ZyXEL

Firmware Release Note

Prestige 650R-33

Standard version

Release 3.40(IO.1)C0

Date: **Sep 18, 2003**
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Supported Platforms:

ZyXEL Prestige 650R-33

Versions:

ZyNOS Version   : V3.40(IO.1) | 9/18/2003 8:42:11
Bootbase Version   : V1.11 | 3/4/2003 10:26:13

Notes:

Known Issues:

Features:
Modifications in V 3.40(IO.1) | 09/18/2003
1. Change FCS version

Modifications in V 3.40(IO.1)b2 | 09/08/2003
1.   [FEATURE ENHANCED]
     Symptom: Merge VC auto hunting feature
2. [FEATURE ENHANCED]
     Symptom: Add CI command "ip adjmss [<mss>]" to adjust TCP mss value
3. [BUG FIXED]
     Symptom: The system will reboot in 10M half-duplex mode under big traffic

Modifications in V 3.40(IO.1)b1 | 06/24/2003
4. [NEW FEATURE]
     Symptom: Support Goalie CNM (Centralized Network Management) feature.
     CI command "cnm active 1" could be used to active this feature. The default is inactive.
     CI command "cnm managerIp xxx.xxx.xxx.xxx" is used to specify the IP address of
     the ZyXEL's CNM management station. For details for CNM, please reference to the
     User Guide for CNM.
5. [FEATURE ENHANCED]
     Symptom: Add WAN feature (in Advance Panel) and improve wizard configuration in
     web-pages.
6. [FEATURE ENHANCED]

Symptom: Add Time Zone web-page in Advanced Setup panel.
7. [FEATURE EHANCED]
Symptom: Enhance SPTGEN feature
Condition:
1) Add RIP direction and version for SMT menu4.
2) Add active and protocol option for SMT menu15 (NAT).
3) Extend filter set to 2 sets.
4) Support ADSL opencmd function.
8. [FEATURE CHANGED] Use AT command "atld" without enabled debug flag
9. [BUG FIXED]
Symptom: Protected "rom-0" file, when user no login.
Condition: Protected "rom-0" file, when user no login.
10. [BUG FIXED]
Symptom: If the traffic for Polycom camera pass our router, the router would be reboot.
11. [BUG FIXED]
Symptom: Can't play XBox Live via NAT router.

Modifications in V 3.40(IO.0)C0 | 12/9/2002
1. [BUG FIXED]
Symptom: LAN external loopback failed in HTP.
Condition: LAN external loopback failed in HTP.
2. [BUG FIXED]
Symptom: When users save the setting in web security page, the system will reboot.
Condition: When users save the setting in web security page, the system will reboot.

Modifications in V 3.40(IO.0)b3 | 11/27/2002
1. [BUG FIXED]
Symptom: Cell lost at the upstream.
Condition: Cell lost at the upstream.
2. [BUG FIXED]
Symptom: Bridge mode can't work.
Condition: Bridge mode can't work.

Modifications in V 3.40(IO.0)b2 | 11/13/2002
1. [FEATURE ENHANCED] Add UPNP Feature.
2. [FEATURE ENHANCED] Add Traffic Redirection Feature (detected by ADSL Line)
3. [BUG FIXED]
Symptom: The command "atba5" does not work in debug mode.
Condition: The command "atba5" does not work in debug mode.
4. [BUG FIXED]
Symptom: When we change the console baud rate, the system will display garbage.
Condition: Change the console baud rate in the debug mode.
3. [BUG FIXED]
Symptom: We cannot configure DDNS in SMT.
Condition: We cannot find any field to configure DDNS in SMT.
4. [FEATURE ENHANCED] Add the Core Checksum function.

5. [FEATURE ENHANCED] Add the PPPoA idle timeout function.
6. [BUG FIXED]
   Symptom: The web page displays the incorrect modem code version.
   Condition: The web page displays the incorrect modem code version.
7. [BUG FIXED]
   Symptom: ATM loopback test fail in web configuration.
   Condition: ATM loopback test fail in web configuration.
8. [FEATURE CHANGED] Modify the default rom file for standard version.
9. [BUG FIXED]
   Symptom: 8 VCs bridge mode does not work.
   Condition: When we send the 1518 bytes packets from AX4000 in 8 VCs bridge mode, the system can't transmit and receive any packets.
10. [BUG FIXED]
    Symptom: When dhcp pool is only one ip, we can not login the web user interface.
    Condition: When dhcp pool is only one ip, we can not login the web user interface.
11. [BUG FIXED]
    Symptom: The PPP default setting will have null char in username and password.
    Condition: The PPP default setting will have null char in username and password.
12. [BUG FIXED]
    Symptom: The firmware upgrade function does not work in web.
    Condition: When wan is idle, the firmware upgrade function does not work in web.
13. [FEATURE ENHANCED] Support the help function in web pages.
14. [BUG FIXED]
    Symptom: Ping and TFTP functions sometimes do not work.
    Condition: Ping and TFTP functions sometimes do not work.
15. [BUG FIXED]
    Symptom: We can not save CBR/VBR setting in the web configuration.
    Condition: We can not save CBR/VBR setting in the web configuration.

Modifications in V 3.40(IO.0)b1 | 10/18/2002
1. Create this project.

Annex A CI Command List

Command Class List Table		
System Related Command	Exit Command	Ethernet Related Command
WAN Related Command	IP Related Command	Bridge Related Command
CNM Related Command		

System Related Command   Home

Command				Description
sys				
	adjtime			retrive date and time from Internet
	atsh			display MRD field
	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
	log			
		clear		clear log error
		disp		display log error
		online	[on|off]	turn on/off error log online display
	stdio		[second]	change terminal timeout value
	time		[hour [min [sec]]]	display/set system time
	trcdisp	parse, brief, disp		monitor packets
	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
	socket			display system socket information
	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
	xmodemmode	[crc|checksum]		select xmodem mode

Exit Command   [Home](#)

Command				Description
exit				exit smt menu

Ethernet Related Command   [Home](#)

Command				Description
ether				
	config			display LAN configuration information
	driver			
		Cnt		
			disp <name>	display ether driver counters

		Status	<ch_name>	see LAN status
		config	[0|1=auto|normal] [0|1=10|100] [0|1=HD|FD] <ch-name>	Configure LAN Settings Auto/Normal, 100/10 Mbps, Half/Full Duplex
	version			see ethernet device type

WAN Related Command   [Home](#)

Command				Description
Wan	adsl	Bert		ADSL ber
		Chandata		ADSL channel data, line rate
		close		Close ADSL line
		Coding		ADSL standard current
		Ctrleint		ADSL CTRLE response command
		Defbitmap		ADSL defect bitmap status
		Dyinggasp		Send ADSL dyinggasp
		Fwav		Test the ADSL F/W available ping
		Fwdl		Download modem code, but must reset first
		Linedata		
		Linedata	near	Show ADSL near end noise margin
		Linedata	far	Show ADSL far end noise margin
		Open		Open ADSL line
		opencmd		Open ADSL line with specific standard
		Perfdata		Show performance information,CRC,FEC, error seconds..
		Rdata	[start] [length]	Read DSP CTRLE registers 512 bytes
		Reset		Reset ADSL modem, and must reload the modem code again
		Selftest		
		Selftest	Long	ADSL long loop test
		Selftest	short	ADSL short loop test
		Status		ADSL status (ex: up, down or wait for init)
		Version		ADSL version information
		Vendorid		ADSL vendor information
		Utopia		Show ADSL utopia information
		Cellcnt		Show ADSL cell counter
		display		
		display	shutdown	Show the counter of rate adaptive mechanism happening
		display	rateup	Show real status that rate adaptive mechanism happened
		Rateadap	[on|off]	Turn on/off rate adaptive mechanism
		Dumpcondition	[on|off]	Turn on/off online debug information of rate adaptive mechanism
		Sampletime	[mins]	Tune the sample time of rate adaptive mechanism
		Noisegt	[dB]	if noise margin is 3db greater than before, and rate is worse than before, then system will do "L1 shutdown RA3", default is 3db
		Noisemargin	[dB]	if noise margin is greater than this value, and rate is worse than before, then system will do "L1 shutdown RA3", default is 8db
		persisttime	[time]	when the adaptive condition is matched system will continue to monitor the time period "persisttime" before doing "L1 shutdown RA3", default is 30 seconds
		Timeinterval	[mins]	when "L1 shutdown RA3" is done twice, and still

				can't reach the max rate which system recorded, it will delay a time period that the period base time is"timeinterval" before starting again. The time-based default is 2 hrs
		Defectcheck	[on|off]	Turn on/off detect table checking, default is on
		Txgain	[value]	Set the CTRLE register (0xc3), the value is from 0xfa to 0x06
		Targetnoise	[value]	Set the CTRLE register (0xc4), the value is from 0xfa to 0x06
		Maxtonelimit	[value]	Set the CTRLE register (0xc5), the value is from 0xfa to 0x06
		Rxgain	[value]	Set the CTRLE register (0xc6), the value is from 0xfa to 0x06
		Txoutputpwr	[value]	Set the CTRLE register (0xc7), the value is from 0xfa to 0x06
		Rxoutputpwr	[value]	Set the CTRLE register (0xc8), the value is from 0xfa to 0x06
		maxoutputpwr	[value]	Set the CTRLE register (0xc9), the value is from 0xfa to 0x06
		Errorsecond		
		Errorsecond	Switch [1|0]	Turn on/off error sending to DSLAM side
		Errorsecond	sendes	Send current error second information immediately
		Dygasprecover		
		Dygasprecover	Level [value]	By default is 100, after receiving 100 dying gasp system will reboot
		Dygasprecover	Active [on|off]	Turn on/off this mechanism
		rsploss	[1|0]	Turn on means to response signal loss of CTRLE immediately, default is off
		watchdog	[1|0]	Watchdog for DSP
	atm	test	[fix|rand|period|oam|loopback]	Generate ATM traffic
wan	hwsar	Disp		Display hwsar packets incoming/outgoing information
		Clear		Clear hwsar packets information
		Sendoam		Send OAM packets: <vpi> <vci> <f5> <end-to-end> <type:0(AIS) 1(RDI) 2(LoopBack)>

IP Related Command

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

					Description
			clear		clear dns statistics
			disp		display dns statistics
	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
	status				display ip statistic counters
	udp				
		status			display udp status
	tcp				
		status		[tcb] [<interval>]	display TCP statistic counters
	xparent				
		join		<iface1> [<iface2>]	join iface2 to iface1 group
		break		<iface>	break iface to leave ipxparent group
	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
				<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

Bridge Related Command

Command				Description
bridge				
	cnt			related to bridge routing statistic table
		disp		display bridge route counter
		clear		clear bridge route counter
	stat			related to bridge packet statistic table
		disp		display bridge route packet counter
		clear		clear bridge route packet counter

CNM Related Command

Command				Description
cnm				
	active		[1/0] (enable/disable)	display/set CNM features enable/disable
	sgid			display an identifier(sgid) to associate device and security policies residing in ZyCNM
	managerIp		[ZyCNM server IP]	set/display ZyCNM server IP
	debug		[1/0] (enable/disable)	display/set CNM features enable/disable debug mode
	reset			disconnect and re-register to ZyCNM server
	simulate		<1/0> (enable/disable)	set simulating devices features enable/disable
	encrykey		[ZyCNM Encryption Key]	Set/display ZyCNM encryption key
	encrymode		<0|1|2>(none|des|3des)	Set/display ZyCNM encryption mode