



**Firmware Release Note**

**P791R**

**Standard version**

**Release 3.40(BT.3)C0**

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# **ZyXEL P791R Standard Version release 3.40(BT.3)C0 Release Note**

**Date:** June 21, 2005

## **Supported Platforms:**

ZyXEL P791R

## **Versions:**

ZyNOS Version: V3.40(BT.3) | 6/21/2005 13:53:57

Bootbase Version: V1.14 | 11/10/2003 20:56:40

## **Notes:**

Support Globlespan modem code A.423.

## **Known Issues:**

## **Features:**

### **Modifications in V 3.40(BT.3) | 6/21/2005**

1. [FEATURE CHANGED] Change to FCS version.

### **Modifications in V 3.40(BT.3)b2 | 6/15/2005**

1. [FEATURE CHANGED] Support new modem code A.423.
2. [FEATURE CHANGED] Change this f/w to support old hardware with old AFE and new hardware with new AFE.

### **Modifications in V 3.40(BT.3)b1 | 03/22/2005**

1. [FEATURE CHANGED] Support new modem code R3.0.1
2. [FEATURE CHANGED] Support new MAC, atwz , sys atwz command
3. [FEATURE CHANGED] Change hw version to 1 , and this f/w only support 3.40(BT.3)b1 new hardware with new bootbase (after we change AFE), and this f/w can't work on old P791R.

**Modifications in V 3.40(BT.2)C0 | 06/21/2004**

1. Change to FCS version.

**Modifications in V 3.40(BT.2)b6 | 06/17/2004**

1. [BUG FIXED]  
Symptom: RIP-2M can't work fine.  
Condition: When using ENET ENCAP encapsulation and RIP version is RIP-2M.

**Modifications in V 3.40(BT.2)b5 | 06/16/2004**

1. [BUG FIXED]  
Symptom: upstream rate is wrong when setting PCR value.  
Condition: When line rate = 512kbps and PCR = 943, upstream rate can only reach about 26KB/s.
2. [BUG FIXED]  
Symptom: In eWC, cannot fill special character (like",") in Advanced setup\ WAN\ WAN backup\Dial Backup

**Modifications in V 3.40(BT.2)b4 | 06/09/2004**

1. [FEATURE ENHANCED]  
SNMP issue:  
(1) Support both SNMPv1 and SNMPv2 of TRAP on our ras.  
(2) Support CLI command for SNMP(including TRAP version)  
(3) Wrong value of IFSPEED on SNMP
2. [BUG FIXED]  
Symptom: system will occur exception when uploading F/W by FTP  
Condition: After wan is link-up, system will occur exception when uploading F/W by FTP.
3. [BUG FIXED]  
Symptom: PPP connection fail under continuous ICMP packets  
Condition: Two P791R are back-to-back connected and continuous ICMP packets are sent between two P791R. During the client of P791R is rebooting, these continuous ICMP packets will cause the PPP connection fail.
4. [BUG FIXED]  
Symptom: device will reply wrong packet  
Condition: One PC and two devices with ENET ENCAP are connected to IES1000. After PC ping device 1 and power-off device 1, PC pinging device 1 again will get reply from device 2.
5. [BUG FIXED]  
Symptom: Error ARP reply under 2 remote nodes. One is routing mode, and the other is bridge mode.  
Condition: Device is set 2 remote nodes. The 1st remote node is routing mode, and the 2nd is bridge mode. When device receives ARP request from the 1st remote node, it will reply it from 2nd remote node. This problem makes the remote VLAN enabled router confused and the communication will fail.
6. [BUG FIXED]  
Symptom: arp table could not age out. And ping failed

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Condition: PCs have same ip address as one of arp tables and different mac address

7. [FEATURE ENHANCED]

(1) Enhance the CI command: xdsl param to show the power scale information

(2) Save the CI command: "xdsl param 3" value (Tx power scale) into flash

8. [BUG FIXED]

Symptom: ping non IP format string, will get successful response.

Condition: ping non IP format string was be translated to ping 0.0.0.0 that will ge successful response. in some test environment.

9. [BUG FIXED]

Symptom: Web: when the length of Ping Address exceeds 16 will cause exception

Condition: Under eWC\Maintenance\Diagnostic\General, to ping one non IP format string (like fre.wfewfr.wfeefe.eewd) and system will get exception.

10. [BUG FIXED]

Symptom: qlm error or traffic is blocked

Condition: qlm error bug:

- 1) Setup 2 remote node, node 1 is RFC-1483 bridge mode. Node 2 is routing mode with PPPoE nailed-up.Actuality,
- 2) Node 2 just there and do nothing.
- 3) Heavy traffic through our device will cause qlm error.

11. [BUG FIXED]

Symptom: ZyXEL Prestige Router Discloses Portions of Memory Contents to Remote Users

Condition: When ping zero size packet to router, router will reply the content in some portion of memory.

**Modifications in V 3.40(BT.2)b3 | 11/10/2003**

1. [BUG FIXED]

Symptom: Dial-Backup Fails.

Condition: After enable Dial-Backup in Menu 2 and Menu 11.12, the Dial-Backup mechanism still can't work fine.

2. [BUG FIXED]

Symptom: The system can't be boot up when connecting some particular modem.

Condition: The system will be forced into debug mode when connecting some particular modem(e.g. USR).This is because the device sends message to modem via CON/AUX port, then the modem responds with the same message. These responding message will cause the system to enter debug mode.

**Modifications in V 3.40(BT.2)b2 | 9/24/2003**

1. [FEATURE CHANGED]

Enlarge IP routing table size from 128 to 256.

2. [FEATURE ENHANCED]

TE request to add/modify 4 CI commands for new producing flow.

- 1) sys romreset <1:reboot|0:no reboot> /\* if you choose "0",system will put default ROM into ROM debug area only \*/
- 2) sys atsh /\* add Flash and DRAM size \*/
- 3) sys atwe <mac address> <country code> <debug flag> <feature bits> <1:reboot|0:no reboot>
- 4) sys stdio 0 [seconds]

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3. [FEATURE ENHANCED]  
TE request to add one CI command (aux httpstest) for new producing flow to test the hardware test of AUX.
4. [BUG FIXED]  
Symptom : 2PCs transmits data in LAN will cause system crash.  
Condition : Use 10M half-duplex hub in single LAN port device. One PC transmits data to another PC via hub will cause system crash.
5. [BUG FIXED]  
Symptom: Sometimes PPPoE fails to dial up after DSL line is unplugged and then plugged.  
Condition: (1) After DSL line is unplugged and then plugged 8 times, no packets would be transmitted or received.  
(2) After changing the VPI/VCI setting eight times under PPPoE encap, no packets would be transmitted or received.
6. [BUG FIXED]  
Symptom: backup recovery interval should be not larger than 65535.  
Condition: Device accepts setting which are larger than 65535 for "backup recovery interval."
7. [FEATURE ENHANCED]  
Add one CI command "ip adjmss [<mss>]", This CI command is used to adjust TCP mss value.
8. [BUG FIXED]  
Symptom: NAT pass-through didn't work well.  
Condition: NAT pass-through didn't work well while applied on "Callcomm" and "Vood Residential Gateway" applications.

**Modifications in V 3.40(BT.2)b1 | 7/14/2003**

1. [FEATURE ENHANCED] WAN Backup
  - 5) Support WAN backup feature. (Traffic Redirect and Dial Backup)
  - 6) Modify SMT menu 2 (WAN Setup)
  - 7) Add WAN backup eWC. Enhance traffic redirect and dial backup feature.

**Modifications in V 3.40(BT.1)C0 | 6/13/2003**

1. Change FCS version.

**Modifications in V 3.40(BT.1)b1 | 6/12/2003**

1. [FEATURE CHANGED] Modify the diagnostic items after wizard setup.
2. [BUG FIXED]  
Symptom: The back button does not work in wizard page.  
Condition: The back button does not work in wizard page.
3. [BUG FIXED]  
Symptom: "Reset DSL line" button does not work in the diagnostic page.  
Condition: "Reset DSL line" button does not work in the diagnostic page.
4. [BUG FIXED]  
Symptom: Can't configure dial backup parameters in AUX mode.  
Condition: When console port switch to AUX mode, users can't configure dial backup parameters via Telnet function.

**Modifications in V 3.40(BT.0)C0 | 5/23/2003**

1. Change FCS version.

**Modifications in V 3.40(BT.0)b2 | 5/20/2003**

1. [FEATURE CHANGED]  
Support dial backup feature. Modify SMT menu 2 and the last remote node in SMT menu 11 for dial backup.
2. [FEATURE CHANGED]  
Enhance web help pages.
3. [FEATURE CHANGED]  
Modify “Rate Enable” into “Rate Adaption” in the wizard page.
4. [FEATURE CHANGED]  
Change the blinking frequency for LAN Led.
5. [BUG FIXED]  
Symptom: When the system enable routing and bridge in menu 1 and enable bridge in menu 11, the system will discard the packets in the downstream direction.  
Condition: When the system enable routing and bridge in menu 1 and enable bridge in menu 11, the system will discard the packets in the downstream direction.

**Modifications in V 3.40(BT.0)b1 | 4/18/2003**

1. [FEATURE CHANGED]  
Support Globespan modem code R1.5.

**Annex A CI Command List**

Command Class List Table		
<a href="#">System Related Command</a>	<a href="#">Exit Command</a>	<a href="#">Ethernet Related Command</a>
<a href="#">WAN Related Command</a>	<a href="#">IP Related Command</a>	<a href="#">Bridge Related Command</a>
<a href="#">XDSL Related Command</a>		

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

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			<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	atm	test	[fix rand period oam loopback]	Generate ATM traffic
	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

[Home](#)

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		
			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



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			<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

[Home](#)

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

XDSL Related Command

[Home](#)

Command				Description
xdsl				
	state			display XDSL status about physical layer
	restart			restart XDSL driver
	cnt	disp		display xdsl error counter
		clear		clear xdsl error counter