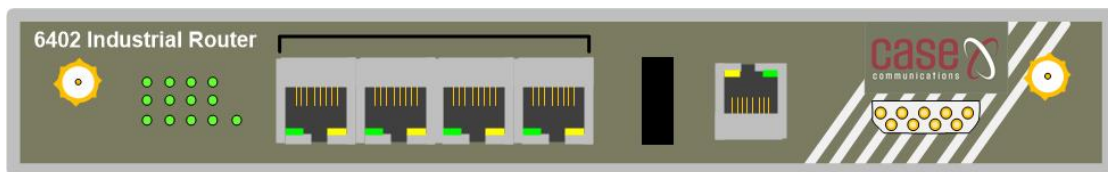# Case Communications

6402

Command Line Interface manual

Telnet with CLI Command List

HISTORY

Version	Editor	Date	Changes
V0.1	Roger	2015-05-05	Draft.
V0.2	Chris	2015-05-20	Change some Description
V0.3	Madan	2015-05-26	add/delete some command.
V0.4	Chris	2015-06-25	add 3G/4G status and reset command
V0.5	Bill	2015-09-08	add SMS command
V0.6	Steve	2016-04-15	update status and basic network add advanced network

6402 CLI MANUAL CONTENTS

Introduction

The CLI Command formation is in following, but there are a few exceptions.

Entity	Instance	Parameter	Values	Description

And some commands need extra command "apply" to take effect

The List is;

   lan_ip

   wan_interne

   routing

   phy_type

   wps

   wifi_conf

   nb_conf

   vs

   vc

   nb_alg

   ap

   nb_dmz

   nb_dr

   dn

   ddns

   fix_map

And you also use instruction help mechanism, Just enter command will show the supported parameters.

ex:

```
# ppp
usage:ppp instance parameter values
support parameters:
    username
    password
    ipaddr
    mask
    gateway
    ppp_server_ip_name
    conn_id
    username
```

1   Status

1.1   Dashboard

Device Dashboard

Entity	Instance	Parameter	Values	Description
status	0	db_sysinfo	?	device uptime, CPU, Memory, Connection Sessions
status	0	db_network_if	?	
status	0	db_poe_status	?	

1.2   Network Status

WAN Interface IPv4 Network Status

Entity	Instance	Parameter	Values	Description
status	0	wiface_ipv4	?	

WAN Interface IPv6 Network Status

Entity	Instance	Parameter	Values	Description
status	0	wiface_ipv6	?	

LAN Interface Status

Entity	Instance	Parameter	Values	Description
status	0	liface	?	

3G/4G Modem Status

Entity	Instance	Parameter	Values	Description
status	0	3g	?	
status	n	3g_modem	?	n: 3g index 1~16
status	n	3g_sim	?	n: 3g index 1~16
status	n	3g_service	?	n: 3g index 1~16

Internet Traffic Statistics

Entity	Instance	Parameter	Values	Description
status	0	internet_traffic	?	

1.3 Wi-Fi Status

Wi-Fi Virtual AP List

Entity	Instance	Parameter	Values	Description
status	0	wifi_vap	?	

Wi-Fi Traffic Statistics

Entity	Instance	Parameter	Values	Description
status	0	wifi_traffic	?	

Wi-Fi IDS Statistics

Entity	Instance	Parameter	Values	Description
status	0	wifi_ids	?	

1.4 LAN Client List

Entity	Instance	Parameter	Values	Description
status	0	lan_client	?	

1.5 Firewall Status

Entity	Instance	Parameter	Values	Description
status	0	packet_filter	?	
		url_blocking	?	
		web_content_filter	?	
		mac_ctl	?	
		app_filter	?	
		firewall_ips		
		firewall_options		

1.6 VPN Status

Entity	Instance	Parameter	Values	Description
status	0	ipsec	?	
		pptp_server		
		pptp_client		
		l2tp_server		
		l2tp_client		

1.7 System Mgmt. Status

Entity	Instance	Parameter	Values	Description
status	0	snmp_linking	?	
		snmp_trap		
		tr069		
		upnp		

1.8 Reset

Entity	Instance	Parameter	Values	Description
reset				

1.9 VoIP Status

Entity	Instance	Parameter	Values	Description
status	0	voip_status	?	

1.10 Vo3G Status

Entity	Instance	Parameter	Values	Description
status	0	vo3g_status	?	

1.11 DDNS Status

Entity	Instance	Parameter	Values	Description
status	0	ddns_list	?	

1.12 UPnP Port Status

Entity	Instance	Parameter	Values	Description
status	0	upnp_port_summary	?	

1.13 USB Storage Status

Entity	Instance	Parameter	Values	Description
status	0	usb_storage	?	

1.14 Statistic & Reports

Internet Surfing List

Entity	Instance	Parameter	Values	Description
status	0	internet_surfing_list	?	

Device Manager Login Statistics

Entity	Instance	Parameter	Values	Description
status	0	device_manager_login	?	

Captive Portal User Login Statistics

Entity	Instance	Parameter	Values	Description
status	0	captiveportal_user_login	?	

2   Basic Network

2.1   WAN

Physical interface

Entity	Instance	Parameter	Values	Description
eth	n	phy_iface	0/1/2	0: ethernet 1: 3g/4g 1 2: 3g/4g 2 3: ethernet2
eth	n	op_mode	0/1/2	0: disable 1: always 2: failover
eth	n	failover	m	n: wan interface (failover wan) m: wan interface (main wan)
eth	n	dis_failover	m	disable failover n : wan interface (failover wan) m: wan interface (main wan)
eth	n	seamless	on/off	need failover on
eth	n	line_speed_up	value	Kbps
eth	n	line_speed_dl	value	Kbps
eth	n	vlan_tag	on/off	
eth	n	vid	vlan_id	1~4095
apply	phy_type	n		apply the physical interface alter

internet setup

Entity	Instance	Parameter	Values	Description
eth	n	wan_type	0/1/2/3/4	0: static ip 1: dynamic ip 2: pppoe 3: pptp 4: l2tp
eth	n	conn_ctl	0/1/2	0: on demand 1: auto

				2: manual
				in dynamic ip, pppoe,
				l2tp, pptp wan type
				can set Ethernet/3g
eth	n	max_idle_time		can set Ethernet/3g
eth	n	mtu	value	0: auto
				0~1500
eth	n	do_nat	on/off	

wan_type: static ip

Entity	Instance	Parameter	Values	Description
eth	n	ipaddr	valid ip address	
eth	n	mask	valid subnet mask	
eth	n	gateway	ip address	

wan_type: static ip/pppoe common

Entity	Instance	Parameter	Values	Description
eth	n	dnsserver	ip address	
eth	n	secdns	ip address	

wan_type: dynamic ip

Entity	Instance	Parameter	Values	Description
eth	n	hostname	name	
eth	n	isp_reg_mac	mac	

wan_type: pppoe

Entity	Instance	Parameter	Values	Description
eth	n	ipv6_dual_stack	on/off	only for ethernet
eth	n	service_name	name	
eth	n	assigned_ip	ip	

wan_type: pptp/l2tp

Entity	Instance	Parameter	Values	Description
ppp	n	ip_mode	0/1	0: dynamic ip address
				1: static ip address
ppp	n	server_ip_name	str_ip_name	
ppp	n	conn_id	conn_id	only for pptp

pptp/l2tp static ip address

Entity	Instance	Parameter	Values	Description
ppp	n	ipaddr	ip	
ppp	n	mask	mask	
ppp	n	gateway	ip	

wan_type: pppoe/ pptp/ l2tp common

Entity	Instance	Parameter	Values	Description
ppp	n	username	str_username	
ppp	n	password	str_pwd	

network monitoring

Entity	Instance	Parameter	Values	Description
eth	n	nm	on/off	
eth	n	nm_mode	0/1	0: dns query:
				1: icmp checking
eth	n	loading_check	on/off	
eth	n	check_interval	value	second
eth	n	check_timeout	value	second
eth	n	latency_threshold		ms
eth	n	fail_threshold		times
eth	n	target1	1/2/3/4	1: dns1
				2: dns2
				3: gateway
				4: other host
eth	n	target2	0/1/2/3/4	0: none
				1: dns1
				2: dns2
				3: gateway
				4: other host
eth	n	other_host1	ip	
eth	n	other_host2	ip	
eth	n	igmp	0/1	0: disable
				1: auto
eth	n	igmp_proxy	on/off	
eth	n	wan_ip_alias	on/off	
eth	n	wan_ip_alias_ip	ip	

wan type : 3g/4g

Entity	Instance	Parameter	Values	Description
sim	n	preferred_sim	1/2/3/4	1: sim a first
				2: sim b first
				3: sim a only
				4: sim b only
sim	n	failback	on/off	
sim	n	failback_counter		5~1440 minutes

connection

Entity	Instance	Parameter	Values	Description
sim	n	ntype_a	0/1/2/3/4/5	0: Auto
				1: 2G Only
				2: 3G Only
				3: 2G Prefer
				4: 3G Prefer
				5: LTE Only
sim	n	band_slc_a	0/1	0: Auto
				1: Manual
sim	n	profile_a	0/1	0: auto-detection
				1: Manual-configuration
				2: APN profile list
sim	n	pin_code_a	pin_code	
sim	n	auth_a	0/1/2	0: auto
				1: pap
				2: chap
sim	n	ip_mode_a	0/1	0: Dynamic IP
				1: Static IP
sim	n	ip_a	ip	
sim	n	mask_a	ip	
sim	n	gateway_a	ip	
sim	n	dns1_a	ip	
sim	n	dns2_a	ip	
sim	n	roaming_a	on/off	
~~sim~~	~~n~~	~~country_a~~	~~0 ~ N~~	~~0 ~ N maps to support country~~
~~sim~~	~~n~~	~~provider_a~~	~~0 ~ N~~	~~0 ~ N map to support Service Provider~~

table 1 sim A

Entity	Instance	Parameter	Values	Description
sim	n	ntype_b	0/1/2/3/4/5	0: Auto
				1: 2G Only
				2: 3G Only
				3: 2G Prefer
				4: 3G Prefer
				5: LTE Only

Entity	Instance	Parameter	Values	Description
sim	n	band_slc_b	0/1	0: Auto
				1: Manual
sim	n	profile_b	0/1/2	0: auto-detection
				1: Manual-configuration
				2: APN profile list
sim	n	pin_code_b	pin_code	
sim	n	auth_b	0/1/2	0: auto
				1: pap
				2: chap
sim	n	ip_mode_b	0/1	0: Dynamic IP
				1: Static IP
sim	n	ip_b	ip	
sim	n	mask_b	ip	
sim	n	gateway_b	ip	
sim	n	dns1_b	ip	
sim	n	dns2_b	ip	
sim	n	roaming_b	on/off	
~~sim~~	~~n~~	~~country_b~~	~~0 ~ N~~	~~0 ~ N maps to support country~~
~~sim~~	~~n~~	~~provider_b~~	~~0 ~ N~~	~~0 ~ N map to support Service Provider~~

table 2 sim B

Manual-configuration

Entity	Instance	Parameter	Values	Description
sim	n	apn_a	str_apn	
sim	n	dial_num_a	dial_num	
sim	n	account_a	account	3g/4g
sim	n	password_a	passwd	3g/4g

table 3 sim A

Entity	Instance	Parameter	Values	Description
sim	n	apn_b	str_apn	
sim	n	dial_num_b	dial_num	
sim	n	account_b	account	3g/4g
sim	n	password_b	passwd	3g/4g

table 4 sim B - common

Entity	Instance	Parameter	Values	Description
~~sim~~	~~n~~	~~connection_control~~	~~0/1/2~~	~~0: auto reconnect~~ ~~1: connect on demand~~ ~~2: connect manual~~
~~sim~~	~~n~~	~~max_idle_time~~	~~value~~	~~second~~
sim	n	schedule	value	

APN Profile List

Entity	Instance	Parameter	Values	Description
sim	n	pl_list_a	?	
sim	n	pl_name_a	rule_index/Profile Name	add new rule should start on Profile Name
sim	n	pl_mcc_a	rule_index/MCC	
sim	n	pl_mnc_a	rule_index/MNC	
sim	n	pl_apn_a	rule_index/APN	
sim	n	pl_dialnum_a	rule_index/Dial Number	
sim	n	pl_account_a	rule_index/Account	
sim	n	pl_password_a	rule_index/Password	
sim	n	pl_priority_a	rule_index/Priority	1~16
sim	n	pl_enable_a	rule_index/on/off	
sim	n	pl_del_a	rule_index	

table 5 sim A

Entity	Instance	Parameter	Values	Description
sim	n	pl_list_b	?	
sim	n	pl_name_b	rule_index/Profile Name	add new rule should start on Profile Name
sim	n	pl_mcc_b	rule_index/MCC	
sim	n	pl_mnc_b	rule_index/MNC	
sim	n	pl_apn_b	rule_index/APN	
sim	n	pl_dialnum_b	rule_index/Dial Number	
sim	n	pl_account_b	rule_index/Account	
sim	n	pl_password_b	rule_index/Password	
sim	n	pl_priority_b	rule_index/Priority	1~16
sim	n	pl_enable_b	rule_index/on/off	
sim	n	pl_del_b	rule_index	

table 6 sim B

Entity	Instance	Parameter	Values	Description
apply	wan_internet	n		apply wan internet setup alter

load balancing

Entity	Instance	Parameter	Values	Description
lb	0	lb_op	0/1/2/3	0: disable 1: by smart weight 2: by specific weight 3: by user policy
lb	**n**	**priority**	**value**	
lb	n	sip	0/1/2/3	0: any 1: subnet 2: ip range 3: single ip
lb	n	dip	0/1/2/3/4	0: any 1: subnet 2: ip range 3: single ip 4: domain name
lb	n	src_subnet	subnet	
lb	n	src_ip_begin	ip	for ip range
lb	n	src_ip_end	ip	for ip range
lb	n	src_ip	ip	
lb	n	dst_subnet	ip	
lb	n	dst_ip_begin	ip	for ip range
lb	n	dst_ip_end	ip	for ip range
lb	n	dst_ip	ip	
lb	n	dst_dn	domain_name	
lb	n	dport	0/1/2/3	0: all 1: port range 2: single port
lb	n	dst_port_begin	port	for port range
lb	n	dst_port_end	port	for port range
lb	n	dst_port	port	
lb	n	protocol	1/2/3	1: tcp 2: udp 3: both

lb	n	wan_if	1/2	1: wan-1
				2: wan-2
lb	n	policy	on/off	
lb	0	pl_del	n	
lb	0	policy_list	?	
apply	lb			

2.2　　　LAN & VLAN

Ethernet LAN

Entity	Instance	Parameter	Values	Description
eth	n	ipaddr	valid ip address	lan n=21
eth	n	mask	valid subnet mask	lan n=21
apply	lan_ip			apply LAN IP alter

VLAN

Entity	Instance	Parameter	Values	Description
eth	n	vlan_type	0/1	0: port-based
				1: tag-based

port-based - Port-based VLAN List

Port-based VLAN Configuration

Entity	Instance	Parameter	Values	Description
~~vlanp~~	~~n~~	~~dhcp_server~~	~~n~~	~~n: from dhcp add~~
vlanp	n	name	rule_name	add new rule should start on name
vlanp	n	en	on/off	enable the rule, the command should be after port/vap command. It will check the port/vap members is valid or not.
		vid		
vlanp	n	tag	on/off	
vlanp	n	type	0/1	0: nat
				1: bridge
		port		port member
		vap		vap member
vlanp	n	wan	n	
vlanp	n	wan_vid		for bridge mode
vlanp	n	lan_ip	ip	

	n	mask	valid subnet mask	
vlanp	0	vl_list	?	
	0	vl_del	n	

DHCP Server Configuration

Entity	Instance	Parameter	Values	Description
vlanp	n	dhcp_server_op	0/1/2	0: relay 1: server 2: disable
vlanp	n	dhcp_relay_server	ip	dhcp relay server ip
	n	dhcp_server_name	name	
	n	dhcp_server_ip_start	ip	
	n	dhcp_server_ip_end	ip	
	n	dhcp_server_lease	num	300~604800
	n	dhcp_server_dname	domain_name	
	n	dhcp_server_dns1	ip	
	n	dhcp_server_dns2	ip	
	n	dhcp_server_wins1	ip	
	n	dhcp_server_wins2	ip	
	n	dhcp_server_gateway	ip	

Mapping Rule List

Entity	Instance	Parameter	Values	Description
vlanp	n	fm_mac	rule_index/mac	
vlanp	n	fm_ip	rule_index/ip	
		fm_en	rule_index/(on/off)	
vlanp	n	fm_list	?	
vlanp	n	fm_del	rule_index	

VLAN Group Routing

VLAN Group Internet Access Definition

Entity	Instance	Parameter	Values	Description
vlanp	0	ia_allow	n	
vlanp	0	ia_list	?	

Inter VLAN Group Routing

Entity	Instance	Parameter	Values	Description
vlanp	n	gr_member	n	
vlanp	0	gr_list	?	

VLAN-based

Tag-based VLAN List

Entity	Instance	Parameter	Values	Description
vlant	n	vid		6~4094
		ia	on/off	
		port	n	
		vap	n	
		dhcp_server	n	
		vl_list	?	
	0	del	n	
~~apply~~	~~vlant_add~~			
~~apply~~	~~vlant_del~~			
apply	vlan			

2.3   Wi-Fi

Configuration

Basic Configuration

Entity	Instance	Parameter	Values	Description
wifi	0	wps	on/off	
wifi	0	conf_status	0/1	0: set 1: release
wifi	0	conf_mode	0/1	0: registrar 1: enrollee
wifi	0	generate_pin_code	on	
wifi	0	allow_sta_pin_code		
wifi	0	wps_trigger	on	
wifi	0	wps_status	?	
apply	wps			

2.4G Wi-Fi Configuration

Entity	Instance	Parameter	Values	Description
wifi	0	enable	on/off	
wifi	0	op_mode	0/1/2	0: ap router 1: wds only 2: wds hybird
wifi	0	lazy_mode	on/off	
wifi	0	green_ap	on/off	
wifi	n	ap_enable	on/off	n: 1 ~ 8 1: VAP 1

				2: VAP 2
				…
				8: VAP 8
wifi	n	ap_max_enable	on/off	
wifi	n	ap_max	num	1 ~ 16
wifi	0	schedule	index	
wifi	n	ssid		
wifi	n	ssid_broadcast	on/off	
wifi	n	wlan_partition	on/off	
wifi	0	channel	0 ~ 11	0: auto
				1: channel 1
				…
				11: channel 11
wifi	0	wifi_system	0 ~ 5	0: 802.11b
				1: 802.11g
				2: 802.11n
				3: 802.11 b/g
				4: 802.11 g/n
				5: 802.11 b/g/n
wifi	n	auth	0~8	0: open
				1: shared
				2: auto
				3: wpa-psk
				4: wpa
				5: wpa2-psk
				6: wpa2
				7: wpa-psk/ wpa2-psk
				8: wpa/wpa2
wifi	n	en_8021x	on/off	only Authentication is:
				open
				auto
wifi	n	encrypt	0 ~ 4	0: none
				1: WEP
				2: TKIP
				3: AES
				4: TKIP/AES
wifi	n	wepkey_type	0/1	0: HEX
				1: ASCII

Entity	Instance	Parameter	Values	Description
~~wifi~~	~~n~~	~~default_wepkey~~	~~key_id~~	
wifi	n	wepkey		HEX: 10 or 26
				ASCII: 5 or 13
wifi	n	wepkey2		HEX: 10 or 26
				ASCII: 5 or 13
wifi	n	wepkey3		HEX: 10 or 26
				ASCII: 5 or 13
wifi	n	wepkey4		HEX: 10 or 26
				ASCII: 5 or 13
wifi	n	pskey		length: 8 ~ 63
wifi	n	radisu_server_ip		
wifi	n	radisu_server_port		1 ~ 65535
wifi	n	radisu_server_key		
wifi	n	remote_ap_mac	mac	n: 1 ~ 4
apply	wifi_conf			
wifi	0	scan	?	

Wireless Client List

Entity	Instance	Parameter	Values	Description
wifi	0	wc_list	0 ~ 8	list wireless clients
				0: all
				1: vap1
				…
				8: vap8

Advanced Configuration

Entity	Instance	Parameter	Values	Description
~~wifi~~	~~0~~	~~op_band~~	~~0~~	~~0: 2.4g~~
wifi	0	beacon_interval		1 ~ 1000 msec
wifi	0	dtim_interval		1~255
wifi	0	rts_threshold		1 ~ 2347
wifi	0	frag		256 ~ 2346
wifi	0	wmm	on/off	
wifi	0	short_gi	0/1	0: 800 ns
				1: 400 ns
~~wifi~~	~~0~~	~~tx_rate~~	~~0~~	~~0: best~~
wifi	0	rf_bandwidth	0/1/2	0: ht20
				1: ht40
				2: auto

wifi	0	transmit_power	0/1/2/3	0: 100%
				1: 50%
				2: 25%
				3: 12%
apply		wifi_conf		

2.4 IPV6

Current ipv6 has no alter command, after enter ipv6 command, need reboot.
Configuration

Entity	Instance	Parameter	Values	Description
ipv6	0	enable	on/off	
ipv6	0	wan_conn_type	0/1/2/3/4/5	0: static ipv6
				1: dhcpv6
				2: pppoev6
				3: 6to4
				4: 6in4

static ipv6

Entity	Instance	Parameter	Values	Description
ipv6	0	ipaddr		
ipv6	0	prefix_len		
ipv6	0	gateway		
ipv6	0	dnsserver		
ipv6	0	secdns		
ipv6	0	mld_snooping	on/off	
ipv6	0	ds_lite	on/off	
ipv6	0	ds_lite_opt	0/1	0: dynamic
				1: static
ipv6	0	ds_lite_sip	ip_addr	ds_lite_opt: static
ipv6	0	g_addr		
ipv6	0	auto_conf_en	on/off	
ipv6	0	auto_conf_type	0/1	0: stateless
				1: stateful
ipv6	0	ar_start	str	
ipv6	0	ar_end	str	
ipv6	0	ad_lifetime		seconds (stateless)
ipv6	0	addr_lifetime		seconds (stateful)

dhcpv6

Entity	Instance	Parameter	Values	Description
ipv6	0	dnsfrom	0/1	0: from server
				1: specific dns
ipv6	0	dhcp_dns1		
ipv6	0	dhcp_dns2		

pppoev6

Entity	Instance	Parameter	Values	Description
ipv6	0	username		
ipv6	0	password		
ipv6	0	service_name		
ipv6	0	mtu		

6to4

Entity	Instance	Parameter	Values	Description
ipv6	0	6to4dns1		
ipv6	0	6to4dns2		
ipv6	0	6to4_g_addr		

6in4

Entity	Instance	Parameter	Values	Description
ipv6	0	r_ipv4_addr		
ipv6	0	l_ipv6_addr		
ipv6	0	6in4_dns1		
ipv6	0	6in4_dns2		
apply	ipv6			

2.5　　　NAT/Bridging

Configuration

Entity	Instance	Parameter	Values	Description
nb	0	loop_back	on/off	
apply	nb_conf			

Virtual server & Virtual Computer

Configuration

Entity	Instance	Parameter	Values	Description
nb	0	conf_vs_enable	on/off	
nb	0	conf_vc_enable	on/off	

Virtual Server List

Entity	Instance	Parameter	Values	Description
nb	0	vs_list	?	
nb	n	vs_wan_if		0:ALL
				1:WAN-1
				2:WAN-2
				4:WAN-3
				8:WAN-4
				bit-mapped
				Ex: 3:WAN-1, WAN-2
				14: WAN-2, WAN-3, WAN-4
nb	n	vs_public_port		port range: x-x
nb	n	vs_server_ip		
nb	n	vs_private_port		port range: x-x
nb	n	vs_protocol	0/1/2/3	0: TCP(6) & UDP(17)
				1: TCP
				2: UDP
				3: Other
nb	n	vs_protocol_other		only for vs_protocol selected
				on 3: Other
				1: ICMPv4(1)
				47: GRE(47)
				50: ESP(50)
				132: SCTP(132)
				x:User-defined
nb	n	vs_schedule	index	
nb	n	vs_enable	on/off	
nb	0	vs_del	n	
apply	vs			

Virtual Computer

Entity	Instance	Parameter	Values	Description
nb	0	vc_list	?	
nb	n	vc_global_ip		
nb	n	vc_local_ip		
nb	n	vc_enable	on/off	
nb	0	vc_del	n	
apply	vc			

Special AP & ALG

Configuration

Entity	Instance	Parameter	Values	Description
nb	0	sp_ap_enable	on/off	
nb	0	alg_enable	on/off	
apply	nb_alg			

Special AP Rule Configuration

Entity	Instance	Parameter	Values	Description
nb	0	ap_list	?	
nb	n	ap_wan_if		0:ALL 1:WAN-1 2:WAN-2 4:WAN-3 8:WAN-4 bit-mapped Ex: 3:WAN-1, WAN-2 14: WAN-2, WAN-3, WAN-4
nb	n	ap_trigger_port		
nb	n	ap_income_port		
nb	n	ap_schedule	index	
nb	n	ap_enable	on/off	
nb	0	ap_del	n	
apply	ap			

DMZ

Entity	Instance	Parameter	Values	Description
nb	0	dmz_enable	on/off	
nb	0	dmz_if		0:ALL 1:WAN-1 2:WAN-2 4:WAN-3 8:WAN-4 bit-mapped Ex: 3:WAN-1, WAN-2 14: WAN-2, WAN-3, WAN-4
nb	0	dmz_ptenable_ipsec	on/off	dmz pass through ipsec
nb	0	dmz_ptenable_pptp	on/off	dmz pass through pptp
nb	0	dmz_ptenable_l2tp	on/off	dmz pass through l2tp

Entity	Instance	Parameter	Values	Description
nb	0	dmz_ip		
apply	nb_dmz			

2.6 Routing

Static Routing

Entity	Instance	Parameter	Values	Description
routing	0	static_route	on/off	
routing	n	dip		
routing	n	mask		
routing	n	gw		
routing	n	iface	0 ~ 7	0: auto 1: wan-1 2: wan-2 3: wan-3 4: lan 5: vlan-1 6: vlan-2 7: vlan-3
routing	n	metric		
routing	n	rule_en	on/off	
routing	0	sr_del	n	
routing	0	sr_list	?	list static routing rules
apply	routing			apply rule list

Dynamic Routing

Configuration

Entity	Instance	Parameter	Values	Description
routing	0	dynamic_route	on/off	

rip

Entity	Instance	Parameter	Values	Description
routing	0	rip_op	0/1/2	0: disable 1: rip v1 2: rip v2

ospf

Entity	Instance	Parameter	Values	Description
routing	0	ospf_en	on/off	
routing	0	ospf_route_id	ip	
routing	0	ospf_auth	0/1/2	0: None 1: Text 2: MD5
routing	0	ospf_id		1 ~255
routing	0	ospf_key		
routing	0	ospf_backbone_subnet		
routing	n	ospf_area_subnet		
routing	n	ospf_area_id		
routing	n	ospf_area_en	on/off	
routing	0	ospf_del	n	
routing	0	ospf_list	?	list ospf rules

bgp

Entity	Instance	Parameter	Values	Description
routing	0	bgp_en	on/off	
routing	0	bgp_self_id		ASN
routing	0	bgp_route_id	ip	
routing	n	bgp_nw_subnet	ip/subnet	ip/subnet
routing	n	bgp_nw_en	on/off	
routing	0	bgp_nw_del	n	
routing	0	bgp_nw_list	?	list bgp network rules
routing	n	bgp_nb_ip		
routing	n	bgp_nb_id		ASN
routing	n	bgp_nb_en	on/off	
routing	0	bgp_del	n	
routing	0	bgp_list	?	list bgp rules
apply	routing			apply routing alter

Routing Information

Entity	Instance	Parameter	Values	Description
routing	0	routing_table	?	
routing	0	routing_info	?	
apply	routing			apply routing alter

2.7 Client Server Proxy

Dynamic DNS

Pre-defined Domain Name List

Entity	Instance	Parameter	Values	Description
dydns	0	dn_list	?	
dydns	n	dn		
dydns	n	dn_ip		
dydns	n	dn_en	on/off	
dydns	0	del	n	
apply	dn			

Dynamic DNS

Entity	Instance	Parameter	Values	Description
dydns	0	enable	on/off	
dydns	0	wan_if	1/2/3/4	1:WAN-1
				2:WAN-2
				3:WAN-3
				4:WAN-4
dydns	0	provider	0/1/2/3/4	0: DynDNS.org (Dynamic)
				1: DynDNS.org (Custom)
				2: No-IP.com
				3: TZO.com
				4: dhs.org
dydns	0	hostname		
dydns	0	username		
dydns	0	password		
apply	ddns			

DHCP Server

Entity	Instance	Parameter	Values	Description
dhcp	0	list	?	
dhcp	n	server_name		add new rule should start on server name
dhcp	n	lan_ip		
dhcp	n	mask		
dhcp	n	ip_start		
dhcp	n	ip_end		
dhcp	n	lease_time		300 ~ 604800 seconds
dhcp	n	domain_name		

Entity	Instance	Parameter	Values	Description
dhcp	n	dns1		
dhcp	n	dns2		
dhcp	n	wins1		
dhcp	n	wins2		
dhcp	n	gw		
dhcp	n	enable	on/off	
dhcp	0	del	2/3/4	
apply	dhcp_server			
dhcp	n	fix_map_list	?	
dhcp	n	fix_map_mac	rule_index/mac	add new rule should start on mapping mac address
dhcp	n	fix_map_ip	rule_index/ip	
dhcp	n	fix_map_en	rule_index/(on/off)	
dhcp	n	fix_map_del	rule_index	
apply	fix_map			

3 Advanced Network

3.1 Firewall

Configuration

Entity	Instance	Parameter	Values	Description
firewall	0	conf_fw_enable	on/off	
apply	firewall			

Packet Filters - Configuration

Entity	Instance	Parameter	Values	Description
firewall	0	pf_enable	on/off	
firewall	0	pf_bw_list	0/1	0: Deny those match the following rules. 1: Allow those match the following rules.
firewall	0	pf_log	on/off	

Packet Filter List

Entity	Instance	Parameter	Values	Description
firewall	0	pf_list	?	
firewall	n	pf_name		add new rule should start on rule name
firewall	n	pf_from_if	(0/1/2)/(1/2/3/4)	(0:Any

				1:LAN
				2:WAN)/(index)
				0/0:Any
				1/1:LAN
				2/1:WAN-1
				2/2:WAN-2
				x/?: query
firewall	n	pf_to_if	(0/1/2)/(1/2/3/4)	(0:Any
				1:LAN
				2:WAN)/(index)
				0/0:Any
				1/1:LAN
				2/1:WAN-1
				2/2:WAN-2
				x/?: query
firewall	n	pf_sip	0/1/2/3	0: Any
				1: Specific IP Address
				2: IP Range
				3: IP Address-based Group
firewall	n	pf_src_ip		Any : 0.0.0.0
firewall	n	pf_sip_range		ip range: ip-ip
firewall	n	pf_sip_group		
firewall	n	pf_dip	0/1/2/3	0: Any
				1: Specific IP Address
				2: IP Range
				3: IP Address-based Group
firewall	n	pf_dst_ip		Any : 0.0.0.0
firewall	n	pf_dip_range		ip range: ip-ip
firewall	n	pf_dip_group		
firewall	n	pf_smac	0/1/2	0: Any
				1: Specific MAC Address
				2: MAC Address-based Group
firewall	n	pf_src_mac		Any : 00:00:00:00:00:00
firewall	n	pf_smac_group		
firewall	n	pf_protocol	0/1/2/4/5/7/8/99	0: Any
				4: ICMPv4
				1: TCP

				2: UDP
				5: GRE
				7: ESP
				8: SCTP
				99: Userdefined
firewall	n	pf_proto_num		
firewall	n	pf_dst_port		port range: x-x
firewall	n	pf_schedule	index	
firewall	n	pf_rule_en	on/off	
firewall	0	pf_del	n	
apply	firewall_pf			

3.2 Options

Firewall Options

Entity	Instance	Parameter	Values	Description
firewall	0	opt_stealth_mode	on/off	
firewall	0	opt_spi	on/off	
firewall	0	opt_pingfromwan	on/off	
firewall	0	opt_remote_adm	0/1/2	0:off
				1: on with HTTP
				2: on with HTTPS
firewall	0	opt_remote_type	0/1	1: Any
				2: Specific IP
firewall	0	opt_remote_ip		
firewall	0	opt_remote_mask	8~32	8:255.0.0.0
				9:255.128.0.0
				10:255.192.0.0
				11:255.224.0.0
				12:255.240.0.0
				13:255.248.0.0
				14:255.252.0.0
				15:255.254.0.0
				16:255.255.0.0
				17:255.255.128.0
				18:255.255.192.0
				19:255.255.224.0
				20:255.255.240.0
				21:255.255.248.0

			22:255.255.252.0
			23:255.255.254.0
			24:255.255.255.0
			25:255.255.255.128
			26:255.255.255.192
			27:255.255.255.224
			28:255.255.255.240
			29:255.255.255.248
			30:255.255.255.252
			31:255.255.255.254
			32:255.255.255.255
firewall	0	opt_remote_port	80: HTTP
			443: HTTPS
apply		firewall_opt	

4   Application

4.1   Mobile Application

Set SMS Receiver Phone Number

Entity	Instance	Parameter	Values	Description
sms	n	setphone	m	n: 3g index 1~16
				m:receiver phone number

Set SMS Context

Entity	Instance	Parameter	Values	Description
sms	n	setcontext	m	n: 3g index 1~16
				m:
				sms context

Send SMS

Entity	Instance	Parameter	Values	Description
sms	n	send		n: 3g index 1~16

Read SMS

Entity	Instance	Parameter	Values	Description
sms	n	read		n: 3g index 1~16

Delete SMS

Entity	Instance	Parameter	Values	Description
sms	n	delete	m	n: 3g index 1~16
				m: sms index