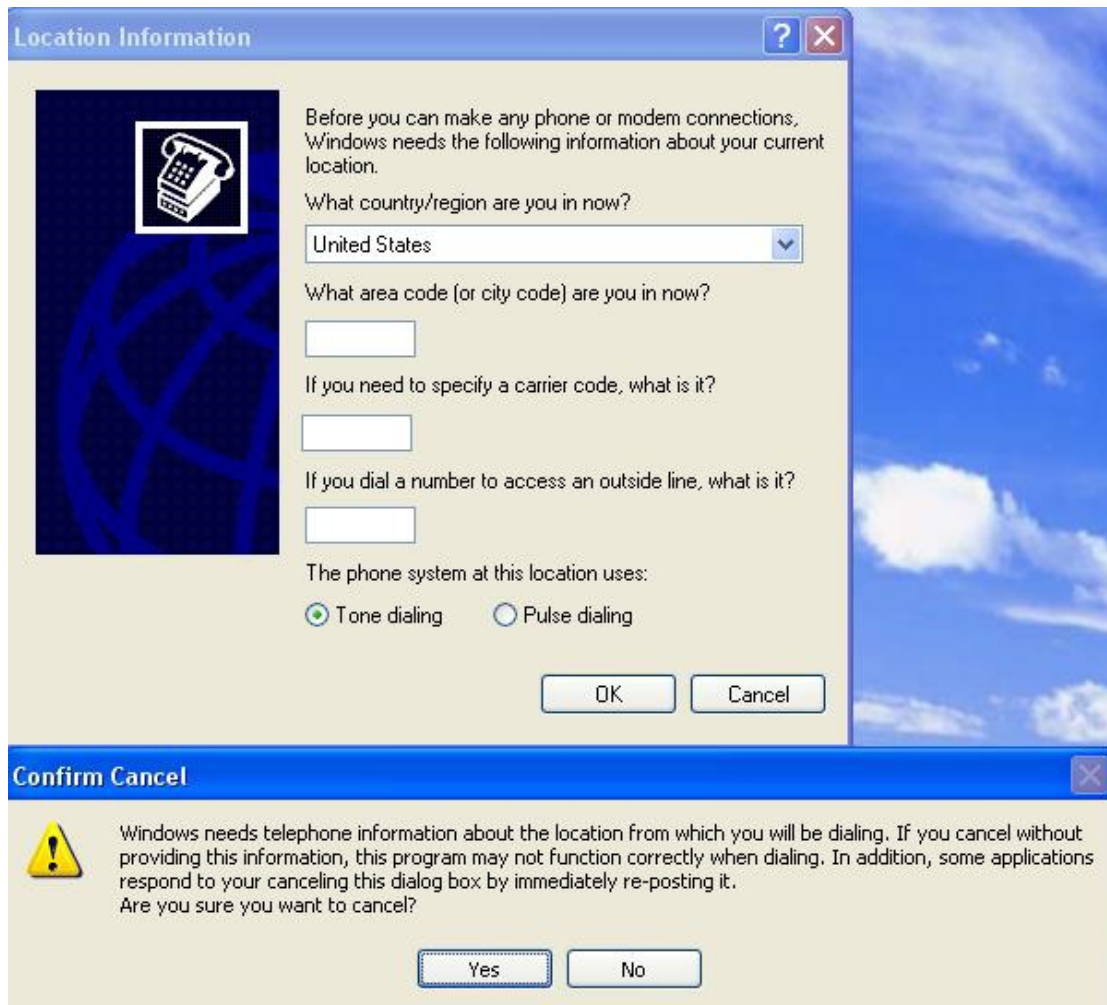




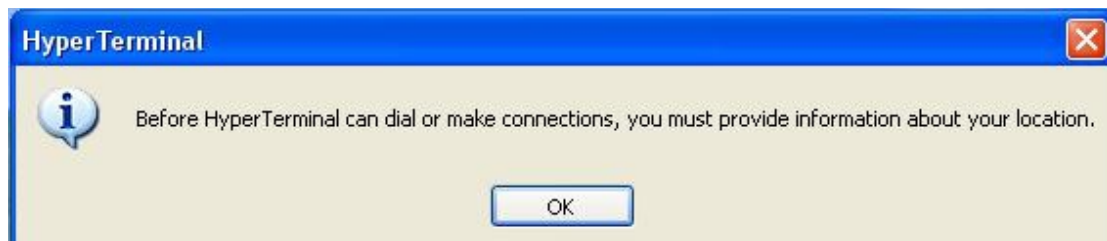
### 3.1.2 Click "Cancel"



### 3.1.3 Click "Yes"

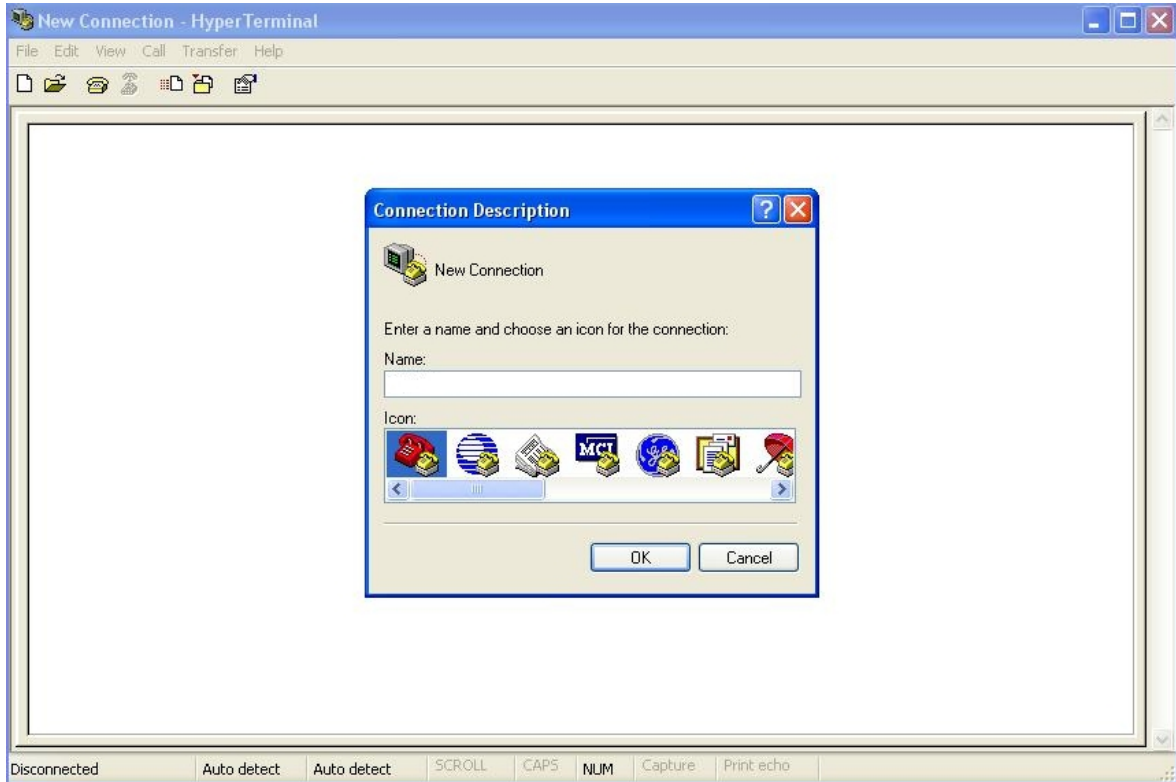


### 3.1.4 Click "OK"

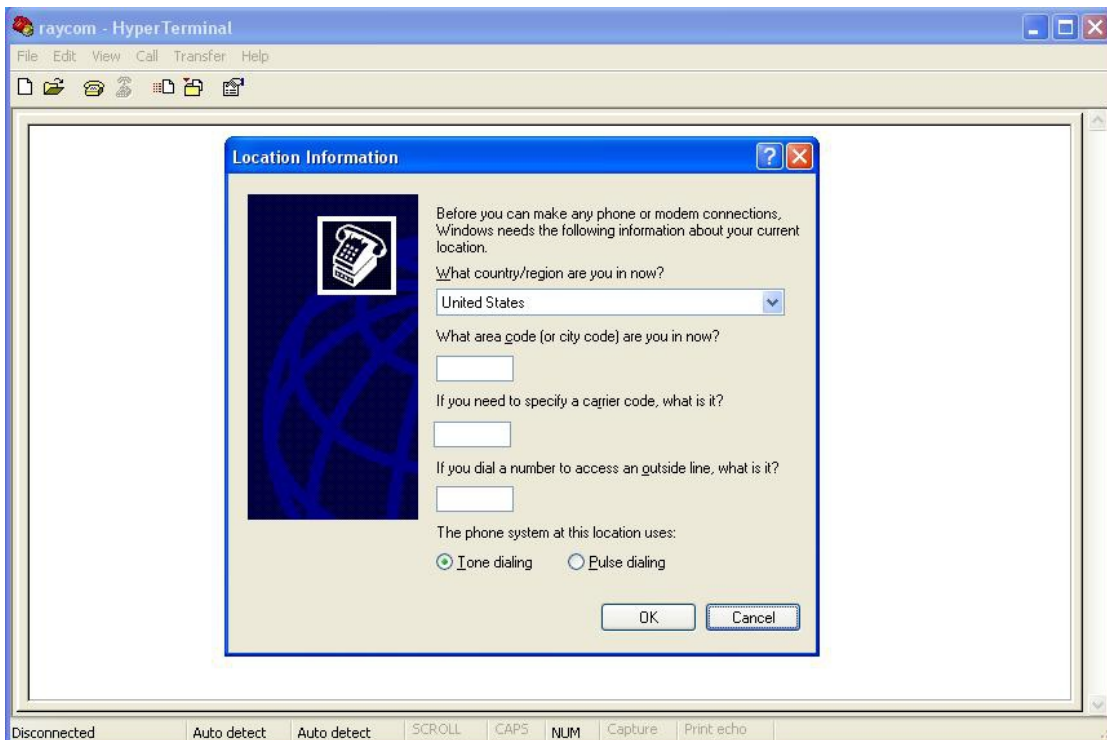


### 3.1.5 Name:

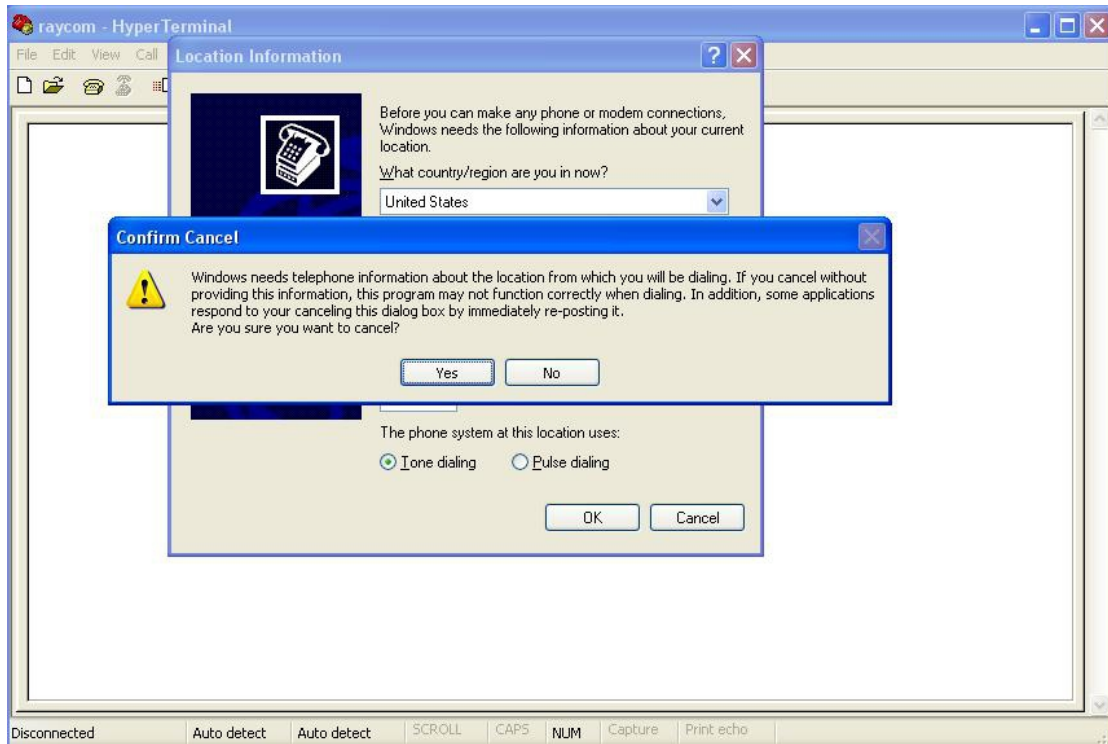
You can use number and letter as name. eg. "abc" "122", then point OK.



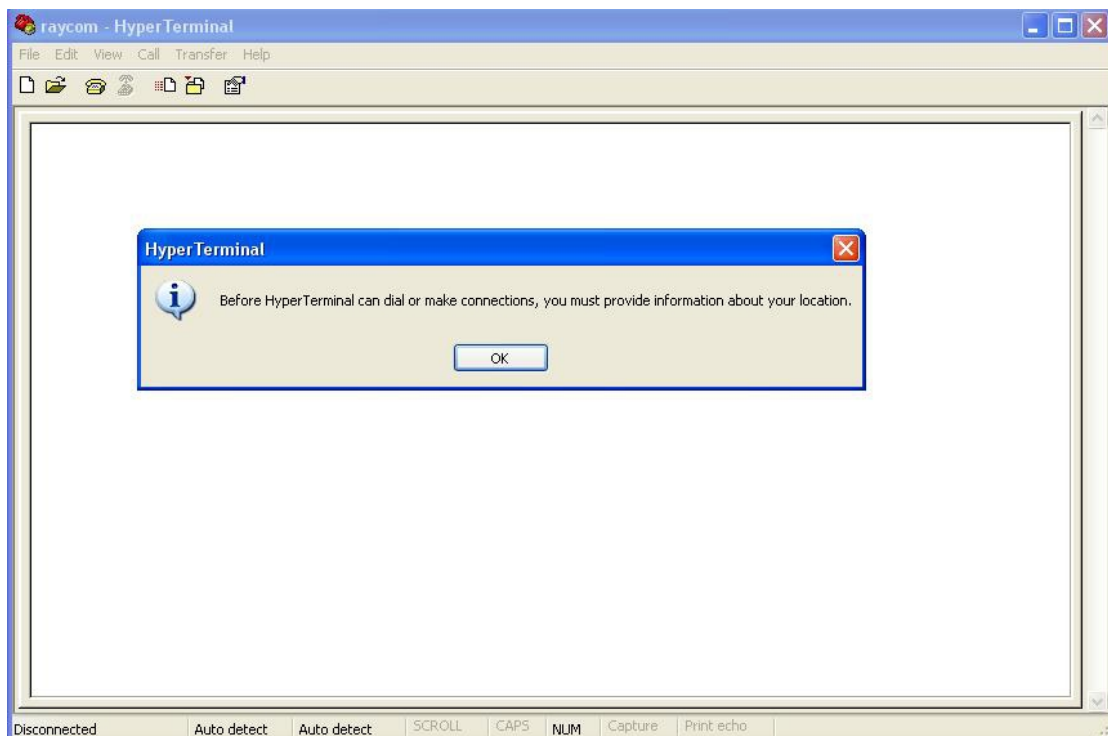
### 3.1.6 Click "Cancel"



### 3.1.7 Click "Yes"

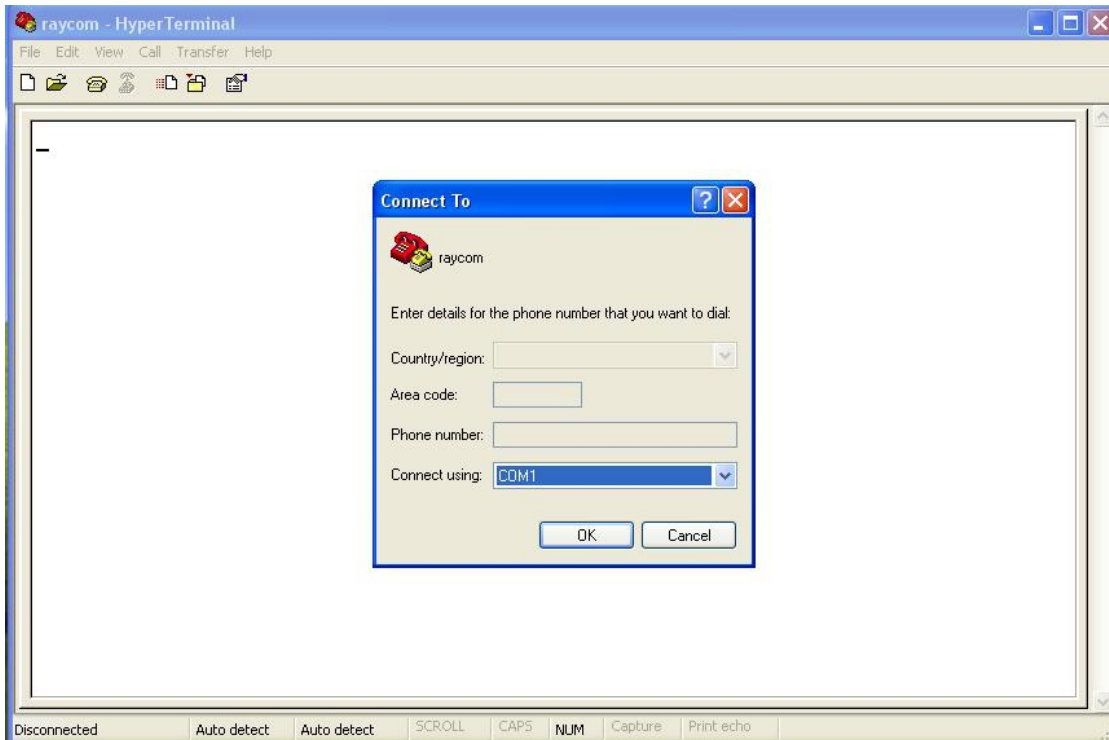


### 3.1.8 Click "OK"

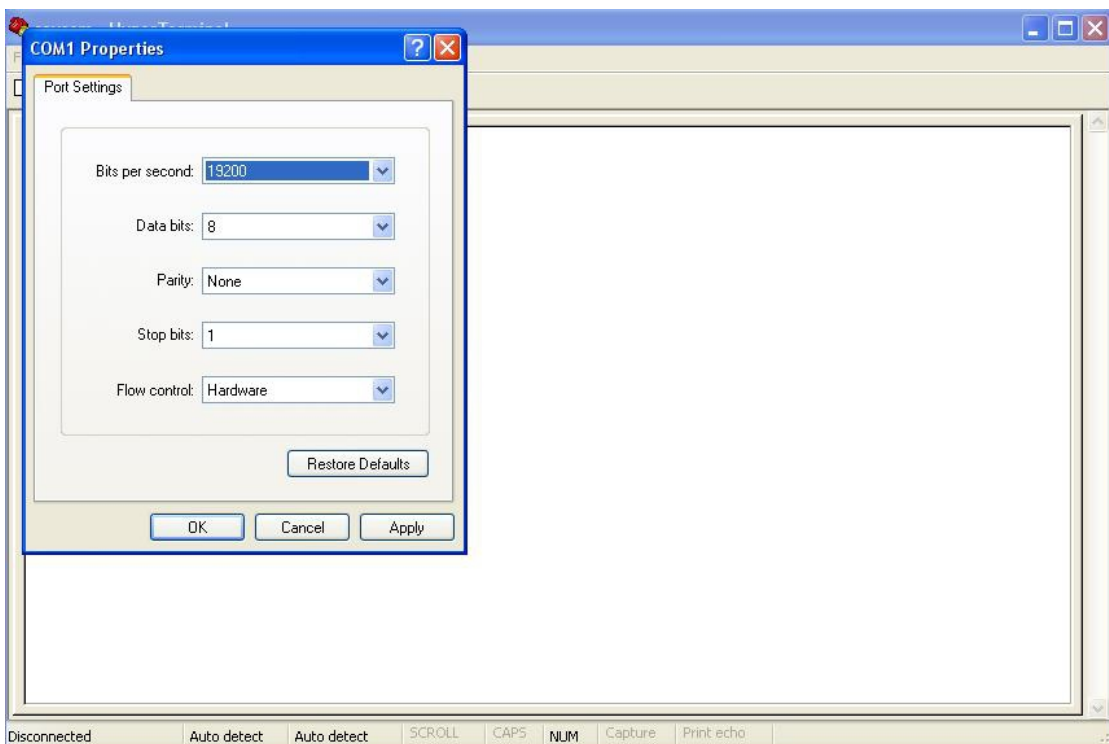


### 3.1.9 Choose port:

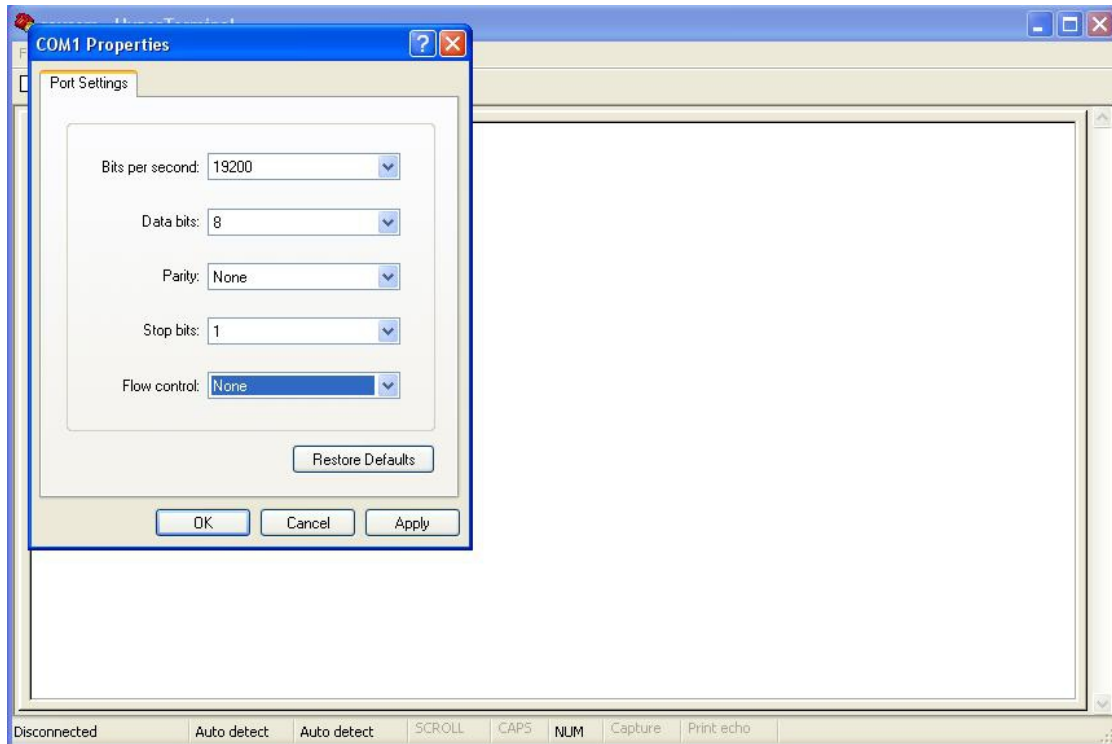
Choose the port which connects equipment with pc via serial line.click "ok"



### 3.1.10 Choose Bits per second:19200



### 3.1.11 Choose Flow control: None; click "OK"



### 3.1.12 The CLI interface



### 3.1.13 Press "Enter"



## 3.2 BY TELNET

You should Input the actual IP address of the device, username and password.

Type 'user' for Username and password, then press enter

## 4 How to use CLI command

### 4.1 CLI Command List

device>?

Command	Description
=====	
-----System commands-----	
?/help	View the list of system commands .
showsysinfo	View the system information.
reset	Shutdown and reboot the system.
setdefault	Set the configuration to default.
setfactorydefault	Set the configuration to factory default.

setip	Configure the IP Address.
showip	View the IP Address.
setmask	Configure the Subnet Mask.
showmask	View the Subnet Mask.
showneid	View the Neld of the device.
setgw	Configure the Gateway Address.
showgw	View configured Gateway Address.
setmac	Configure the MAC Address.
showmac	View the MAC Address.

Please press "Enter" to continue.....

-----System commands-----

setsnmpget	Configure SNMP READ/GET/GETNEXT community.
showsnmpget	View configured SNMP READ/GET/GETNEXT community.
setsnmpset	Configure SNMP WRITE/SET community.
showsnmpset	View configured SNMP WRITE/SET community.
setforward	Configure system RS232 port forwarding enable/disable.
showforward	View system RS232 port forwarding enable/disable.
settime	Configure system time.
showtime	View system time.
adduser	Add a user to TELNET.
deluser	Delete a user from TELNET .
showuser	View information of TELNET users.

Please press "Enter" to continue.....

-----Optical commands-----

settu12order	Configure TU12 order.
showtu12order	View TU12 order.
showfreetu12	View free TU12 of optical port.
setj0mode	Configure the valid J0 overhead mode of optical port.
setohj0	Configure J0 overhead send/expect value of optical port



setohj1	Configure J1 overhead send/expect value of optical port
setc2expect	Configure C2 overhead expect value of optical port.
setoh	Configure other overhead send value of optical port.
showoh	View the overhead status of optical port.
setals	Enable/Disable ALS, and configure ALS work mode.
showals	View ALS configuration of optical port.
manualals	Manual laser restart when ALS is enabled.
showoptddminfo	View the information of optical ports.
showoptalarm	View the alarm of optical port.
showvc4perform	View the vc4 performance information.
showoptalarmhistory	View the alarm history of optical port.

Please press "Enter" to continue.....

-----E1 commands-----

addxc	Create cross-connects (XC) of service card.
delxc	Delete configured cross-connects (XC) of service card.
delallxc	Delete all the cross-connect.
showxc	View the configured cross-connects.
setactive	Enable/Disable activity of the path.
setprotect	Configure the protection status of the path.
setrecoverytime	Configure the recovering time of protection .
showrecoverytime	View the recovering time of protection .
switchtu12	Manually switch telecom-bus.
showactive	View the active path.
showprotect	View the protection status of the path.
showswitch	View if path is set to manual protection mode.
showe1alarm	View the alarm of the E1 tributary.
showtu12perform	View the TU12 performance information.
showe1alarmhistory	View the alarm history of E1 tributary.

Please press "Enter" to continue.....

## -----EOS commands-----

setvcg	Configure VCG protocol information of MSTP.
setv5k4	Configure transmit and expect value of V5 , K4 in VCG.
showvcg	View VCG protocol information of MSTP.
showvcat	View the SQ,CTRL of VCAT members.
enableeth	Enable or Disable Ethernet port.
setportmode	Configure Ethernet port mode.
seteth	Configure Ethernet port.
showeth	View Ethernet port configuration.
setporttable	Configure the port based VLAN members of Ethernet port.
envlan	Enable 802.1Q VLAN mode.
disvlan	Disable 802.1Q VLAN mode.
addvlan	Add new 802.1Q based VLAN to VLAN table.
delvlan	Delete a configured 802.1Q based VLAN from VLAN table.
setpvid	Configure Ethernet port VLAN ID and VLAN priority.
showvlan	View VLAN table, VLAN ID, VLAN members and VLAN status.
showeosalarm	View alarms of EOS.
showeosalarmhistory	View the alarm history of EOS.
showethperform	View the performance of the Ethernet.
clearperform	Clear the performance of E1, Ethernet and optical port.
clearalarmhistory	Clear the history information of alarm.

Please press "Enter" to continue.....

## -----EOS commands-----

setmacage	Configure the MAC address lookup table aging function.
setstormfilter	Enable/disable broadcast storm filtering function.
setmaxpacket	Configure the maximum packet size (1536\1552 bytes).
setethloop	Configure the Loop-back of Ethernet port.
setethals	Enable/Disable ALS, and configure ALS work mode.
manualethals	Manual laser restart when ALS is enabled.

setperformmode	Configure Ethernet performance count mode packets\bytes
showmacage	View the aging timer of MAC address lookup table.
showstormfilter	View the configuration of broadcast storm filtering.
showmaxpacket	View maximum packet size configured(1536\1552 bytes).
showethloop	View the Ethernet port Loop-back status.
showethals	View Auto Laser Shut status of Ethernet optical port.
showperformmode	View Ethernet performance count mode packets\bytes.
showethddminfo	View Ethernet optical port information.

Please press "Enter" to continue.....

-----EOS commands for only XS060-----

setvlanmode	Configure VLAN mode.
setqinqtpid	Configure Tag Protocol Identifier of QINQ.
setqinqport	Configure QINQ ports.
setporttag	Configure tag on the packet of Ethernet port.
showqinq	View the configuration of QINQ.
showporttag	View tag information of Ethernet ports.

Please press "Enter" to continue.....

-----ETS\EXM commands-----

setets	Configure the application Enable/Disable of ETS1,ETS2.
showets	View the application Enable/Disable of ETS 1, ETS 2.
setexm	Configure the application mode of EXM 1 , EXM 2.
showexm	View the application Enable/Disable of EXM 1, EXM 2.
addexmxc	Create cross-connect of the EXM path in "EXM_IN" mode.
delexmxc	Delete cross-connect of EXM path in "EXM_IN " mode.
showexmxc	View cross-connect of EXM path in "EXM_IN" mode.
showexmalarm	View the EXM alarm information.
showexmalarmhistory	View the alarm history of EXM.

Please press "Enter" to continue.....

## -----SEC commands-----

showcurrentclock    View current clock status.  
setclocksource      Configure clock source priority(1-6).  
setclockmode        Configure clock force mode.  
sett21source        Configure T21 source.  
sett3x                Configure T31/T32 work mode and SSM value.  
sett41                Configure T41 source, work mode and SSM enable/disable.  
manualt41            Manually configure T41 enable and SSM value.  
setssm                Enable/Disable SSM.  
setfreqcheck        Enable/Disable frequency detection.  
setrestoretme        Configure the confirming time after clock restore.  
showclockconfig     View current clock configuration.  
showsecalarmhistory View the alarm history of current SEC.

Please press "Enter" to continue.....

## -----DCC commands-----

setdccmode            Configure DCC mode, and enable/disable DCC access.  
setohsrcdir           Configure the source direction of other overheads.  
showdcc                View the configurations of DCC.

## -----TEST commands-----

setoptloop            Configure the Loop-back of optical port.  
showoptloop           View loop status of the optical port.  
sete1loop             Configure the Loop-back of E1 port.  
showe1loop            View loop status of the E1 port.  
setbert                Configure E1 BERT.  
enbert                 Enable/Disable BERT transmitter and receiver.  
inserterr             Manually insert one bit error to BERT.  
showbert              View BERT status.  
clearbert             Reset E1 BERT.

Successfully Executed

You can key "?" or "help" in the command line to get the list of the command as follows:

**【FORMAT】 :**

? \n

**【EXPLANATION】 :**

To get a list of the commands for the system type '?' at the prompt

**【PARAMETERS】 :**

None

**【E.g.】**

For detailed command format, please key "? cmdname" or "help cmdname". See the following examples.

**【FORMAT】 :**

? [command]

**【EXPLANATION】 :**

To get further information about any command, type the ? <space> followed by command.

**【PARAMETERS】 :**

cmdname : Optional PARAMETERS,Type the command which needs to help.

**【E.g.】**

device>? setip

<FORMAT >: setip [ ipaddr]

<EXPLANATION>: Change the IP Address of local device..

<PARAMETERS>:

ipaddr : IP address, e.g.<192.168.0.215>.

## 4.2 Transferring software and Configuration files

### 4.2.1 Download

The command needs the service of FTP.

**【COMMAND】**

download

**【FORMAT】**

download [host ] [username ][usrpwd ][type][filename ]

**【EXPLANATION】**

Download a firmware to the flash memory.

**【PARAMETERS】**

host : <IP address>,The IP address of Fileserver(FTP server).

username : < a string>, User login name.

usrpwd : < a string>,User login password.

type : <SDH> Card's name.

: <DATA> Configuration.

filename : < a string>,The filename to be download..

**【E.g.】**

```
device>download 192.168.0.117 target target SDH RSM155SB_0515A.bin
```

Download start, Please wait

## 4.2.2 Upload

**【COMMAND】**

upload

**【FORMAT】**

upload <host> <username> <usrpwd ><type>

**【EXPLANATION】**

Upload a config data to the manager.

**【PARAMETERS】**

host : <IP address>,The IP address of Fileserver(FTP server).

username : < a string>, User login name.

usrpwd : < a string>,User login password.

type : <DATA>, the type of upload.

## 4.3 System Command

### 4.3.1 Showsystem

**【COMMAND】**

showsysinfo

**【FORMAT】**

showsysinfor

**【EXPLANATION】**

View the system information.

**【PARAMETERS】**

None

**【E.g.】**

```
device>showsysinfo
```

System Hardware version: 1.0.2

System Software version: 1.1.0A1

Optical Port A: Exist

Optical Port B: Does not exist

Slot 1 : 8 E1 card

Slot 2 : 8 E1 card

Slot 3 : EOS Card Information:

Hardware version: 1.0.0

Software version: 0.0.1A3

VCG number : 1 , Ethernet number : 2

Ethernet 1:Type : RJ45 port

Ethernet 2:Type : SFP-Optical port

Power Supply 1 : Does not exist

Power Supply 2 : Does not exist

Successfully Executed!

#### 4.3.2 Reset

##### **【COMMAND】**

reset

##### **【FORMAT】**

reset

##### **【EXPLANATION】**

Reset the system..

##### **【PARAMETERS】**

None

##### **【E.g.】**

device>reset

System will reset in a few minutes! Please Wait.....

#### 4.3.3 Setdefault

##### **【COMMAND】**

setdefault

##### **【FORMAT】**

setdefault

##### **【EXPLANATION】**

Configure the system in default.

##### **【PARAMETERS】**

None

##### **【Note】**

After carrying out this command ,the device is restored as factory default settings.except the IP address,Trap IP information,RCF1213 system group information,SNMP information

**【E.g.】**

```
device>setdefault
```

System is configured to default settings.

Successfully Executed

**4.3.4 Setfactorydefault****【COMMAND】**

```
setfactorydefault
```

**【FORMAT】**

```
setfactorydefault
```

**【EXPLANATION】**

Configure the system in factory default configurations  
(including IP Address, Subnet Mask, Gateway Address and SNMP settings).

**【PARAMETERS】**

None

**【Note】**

After carrying out this command ,the device is restored as factory default settings

**【E.g.】**

```
device>setfactorydefault
```

System is configured to factory default settings.

Successfully Executed

**4.3.5 Setip****【COMMAND】**

```
setip
```

**【FORMAT】**

```
setip <IP Address>
```

**【EXPLANATION】**

Configure the system IP Address.

**【PARAMETERS】**

<IP Address> : IP address, e.g.<192.168.0.215>.

**【E.g.】**

```
device>setip 192.168.0.135
```

IP Address: 192.168.0.135



Successfully Executed

#### 4.3.6 Showip

**【COMMAND】**

showip

**【FORMAT】**

showip

**【EXPLANATION】**

View current IP Address of the system.

**【PARAMETERS】**

None

**【E.g.】**

device>showip

IP Address: 192.168.0.135

Successfully Executed

#### 4.3.7 Setmask

**【COMMAND】**

setmask

**【FORMAT】**

setmask <Subnet Mask>

**【EXPLANATION】**

Configure the Subnet Mask.

**【PARAMETERS】**

<Subnet Mask> : Subnet Mask, e.g.<255.255.255.0>.

**【E.g.】**

device>setmask 255.255.255.0

Subnet Mask : 255.255.255.0

Successfully Executed

#### 4.3.8 Showmask

**【COMMAND】**

showmask

**【FORMAT】**

showmask

**【EXPLANATION】**

View current Subnet Mask of the system

**【PARAMETERS】**

None

**【E.g.】**

```
device>showmask
```

```
Subnet Mask: 255.255.255.0
```

```
Successfully Executed
```

**4.3.9 Showneid****【COMMAND】**

```
showneid
```

**【FORMAT】**

```
showneid
```

**【EXPLANATION】**

view the Neld of the device..

**【PARAMETERS】**

None

**【E.g.】**

```
device>showneid
```

```
neid: 1
```

```
Successfully Executed
```

**4.3.10 Setgw****【COMMAND】**

```
setgw
```

**【FORMAT】**

```
setgw <Gateway Address>
```

**【EXPLANATION】**

Configure the Gateway Address.

**【PARAMETERS】**

<Gateway Address> : Gateway Address, e.g.<192.168.0.1>.

**【E.g.】**

```
device>setgw 192.168.0.4
```

```
Default gateway: 192.168.0.4
```

Successfully Executed

#### 4.3.11 Showgw

**【command】**

showgw

**【FORMAT】**

showgw

**【EXPLANATION】**

View Default Gateway Address.

**【PARAMETERS】**

None

**【E.g.】**

```
device>showgw
```

Default Gateway : 192.168.0.4

Successfully Executed

#### 4.3.12 Setmac

**【COMMAND】**

setmac

**【FORMAT】**

setmac < MAC Address>

**【EXPLANATION】**

Configure the Ethernet MAC Address.

**【PARAMETERS】**

< MAC Address> : Ethernet Mac address, e.g.<00.25.04.00.00.01>.

**【E.g.】**

```
device>setmac 00.19.AB.18.11.38
```

Setting MAC Address: 00.19.AB.18.11.38

MAC Address will be effective only after system restart.

Please reset the system to activate new MAC Address.

Successfully Executed

```
device>reset
```

System will reset in a few minutes Please Wait.....

#### 4.3.13 Showmac

**【COMMAND】**

showmac

**【FORMAT】**

showmac

**【EXPLANATION】**

View current MAC Address of the system.

**【PARAMETERS】**

None

**【E.g.】**

device>showmac

System MAC Address: 00.19.AB.18.11.38

Successfully Executed

#### 4.3.14 Setsnmpget

**【COMMAND】**

setsnmpget

**【FORMAT】**

setsnmpget <community>

**【EXPLANATION】**

Configure SNMP READ/GET/GETNEXT community.

**【PARAMETERS】**

<community> : 1-31 Alpha-numeric Characters (case sensitive).

Successfully Executed!

**【E.g.】**

device>setsnmpget public

System SNMP get community : public

Successfully Executed

#### 4.3.15 Showsnmpget

**【COMMAND】**

showsnmpget

**【FORMAT】**

showsnmpget

**【EXPLANATION】**

View SNMP READ/GET/GETNEXT community.

**【PARAMETERS】**

None

**【E.g.】**

```
device>showsnmpget
```

System SNMP READ/GET/GETNEXT community: public(Case sensitive)

Successfully Executed

**4.3.16 Setsnmpset****【COMMAND】**

```
setsnmpset
```

**【FORMAT】**

```
setsnmpset <community>
```

**【EXPLANATION】**

Configure SNMP WRITE/SET community.

**【PARAMETERS】**

<community> : 1-31 Alpha-numeric Characters (case sensitive).

Successfully Executed

**【E.g.】**

```
device>setsnmpset private
```

System SNMP set community : private

Successfully Executed

**4.3.17 Showsnmpset****【COMMAND】**

```
showsnmpset
```

**【FORMAT】**

```
showasnmpset
```

**【EXPLANATION】**

Show SNMP WRITE/SET community.

**【PARAMETERS】**

None

**【E.g.】**

```
device>showsnmpset
```

System SNMP SET/WRITE community: private(Case sensitive)

Successfully Executed

#### 4.3.18 Setforward

**【COMMAND】**

setforward

**【FORMAT】**

setforward <enable|disable>

**【EXPLANATION】**

Configure RS232 port forwarding enable or disable.

**【PARAMETERS】**

<enable|disable>: enable|disable.

**【E.g.】**

```
device>setforward disable
```

RS232 port forwarding: Disable

Successfully Executed

#### 4.3.19 Showforward

**【COMMAND】**

showforward

**【FORMAT】**

showforward

**【EXPLANATION】**

View system RS232 port forwarding enable/disable.

**【PARAMETERS】**

None

**【E.g.】**

```
device>showforward
```

RS232 port forwarding : Disable

Successfully Executed

#### 4.3.20 Settime

**【COMMAND】**

settime

**【FORMAT】**

settime <year> <month> <day> <hour> <minute> <second>

**【EXPLANATION】**

Configure system time.

**【PARAMETERS】**

<year>: 2000-2099.

<month> : 1-12.

<day> : 1-31.

<hour> : 0-23.

<minute> : 0-60.

<second> : 0-60.

**【E.g.】**

```
device>settime 2010 6 28 10 29 50
```

2010-6-28 (Year-Month-Day), 10-29-50 (Hour-Minute-Second)

Successfully Executed

#### 4.3.21 Showtime

**【COMMAND】**

showtime

**【FORMAT】**

showtime

**【EXPLANATION】**

View system time.

**【PARAMETERS】**

None

**【E.g.】**

```
device>showtime
```

2010-6-28 (Year-Month-Day), 10-30-36 (Hour-Minute-Second)

Successfully Executed

#### 4.3.22 Adduser

**【COMMAND】**

adduser

**【FORMAT】**

adduser <UserName> <Password>

**【EXPLANATION】**

Add a user to TELNET.

**【PARAMETERS】**

<UserName>:1-15 Alpha-numeric Characters (case sensitive), User login name.

<Password>:1-15 Alpha-numeric Characters (case sensitive), User login password.

**【Note】**

You can add six users at most by using this command.

**【E.g.】**

```
device>adduser me me
TELNET UserName : me
TELNET Password : me
Successfully Executed
```

**4.3.23 Deluser****【COMMAND】**

```
deluser
```

**【FORMAT】**

```
deluser <UserName> <Password>
```

**【EXPLANATION】**

Delete a user from TELNET.

**【PARAMETERS】**

<serName>:1-15 Alpha-numeric Characters (case sensitive), User login name.

<Password>:1-15 Alpha-numeric Characters (case sensitive), User login password.

**【E.g.】**

```
device>deluser me me
Successfully deleted Telnet User.
Successfully Executed
```

**4.3.24 Showuser****【COMMAND】**

```
showuser
```

**【FORMAT】**

```
showuser
```

**【EXPLANATION】**

View information of TELNET users.

**【PARAMETERS】**

None

**【E.g.】**

```
device>showuser
```



TELNET Manage UserName :user Password :user

=====

Successfully Executed

## 4.4 Optical commands

### 4.4.1 settu12order

#### 【COMMAND】

settu12order

#### 【FORMAT】

settu12order <mode>

#### 【EXPLANATION】

Configure TU12 order.

#### 【PARAMETERS】

<mode>: logic|path|line.

#### 【E.g.】

device>settu12order logic

Tu12 ordering mode : Logic

Successfully Executed

### 4.4.2 showtu12order

#### 【COMMAND】

showtu12order

#### 【FORMAT】

showtu12order

#### 【EXPLANATION】

View TU12 order.

#### 【PARAMETERS】

None

#### 【E.g.】

device>showtu12order

TU12 Order: Logic

Successfully Executed

### 4.4.3 showfreetu12

#### 【COMMAND】

showfreeti12

#### 【FORMAT】

```
showfreetu12
```

**【EXPLANATION】**

View free TU12 resource of optical ports.

**【PARAMETERS】**

None

**【E.g.】**

```
device>showfreetu12
```

Optical port A free TU12 IDs: None

Optical port B free TU12 IDs: None

Successfully Executed

#### 4.4.4 setj0mode

**【COMMAND】**

```
setj0mode
```

**【FORMAT】**

```
setj0mode <optID> <j0mode>
```

**【EXPLANATION】**

Configure the valid mode of optical port's J0 overhead.

**【PARAMETERS】**

<optID>: opta|optb.

<j0mode>: byte|string.

**【E.g.】**

```
device>setj0mode opta byte
```

Optical port A J0 mode: Byte

Successfully Executed

#### 4.4.5 setohj0

**【COMMAND】**

```
setohj0
```

**【FORMAT】**

```
setohj0 <optID> <ohtype> <valuetype> [crc] [value]
```

**【EXPLANATION】**

Configure J0 overhead send /expect value of optical port.

**【PARAMETERS】**

<optID>: opta|optb.

<ohtype>: send|expect.

<valuetype>: byte|string.

[crc] : enable|disable, valid when valuetype == string.

: 0 , valid when valuetype == byte.

[value] : when valuetype == byte, (1 byte, Hex format e.g. 0x01);

: when valuetype == string, 0-15 Alpha-numeric characters.

### 【Note】

If you want to set the valuetype of j0 as “string”,you must use command “setj0mode” to set “j0mode” as “string”.when the valuetype of j0 is“byte”,you should use command “setj0mode” to set “j0mode” as “byte”.so that you can see the value of j0 by command “showoh”.the value is hex.

### 【E.g.】

```
device>setohj0 opta send byte 0 0x01
Optical port A send J0 byte: 1
Successfully Executed
```

#### 4.4.6 setohj1

### 【COMMAND】

```
setohj1
```

### 【FORMAT】

```
setohj1 <optID> <ohtype> <crc> <value>
```

### 【EXPLANATION】

Configure J1 overhead send /expect value of optical port.

### 【PARAMETERS】

<optID>: opta|optb.

<ohtype>: send|expect.

<crc>: enable|disable.

<value> : the value of J1 is 0-15 Alpha-numeric characters.

### 【E.g.】

```
device>setohj1 opta send disable baba
Optical port A send J1 string: baba
Optical port A J1 CRC status: Disable
Successfully Executed
```

#### 4.4.7 setc2expect

### 【COMMAND】

```
setc2expect
```

### 【FORMAT】

```
setc2expect <optID> <value>
```

**【EXPLANATION】**

Configure expect value of optical port's c2 overhead.

**【PARAMETERS】**

<optID>: opta|optb.

<value> : the value of overhead (1 byte, Hex format e.g. 0x01).

**【E.g.】**

```
device>setc2expect opta 0x04
```

Optical port A expected receive C2 overhead: 0x4

Successfully Executed

**4.4.8 Setoh****【COMMAND】**

```
setoh
```

**【FORMAT】**

```
setoh <optID> <ohtype> <value>
```

**【EXPLANATION】**

Configure send value of optical port's other overhead.

**【PARAMETERS】**

<optID>: opta|optb.

<ohtype>: k1|k2|s1|x1|x2|c2|k3|n1.

<value> : the value of overhead (1 byte, Hex format e.g. 0x01).

**【E.g.】**

```
device>setoh opta k1 0x12
```

Optical port A send K1 overhead: 0x12

Successfully Executed

**4.4.9 Showoh****【COMMAND】**

```
showoh
```

**【FORMAT】**

```
showoh <opt>
```

**【EXPLANATION】**

View the overhead status of optical ports.

**【PARAMETERS】**

<opt>: opta|optb.

**【E.g.】**

```
device>showoh opta
```

```

      K1   K2   S1   X1   X2   K3   N1   C2
=====
Send   12   0   b   aa   aa   0   0   2
Receive ff   f8   b   aa   aa   0   0   2
Expect --   --   --   --   --   --   --   4
J0 CRC Mode : enable
Send      J0 :   1
Receive   J0 :   1
Expect    J0 :   1

J1 CRC Mode : disable
Send      J1(Char) :  bababbb
Receive   J1(Char) :  bababbb
Expect    J1(Char) :
Send      J1(Bytes) : 80 62 61 62 61 62 62 62 0 0 0 0 0 0 0 0
Receive   J1(Bytes) : 80 62 61 62 61 62 62 62 0 0 0 0 0 0 0 0
expect    J1(Bytes) : 80 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
    
```

Successfully Executed

#### 4.4.10 Setals

**【COMMAND】**

setals

**【FORMAT】**

setals <enable/disable> [mode]

**【EXPLANATION】**

Enable/Disable Auto Laser Shut, and configure Auto Laser Shut work mode, when ALS is enabled.

**【PARAMETERS】**

<enable/disable>: enable|disable.

[mode]:long|short (long:100 seconds ; short:12.5 seconds).

**【E.g.】**

```

device>setals enable short
Auto laser shut : Enable
Auto laser shut mode : 12.5 seconds (short)
Successfully Executed
    
```

#### 4.4.11 Showals

**【COMMAND】**

showals

**【FORMAT】**

showals

**【EXPLANATION】**

View Auto Laser Shut configuration of the optical ports.

**【PARAMETERS】**

None

**【E.g.】**

device>showals

Auto laser shut: Enable

ALS Mode : 12.5 seconds (short)

Successfully Executed

#### 4.4.12 Manualals

**【COMMAND】**

manualals

**【FORMAT】**

manualals <opt>

**【EXPLANATION】**

Manual laser restart when Auto Laser Shut is enabled.

**【PARAMETERS】**

<opt>: opta|optb.

**【E.g.】**

device>manualals opta

Manual laser restart on optical port A.

Successfully Executed

#### 4.4.13 Showoptddminfo

**【COMMAND】**

showoptddminfo

**【FORMAT】**

showoptddminfo

**【EXPLANATION】**

View the alarm limen and the working status of the opt .

**【PARAMETERS】**

None

**【E.g.】**

device>showddminfo

OPTICAL	WAVELENGTH	DISTANCE	CODE	
OPT_A	1310nm	40.0km	NRZ	
OPT_B	1310nm	40.0km	NRZ	

OPTICAL	TEMPERATURE	BIASCURRENT	TX_POWER	RX_POWER
OPT_A	46.594°C	2.90mA	-2.01dBm	-15.37dBm
OPT_B	44.875°C	2.75mA	-1.99dBm	-13.28dBm

Alarm Threshold:

OPTICAL	LTH	RPH	RPL	LPL
OPT_A	85.000°C	-10.00dBm	-34.46dBm	-5.00dBm
OPT_B	85.000°C	-10.00dBm	-34.46dBm	-4.97dBm

Successfully Executed

#### 4.4.14 Showoptalarm

**【COMMAND】**

showoptalarm

**【FORMAT】**

showoptalarm

**【EXPLANATION】**

View the alarm of optical ports.

**【PARAMETERS】**

None

**【E.g.】**

device>showoptalarm

OPT	NOP	RPD	TF	TD	LTH	RPH	RPL	LPL
OPT_A	--	--	--	--	--	--	--	--
OPT_B	--	--	--	--	--	--	--	--

OPT	OOF	LOF
OPT_A	--	--
OPT_B	--	--

OPT\_A -- --

OPT\_B -- --

OPT MS\_RDI MS-EXC MS-DEG MS-AIS AU-LOP AU-AIS AU-PJALARM LOM

=====

OPT\_A -- -- -- -- -- -- -- --

OPT\_B -- -- -- -- -- -- -- --

OPT HP\_UNEQ HP\_RDI HP\_PLM HP\_EXC HP\_DEG HP\_AIS

=====

OPT\_A -- -- -- -- -- --

OPT\_B -- -- -- -- -- --

Successfully Executed

#### 4.4.15 showvc4perform

**【COMMAND】**

showvc4perform

**【FORMAT】**

showvc4perform <opt> <recordID>

**【EXPLANATION】**

View the vc4 performance information.

**【PARAMETERS】**

<opt> : opta|optb.

<recordId> : 1 , the current 15min. information.

          : 2-17, 1st 15 min. interval to 16th 15 min.

          interval history information.

          : 18, current 24 hours information.

          : 19, history 24 hours information.

**【E.g.】**

device>showvc4perform opta 1

Perform record : 2009- 5 - 12 (Year-Month-Day) , 2 hour 12 minute 49 second

RS-B1 : EB = 7 , ES = 2 , SES = 0,UAS = 0

MS-B2 : EB = 8 , ES = 2 , SES = 0 , UAS = 0

MS-REI: EB =8 , ES =2 , SES =0 , UAS = 0

HOVC-B3: EB =0 , ES =0 , SES =0 , UAS = 90



HOVC-REI: EB =0 , ES =0 , SES =0 , UAS = 90  
 HOVC-PJE: 0  
 HOVC-NJE: 0

Successfully Executed

**4.4.16 Showoptalarmhistory**

**【COMMAND】**

showoptalarmhistory

**【FORMAT】**

showoptalarmhistory <optID> <alarmtype>

**【EXPLANATION】**

View the history alarm of optical port.

**【PARAMETERS】**

<optID> : opta|optb.

<alarmtype> : port|rs|ms|hp.

**【E.g.】**

device>showoptalarmhistory opta rs

Optical port A LOF alarms record:

Index	Occurred Time	Cleared Time
1	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
2	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
3	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
4	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
5	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
6	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0

Optical port A RS-TIM alarms record:

Index	Occurred Time	Cleared Time
1	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
2	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
3	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
4	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
5	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
6	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0

Time : Year-Month-Day, Hour-Minute-Second

Successfully Executed

## 4.5 E1 commands

### 4.5.1 Addxc

**【COMMAND】**

addxc

**【FORMAT】**

addxc <tu12number> <srcID> <startpathID> <dstID> <VCGID>  
 <startpathID> [type] [active]

**【EXPLANATION】**

Create cross-connect (XC) for service card.

**【PARAMETERS】**

- <tu12number>: 1-63.
- <srcID>: opta|optb.
- <startpathID>: 1-63.
- <dstID>: opta|optb|card1|card2|card3.
- <VCGID>: 0 (when dstID is E1 card of 8 E1, or opta, optb);  
 : 1 (when dstID is EOS card of 1 VCG);  
 : 1-4 (when dstID is EOS card of 4 VCG).
- <startpathID>: 1-63 (when dstID is opta or optb);  
 : 1-8 (when dstID is E1 card of 8 E1);  
 : 1-48 (when dstID is EOS card of 1 VCG);  
 : 1-63 (when dstID is EOS card of 4 VCG).
- [type]: 1+1|1+0, (valid when dstID == card1|card2|card3).
- [active]: enable|disable, (valid when dstID == card1|card2|card3).

**【E.g.】**

device>addxc 8 opta 1 card2 0 1 1+1 enable

SOURCE DESTINATION

INDEX OPT PATH SLOTID PATH TYPE ACTIVE PROTECTION STATUS PATH

```
=====
```

1	optA	1	2	1	1+1	enable	enable	added	--
2	optA	2	2	2	1+1	enable	enable	added	--
3	optA	3	2	3	1+1	enable	enable	added	--
4	optA	4	2	4	1+1	enable	enable	added	--

```

5  optA 5  2  5  1+1  enable  enable  added  --
6  optA 6  2  6  1+1  enable  enable  added  --
7  optA 7  2  7  1+1  enable  enable  added  --
8  optA 8  2  8  1+1  enable  enable  added  --
    
```

Successfully Executed

#### 4.5.2 Delxc

**【COMMAND】**

delxc

**【FORMAT】**

delxc <tu12number> <srcID> <startpathID> <dstID> <startpathID>

**【EXPLANATION】**

Delete cross-connect (XC) for service card.

**【PARAMETERS】**

- <tu12number>: 1-63.
- <srcID>: opta|optb.
- <startpathID>: 1-63.
- <dstID>: opta|optb|card1|card2|card3.
- <startpathID>: 1-63 (when dstID is opta or optb);
  - : 1-8 (when dstID is E1 card of 8 E1);
  - : 1-48 (when dstID is EOS card of 1 VCG);
  - : 1-63 (when dstID is EOS card of 4 VCG).

**【E.g.】**

device>delxc 4 opta 1 card2 1

SOURCE DESTINATION

INDEX OPT PATH SLOTID PATH TYPE ACTIVE PROTECTION STATUS PATH

=====

```

1  optA 1  2  1  1+1  enable  enable  deleted  --
2  optA 2  2  2  1+1  enable  enable  deleted  --
3  optA 3  2  3  1+1  enable  enable  deleted  --
4  optA 4  2  4  1+1  enable  enable  deleted  --
    
```

Successfully Executed

**4.5.3 Delallxc**

**【COMMAND】**

delallxc

**【FORMAT】**

delallxc

**【EXPLANATION】**

Delete all cross-connects.

**【PARAMETERS】**

None

**【E.g.】**

device>delallxc

All cross-connects has been deleted.

Successfully Executed

**4.5.4 Showxc**

**【COMMAND】**

showxc

**【FORMAT】**

showxc

**【EXPLANATION】**

View the cross-connect (XC) configuration and working status.

**【PARAMETERS】**

None

**【E.g.】**

device>showxc

Slot 2: 8 E1 Card does not exist

```

SOURCE DESTINATION

INDEX OPT PATH SLOTID PATH TYPE ACTIVE PROTECTION STATUS PATH
=====
1 optA 5 2 5 1+1 enable enable configured --
2 optA 6 2 6 1+1 enable enable configured --
3 optA 7 2 7 1+1 enable enable configured --
4 optA 8 2 8 1+1 enable enable configured --
    
```

Please press "Enter" to continue.....

Successfully Executed

#### 4.5.5 Setactive

**【COMMAND】**

setactive

**【FORMAT】**

setactive <cardID> <tu12number> <startpathID> <active>

**【EXPLANATION】**

Enable/Disable activity of the path.

**【PARAMETERS】**

<cardID>: card1|card2|card3.

<tu12number>: 1-63.

<startpathID>: 1-8 (when dstID is E1 card of 8 E1);

: 1-48 (when dstID is EOS card of 1 VCG);

: 1-63 (when dstID is EOS card of 4 VCG).

<active>: enable|disable.

**【E.g.】**

device>setactive card2 4 5 disable

TU12_ID	ACTIVE
=====	
5	Disable
6	Disable
7	Disable
8	Disable

Successfully Executed

#### 4.5.6 Setprotect

**【COMMAND】**

setprotect

**【FORMAT】**

setprotect <cardID> <tu12number> <startpathID> <protect>[mode]

**【EXPLANATION】**

Configure the protection status of the path.

**【PARAMETERS】**

<cardID>: card1|card2|card3.

<tu12number>: 1-63.

<startpathID>: 1-8 (when dstID is E1 card of 8 E1);

: 1-48 (when dstID is EOS card of 1 VCG);

: 1-63 (when dstID is EOS card of 4 VCG).

<protect>: enable|disable.

[mode]: auto|preferred|preferredb.(valid when protect == enable)

**【Note】**

This command is useful only when the type of protection switching is 1+1

**【E.g.】**

```
device>setprotect card2 4 5 enable preferredb
```

```
TU12_ID          PROTECTION    PROTECTION MODE
```

```
=====
```

```
5              Enable      Preferredb
6              Enable      Preferredb
7              Enable      Preferredb
8              Enable      Preferredb
```

Successfully Executed

#### 4.5.7 Setrecovertime

**【COMMAND】**

```
setrecovertime
```

**【FORMAT】**

```
setrecovertime <recovertime>
```

**【EXPLANATION】**

Configure the recovering time of protection.

**【PARAMETERS】**

<recovertime>: 1-10 min

**【E.g.】**

```
device>setrecovertime 5
```

Recover Time : 5 min

Successfully Executed!

#### 4.5.8 Showrecovertime

**【COMMAND】**

```
showrecovertime
```

**【FORMAT】**

```
showrecovertime
```

**【EXPLANATION】**

View the recovering time of protection.

**【PARAMETERS】**

None

**【E.g.】**

```
device> showrecoverytime
```

```
Recover Time: 5 min
```

```
Successfully Executed
```

**4.5.9 switchtu12****【COMMAND】**

```
switchtu12
```

**【FORMAT】**

```
switchtu12 <cardID> <tu12number> <startpathID> <operatedir>
```

**【EXPLANATION】**

Manually configure the switching criteria.

**【PARAMETERS】**

<cardID>: card1|card2|card3.

<tu12number>: 1-63.

<startpathID>: 1-8 (when dstID is E1 card of 8 E1);

: 1-48 (when dstID is EOS card of 1 VCG);

: 1-63 (when dstID is EOS card of 4 VCG).

<operatedir>: forcea|forceb.

**【Note】**

This command is useful only when the type of protection switching is 1+1 and the "PROTECT" is disabled.

Preferred a: Optical link will switch to optical port a if OPTA links are available

Preferred b: Optical link will switch to optical port b if OPTB links are available

Force a: optical link will remain or switch to optical port a whether optical port a is available or not

Force b: optical link will remain or switch to optical port b whether optical port b is available or not

Auto: Optical link will switch to other optical port only if current optical link is not available

(current switching)

**【E.g.】**

```
device> switchtu12 card2 4 5 forceb
```

```
TU12_ID          MANUAL SWITCH
```

```
=====
```

```
5                Forceb
```

```
6                Forceb
```

7 Forceb  
8 Forceb

Successfully Executed

#### 4.5.10 Showactive

##### 【COMMAND】

showactive

##### 【FORMAT】

showactive

##### 【EXPLANATION】

View if the path is configured as active or not.

##### 【PARAMETERS】

None

##### 【E.g.】

device>showactive

Slot 2: 8 E1 Card does not exist.

INDEX	SLOTID	PATH	ACTIVE
1	2	5	disabled
2	2	6	disabled
3	2	7	disabled
4	2	8	disabled

=====

1	2	5	disabled
2	2	6	disabled
3	2	7	disabled
4	2	8	disabled

Please press "Enter" to continue.....

Successfully Executed

#### 4.5.11 Showprotect

##### 【COMMAND】

showprotect

##### 【FORMAT】

showprotect

##### 【EXPLANATION】



View the protection status of the path.

**【PARAMETERS】**

None

**【E.g.】**

device>showprotect

Slot 2: 8 E1 Card does not exist.

INDEX	SLOTID	PATH	PROTECTION	PROTECTION MODE
1	2	5	enable	Preferredb
2	2	6	enable	Preferredb
3	2	7	enable	Preferredb
4	2	8	enable	Preferredb

Please press "Enter" to continue.....

Successfully Executed

#### 4.5.12 Showswitch

**【COMMAND】**

showswitch

**【FORMAT】**

showswitch <cardId>

**【EXPLANATION】**

View if path is configured to manual protection mode.

**【PARAMETERS】**

<cardId>: card1|card2|card3.

**【E.g.】**

device>showswitch card2

PATH_ID	OPT_TU12ID	MANUAL_OPERATE
1	5	--
2	6	--
3	7	--
4	8	--

Successfully Executed

**4.5.13 showe1alarm**

**【COMMAND】**

showe1alarm

**【FORMAT】**

showe1alarm <cardID>

**【EXPLANATION】**

View E1 tributary alarms.

**【PARAMETERS】**

<cardID> : card1|card2.

**【E.g.】**

device>showe1alarm card2

E1 Interface Alarm Information :

E1	LOS
1	alarm
2	alarm
3	alarm
4	alarm
5	alarm
6	alarm
7	alarm
8	alarm

Please press "Enter" to continue.....

Bus A Alarm Information :

E1 TU-PJALM TU-LOP LP-RDI LP-PLM LP-UNEQ TU-AIS

E1	TU-PJALM	TU-LOP	LP-RDI	LP-PLM	LP-UNEQ	TU-AIS
1	--	--	--	--	--	--
2	--	--	--	--	--	--
3	--	--	--	--	--	--
4	--	--	--	--	--	--
5	--	--	--	--	--	--
6	--	--	--	--	--	--
7	--	--	--	--	--	--
8	--	--	--	--	--	--

Please press "Enter" to continue.....

Bus B Alarm Information :

E1 TU-PJALM TU-LOP LP-RDI LP-PLM LP-UNEQ TU-AIS

```
=====
1  --  --  --  --  --  --
2  --  --  --  --  --  --
3  --  --  --  --  --  --
4  --  --  --  --  --  --
5  --  --  --  --  --  --
6  --  --  --  --  --  --
7  --  --  --  --  --  --
8  --  --  --  --  --  --
```

Successfully Executed

#### 4.5.14 showtu12perform

**【COMMAND】**

showtu12perform

**【FORMAT】**

showtu12perform <cardID> <tu12ID> <recordID>

**【EXPLANATION】**

View TU12 performance information.

**【PARAMETERS】**

- <cardID> : card1|card2|card3.
- <tu12ID> : 1-8 : valid when cardID is card1 or card2;  
: 1-63 (when dstID is EOS card of 4 VCG).
- <recordID> : 1, current 15min. information;  
: 2-17, 1st 15 min. interval to 16th 15 min.  
interval history information;  
: 18, current 24 hours information;  
: 19, history 24 hours information.

**【E.g.】**

device>showtu12perform card2 1 1

Perform record : 2011- 2 - 9 (Year-Month-Day) , 10 hour 4 minute 56 second :

BUSA\_V5 : EB = 0 , ES = 0 ,SES = 0,UAS = 0

BUSA\_REI: EB = 0 , ES = 0 , SES = 0 , UAS = 0

BUSA\_PPJ: 0

BUSA\_NPJ: 0

```
BUSB_V5 : EB = 0 , ES = 0 ,SES = 0,UAS = 0
BUSB_REI: EB = 0 , ES = 0 , SES = 0 , UAS = 0
BUSB_PPJ: 0
BUSB_NPJ: 0
PPI_CV : EB = 0 , ES = 0 ,SES = 0,UAS = 0
Successfully Executed!
```

#### 4.5.15 showe1alarmhistory

##### 【COMMAND】

```
showe1alarmhistory
```

##### 【FORMAT】

```
showe1alarmhistory <cardID> <e1ID> <alarmtype>
```

##### 【EXPLANATION】

View E1 tributary alarm history.

##### 【PARAMETERS】

<cardID> : card1|card2.

<e1ID> : 1-8.

<alarmtype> : port|busa|busb.

##### 【E.g.】

```
device>showe1alarmhistory card2 1 port
```

Card\_2 E1 1 LOS alarm records :

Index	Occurred Time	Cleared Time
1	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
2	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
3	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
4	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
5	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
6	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0

Time : Year-Month-Day, Hour-Minute-Second  
Successfully Executed

## 4.6 EOS commands

### 4.6.1 Setvcg

##### 【COMMAND】

```
setvcg
```

**【FORMAT】**

setvcg <VCGID> <PFI> <EXI> <LCAS>

**【EXPLANATION】**

Configure VCG protocol information of MSTP.

**【PARAMETERS】**

<VCGID> : 1-4.

<PFI> : enable|disable.

<EXI> : linear|null.

<LCAS> : enable|disable.

**【E.g.】**

```
device>setvcg 1 enable linear enable
VCG ID: 1
PFI: Enable
EXI: Linear
LCAS: Enable
Successfully Executed
```

**4.6.2 setv5k4****【COMMAND】**

setv5k4

**【FORMAT】**

setv5k4 <vcgld> <v5> <k4>

**【EXPLANATION】**

Configure transmit and expect value of V5 , K4 in VCG.

**【PARAMETERS】**

<vcgld>: 0-4.

0: valid when EOS card is x4014 or xs011.The value of V5 , K4 are same in all vcgs.

1-4: valid when EOS card is xs020.

1-max: refer to 'showsysinfo' for max VCG number.

<v5>: v5 value(Hex format e.g. 0x01).

<k4>: k4 value(Hex format e.g. 0x01).

**【E.g.】**

```
device>setv5k4 1 0x11 0x22
VCG 1 : V5 = 0x11 ; K4 = 0x22
Successfully Executed
```

**4.6.3 showvcg****【COMMAND】**

showvcg

**【FORMAT】**

showvcg

**【EXPLANATION】**

View VCG protocol information of MSTP.

**【PARAMETERS】**

None

**【E.g.】**

device&gt;showvcg

VCG_ID	ENCAPSULATION	PFI	EXI	LCAS	V5	K4
1	GFP	Enable	linear	Enable	0x11	0x22
2	GFP	Disable	null	Enable	0xa	0xd
3	GFP	Disable	null	Enable	0xa	0xd
4	GFP	Disable	null	Enable	0xa	0xd

```
=====
1      GFP      Enable  linear  Enable  0x11  0x22
2      GFP      Disable null    Enable  0xa   0xd
3      GFP      Disable null    Enable  0xa   0xd
4      GFP      Disable null    Enable  0xa   0xd
```

Successfully Executed

**4.6.4 Showvcat****【COMMAND】**

showvcat

**【FORMAT】**

showvcat

**【EXPLANATION】**

View the SQ, CTRL of VCAT members.

**【PARAMETERS】**

None

**【E.g.】**

device&gt;showvcat

PATH_ID	TX_SQ	TX_CTRL	RX_SQ	RX_CTRL
1	0	f	3f	5
2	1	f	3f	5
3	2	f	3f	5
4	3	f	3f	5

```
=====
1      0      f      3f      5
2      1      f      3f      5
3      2      f      3f      5
4      3      f      3f      5
```

5	4	f	3f	5
6	5	f	3f	5
7	6	f	3f	5
8	7	f	3f	5
9	8	f	3f	5
10	9	f	3f	5
11	a	f	3f	5
12	b	f	3f	5
13	c	f	3f	5

CTRL: 0-LCAS Disable, 1-Add, 2-Normal, 3-Normal (EoQ) End of Queue, 5-Idle, F-DNU

SQ : LCAS protocol is defined in ITU-T G.7042,SQ means sequence, indication segment,1-3E denotes the effective number in the sequence, 3F denotes that is not loaded into the sequence.

Please press "Enter" to continue.....

#### 4.6.5 Enableeth

##### 【COMMAND】

enableeth

##### 【FORMAT】

enableeth <ethID> <enable|disable>

##### 【EXPLANATION】

Enable/disable Ethernet port

##### 【PARAMETERS】

ethID>: 1-4, valid when EOS card is x4014 or xs011. Port(1-4) is LAN port.

1-6, valid when EOS card is xs020 . Port(1-2) is LAN port,

Port(3-6) is WAN port.

1-max: refer to 'showsysinfo' for max Ethernet number.

<enable|disable>: enable|disable.

##### 【E.g.】

device>enableeth 2 disable

Ethernet port 2 : Disable

Successfully Executed

#### 4.6.6 Setportmode

##### 【COMMAND】

```
setportmode
```

**【FORMAT】**

```
setportmode <ethID> <mode>
```

**【EXPLANATION】**

Configure Ethernet port mode.

**【PARAMETERS】**

<ethID>: 1-4, valid when EOS card is x4014 or xs011. Port(1-4) is LAN port.

1-6, valid when EOS card is xs020 . Port(1-2) is LAN port, Port(3-6) is WAN port.

1-max: refer to 'showsysinfo' for max Ethernet number.

<mode>: access | trunk | hybrid.

**【E.g.】**

```
device>setportmode 3 trunk
Ethernet port 3 mode: trunk
Successfully Executed
```

#### 4.6.7 Seteth

**【COMMAND】**

```
seteth
```

**【FORMAT】**

```
seteth <ethID> <flow> [auto][speed][duplex]
```

**【EXPLANATION】**

Configure auto-negotiation, speed, duplex mode, and flow control of Ethernet port.

**【PARAMETERS】**

<ethID>: 1-4, valid when EOS card is x4014 or xs011. Port(1-4) is LAN port.

1-6, valid when EOS card is xs020 . Port(1-2) is LAN port, Port(3-6) is WAN port.

1-max: refer to 'showsysinfo' for max Ethernet number.

<flow>: enable | disable.

\*Invalid parameters as follow when EOS card is xs020 and port is WAN port.

[auto]: enable | disable.

[speed]: 10 | 100 |1000, (effective if auto==disabled).

[duplex]: full | half, (effective if auto==disabled).

**【E.g.】**

```
device>seteth 1 enable disable 100 half
```



```

ETH_ID  AUTO  SPEED  DUPLEX  FLOW
=====
1      disabled  100    half    enable
Successfully Executed
    
```

**4.6.8 Showeth**

**【COMMAND】**

showeth

**【FORMAT】**

showeth

**【EXPLANATION】**

View Ethernet port configuration and working status, including port ID, auto-negotiation, speed, duplex mode, and flow control.

**【PARAMETERS】**

None

**【E.g.】**

device>showeth

CONFIGURED SETTINGS

CURRENT-STATUS

```

ETH_ID AUTO SPEED DUPLEX FLOW -- ENABLE STATUS SPEED DUPLEX
=====
1  Disable 100  Half   Enable -- Enable Unlink  --  --
2  Enable  --  --    Enable -- Enable Unlink  --  --
3  Enable  --  --    Enable -- Enable Unlink  --  --
4  Enable  --  --    Enable -- Enable Unlink  --  --
5  Disable 100  Full   Enable -- Enable Link    100  Full
6  Disable 100  Full   Enable -- Enable Link    100  Full
7  Disable 100  Full   Enable -- Enable Link    100  Full
8  Disable 100  Full   Enable -- Enable Link    100  Full
    
```

```

ETH_ID  MODE  VLAN ID  PORT MEMBERS  VLAN PRIORITY
=====
1      Hybrid  1      1,5          0
2      Hybrid  1      2,6          0
3      Trunk   1      3,7          0
4      Hybrid  1      4,8          0
5      Hybrid  1      1,5          0
    
```

6	Hybrid	1	2,6	0
7	Hybrid	1	3,7	0
8	Hybrid	1	4,8	0

Successfully Executed

#### 4.6.9 Setporttable

##### 【COMMAND】

setporttable

##### 【FORMAT】

setporttable <ethID> <port-members>

##### 【EXPLANATION】

Configure port based VLAN members of Ethernet port.

##### 【PARAMETERS】

<ethID>: 1-4, valid when EOS card is x4014 or xs011. Port(1-4) is LAN port.

1-6, valid when EOS card is xs020 . Port(1-2) is LAN port, Port(3-6) is WAN port.

1-max: refer to 'showsysinfo' for max ethernet numbe.

<port-members>:1,2,3,4,5,6. e.g.(1,2,5:vlan member include 1,2,and 5).

x4014 card : LAN port 1,2,3,4 ; WAN port 5.

xs020 card : LAN port 1,2 ; WAN port 3,4,5,6 .

Other card: refer to 'showsysinfo' for max Ethernet numbe

##### 【E.g.】

device>setporttable 3 2,3,5

ETH ID MEMBERS

=====

3 2,3,5

Successfully Executed

#### 4.6.10 Envlan

##### 【COMMAND】

envlan

##### 【FORMAT】

envlan

##### 【EXPLANATION】

Enable 802.1Q VLAN mode.

##### 【PARAMETERS】

None

**【Note】**

This command is not available for XS060, if you want to set 802.1Q VLAN for XS060, the command "setvlanmode" is the only way.

**【E.g.】**

```
device>envlan
802.1Q VLAN mode: Enable
Successfully Executed
```

**4.6.11 Disvlan****【COMMAND】**

disvlan

**【FORMAT】**

disvlan

**【EXPLANATION】**

Disable 802.1Q VLAN mode.

**【PARAMETERS】**

None

**【Note】**

This command is not available for XS060, if you want to set 802.1Q VLAN for XS060, the command "setvlanmode" is the only way.

**【E.g.】**

```
device>disvlan
802.1Q VLAN mode: Disable
Successfully Executed
```

**4.6.12 Addvlan****【COMMAND】**

addvlan

**【FORMAT】**

addvlan <VLAN-ID> <VLAN-members>

**【EXPLANATION】**

Add new VLAN to VLAN table.

**【PARAMETERS】**

<VLAN-ID>: 1-4094.

xs060 card :

e.g. 1

e.g. 1-100

e.g. 1,2,3

e.g. 1,2,3,5-100

<VLAN-members>:1,2,3,4,5,6. e.g.(1,2,5 : vlan member include 1,2,and 5)

x4014 card : LAN port 1,2,3,4 ; WAN port 5 .

xs020 card : LAN port 1,2 ; WAN port 3,4,5,6 .

Other card: refer to 'showsysinfo' for max Ethernet number.

#### **【Note】**

For XS060 card, the VLAN ID can be 1~4094, you can type single number for the parameter "VLAN-ID" , e.g. 1/2/... , to add new VLAN to VLAN table one by one, you can also type such as 1-50, or 1,2,3 or 1,2,3,5-100 for the parameter "VLAN-ID" to add new VLAN to VLAN table batch by batch.

#### **【E.g.】**

```
device>addvlan 2 2,3,4,5
```

```
INDEX  VLAN-ID  VLAN-MEMBERS
```

```
=====
```

```
2      2      2,3,4,5
```

Successfully Executed

#### **4.6.13 Delvlan**

##### **【COMMAND】**

```
delvlan
```

##### **【FORMAT】**

```
delvlan <VLAN-ID>
```

##### **【EXPLANATION】**

Delete VLAN from VLAN table.

##### **【PARAMETERS】**

<VLAN-ID>: 1-4094.

xs060 card :

e.g. 1

e.g. 1-100

e.g. 1,2,3

e.g. 1,2,3,5-100

#### **【E.g.】**

```
device>delvlan 1
```

vlan\_1 has been deleted successfully

Successfully Executed

**4.6.14 Setpvid****【COMMAND】**

```
setpvid
```

**【FORMAT】**

```
setpvid <ethID> <VLAN-ID> <VLAN-priority>
```

**【EXPLANATION】**

Configure Ethernet port VLAN ID and VLAN priority.

**【PARAMETERS】**

<ethID>: 1-4, valid when EOS card is x4014 or xs011. Port(1-4) is LAN port.

1-6, valid when EOS card is xs020 . Port(1-2) is LAN port, Port(3-6) is WAN port.

1-max: refer to 'showsysinfo' for max Ethernet number.

<VLAN-ID>: 1-4094.

<VLAN-priority>: 0-7.

**【E.g.】**

```
device>setpvid 4 4 3
```

```
Ethernet port 4 VID: 4
```

```
Ethernet port 4 VLAN priority: 3
```

```
Successfully Executed
```

**4.6.15 Showvlan****【COMMAND】**

```
showvlan
```

**【FORMAT】**

```
showvlan
```

**【EXPLANATION】**

View VLAN table, VLAN ID, VLAN members and VLAN status.

**【PARAMETERS】**

None

**【E.g.】**

```
device>showvlan
```

```

INDEX      VLAN ID      VLAN MEMBERS
=====
  2         2          2,3,4,5
802.1Q VLAN mode: Disable
Successfully Executed
```

**4.6.16 Showeosalarm**

**【COMMAND】**

showeosalarm

**【FORMAT】**

showeosalarm

**【EXPLANATION】**

View EOS alarms.

**【PARAMETERS】**

None

**【E.g.】**

device>showeosalarm

ETH ID LINK-DOWN

=====

1	alarm
2	alarm
3	alarm
4	alarm

VCG ID GFP-LOF LINE\_MACLOOP LOLOA-AIIVT RLOLCAS-GIDM

=====

1	alarm	--	--	--
2	--	--	--	--
3	--	--	--	--
4	--	--	--	--

Please press "Enter" to continue.....

Bus\_A Alarm Information :

E1 TU-AIS TU-LOP LP-UNEQ LP-RDI LP-PLM LP-AIS K4B1-LOM K4B1-PLM

=====

1	alarm	--	--	--	--	--	--
2	alarm	--	--	--	--	--	--
3	alarm	--	--	--	--	--	--
4	alarm	--	--	--	--	--	--

Please press "Enter" to continue.....

**4.6.17 Showeosalarmhistory**

**【COMMAND】**

showeosalarmhistory

**【FORMAT】**

showeosalarmhistory <ld> <alarmtype>

**【EXPLANATION】**

View the alarm history of EOS.

**【PARAMETERS】**

<ld> : 1-63 (TU12 information ,when card3 is EOS card of 4 vcgs) .

: 1-48 (TU12 information , when card3 is EOS card of 1 vcg) .

: 1-4 (ethernet information) .

<alarmtype> : eth|busa|busb .

**【E.g.】**

device>showeosalarmhistory 1 busa

Card\_3 TU12 1 BUSA-TU-AIS alarm records :

Index	Occurred Time	Cleared Time
1	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
2	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
3	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
4	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
5	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
6	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0

Card\_3 TU12 1 BUSA-TU-LOP alarm records :

Index	Occurred Time	Cleared Time
1	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
2	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
3	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
4	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
5	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
6	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0

Time : Year-Month-Day, Hour-Minute-Second

Please press "Enter" to continue.....

#### 4.6.18 Showethperform

**【COMMAND】**

showethperform

**【FORMAT】**

showethperform <ID> <recordID>

**【EXPLANATION】**

View Ethernet port performance.

**【PARAMETERS】**

<ID> : 1-6 , Ethernet port 1-6.

: 7-10 , VCG 1-4.

1-max: refer to 'showsysinfo' for max Ethernet number.

<recordID> : 1, current 15min. information;

: 2-17, 1st 15 min. interval to 16th 15 min.

interval history information;

: 18, current 24 hours information;

: 19, history 24 hours information.

**【E.g.】**

device>showethperform 1 1

Perform record : 2011- 2 - 9 (Year-Month-Day) , 12 hour 57 minute 14 second :

RX-ALLPACKETS : 0 , 0

RX-ALLBYTES : 0 , 0

RX-DROPPACKETS : 0 , 0

TX-ALLPACKETS : 0 , 0

TX-ALLBYTES : 0 , 0

RX-DROPBYTES : 0 , 0

RX-ERRORPACKETS : 0 , 0

Description :

Perform\_Counter (H32) , (L32) = (H32) << 32 |(L32) ;

H32 : High 32 bits; L32 : low 32 bits

#### 4.6.19 Clearperform

**【COMMAND】**

clearperform

**【FORMAT】**

clearperform <opt|cardID>

**【EXPLANATION】**

Clear the performance of E1, Ethernet and optical ports.

**【PARAMETERS】**

<opt|cardID> : opta|optb|card1|card2|card3|all.

**【E.g.】**

device>clearperform all

All performance counters cleared.



Successfully Executed

#### 4.6.20 clearalarmhistory

##### 【COMMAND】

```
clearalarmhistory
```

##### 【FORMAT】

```
clearalarmhistory <opt|cardID>
```

##### 【EXPLANATION】

Clear the alarm history.

##### 【PARAMETERS】

<opt|cardID> : opta|optb|card1|card2|card3|all.

##### 【Note】

After carrying out “clearalarmhistory all”. the alarm history of current SEC and EXM/ETS have be cleared.

##### 【E.g.】

```
device>clearperform all
```

All performance counters cleared.

Successfully Executed

#### 4.6.21 Setmacage

##### 【COMMAND】

```
setmacage
```

##### 【FORMAT】

```
setmacage <enable|disable><time>
```

##### 【EXPLANATION】

Configure the MAC address lookup table aging function.

##### 【PARAMETERS】

<enable|disable>: enable | disable.

<time> : 12|300 (Second). MAC address lookup table age time.

##### 【E.g.】

```
device>setmacage enable 12
```

MAC Table aging : Enable

MAC Table aging timer: 12 seconds

Successfully Executed

#### 4.6.22 Setstormfilter

**【COMMAND】**

setstormfilter

**【FORMAT】**

setstormfilter <enable|disable>

**【EXPLANATION】**

Enable/disable broadcast storm filtering function.

**【PARAMETERS】**

<enable|disable>: enable | disable.

**【E.g.】**

```
device>setstormfilter disable
```

```
Ethernet broadcast storm filter : Disable
```

```
Successfully Executed
```

#### 4.6.23 Setmaxpacket

**【COMMAND】**

setmaxpacket

**【FORMAT】**

setmaxpacket <packet size>

**【EXPLANATION】**

Configure the maximum packet size (1536 or 1552 bytes).

**【PARAMETERS】**

<packet size>: 1536 | 1552 .

**【E.g.】**

```
device>setmaxpacket 1536
```

```
Undefined command
```

```
device>Ethernet maximum packet size: 1536 bytes
```

#### 4.6.24 Setethloop

**【COMMAND】**

setethloop

**【FORMAT】**

setethloop <ethld><loop|unloop>

**【EXPLANATION】**

Configure the Loop-back of Ethernet port.

**【PARAMETERS】**

<ethld>: 1-2. valid when EOS card is XS020 or XS030.

<loop|unloop>: loop | unloop.

**【E.g.】**

```
device>setethloop 1 loop
Ethernet port 1: Loop
Successfully Executed
```

#### 4.6.25 Setethals

**【COMMAND】**

setethals

**【FORMAT】**

setethals <alsenable> [mode]

**【EXPLANATION】**

Enable/Disable Auto Laser Shut, and configure Auto Laser Shut work mode, when ALS is enabled.

**【PARAMETERS】**

<alsenable>: enable|disable.

[mode]: long|short. long:100s ; short:12.5s

**【E.g.】**

```
device>setethals enable long
Ethernet optical ALS: Enable
Ethernet optical ALS interval: 100 seconds
Successfully Executed
```

#### 4.6.26 Manualethals

**【COMMAND】**

manualethals

**【FORMAT】**

manualethals

**【EXPLANATION】**

Manual laser restart of Ethernet port when Auto Laser Shut is enabled.

**【PARAMETERS】**

None

**【E.g.】**

```
device>manualethals
Manual Ethernet optical laser restart successfull
Successfully Executed
```

#### 4.6.27 setperformmode

**【command】**

setperformmode

**【FORMAT】**

setperformmode <mode>

**【EXPLANATION】**

Configure Ethernet port performance count mode (packets or bytes).

**【PARAMETERS】**

<mode>: packets |bytes

**【E.g.】**

```
device>setperformmode bytes
Ethernet performance count mode: bytes
Successfully Executed
```

#### 4.6.28 Showmacage

**【COMMAND】**

showmacage

**【FORMAT】**

showmacage

**【EXPLANATION】**

View the aging timer of MAC address lookup table.

**【PARAMETERS】**

None

**【E.g.】**

```
device>showmacage
MAC Table aging timer: 12 seconds
Successfully Executed
```

#### 4.6.29 Showstormfilter

**【COMMAND】**

showstormfilter

**【FORMAT】**

showstormfilter

**【EXPLANATION】**

View the configuration of broadcast storm filtering function.

**【PARAMETERS】**

None

**【E.g.】**

```
device>showstormfilter
Ethernet broadcast storm filter : Disable
Successfully Executed
```

#### 4.6.30 Showmaxpacket

**【COMMAND】**

showmaxpacket

**【FORMAT】**

showmaxpacket

**【EXPLANATION】**

View maximum packet size configured (1536 or 1552 bytes).

**【PARAMETERS】**

None

**【E.g.】**

```
device>showmaxpacket
Ethernet maximum packet size: 1536 bytes
Successfully Executed
```

#### 4.6.31 Showethloop

**【COMMAND】**

showethloop

**【FORMAT】**

showethloop

**【EXPLANATION】**

View the Ethernet port Loop-back status.

**【PARAMETERS】**

None

**【E.g.】**

```
device>showethloop
ETH_ID  LOOP
=====
1      loop
Successfully Executed
```

#### 4.6.32 Showethals

**【COMMAND】**

showethals

**【FORMAT】**

showethals

**【EXPLANATION】**

View Auto Laser Shut configuration of the Ethernet optical port.

**【PARAMETERS】**

None

**【E.g.】**

device>showethals

Ethernet optical ALS: Enable

ALS Mode: Long (100 seconds)

Successfully Executed

#### 4.6.33 Showperformmode

**【COMMAND】**

showperformmode

**【FORMAT】**

showperformmode

**【EXPLANATION】**

View Ethernet port performance count mode (packets or bytes).

**【PARAMETERS】**

None

**【E.g.】**

device>showperformmode

Ethernet performance count mode: bytes

Successfully Executed

#### 4.6.34 Showethddminfo

**【COMMAND】**

showddminfo

**【FORMAT】**

showddminfo

**【EXPLANATION】**

View the alarm threshold and the working status of the Ethernet Optical port.

**【PARAMETERS】**

None

**【E.g.】**

device>showethddminfo

```

OPT    WAVELENGTH    DISTANCE    CODE
=====
ETH_1  1310nm        10.0km     8B10B

OPT    TEMPERATURE  BIASCURRENT TX_POWER  RX_POWER
=====
ETH_1  25.742°C      0.27mA     -36.41dBm  --
    
```

Alarm Threshold:

```

OPT    LTH    RPH    RPL    LPL
=====
ETH_1  85.000°C  6.90dBm  -50.67dBm  -24.22dBm
    
```

Successfully Executed

## 4.7 EOS commands only for XS060

### 4.7.1 setvlanmode

**【COMMAND】**

setvlanmode

**【FORMAT】**

setvlanmode <vlanMode>

**【EXPLANATION】**

Configure VLAN mode.

**【PARAMETERS】**

<vlanMode>: disable|802.1q|qinq

### 4.7.2 setqinqtpid

**【COMMAND】**

setqinqtpid

**【FORMAT】**

setqinqtpid <value>

**【EXPLANATION】**

Configure Tag Protocol Identifier of QINQ.

**【PARAMETERS】**

<value>:0x0000-0xffff

xs060 card : 0x8100 is invalid.

**4.7.3 setqinqport****【COMMAND】**

setqinqport

**【FORMAT】**

setqinqport <port-members> <portMode>

**【EXPLANATION】**

Configure QINQ ports.

**【PARAMETERS】**

<port-members>:1,2,3,...,max e.g(1,2,5:vlan members include 1,2 and 5)  
refer to 'showsysinfo' for max Ethernet number.

<portMode>:uplink |customer

uplink:Configure the ports as Uplink ports

customer:Configure the ports as customer ports.

Note: 'Uplink' and 'customer' are used to make a distinction between  
802.1q tag and qinq tag when QINQ Tag Protocol Identifier=0x8100.

'Customer' will consider the 0x8100 tag as 802.1q tag,

'uplink' will consider the 0x8100 tag as qinq tag

**4.7.4 setporttag****【COMMAND】**

setporttag

**【FORMAT】**

setporttag <ethID> <VIDs> <tag-mode>

**【EXPLANATION】**

Configure tag on the packet of Ethernet port.

**【PARAMETERS】**

<ethID>:1-max: refer to 'showsysinfo' for max Ethernet number.

<VIDs>:1-4094,Vlan IDs to set

<tag-mode>:tag|untag.

**4.7.5 showqinq****【COMMAND】**



```
showqinq
```

**【FORMAT】**

```
showqinq
```

**【EXPLANATION】**

View the configuration of QINQ.

**【PARAMETERS】**

None

**【E.g.】**

```
device>showqinq
```

```
QINQ TPID : 0x9100 ;
```

```
PORT_ID  QINQ_PORT_MODE
```

```
=====
```

```
1      customer
```

```
2      customer
```

```
3      customer
```

#### 4.7.6 showporttag

**【COMMAND】**

```
Showporttag
```

**【FORMAT】**

```
showporttag
```

**【EXPLANATION】**

View tag information of Ethernet ports

**【PARAMETERS】**

None

**【E.g.】**

```
device>showporttag
```

```
PORT_ID  VLAN_MODE  VIDs  TAG
```

```
1      hybrid      1      untag
```

```
2      hybrid      1      untag
```

```
3      hybrid      1      untag
```

Successfully Executed!

## 4.8 ETS/EXM commands

### 4.8.1 Setets

**【COMMAND】**

setets

**【FORMAT】**

setets <etsId> <enable|disable>

**【EXPLANATION】**

Configure the application Enable/Disable of ETS 1, ETS 2.

**【PARAMETERS】**

<etsId> : 1-2 .

<enable|disable> : enable|disable.

**【E.g.】**

```
device>setets 1 disable
```

```
ETS 1 mode : Disable
```

```
EXM 1 has been configured in "EXM-IN" mode!
```

```
Successfully Executed
```

### 4.8.2 Showets

**【COMMAND】**

showets

**【FORMAT】**

showets

**【EXPLANATION】**

View the application Enable/Disable of ETS 1, ETS 2.

**【PARAMETERS】**

None

**【E.g.】**

```
device>showets
```

```
ETS 1 (T31/T41) : Disable
```

```
EXM 1 mode : "EXM-IN"
```

```
ETS 2 (T32/T42) : Enable
```

```
Successfully Executed
```

### 4.8.3 Setexm

**【COMMAND】**

setexm

**【FORMAT】**

```
setexm <exmlD> <enable|disable> [direction]
```

**【EXPLANATION】**

Configure the application mode of EXM 1 , EXM 2.

**【PARAMETERS】**

<exmlD> : 1-2 .

<enable|disable> : enable|disable.

[direction] : in|out.

Successfully Executed

**【E.g.】**

```
device>setexm 1 enable out
```

```
EXM 1 mode : "EXM-OUT"
```

Successfully Executed

**4.8.4 Showexm****【COMMAND】**

```
showexm
```

**【FORMAT】**

```
showexm
```

**【EXPLANATION】**

View the application Enable/Disable of EXM 1, EXM 2.

**【PARAMETERS】**

None

**【E.g.】**

```
device>showexm
```

```
EXM 1 mode : "EXM-OUT"
```

```
EXM 2 mode : Disable
```

```
ETS 2 (T32/T42) : Enable
```

Successfully Executed!

**4.8.5 Addexmxc****【COMMAND】**

```
addexmxc
```

**【FORMAT】**

```
addexmxc <srcID> <startpathID> <exmlD> <active> <type> [protectEnable]
```

**【EXPLANATION】**

Create cross-connect (XC) of the EXM path in "EXM\_IN " mode.

**【PARAMETERS】**

<srcID>: opta|optb.

<pathID>: 1-63.

<exmlD>: 1-2.

<active>: enable|disable.

<type>: 1+1|1+0.

[protectEnable] : enable|disable. (valid when type = 1+1).

Successfully Executed

**【E.g.】**

device>addexmxc opta 1 1 enable 1+1 enable

INDEX	OPT	PATH	EXM_ID	STATUS	ACTIVE	TYPE	PROTECTION	PATH
1	optA	1	1	added	enable	1+1	enable	--

Successfully Executed

#### 4.8.6 Delexmxc

**【COMMAND】**

delexmxc

**【FORMAT】**

delexmxc <exmlD>

**【EXPLANATION】**

Delete cross-connect (XC) of EXM path in "EXM\_IN " mode.

**【PARAMETERS】**

None

**【E.g.】**

device>delexmxc 1

EXM1 cross-connects has been deleted.

Successfully Executed

#### 4.8.7 Showexmxc

**【COMMAND】**

showexmxc

**【FORMAT】**

showexmxc

**【EXPLANATION】**

View cross-connect (XC) status of EXM path in "EXM\_IN" mode.

**【PARAMETERS】**

None

**【E.g.】**

device>showexmxc

```

INDEX OPT PATH EXM_ID STATUS ACTIVE TYPE PROTECTION PATH
=====
1 optA 1 1 configured enable 1+1 enable optA

```

Successfully Executed

#### 4.8.8 Showexmalarm

**【COMMAND】**

showexmalarm

**【FORMAT】**

showexmalarm

**【EXPLANATION】**

View the EXM alarm information.

**【PARAMETERS】**

None

**【E.g.】**

device>showexmalarm

```

LOS AIS LOF LOMF RAL RAL_CRC LAL_CRC
=====
1 alarm -- -- -- -- -- --

```

Successfully Executed

#### 4.8.9 Showexmalarmhistory

**【COMMAND】**

showexmalarmhistory

**【FORMAT】**

showexmalarmhistory

**【EXPLANATION】**

View EXM alarm history.

**【PARAMETERS】**

None

**【E.g.】**

device>showexmalarmhistory

Device EXM 1 Fail alarm records :

Index	Occurred Time	Cleared Time
1	2011- 2- 9,14-39-33	2011- 2- 9,14-40-24
2	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
3	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
4	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
5	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
6	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0

Successfully Executed

## 4.9 SEC commands

### 4.9.1 Showcurrentclock

**【COMMAND】**

showcurrentclock

**【FORMAT】**

showcurrentclock .

**【EXPLANATION】**

View current clock status.

**【PARAMETERS】**

None

**【E.g.】**

device>showcurrentclock

```
Current clock mode:      Free-run
Reference source:       --
SSM value:              0xb
```

Please press "Enter" to continue.....

CLOCK	LTl	TIME	DEG	SSM	MISMATCH	CLOCK	TIMERING	PRIORITY
T11	alarm	--	--	yes	--	2		
T12	alarm	--	--	yes	--	3		
T21	alarm	--	--	yes	--	---		
T31	alarm	--	--	no	--	---		

T32 alarm -- -- yes -- ---

Successfully Executed

#### 4.9.2 Setclocksource

##### 【COMMAND】

```
setclocksource
```

##### 【FORMAT】

```
setclocksource <priority> <clocksource>
```

##### 【EXPLANATION】

Configure clock source priority (1-6).

##### 【PARAMETERS】

<priority> : 1-6.

<clocksource> : local|t11|t12|t21|t31|t32|remove.

##### 【E.g.】

```
device>setclocksource 1 t11
```

Successfully Executed

#### 4.9.3 Setclockmode

##### 【COMMAND】

```
setclockmode
```

##### 【FORMAT】

```
setclockmode <force> [source] [holdover]
```

##### 【EXPLANATION】

Configure clock force mode.

##### 【PARAMETERS】

<force>: enable|disable.

[source] : local|t11|t12|t21|t31|t32, (valid when force == enable).

[holdover] : enable|disable, (valid when force == enable).

##### 【E.g.】

```
device>setclockmode enable t11 enable
```

Force Clock: Enable

Force clock source: T11

Force clock holdover mode: Enable

Successfully Executed

#### 4.9.4 sett21source

##### 【COMMAND】

```
sett21source
```

**【FORMAT】**

```
sett21source <cardID> <E1_ID>
```

**【EXPLANATION】**

Configure T21 source.

**【PARAMETERS】**

<cardID> : card1|card2.

<E1\_ID> : 1-8.

**【E.g.】**

```
device>sett21source card2 3
```

T21 source: Card 2, E1 3

Successfully Executed

**4.9.5 sett3x****【COMMAND】**

```
sett3x
```

**【FORMAT】**

```
sett3x <t31|t32> <mode> [ssmValue]
```

**【EXPLANATION】**

configure T31 / T32 work mode and SSM Value.

**【PARAMETERS】**

<t31|t32>: t31|t32.

<mode>: clock|data,

    : clock, 2.048MHz,

    : data, 2.048MB/s.

[ssmValue] : 0x00|0x02|0x04|0x08|0x0b|0x0f,(mode==clock),

    : 0x00, QL\_ignorance,

    : 0x02, QL\_PRC,

    : 0x04, QL\_SSU-T,

    : 0x08, QL\_SSU-L,

    : 0x0b, QL\_SEC,

    : 0x0f, QL\_DNU.

**【E.g.】**

```
device>sett3x t31 clock 0x04
```

T31 Mode : 2.048MHz , SSM value = 0x4

Successfully Executed

**4.9.6 sett41****【COMMAND】**



```
sett41
```

**【FORMAT】**

```
sett41 <source> <mode> <enable|disable>
```

**【EXPLANATION】**

Configure T41 source, work mode and enable/disable SSM.

**【PARAMETERS】**

```
<source> : device|opta|optb.
          : device, clock from SEC,
          : opta, clock from T11,
          : optb, clock from T12,
<mode>: clock|data,
        : clock, 2.048MHz,
        : data, 2.048MB/s.
<enable|disable>: enable|disable.
```

**【E.g.】**

```
device>sett41 optb data enable
T41 source : Optical port B
T41 Mode : 2.048MB/s
T41 SSM : Enable
Successfully Executed
```

#### 4.9.7 manualt41

**【COMMAND】**

```
manualt41
```

**【FORMAT】**

```
manualt41 <enable|disable> [ssmValue]
```

**【EXPLANATION】**

Manually enable/disable T41 and SSM value.

**【PARAMETERS】**

```
<enable|disable>: enable|disable.
[ssmValue] : 0x00|0x02|0x04|0x08|0x0b|0x0f, (valid when mode is "data").
            : 0x00, QL_ignorance,
            : 0x02, QL_PRC,
            : 0x04, QL_Ssu-T,
            : 0x08, QL_Ssu-L,
            : 0x0b, QL_SEC,
            : 0x0f, QL_DNU.
```

**【E.g.】**

```
device>manuallt41 enable 0x08
T41 force mode : enable , send SSM vlaue = 0x8
Successfully Executed
```

#### 4.9.8 Setssm

**【command】**

```
setssm
```

**【FORMAT】**

```
setssm <enable|disable>
```

**【EXPLANATION】**

Enable/Disable SSM.

**【PARAMETERS】**

<enable|disable>: enable|disable.

**【E.g.】**

```
device>setssm enable
SSM function : enable
Successfully Executed
```

#### 4.9.9 Setfreqcheck

**【COMMAND】**

```
setfreqcheck
```

**【FORMAT】**

```
setfreqcheck <enable|disable>
```

**【EXPLANATION】**

Enable/Disable frequency detection.

**【PARAMETERS】**

<enable|disable>: enable|disable.

**【E.g.】**

```
device>setfreqcheck disable
Check Frequence : disable
Successfully Executed
```

#### 4.9.10 Setrestoretime

**【COMMAND】**

```
setrestoretime
```

**【FORMAT】**

```
setrestoretime <time>
```

**【EXPLANATION】**

Configure the confirming time after clock restore.

**【PARAMETERS】**

<time>: 0-12 minutes.

**【E.g.】**

```
device>setrestoretime 4
```

Clock restore time: 4 minutes

Successfully Executed

**4.9.11 Showclockconfig****【COMMAND】**

```
showclockconfig
```

**【FORMAT】**

```
showclockconfig
```

**【EXPLANATION】**

View current clock configuration.

**【PARAMETERS】**

None

**【E.g.】**

```
device>showclockconfig
```

Force Clock: Enable

Force clock source: T11

Force clock holdover mode: Enable

Clock proprity 1 : T11

Clock proprity 2 : T12

Clock proprity 3 : local

Clock proprity 4 : Invalid

Clock proprity 5 : Invalid

Clock proprity 6 : Invalid

Please press "Enter" to continue.....

SSM function : Enable

The confirming time after clock restore : 4

T21 source : Card 2 , E1 3

Frequency check : Disable

T31 Mode : 2.048MHz , SSM value = 0x4

T32 Mode : 2.048Mb/s

T41 source : Optical port B

T41 Mode : 2.048MB/s

T41 SSM : Enable

T41 force mode : enable , send SSM vlaue = 0x8

Successfully Executed

#### 4.9.12 Showsecalarmhistory

##### 【COMMAND】

showsecalarmhistory

##### 【FORMAT】

showsecalarmhistory

##### 【EXPLANATION】

View the alarm history of current SEC.

##### 【PARAMETERS】

None

##### 【E.g.】

device>showsecalarmhistory

SDH Equipment Clock LTI alarms record :

Index	Occurred Time	Cleared Time
1	2011- 2- 9,15-24- 0	2011- 2- 9,15-37- 9
2	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
3	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
4	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
5	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
6	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0

SDH Equipment Clock SSM MISMATCH alarms record :

Index	Occurred Time	Cleared Time
1	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
2	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0

```

3   2000- 0- 0, 0- 0- 0   2000- 0- 0, 0- 0- 0
4   2000- 0- 0, 0- 0- 0   2000- 0- 0, 0- 0- 0
5   2000- 0- 0, 0- 0- 0   2000- 0- 0, 0- 0- 0
6   2000- 0- 0, 0- 0- 0   2000- 0- 0, 0- 0- 0

```

Time : Year-Month-Day, Hour-Minute-Second

Please press "Enter" to continue.....

SDH Equipment Clock TIME DEG alarm records :

Index	Occurred Time	Cleared Time
1	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
2	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
3	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
4	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
5	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
6	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0

=====

1	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
2	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
3	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
4	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
5	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0
6	2000- 0- 0, 0- 0- 0	2000- 0- 0, 0- 0- 0

Time : Year-Month-Day, Hour-Minute-Second

Successfully Executed

## 4.10 DCC commands

### 4.10.1 Setdccmode

#### 【COMMAND】

```
setdccmode
```

#### 【FORMAT】

```
setdccmode <mode> <optadcc> <optbdcc>
```

#### 【EXPLANATION】

Configure DCC mode, and enable/disable DCC access.

#### 【PARAMETERS】

<mode>: standard|customized.

standard :d1,d2,d3;

customized:d6,d7,d8.

<optadcc> : enable|disable.

<optbdcc> : enable|disable.

#### 【E.g.】

```
device>setdccmode standard enable disable
```

DCC mode: Standard

Optical port A DCC: Enable

Optical port B DCC: Disable

Successfully Executed

#### 4.10.2 Setohsrcdir

##### 【COMMAND】

```
setohsrcdir
```

##### 【FORMAT】

```
setohsrcdir <optasrcdir> <optbsrcdir>
```

##### 【EXPLANATION】

Configure the source direction of other overheads.

##### 【PARAMETERS】

<optasrcdir>: opta|optb.

<optbsrcdir>: opta|optb.

##### 【E.g.】

```
device>setohsrcdir opta optb
```

```
OPT_A overhead source : OPTA
```

```
OPT_B overhead source : OPTB
```

Successfully Executed

#### 4.10.3 Showdcc

##### 【COMMAND】

```
showdcc
```

##### 【FORMAT】

```
showdcc
```

##### 【EXPLANATION】

View the settings of DCC.

##### 【PARAMETERS】

None

##### 【E.g.】

```
device>showdcc
```

```
DCC mode: Standard
```

```
Optical port A DCC: Enable
```

```
Optical port B DCC: Disable
```

```
Optical port A overhead source: OPT A
```

```
Optical port B overhead source: OPT B
```

Successfully Executed

## 4.11 TEST commands

### 4.11.1 Setoptloop

#### 【COMMAND】

setoptloop

#### 【FORMAT】

setoptloop <optID> <device> <line>

#### 【EXPLANATION】

Configure the Loop-back of optical port.

#### 【PARAMETERS】

<optID>: opta|optb.

<device> : loop|unloop.

<line>: loop|unloop.

#### 【E.g.】

device>setoptloop opta loop unloop

OPT	DEVICE LOOP	LINE LOOP
=====		
opta	loop	unloop

Successfully Executed

### 4.11.2 Showoptloop

#### 【COMMAND】

showoptloop

#### 【FORMAT】

showoptloop

#### 【EXPLANATION】

View loop status of the optical ports.

#### 【PARAMETERS】

None

#### 【E.g.】

device>showoptloop

OPT	DEVICE LOOP	LINE LOOP
=====		
opta	loop	unloop
optb	unloop	unloop

Successfully Executed

#### 4.11.3 sete1loop

##### 【COMMAND】

```
sete1loop
```

##### 【FORMAT】

```
sete1loop <cardID> <tu12number> <startpathID> <line> <device>
```

##### 【EXPLANATION】

Configure the loopback of E1 port.

##### 【PARAMETERS】

<cardID>: card1|card2.

<tu12number>: 1-8.

<startpathID>: 1-8.

<line> : loop|unloop.

<device>: loop|unloop.

##### 【E.g.】

```
device>sete1loop card2 4 1 loop loop
```

E1	DEVICE LOOP	LINE LOOP
=====		
1	loop	loop
2	loop	loop
3	loop	loop
4	loop	loop
5	unloop	unloop
6	unloop	unloop
7	unloop	unloop
8	unloop	unloop

Successfully Executed

#### 4.11.4 showe1loop

##### 【COMMAND】

```
showe1loop
```

##### 【FORMAT】

```
showe1loop <cardID>
```



**【EXPLANATION】**

View loop status of the E1 ports.

**【PARAMETERS】**

<cardID>: card1|card2.

**【E.g.】**

device>showe1loop card2

E1	DEVICE LOOP	LINE LOOP
1	loop	loop
2	loop	loop
3	loop	loop
4	loop	loop
5	unloop	unloop
6	unloop	unloop
7	unloop	unloop
8	unloop	unloop

Successfully Executed

**4.11.5 Setbert**

**【COMMAND】**

setbert

**【FORMAT】**

setbert <txDirection> <cardID> <txE1ID> <rxDirection> <cardID> <rxE1ID>

**【EXPLANATION】**

Configure E1 Bit Error Test and test E1 channel.

**【PARAMETERS】**

<txDirection> : bus|e1.

<cardID> : card1|card2.

<txE1ID> : 1-8.

<rxDirection> : bus|e1.

<cardID> : card1|card2.

<rxE1ID> : 1-8.

**【E.g.】**

device>setbert bus card2 1 e1 card2 1

NAME	STATUS	DIRECTION	CARD ID	E1 ID
=====				

Transmit	Disable	Bus	2	1
Receive	Disable	E1	2	1

Successfully Executed

#### 4.11.6 Enbert

##### 【COMMAND】

enbert

##### 【FORMAT】

enbert <tx> <rx>

##### 【EXPLANATION】

Enable/Disable BERT transmitter and receiver.

##### 【PARAMETERS】

<tx> : enable|disable.

<rx> : enable|disable.

##### 【Note】

After using command “setbert” to set “tx” and “rx”,use this command to enable or disable the “tx” and “rx”.

##### 【E.g.】

device>enbert enable enable

NAME	STATUS	DIRECTION	CARD ID	E1 ID
=====				
Transmit	Enable	Bus	2	1
Receive	Enable	E1	2	1

Successfully Executed

#### 4.11.7 Inserterr

##### 【COMMAND】

inserterr

##### 【FORMAT】

inserterr

##### 【EXPLANATION】

Manually insert one bit error to BERT .

##### 【PARAMETERS】

None

**【Note】**

When you use this command: first, use “setbert” command to set “txDirection” and “rxDirection”, then use “enbert” command to enable “tx” and “rx”. Now you can insert bit error by using “inserterr” command.

**【E.g.】**

```
device>inserterr
Successfully inserted an error bit.
Successfully Executed
```

**4.11.8 Showbert****【COMMAND】**

```
showbert
```

**【FORMAT】**

```
showbert
```

**【EXPLANATION】**

View BERT status.

**【PARAMETERS】**

None

**【E.g.】**

```
device>showbert
NAME      STATUS   DIRECTION  CARD ID  E1 ID
=====
Transmit   Enable   Bus        2        1
Receive    Enable   E1         2        1

BER ALARM INDICATION :
LOS  AIS  PATTERN LOS
=====

Normal  Normal  Normal
Local bit error counter = 0 , 1
Description :
    Perform Counter (H32) , (L32) = (H32) << 32 |(L32) ;
    H32 : High 32 bits; L32 : low 32 bits
Successfully Executed
```

**4.11.9 Clearbert****【COMMAND】**

clearbert

**【FORMAT】**

clearbert

**【EXPLANATION】**

Reset E1 BERT .

**【PARAMETERS】**

None

**【E.g.】**

device>clearbert

Reset of BER test done

Successfully Executed

## 4.12 Hidden commands

### 4.12.1 Showtimalarm

**【COMMAND】**

showtimalarm

**【FORMAT】**

showtimalarm

**【EXPLANATION】**

View TIM alarms on STM-1 port.

**【PARAMETERS】**

None

**【E.g.】**

device>showtimalarm

View TIM alarms on STM-1 port.

Successfully Executed

### 4.12.2 Disabletimalarm

**【COMMAND】**

disabletimalarm

**【FORMAT】**

disabletimalarm

**【EXPLANATION】**

Ignore TIM alarms on STM-1 port.

**【PARAMETERS】**

None

**【E.g.】**

```
device>disabletimalarm
Ignore TIM alarms on STM-1 port.
Successfully Executed
```

#### 4.12.3 Frontpanel

##### 【COMMAND】

```
frontpanel
```

##### 【FORMAT】

```
frontpanel
```

##### 【EXPLANATION】

Show all the indications (LEDs) in front panel.

##### 【PARAMETERS】

None

##### 【E.g.】

```
device>frontpanel
```

```
LED  UALM  NOPA  NOPB  CARD1  CARD2  CARD3  ALS
```

```
=====
```

```
Status  ON   ON   ON   ON   ON   ON   ON
```

```
LED  DALM  RPDA  RPDB  TALM1  TALM2  TALM3
```

```
=====
```

```
Status  OFF  OFF  OFF  OFF  OFF  OFF
```

```
Successfully Executed
```