



Firmware Release Note

Prestige P2302R

Standard version

Release 3.60(MM.1)c0

Date:	January 24, 2005
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ZyXEL Prestige P2302R Standard Version release 3.60(MM.1)c0 Release Note

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Supported Platforms:

ZyXEL Prestige P2302R

Versions:

Bootbase Version: V1.06 | 11/05/2004 19:29:47

ZyNOS Version: V3.60(MM.1) | 01/24/2005 15:23:31

Notes:

1. Bootbase version MM1.06 support both Flash type (Intel and AMD).

Known Issues:

- 1 DDNS CI commands unable to display properly the settings after device reboot, but in web and SMT it works well.

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Modifications in V 3.60(MM.1)c0 | January 24, 2005

- 1 Change to FCS version

Modifications in V 3.60(MM.1)b4 | January 21, 2005

- 1 [ENHANCEMENT]
 - 1.1 Support ZyXEL New Mac OUI

Modifications in V 3.60(MM.1)b3 | January 21, 2005

- 1 [Bug Fixed]
 - 1.1 Peer-to-Peer call failed when setup WAN as fixed IP

Modifications in V 3.60(MM.1)b2 | January 19, 2005

- 1 [Bug Fixed]
 - 1.1 Device will enter debug mode during Power On/Off
 - 1.2 Voice compression.
 - 1.DUT1 sets G.711 only, DUT2 sets G.729 only.
 - 2.DUT1 calls DUT2 -->successful and uses G.711.
 - 3.DUT1sets G.711>G.729,
 - 4.DUT1 calls DUT2 -->successful and uses G.711.
- 2 [ENHANCEMENT]
 - 2.1 Support ZyXEL New Mac OUI

Modifications in V 3.60(MM.1)b1 | January 6, 2005

- 1 [Bug Fixed]
 - 1.1 Enable/Disable STUN server setting over 500 times, the voip page will not be displayed. It will show an error message: "Status:ERROR:Fail to update due to internal error (-6104)!".
- 2 [ENHANCEMENT]
 - 2.1 Change SIP server port and register server port start range from 1024 to 1
 - 2.2 Change local SIP port and RTP port start range from 1024 to 1025

Modifications in V 3.60(MM.0)b5 | December 30, 2004

- 1 [Bug Fixed]
 - 1.1 The upnp device description is shown Prestige 334.

Modifications in V 3.60(MM.0)b4 | December 24, 2004

- 1 [Bug Fixed]
 - 1.1 STUN binding request continuous sent even inactive from eWC
 - 1.2 STUN server address can not be saved in next procedure
 - 1. Do not touch SIP1 STUN setting
 - 2. Config SIP2 STUN server as 192.168.9.2 and active itResult: DUT sends STUN binding request to 69.0.208.27 not 192.168.9.2
- 2 Enable/Disable STUN server setting over 500 times, the voip page will not be displayed. It will show an error message: "Status:ERROR:Fail to update due to internal error (-6104)!".
- 3 [ENHANCEMENT]
 - 3.1 Adding UPnP Feature
 - 3.2 Activate Quick Route Feature

Modifications in V 3.60(MM.0)b3 | December 13, 2004

- 1 [Bug Fixed]
 - 1.1 ATA can not hear RBT in next procedure:
 - 1. Call own number first => hear busy tone => It is OK
 - 2. Make a call second => can not hear RBT tone
 - 1.2 Set PPtP as dynamic IP but can not dial up to PPtP server. Static IP is OK

- 1.3 GUI: WAN IP => PPTP configuration show dynamic IP as default, however static IP would be selected first when first time configure
- 1.4 Exception occurs when disable multicast (IGMP-v2).
 - 1. Link Cisco IP/TV server to WAN port.
 - 2. Start DUT up and then it will occur exception.
 - 3. Link Cisco IP/TV server to LAN port.
 - 4. Start DUT up and then it will occur exception, too.
- 1.5 Autopro can upgrade configuration file from TFTP server but fail to save in DUT
- 1.6 STUN server address can not be saved in next procedure
 - 1. Do not touch SIP1 STUN setting
 - 2. Config SIP2 STUN server as 192.168.9.2 and active itResult: DUT sends STUN binding request to 69.0.208.27 not 192.168.9.2
- 1.7 Autopro default retry timer and timeout value should not be 0. P2602HW-61 is retry 180 sec, timeout 3600.
- 1.8 In CI command, restore to default romfile will cause system hang on.
 - 1. In SMT 24.8, input "sys rom" and click enter button, and then input "y".
 - 2. The system will show "y..." and then hang on

Modifications in V 3.60(MM.0)b2 | November 26, 2004

- 1 [Bug Fixed]
 - 1.1 (13)Run CI command ip nat hashTable enif0 would cause exception
 - 1.2 (17)NAT none and full feature does not work
 - 1.3 (23)Firmware update failed. It will show error message: Disk full.
 - 1.4 (35)ATA will hang on when running stress test
 - 1. FTP upload/download file continuous from LAN to WAN
 - 3. Make VoIP to VoIP conversation several timeResult: ATA hang on and can not access
 - 1.5 (41)Exception occurs sometimes when enable LAN IP alias function.
 - 1.6 (1)Software restore to default value will show error message: Your browser can't handle this script, it can't cause any side effect. You can feel easy in mind.
 - 1. Launch IE 6.0 SP1 (Chinese edition).
 - 2. At the maintenance/configuration page, click reset button.
 - 3. Click ok button to allow to restore and then the error message will pop up.
 - 4. Click ok button, but DUT will still restore to factory default value.
 - 1.7 (2)Software restart DUT will show error message: Your browser can't handle this script, it can't cause any side effect. You can feel easy in mind.
 - 1. Launch IE 6.0 SP1 (Chinese edition).
 - 2. At the maintenance/restart page, click restart button.
 - 3. The error message will pop up.
 - 4. Click ok button, but DUT will still restart.
 - 1.8 (3)In System/General help page, the description of system DNS servers is missing.
 - 1.9 (9)1. MAINTENANCE => LAN port IP address always show 0.0.0.0
 - 2. DHCP status is not correct.
 - 1.10 (16)GUI: WAN =>WAN IP: the warning message for NetBios "(You also need to create a firewall rule!)" should be removed
 - 1.11 (29)Wrong spelling in phone => common. It should be "common"
 - 1.12 (6)DUT name in WAN/WAN ISP help page is shown ZyAIR.
 - 1.13 (7)DUT name in WAN/WAN IP help page is shown ZyAIR.
 - 1.14 (11)DUT name in Static route help page is shown ZyAIR.
 - 1.15 (14)GUI: SUA=>trigger Port => port rule should be deletable
 - 1.16 (24)DUT name in SUA/SUA server help page is shown ZyAIR.
 - 1.17 (25)DUT name in SUA/Addr Mapping help page is shown ZyAIR.
 - 1.18 (26)DUT name in all the remote MGNT help page is shown ZyAIR.
 - 1.19 (27)Phone 2 LED should be lighted when call is coming. Now only phone 1 LED is lighted
 - 1.20 (36)DUT name in General/DDNS help page is shown ZyAIR.
 - 1.21 (37)DUT name in LAN/IP Alias help page is shown Prestige.

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- 1.22 (39)DUT name in WAN/Traffic redirect help page is shown Prestige.
- 1.23 (10)The http hyperlink in login page should not be www.zyxel.com.tw
- 2 [ENHANCEMENT]
Adding SIP page into Wizard Setup

CI commands

Annex A CI Command List

Command Class List Table		
System Related Command	Exit Command	Device Related Command
Ethernet Related Command	POE Related Command	PPTP Related Command
Configuration Related Command	IP Related Command	PPP
Hdap	DSP	Voice

System Related Command

Command				Description
sys				
	adjtime			retrive date and time from Internet
	callhist			
		display		display call history
		remove	<index>	remove entry from call history
	countrycode		[countrycode]	set country code
	date		[year month date]	set/display date
	domainname			display domain name
	edit		<filename>	edit a text file
	extraphnum			maintain extra phone numbers for outcalls
		add	<set 1-3> <1st phone num> [2nd phone num]	add extra phone numbers
		display		display extra phone numbers
		node	<num>	set all extend phone number to remote node <num>
		remove	<set 1-3>	remove extra phone numbers
		reset		reset flag and mask
	feature			display feature bit
	hostname		[hostname]	display system hostname
	logs			
		category		
			access [0:none/1:log/2:alert/3:both]	record the access control logs

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			attack [0:none/1:log/2:alert/3:both]	record and alert the firewall attack logs
			display	display the category setting
			error [0:none/1:log/2:alert/3:both]	record and alert the system error logs
			ipsec [0:none/1:log/2:alert/3:both]	record the access control logs
			ike [0:none/1:log/2:alert/3:both]	record the access control logs
			javablocked [0:none/1:log]	record the java etc. blocked logs
			mten [0:none/1:log]	record the system maintenance logs
			upnp [0:none/1:log]	record upnp logs
			urlblocked [0:none/1:log/2:alert/3:both]	record and alert the web blocked logs
			urlforward [0:none/1:log]	record web forward logs
		clear		clear log
		display	[access attack error ipsec ike javablocke d mten urlblocked urlfor ward]	display all logs or specify category logs
		errlog		
			clear	display log error
			disp	clear log error
			online	turn on/off error log online display
		load		load the log setting buffer
		mail		
			alertAddr [mail address]	send alerts to this mail address
			display	display mail setting
			logAddr [mail address]	send logs to this mail address
			schedule display	display mail schedule
			schedule hour [0-23]	hour time to send the logs
			schedule minute [0-59]	minute time to send the logs
			schedule policy [0:full/1:hourly/2:daily/3:weekly/4:non e]	mail schedule policy
			schedule week [0:sun/1:mon/2:tue/3:wed/4:thu/5:fri/6: sat]	weekly time to send the logs
			server [domainName/IP]	mail server to send the logs
			subject [mail subject]	mail subject
		save		save the log setting buffer

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		syslog		
			active [0:no/1:yes]	active to enable unix syslog
			display	display syslog setting
			facility [Local ID(1-7)]	log the messages to different files
			server [domainName/IP]	syslog server to send the logs
	log			
		clear		clear log error
		disp		display log error
		online	[on off]	turn on/off error log online display
		resolve		Resolve mail server and syslog server address
	mbuf			
		link	link	list system mbuf link
		pool	<id> [type]	list system mbuf pool
		status		display system mbuf status
		disp	<address>	display mbuf status
		cnt		
			disp	display system mbuf count
			clear	clear system mbuf count
		debug	[on off]	
	pwderrtm		[minute]	Set or display the password error blocking timeout value.
	rn			
		load	<entry no.>	load remote node information
		disp	<entry no.>(0:working buffer)	display remote node information
		nat	<none sua full_feature>	config remote node nat
		nailup	<no yes>	config remote node nailup
		mtu	<value>	set remote node mtu
		save	[entry no.]	save remote node information
	smt			not support in this product
	stdio		[minute]	change terminal timeout value
	time		[hour [min [sec]]]	display/set system time
	trcdisp			monitor packets

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	trclog			
	trcpacket			
	syslog			
		server	[destIP]	set syslog server IP address
		facility	<FacilityNo>	set syslog facility
		type	[type]	set/display syslog type flag
		mode	[on off]	set syslog mode
	version			display RAS code and driver version
	view		<filename>	view a text file
	wdog			
		switch	[on off]	set on/off wdog
		cnt	[value]	display watchdog counts value: 0-34463
	romreset			restore default romfile
	server			
		access	<telnet ftp web icmp snmp dns> <value>	set server access type
		load		load server information
		disp		display server information
		port	<telnet ftp web snmp> <port>	set server port
		save		save server information
		secureip	<telnet ftp web icmp snmp dns> <ip>	set server secure ip addr
	fwnotify			
		load		load fwnotify entry from spt
		save		save fwnotify entry to spt
		url	<url>	set fwnotify url
		days	<days>	set fwnotify days
		active	<flag>	turn on/off fwnotify flag
		disp		display firmware notify information
		check		check firmware notify event
		debug	<flag>	turn on/off firmware notify debug flag
	cmgr			
		trace		

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			disp <ch-name>	show the connection trace of this channel
			clear <ch-name>	clear the connection trace of this channel
		cnt	<ch-name>	show channel connection related counter
	socket			display system socket information
	filter			
		netbios		
	roadrunner			
		debug	<level>	enable/disable roadrunner service 0: disable <default> 1: enable
		display	<iface name>	display roadrunner information iface-name: enif0, wanif0
		restart	<iface name>	restart roadrunner
	ddns			
		debug	<level>	enable/disable ddns service
		display	<iface name>	display ddns information
		restart	<iface name>	restart ddns
		logout	<iface name>	logout ddns
	cpu			
		display		display CPU utilization
	filter			
		netbios		
	upnp			
		active	[0:no/1:yes]	Activate or deactivate the saved upnp settings
		config	[0:deny/1:permit]	Allow users to make configuration changes. through UPnP
		display		display upnp information
		firewall	[0:deny/1:pass]	Allow UPnP to pass through Firewall.
		load		save upnp information
		save		save upnp information
	atwz		<mac_address> <country code> <debug flag> < main feature bits><1:reboot 0:no reboot>	Change Mac address (due to ZyXEL New Mac OUI) with 12 digits configuration. Ref: This command only saves the last 12 digits inputted.

Exit Command

Command				Description
exit				exit smt menu

Device Related Command

Command				Description
dev				
	channel			
		drop	<channel_name>	drop channel
	dial		<node#>	dial to remote node

Ethernet Related Command

Command				Description
ether				
	config			display LAN configuration information
	driver			
		cnt		
			disp <name>	display ether driver counters
		ioctl	<ch_name>	Useless in this stage.
		status	<ch_name>	see LAN status
	version			see ethernet device type
	pkttest			
		disp		
			packet <level>	set ether test packet display level
			event <ch> [on/off]	turn on/off ether test event display
		sap	[ch_name]	send sap packet
		arp	<ch_name> <ip-addr>	send arp packet to ip-addr
	debug			

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		disp	<ch_name>	display ethernet debug infomation
		level	<ch_name> <level>	set the ethernet debug level level 0: disable debug log level 1:enable debug log (default)
	edit			
		load	<ether no.>	load ether data from spt
		mtu	<value>	set ether data mtu
		accessblock	<0:disable 1:enable>	block internet access
		save		save ether data to spt

POE Related Command

Command				Description
poe				
	status		[ch_name]	see poe status
	dial		<node>	dial a remote node
	drop		<node>	drop a pppoe call
	ether		[rfc 3com]	set /display pppoe ether type

PPTP Related Command

Command				Description
pptp				
	dial		<rn-name>	dial a remote node
	drop		<rn-name>	drop a remote node call
	tunnel		<tunnel id>	display pptp tunnel information

Configuration Related Command

Command					Description
config					The parameters of config are listed below.
edit	firewall	active <yes no>			Activate or deactivate the saved firewall settings
retrieve	firewall				Retrieve current saved firewall settings
save	firewall				Save the current firewall settings

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display	firewall				Displays all the firewall settings
		set <set#>			Display current entries of a set configuration; including timeout values, name, default-permit, and number of rules in the set.
		set <set#>	rule <rule#>		Display current entries of a rule in a set.
		attack			Display all the attack alert settings in PNC
		e-mail			Display all the e-mail settings in PNC
		?			Display all the available sub commands
		e-mail	mail-server <mail server IP>		Edit the mail server IP to send the alert
			return-addr <e-mail address>		Edit the mail address for returning an email alert
			e-mail-to <e-mail address>		Edit the mail address to send the alert
			policy <full hourly daily weekly>		Edit email schedule when log is full or per hour, day, week.
			day <sunday monday tuesday wednesday thursday friday saturday>		Edit the day to send the log when the email policy is set to Weekly
			hour <0~23>		Edit the hour to send the log when the email policy is set to daily or weekly
			minute <0~59>		Edit the minute to send to log when the email policy is set to daily or weekly
			Subject <mail subject>		Edit the email subject
		attack	send-alert <yes no>		Activate or deactivate the firewall DoS attacks notification emails
			block <yes no>		Yes: Block the traffic when exceeds the tcp-max-incomplete threshold
					No: Delete the oldest half-open session when exceeds the tcp-max-incomplete threshold
			block-minute <0~255>		Only valid when sets 'Block' to yes. The unit is minute
			minute-high <0~255>		The threshold to start to delete the old half-opened sessions to minute-low
			minute-low <0~255>		The threshold to stop deleting the old half-opened session
			max-incomplete- high <0~255>		The threshold to start to delete the old half-opened sessions to max-incomplete-low

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			max-incomplete-low <0~255>		The threshold to stop deleting the half-opened session
			tcp-max-incomplete <0~255>		The threshold to start executing the block field
		set <set#>	name <desired name>		Edit the name for a set
			default-permit <forward block>		Edit whether a packet is dropped or allowed when it does not match the default set
			icmp-timeout <seconds>		Edit the timeout for an idle ICMP session before it is terminated
			udp-idle-timeout <seconds>		Edit the timeout for an idle UDP session before it is terminated
			connection-timeout <seconds>		Edit the wait time for the SYN TCP sessions before it is terminated
			fin-wait-timeout <seconds>		Edit the wait time for FIN in concluding a TCP session before it is terminated
			tcp-idle-timeout <seconds>		Edit the timeout for an idle TCP session before it is terminated
			pnc <yes no>		PNC is allowed when 'yes' is set even there is a rule to block PNC
			log <yes no>		Switch on/off sending the log for matching the default permit
			rule <rule#>	permit <forward block>	Edit whether a packet is dropped or allowed when it matches this rule
				active <yes no>	Edit whether a rule is enabled or not
				protocol <0~255>	Edit the protocol number for a rule. 1=ICMP, 6=TCP, 17=UDP...
				log <none match not-match both>	Sending a log for a rule when the packet none matches not match both the rule
				alert <yes no>	Activate or deactivate the notification when a DoS attack occurs or there is a violation of any alert settings. In case of such instances, the function will send an email to the SMTP destination address and log an alert.
				srcaddr-single <ip address>	Select and edit a source address of a packet which complies to this rule
				srcaddr-subnet <ip address> <subnet mask>	Select and edit a source address and subnet mask if a packet which complies to this rule.
				srcaddr-range <start ip address> <end ip address>	Select and edit a source address range of a packet which complies to this rule.
				destaddr-single <ip address>	Select and edit a destination address of a packet which complies to this rule

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				destaddr-subnet <ip address> <subnet mask>	Select and edit a destination address and subnet mask if a packet which complies to this rule.
				destaddr-range <start ip address> <end ip address>	Select and edit a destination address range of a packet which complies to this rule.
				tcp destport-single <port#>	Select and edit the destination port of a packet which comply to this rule. For non-consecutive port numbers, the user may repeat this command line to enter the multiple port numbers.
				tcp destport-range <start port#> <end port#>	Select and edit a destination port range of a packet which comply to this rule.
				udp destport-single <port#>	Select and edit the destination port of a packet which comply to this rule. For non-consecutive port numbers, users may repeat this command line to enter the multiple port numbers.
				udp destport-range <start port#> <end port#>	Select and edit a destination port range of a packet which comply to this rule.
				desport-custom <desired custom port name>	Type in the desired custom port name
delete	firewall	e-mail			Remove all email alert settings
		attack			Reset all alert settings to defaults
		set <set#>			Remove a specified set from the firewall configuration
		set <set#>	rule <rule#>		Remove a specified rule in a set from the firewall configuration
insert	firewall	e-mail			Insert email alert settings
		attack			Insert attack alert settings
		set <set#>			Insert a specified rule set to the firewall configuration
		set <set#>	rule <rule#>		Insert a specified rule in a set to the firewall configuration
cli					Display the choices of command list.
debug	<1 0>				Turn on off trace for firewall debug information.

IP Related Command

Command				Description
ip				
	address		[addr]	display host ip address
	alias		<iface>	alias iface

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	aliasdis		<0 1>	disable alias
	arp			
		status	<iface>	display ip arp status
	dhcp		<iface>	
		client		
			release	release DHCP client IP
			renew	renew DHCP client IP
		status	[option]	show dhcp status
	dns			
		query		
		server	<primary> [secondary] [third]	set dns server
		stats		
			clear	clear dns statistics
			disp	display dns statistics
	httpd			
	icmp			
		status		display icmp statistic counter
		discovery	<iface> [on/off]	set icmp router discovery flag
	ifconfig		[iface] [ipaddr] [broadcast <addr> mtu <value> dynamic]	configure network interface
	ping		<hostid>	ping remote host
	route			
		status	[if]	display routing table
		add	<dest_addr default>[/<bits>] <gateway> [<metric>]	add route
		addiface	<dest_addr default>[/<bits>] <gateway> [<metric>]	add an entry to the routing table to iface
		addprivate	<dest_addr default>[/<bits>] <gateway> [<metric>]	add private route
		drop	<host addr> [/<bits>]	drop a route
	smtp			
	status			display ip statistic counters
	stroute			

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		display	[rule # buf]	display rule index or detail message in rule.
		load	<rule #>	load static route rule in buffer
		save		save rule from buffer to spt.
		config		
			name <site name>	set name for static route.
			destination <dest addr>[/<bits>] <gateway> [<metric>]	set static route destination address and gateway.
			mask <IP subnet mask>	set static route subnet mask.
			gateway <IP address>	set static route gateway address.
			metric <metric #>	set static route metric number.
			private <yes no>	set private mode.
			active <yes no>	set static route rule enable or disable.
	traceroute		<host> [ttl] [wait] [queries]	send probes to trace route of a remote host
	xparent			
		join	<iface1> [<iface2>]	join iface2 to iface1 group
		break	<iface>	break iface to leave ipxparent group
	ave			anti-virus enforce
	urlfilter			
		reginfo		
			display	display urlfilter registration information
			name	set urlfilter registration name
			eMail <size>	set urlfilter registration email addr
			country <size>	set urlfilter registration country
			clearAll	clear urlfilter register information
		category		
			display	display urlfilter category
			webFeature [block/nonblock] [activex/java/cookei/webproxy]	block or unblock webfeature
			logAndBlock [log/logAndBlock]	set log only or log and block
			blockCategory [block/nonblock] [all/type(1-14)]	block or unblock type
			timeOfDay [always/hh:mm] [hh:mm]	set block time
			clearAll	clear all category information

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		listUpdate		
			display	display listupdate status
			actionFlags [yes/no]	set listupdate or not
			scheduleFlag [pending]	set schedule flag
			dayFlag [pending]	set day flag
			time [pending]	set time
			clearAll	clear all listupdate information
		exemptZone		
			display	display exemptzone information
			actionFlags [type(1-3)][enable/disable]	set action flags
			add [ip1] [ip2]	add exempt range
			delete [ip1] [ip2]	delete exempt range
			clearAll	clear exemptzone information
		customize		
			display	display customize action flags
			logFlags [type(1-3)][enable/disable]	set log flags
			add [string] [trust/untrust/keyword]	add url string
			delete [string] [trust/untrust/keyword]	delete url string
			clearAll	clear all information
		logDisplay		display cyber log
		ftplist		update cyber list data
		listServerIP	<ipaddr>	set list server ip
		listServerName	<name>	set list server name
	tredir			
		failcount	<count>	set tredir failcount
		partner	<ipaddr>	set tredir partner
		target	<ipaddr>	set tredir target
		timeout	<timeout>	set tredir timeout
		checktime	<period>	set tredir checktime
		active	<on/off>	set tredir active
		save		save tredir information

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		disp		display tredir information
		debug	<value>	set tredir debug value
	nat			
		server		
			disp	display nat server table
			load <set id>	load nat server information from ROM
			save	save nat server information to ROM
			clear <set id>	clear nat server information
			edit active <yes no>	set nat server edit active flag
			edit svrport <start port> [end port]	set nat server server port
			edit intport <start port> [end port]	set nat server forward port
			edit remotehost <start ip> [end ip]	set nat server remote host ip
			edit leasetime [time]	set nat server lease time
			edit rulename [name]	set nat server rule name
			edit forwardip [ip]	set nat server server ip
			edit protocol [protocol id]	set nat server protocol
			edit clear	clear one rule in the set
		service		
			irc [on off]	turn on/off irc flag
		resetport		reset all nat server table entries
		incikeport	[on off]	turn on/off increase ike port flag
	igmp			
		debug	[level]	set igmp debug level
		forwardall	[on off]	turn on/off igmp forward to all interfaces flag
		querier	[on off]	turn on/off igmp stop query flag
		iface		
			<iface> grouptm <timeout>	set igmp group timeout
			<iface> interval <interval>	set igmp query interval
			<iface> join <group>	join a group on iface
			<iface> leave <group>	leave a group on iface
			<iface> query	send query on iface

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			<iface> rsptime [time]	set igmp response time
			<iface> start	turn on of igmp on iface
			<iface> stop	turn off of igmp on iface
			<iface> ttl <threshold>	set ttl threshold
			<iface> v1compat [on off]	turn on/off v1compat on iface
		robustness	<num>	set igmp robustness variable
		status		dump igmp status
	pr			

PPPoA Related Command

Command				Description
ppp				
bod				
ccp				
lcp				
	acfc			Address/Control Field Compression
	pfc			Protocol Field Compression
	mpin			Incoming calls' MP
	callback			Callback
	bacp			Bandwidth Allocation Control
	echo			
		retry	<retry-count>	retry count to send echo-request
		time	<time(s)>	time interval to send echo-request
ipcp				
	close			
	list		<iface>	
	open			
	timeout			
	try			
		configure		
		failure		

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		terminate		
	compress			Disable or enable VJ header compress
	slots			Set number of slots
	idcompress			Disable or enable Slot ID compress
	address			Disable or enable IPCP address option
mp				
	default			Link default on as rotat
	split		y ,yes, true, on 1 set enable n ,no, false off 0 clear disable	
	rotate		y ,yes, true, on 1 set enable n ,no, false off 0 clear disable	Link rotate
	sequence			Set MP start sequence
configur e				
	ipcp			
		compress		Disable or enable VJ header compress
		slots		Set number of slots
		idcompress		Disable or enable Slot ID compress
		address		Disable or enable IPCP address option
	ccp			
		ascend		Disable or enable Ascend Stac
		history	only 0 or 1 allowed	Set Stac History Cnt
		check		Stac check mode
		reset		Ascend Stac reset mode
		pfc		Disable or enable PFC
		debug		Disable or enable CCP debug
iface			<name> <ptcl>	
show			<channel>	
fsm				
	trace			
		break		

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		clear		
		disp		
		filter		
	tdata			
		filter		
		disp		
		clear		
delay				Set PPP pkt delay(ms)

Hdap Related Command

Command				Description
sys	Hdap			
		debug	on or off	
		reset		

Dsp Related Command

Command				Description
dsp				
phonetest			1 or 0	
ringtest			[ID] [Item]	
slic_dump			[tcid:0/1]	
spylevel			0: General Info 1: Entering Function 2: Normal and Expected Event 3: Minor Unexpected Event 4: Major Unexpected Event 5: Fatal Error 6: Turn off Spy	Set spy level
companding			1: A Law 2: Mu Law 3: Linear	Set current companding
tonetest			[ID] [Number]	
dspi			show [<image_id> <level>]	
dim				
	opt		<opt_value>	Set a DSP Option
	ver			Display DSP version information

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	stats		<dsp> [clear] <dsp> <chan> [clear]	Display/Clear Dsp Stats Display/Clear Channel Stats
	frfstats			Display FRF.11 Stats
	dump		<dsp> <offset (hex)> <length (decimal - words)>	
	silence		<tcid>	
	cfg			Dim Config info
	pcm_trace		<tcid> <on> [on_count] [off_count] <tcid> <off>	Turn on PCM sample trace Turn off PCM sample trace
	poll stats			Dim poll period stats
	set_poll		<msecs>	Set the DIM poll period manually
	gsync		<tcid> <msecs>	Send grant sync to DSP
	aal2_prof		<tcid>	Display the active AAL2 profile
	set_voice_poll		<on off>	Enable/disable voice pkt polling
fxs				
	reg		<tcid> <regnum> [<regval>]	Display/Set direct register
	ireg		<tcid> <regnum> [<regval>]	Display/Set indirect register
	power			Display Power up status
	calib			Display Calibration status
cc			TI DSP command	

Voice Related Command

Command					Description
voice					
config					
	rtp				
		index		<index>	Select RTP index.
		sortingbuffer		<index> <0:0ms 1:10ms 2:20ms>	Disable or enable receive sorting buffer(default 0 ms)
		rtcpinterval		<index> <ms>	Change the RTCP transmission interval(default 15000)
		packetsize		<index>g711<0:10ms 1:20ms 2:30ms>g729<0:10ms 1:20ms 2:30ms>	Change the transmit packetized period(default 10ms)
		save		<index>	Save the configured value

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		display		<index>	Display the configured value.
		dumpCfg			Display working buffer value.
		free			Free working buffer.
	pstn				
		index		<index>	Select the PSTN index
		phonebook		<index> <0~32 digits/blank>	Signaling the phone number
		prefixcode		<index> <1:enable 0:disable>	Disable or enable the prefix code
		active		<index> <1:active 0:in-active>	Disable or enable the speed dial
		save		<index>	Save the configured value
		display			Display the configured value.
		dumpCfg		<index>	Display working buffer value.
		free			Free working buffer.
	signal				
		active		<index> <1:active 0:in-active>	Active/in-active this setting.
		index		<index>	Select SIP index.
		register		<index> <auto enter exit>	Change the registrar type
		registertimeout		<index> <second>	Setup registration timeout value. (default 3600 sec)
		registerresendtime		<index> <second>	Setup registration resend timeout value.
		minse		<index> <100-1800 second>	Setup minimum session timeout value.
		retransmitT2		<index> <4 8 16 32sec>	Not support yet
		sessiontimeout		<index> <100-3600 second>	Setup session timeout value(default 300 sec)
		serveraddress		<index> <ip address>	Signaling server address
		serverport		<index> <1024-65535>	Signaling server port (default 5060)
		registeraddress		<index> <ip address>	Signaling register address
		registerport		<index> <1024-65535>	Signaling register port(default 5060)
		userid		<index> <0-20 chars>	Signaling SIP user-id
		password		<index> <0-20 chars>	Signaling SIP password
		urltype		<index> <sip tel>	SIP URL type

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		port		<index> <1024-65535>	Signaling port
		phonenumber		<index> <0-32 chars>	Signaling phone number
		domain		<index> <1-128 chars>	Setup domain of SIP service
		dtmf		<index> <rfc2833 pcm sipinfo>	Setup DTMF key type.
		pri_compression		<index> <0:G711mu 8:G711A 18:G729>	Change the primary compression type
		sec_compression		<index> <0:G711mu 8:G711A 18:G729>	Change the secondary compression type
		portrange		<index> <start port> <end port> (49152~65534)	RTP/RTCP port range setting
		transport		<index> <udp tcp>	Setup SIP transport type.
		callerid		<index> <disable enable>	Disable or enable the caller id feature for VoIP.
		autoredialpstn		<index> <disable enable>	Disable or enable the auto redial
		phoneselect		<index><phone port 0:All><0:No 1:Yes>	Setup incoming call mapping to phone port.
		vlantag		<index> <disable enable>	Enable/disable VLAN Tag in VoIP packet.
		tpid_vlantag		<index> <TPID value (4 Byte)>	Setup VLAN Tag - TPID.
		vid_vlantag		<index> <VID value (3 Byte)>	Setup VLAN Tag - VID.
		priority_vlantag		<index> <TCI value (0-7)>	Setup VLAN Tag - TCI.
		diffservrtp		<index> <0-7>	Setup DiffServRtp for QoS.
		diffservsip		<index> <0-7>	Setup DiffServSip for QoS.
		stunactive		<index> <0:off 1:on>	Active/in-active STUN service.
		stunservaddr		<index> <ip address>	Setup STUN server IP Address.
		stunservport		<index> <port>	Setup STUN server port number.
		mwiaactive		<index> <0:off 1:on>	Disable or enable the voice message
		save		<index>	Save the configured value
		display		<index>	Display the configured value.
		dumpCfg			Display working buffer value.
		free			Free working buffer.
	dsp				
		index		<index>	Select DSP index.

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		echocancellation		<index> <enable disable>	Disable or enable the echo cancellation
		jittersize		<index> <0~90>ms	Change the jitter buffer size for DSP
		start		<index> <loop ground>	Change the pots type.
		vad		<index> <enable disable>	Disable or enable the VAD
		dialtype		<index> <pstn tone pulse>	Change the dialing type
		dialtonetype		<index> <ntt:pdt>	Change the dial tone type
		dialinterval		<index> <3~5>	Change the dialing interval
		flashinterval		<index> <1:1.2sec 2:2.2sec>	Change the flash key interval
		inputvolume		<index> <0 ~ -15>	Change the input volume gain
		outputvolume		<index> <0 ~ -15>	Change the output volume gain
		receivetonetypetype		<index> <ir sir>	Change the receive tone type.
		sipselect		<index><phoneport 0:All><0:No 1:Yes>	Select SIP index and Disable or enable the SIP
		vifsize		<index> <1:10ms 2:20ms 3:30ms>	
		save		<index>	Save the configured value
		display		<index>	Display the configured value.
		dumpCfg			Display working buffer value.
		free			Free working buffer.
		dspi		<image_id> <level>	level is 1 for least info up to 4 for most levels at or above 4 produce several minutes worth of listings
		dim			
			opt	<opt_value>	
			ver		
			stats	<dsp> [clear] <dsp> <chan> [clear]	Display/Clear Dsp Stats Display/Clear Channel Stats
			frfstats		Display FRF.11 Stats
			dump	<dsp> <offset (hex)> <length (decimal - words)>	
			silence	<tcid>	

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			cfg		Dim Config info
			pcm_trace	<tcid> <on> [on_count] [off_count] <tcid> <off>	Turn on PCM sample trace Turn off PCM sample trace
			poll_stats		Dim poll period stats
			set_poll	<msecs>	Set the DIM poll period manually
			gsync	<tcid> <msecs>	Send grant sync to DSP
			aal2_prof	<tcid>	Display the active AAL2 profile
			set_voice_poll	<on/off>	Enable/disable voice pkt polling
		fxs			si3210 Debug Commands
			reg	<tcid> <regnum> [<regval>]	Display/Set direct register
			ireg	<tcid> <regnum> [<regval>]	Display/Set indirect register
			power		Display Power up status
			calib		Display Calibration status
		cc		TI DSP command	RD debug command.
	phbook				
		index		<index>	Select phone book index.
		active		<index> <1:active 0:inactive>	Active/in-active this setting.
		orignum		<index> <0~32 digits>	Setup phone number for this index of phone book.
		forcesipuri		<index> <1-128 chars>	Setup force SIP URI.
		speednum		<index> <0~32 digits>	Setup speed dial number.
		name		<index> <name>	Setup the name for the description.
		type		<index> <0:Proxy 1:NonProxy>	Select Proxy or Non-Proxy type.
		save		<index> Please select the Phone Book index to configure: 1 ~ 10	Save the configured value
		display		<index>	Display the configured value.
		dumpCfg		<index>	Display working buffer value.
		free		<index> <1:active 0:inactive>	Free working buffer.
	common				

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		index		<index>	
		save		<index>	Save the configured value.
		removepound		<index> <0:not removed 1:removed pound>	
		countrycode		<index><CountryCode h:for help>	Set the countrycode
		display		<index>	Display the configured value.
		dumpCfg		<index>	Display working buffer value.
	autopro				
		index			
		active			Disable or enable autopro
		servaddr			Set the server address
		timeout			
		retry			Disable or enable retry
		save			Save the configured value.
		display			Display the configured value.
		dumpCfg			Display working buffer value.
	version				Show the VOIP version
fsm					
	status			<phone ccm convert rtp ua>	Display the status of fsm.
	convert			<disp reset<u_id s_id ype>>	Display convert information or reset convert.
	debug			<all phone ccm sip ua rtp>	Turn on debug message.
sip					
	tl			<0 1 2 3 ... 7>	SIP debug trace level 0:None 1: All 2: Tx 3:Rx 4: TXRx 5: State 6: Error 7: Warning
	siginit				Init SIP SIG task

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	sipinit				Init SIP protocol stack
	sipterm				Delete SIP protocol stack
	sigmakecall			type in phone num	Make Call
	sigbusy				Response Busy Call
	sigringback				Response Ring
	sigreg			<index>	Register to SIP server
	sigunreg			<index>	Unregister Sip server.
	regstatus			<index>	Show register's information.
	sigok				pick up a call
	sigbye				drop or cancel a call
	sipclose				Close the SIP
	username				
	proxy			<0:off 1:on>	Use SIP proxy
	contact			<LAN Addr:0 Remote Node# WAN Addr:1-2>	
	ackbranch			<on: the Ack bring branch ID, off: the Ack didn't bring branch ID>	Setup bring branch ID.
	rfc3262			<1: turn on RFC3262, 0: turn off RFC3262>	Disable or enable the rfc3262
	rfc3325			<1: privacy call using RFC3325, 0: privacy call using draft-01>	Disable or enable the rfc3325
	wanip				STUN debug command.
	port				STUN debug command.
	keepalive			<index>	STUN debug command.
	checkwan			<index>	Display WAN IP/Port for SIP.
	changemedia			<index> <RTP addr> <RTP port>	RD debug command.
	siglistdump			<index>	RD debug command.
	dl				Set up SIP trace level
	sigmwi			<index>	
	sigunmwi			<index>	
	disconnect			<index> or 'all'	

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rtp					
	bye	[port]	[sessid]		
	connect			port[0-3] destIp destPort srcPort PT	
	add			port[0-3] destIp destPort srcPort PT	
	table				Display all the current active RTP session
	usage				Display all the used port
	rxtime			<msec>	Setup RX time
	txtime			<msec>	Setup TX time
	Dtmf			digit# 1 = 1 digit# 2 = 2 digit# 3 = 3	Set the DTMF value.
	statistics			<index>	Show the statistics
	linktime			<index>	Show the RTP linktime
logTest					RD debug command.
tebasic					For TE use only.