

IP-DSLAM

Master

CLI

Guide

V. 0.2



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CHAPTER 1

Command Line Introduction

1.1 Introduction

User can use commands to configure the Master of IP-DSLAM. User can do telnet to the IP-DSLAM and use terminal emulation software configured to the following parameters-

- VT100 terminal emulation
- 9600 bps
- No parity, 8 data bits, 1 stop bit
- No hardware flow control

User can call type '?' to call help anytime always.

“<>” symbol means a parameter.

“/” symbol means OR operator.

“[]” symbol means optional parameter.

“..” Symbol means to return to root directory parameter.

“Up” key will show previous command.

The “Draytek” symbol is just only a prompt signal.

In this chapter, we will introduce some common commands as below.



1.2 Common Commands

1.2.1 Root Commands

* **DrayTek>acl**

Enter access control list configuration function

* **DrayTek>diagnostics**

Enter system diagnostics function, using “dia” abbreviation command is also available.

* **DrayTek>network**

Enter network configuration function, using “net” abbreviation command is also available.

* **DrayTek>service**

Enter service configuration function, using “ser” abbreviation command is also available.

* **DrayTek>system**

Enter system configuration function, using “sys” abbreviation command is also available.

* **DrayTek>dsl**

Description:

remote control function

Syntax:

dsl -l	(Display the setting)
dsl -m	(Connect to dsl-master server)
dsl -s <IfIndex>	(Connect to dsl-slave-# server)

Parameters:

<IfIndex>	Integer(1..5)
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*** DrayTek>exit**

Description:

exit the system

Syntax:

exit

(Leave the cli system)

Parameters:



1.2.2 ACL Commands

* DrayTek/acl>telnet

Description:

master telnet filter settings

Syntax:

telnet -s	(Display ACL-Telnet setting)
telnet -a <IP_addr>	(Add a record to the telnet access-list)
telnet -e <EntryIdx> <IP_addr>	(Edit the ACL-Telnet setting)
telnet -d <EntryIdx>	(Delete a record from telnet access-list)
telnet -D	(Allow all hosts to telnet)

Parameters:

<IP_addr>	IP Address
<EntryIdx>	Integer

* DrayTek/acl>snmp

Description:

master snmp filter settings

Syntax:

snmp -s	(Display ACL-SNMP setting)
snmp -a <IP_addr>	(Add a record to snmp access-list)
snmp -e <EntryIdx> <IP_addr>	(Edit the ACL-snmp setting)
snmp -d <EntryIdx>	(Delete a record from snmp access-list)
snmp -D	(Allow all hosts to snmp)

Parameters:

<IP_addr>	IP Address
<EntryIdx>	Integer



1.2.3 Diagnostics Commands

* **DrayTek/diagnostics>ping**

Description:

ping function

Syntax:

ping <IP_addr> (ping the remote is alive)

Parameters:

<IP_addr> IP Address

* **DrayTek/diagnostics>routingInfo**

Description:

Show routing information

Syntax:

routingInfo (Display routing table information)

Parameters:

* **DrayTek/diagnostics>arpInfo**

Description:

Show arp information

Syntax:

arpInfo (Display arp information)

Parameters:



* DrayTek/diagnostics>atu

Description:

system mac address learning info

Syntax:

atu -s	(Display the all format address)
atu -m	(Display the multicast format address)
atu -u	(Display the unicast format address)
atu -e <MAC_ADDR> <ES> <DPV> <Prio>	(Edit the atu record)
atu -d <MAC_ADDR>	(Delete the atu record)

Parameters:

<MAC_ADDR>	48-bits format(ex: xx:xx:xx:xx:xx:xx)
<ES>	Integer(0..15)
<DPV>	Unsigned long Integer(0x0 - 0x3ff)
<Prio>	Integer(0..3)



* DrayTek/diagnostics>pcs

Description:

system duplex and speed info

Syntax:

pcs -s (Display the setting)

pcs <portIdx> <pcsValue> (Edit the setting)

Parameters:

<portIdx> Integer(1..10)

<pcsValue> Integer

1: Auto-Negotiation

2: half / 10Mbps

3: full / 10Mbps

4: half / 100Mbps

5: full / 100Mbps

6: half / 1000Mbps

7: full / 1000Mbps

8: Auto-Negotiation Restart



1.2.4 Network Commands

* **DrayTek/network>inband**

Description:

interface settings for inband

Syntax:

inband -s (Display the setting)

inband <IntfIP> <NetMask> (Edit the setting)

Parameters:

<IntfIP> IP Address

<NetMask> IP Address

* **DrayTek/network>outband**

Description:

interface settings for outband

Syntax:

outband -s (Display the setting)

outband <IntfIP> <NetMask> (Edit the setting)

Parameters:

<IntfIP> IP Address

<NetMask> IP Address



* DrayTek/network>ipdslam

Description:

interface settings for ip-dslam network

Syntax:

ipdslam -s (Display the setting)
ipdslam <NetworkIP> (Edit the setting)

Parameters:

<NetworkIP> IP Address

* DrayTek/network>route

Description:

Network Routing Settings (static,default)

Syntax:

route -r (Display routing Table info)
route default <RtIP>
route -s (Display static-route info)
route -a <Target> <NM> <Gw> (Add static-route info)
route -e <RtIdx> <Target> <NM> <Gw> (Edit the static-route entry)
route -d <RtIdx> (Delete the static-route entry)
route -D (Delete all static-route entry)

Parameters:

<RtIP> IP Address
<RtIdx> Integer
<Target> IP Address
<NM> IP Address
<Gw> IP Address



1.2.5 Service Commands

* **DrayTek/service>alarmshow**

Description:

show the connected dsl-server trap message on screen

Syntax:

alarmshow -s (Display the alarmshow setting)
alarmshow on/off (Turn on/off the service)

Parameters:

* **DrayTek/service>snmp**

Description:

master snmp service settings

Syntax:

snmp -l (Display the community setting)
snmp -c <CommRO> <CommRW> <CommTrap> (Edit the community setting)
snmp -s (Display the trap setting)
snmp -a <HostIP> (Add the traphost setting)
snmp -e <EntryIdx> <HostIP> (Edit the traphost setting)
snmp -d <EntryIdx> (Delete the traphost setting)
snmp -D (Delete the all traphost record)
snmp on/off (Turn on/off the service)

Parameters:

<CommRO> Octets string
<CommRW> Octets string
<CommTRAP> Octets string
<EntryIdx> Integer
<HostIP> IP Address



* DrayTek/service>dhcp

Description:

master dhcp settings

Syntax:

dhcp -s	(Display setting)
dhcp -l <LeaseTime>	(Edit the dhcp lease-time value)
dhcp -c <ClearTime>	(Edit the the time to clear database)
dhcp on/off	(Turn on/off the service)

Parameters:

<LeaseTime>	Integer(30..7200)
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* DrayTek/service>igmp_snooping

Description:

master igmp_snooping service

Syntax:

igmp_snooping -s	(Display the setting)
igmp_snooping -m <leave_mode>	(Edit the leave-mode)
igmp_snooping -t <leave_time>	(Edit the leave-time seconds)
igmp_snooping on/off	(Turn on/off the service)

Parameters:

<leave_mode>	Integer(1:fast 2:normal)
<leave_time>	Integer(for normal-mode use)



* DrayTek/service>vlan

Description:

master vlan service

Syntax:

vlan on/off (Turn on/off the service)

Parameters:

* DrayTek/service>stp

Description:

master spanning tree service

Syntax:

stp -s (Display STP setting)
stp -a (Show STP info)
stp -b <brg_prio> (Set switch priority)
stp -h <hello_time> (Set hello-time)
stp -t <max_age_time> (Set max message age)
stp -f <forward_delay> (Set switch forward delay)
stp -p <port_num> <port_prio> (Set port priority)
stp on/off (Turn on/off the service)

Parameters:

<brg_prio> Integer(0..255)
<hello_time> Integer(1..10)
<port_num> Integer(1..up_port_num)
<port_prio> Integer(0..255)
<max_age_time> Integer(6..40)
<forward_delay> Integer(4..30)



* DrayTek/service>ntp

Description:

system network time protocol setting

Syntax:

ntp now	(Display the current time)
ntp -s	(Display the setting)
ntp -u	(Display the current time bypassing time zone)
ntp -e <IP_addr> <interval>	(Set time server IP and check time interval)
ntp -t <MMDDhhmmYY>	(Set the date and time of the system)
ntp -z <time_zone> <DST>	(Set the time zone and daylight saving time)
ntp on/off	(Turn on/off the setting)

Parameters:

<IP_addr>	IP Address
<interval>	Integer
<time_zone>	Integer(-12..12)
<DST>	on/off
<MMDDhhmmYY>	MM: month, DD: date, hh: hour, mm: minute, YY: year



1.2.6 System Commands

* **DrayTek/system>basicInfo**

Description:

Show machine basic information

Syntax:

basicInfo -s (Display information)

Parameters:

* **DrayTek/system>inbandInfo**

Description:

Show inband interface information

Syntax:

inbandInfo -s (Display information)

Parameters:

* **DrayTek/system>outbandInfo**

Description:

Show outband interface information

Syntax:

outbandInfo (Display information)

Parameters:



*** DrayTek/system>ipdslamInfo**

Description:

Show ipdslamInfo interface information

Syntax:

ipdslamInfo <IntfIndex> (Display information)

Parameters:

<IntfIndex> Integer

*** DrayTek/system>reboot**

Description:

Reboot Device function (using the default setting)

Syntax:

reboot [default]

Parameters:

*** DrayTek/system>dsl_trap_show**

Description:

show the trap message on screen

Syntax:

dsl_trap_show -s (Display the setting)

dsl_trap_show on/off (Turn on/off the setting)

Parameters:



* DrayTek/system>user

Description:

Change user password

Syntax:

user -e <userName> (Change user password)

Parameters:

<userName> Octet string

* DrayTek/system>upgrade

Description:

upgrade the system firmware

Syntax:

upgrade -s (Display the setting)

upgrade <ServIP> <FirmName> (Edit the setting)

Parameters:

<ServIP> IP address

<FirmName> Octets string

