



**Firmware Release Note**

**Prestige P660RU-T1  
Standard Version**

**Release 3.40(ST.5)C0**

<b>Date:</b>	<b>November 17, 2005</b>
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# **ZyXEL Prestige 660RU-T1 Standard Version**

## **Release 3.40(ST.5) C0**

### **Release Note**

**Date:** November 17, 2005

#### **Supported Platforms:**

ZyXEL Prestige 660RU-T1

#### **Versions:**

ZyNOS Version : V3.40(ST.5) | 11/17/2005 14:57:03

Bootbase Version : V1.03 | 04/26/2005 15:20:30

#### **Notes:**

P660R/RU-T1/T3/T7 is next generation of ZyXEL P623R series with higher speed of ADSL2, ADSL2+ technology, speed up to 12Mbps (ADSL2) and 24 Mbps (ADSL2+). With dual interface of USB and Ethernet, P660R/RU-61/63/67 offers the flexible way to access the Internet.

#### **Features:**

##### **Modification in V3.40(ST.5)C0 | 11/17/2005**

1. Change to FCS

##### **Modification in V3.40(ST.5)b3 | 11/9/2005**

1. [Feature Enhancement]

Add reset button test Function

2. [Feature Enhancement]

Add PPPoE pass through when PC connect to device from USB interface

3. [BUG FIX] SPRID 051109589

**Symptom:** In SMT menu 4 and menu3.5 the ISP's name and ESSID can not accept special characters such as # \$ % ^, but in eWC can accept it, they are not accordant

**Condition:** N/A

4. [BUG FIX] SPRID 051109596

**Symptom:** put rom-t has issue

**Condition:** after sys rom reset, put rom-t with right configurations, but device can't connect to internet

5. [BUG FIX] SPRID 051109598

**Symptom:** device can't get IP from DHCP server after configure with wan node command

**Condition:** no valid item in hunt table, vcautohunt is active, input wan node index 1, wan node vpi 0, wan node vci 33, wan node save, but device can't get IP

#### **Modification in V3.40(ST.5)b2 | 11/1/2005**

- 1 [BUG FIX] SPRID: 051021682

**Symptom:** The display of CI command “wan atm vc webredir” has issue.

**Condition:** Step1: type in command “wan atm vc webredir”. It will show “usage: webredict<enable 1 | disable 0>”

Step2: but type in command “wan atm vc webredir 1”, the webrediret is disable.

type in command “wan atm vc webredir 0”, the webrediret is enable

- 2 [BUG FIX] SPRID: 051021684

**Symptom:** subnet mask error

**Condition:** 1. Log into the device via WEB GUI

2. Config Static WAN IP Address

3. Enter subnet mask ” 255.255.248.0”

Then it will pop up a message shows ” subnet mask error” . However, ” 255.255.248.0” is a valid subnet

#### **Modification in V3.40(ST.5)b1 | 10/19/2005**

- 1.[Feature Enhancement]

Add CI command”WAN node”

Add CI command”sys password”

2. Add multiboot ver. 2.1

3. Change modem code to 3.2.0.7

#### **Modification in V3.40(ST.4)C0 | 09/15/2005**

1. Change default rom file according to 3.40(ST.3)C0

#### **Modification in V3.40(ST.4)b2 | 08/24/2005**

1. [FETURE ENHANCE]

Modify the zero configuration web pages according to PM’s requirement.

#### **Modification in V3.40(ST.4)b1 | 08/17/2005**

- 1 [BUG FIX] SPRID: 050817671

**Symptom:** the testing in progress page will consist endless

**Condition:** N/A

- 2 [BUG FIX] SPRID: 050817672

**Symptom:** Web redirect can not work well

**Condition:** When we input system password and PPPoE username/password and press the save button, the settings are saved, but no connection testing window is shown up, but still a window asking for the system password and PPPoE username/password again. At this time, even if we ‘>d d 1’ in SMT, it can’t trigger PPPoE

- 3 [BUG FIX] SPRID: 050817675

**Symptom:** PPPOE/PPPOA idle timeout do not work

**Condition:** Step 1.:Set PPPOE idle timeout to 15 and PPPOE/LLC right username password in menu4, Make sure PC can access the Internet

Step 2: Close all the programs that may send packets. Waiting at least 15s Then the PPPOE is idle.

Step 3: And now, we can not access the web even if we ‘d d 1’ in SMT except reboot the device.

- 4 [FETURE ENHANCE]

Add a new page zCfgTryAgain.html. This page will be showed when DSL line has not up. Modified the zCfgPPPOE.html. Close web redirect once PPPOE user name and password are right

5 [BUG FIX] SPRID: 050817677

**Symptom:** MSN message support has some problem.

**Condition:** While disable or enable UPNP function in DUT, the Windows XP MSN 6.2 and MSN 7.0 can not establish Whiteboard sharing functions.

6 [BUG FIX] SPRID: 050817679

**Symptom:** while set the DUT LAN "Client IP Pool Starting Address" and "Size of Client IP Pool" which are not match the "IP Subnet Mask", but this can be saved in GUI\Wizard Setup and rom-t. In SMT and GUI\Advanced Setup have no this issue.

**Condition:** N/A

7 [BUG FIX] SPRID: 050817680

**Symptom :** If the multicast stream speed goes up to 6Mb or higher then the P660 is not able to keep up and the multicast stream starts to get choppy (this is broadcast tv signal being streamed) and it gets unviewable. This goes on for awhile, then the device locks up and you have to reboot to get it working again.

**Condition:** N/A

8. [FETURE CHANGED]

Change default romfile to Access Telecom version

**Modification in V3.40(ST.3)C0 | 06/08/2005**

1. Change to FCS

**Modification in V3.40(ST.3)b2 | 06/01/2005**

1. [BUG FIX] SPRID: 050525640

**Symptom:** Use backup function in GUI will make LAN pc and DUT WAN can not get ip.

**Condition:** Step1 enter eWC->maintenance->configuration->backup.

Step2 backup current configuration.

Step3 in LAN pc can not get ip from DUT and DUT WAN can not get dynamic ip.

2. [BUG FIX] SPRID: 050524562

**Symptom:** A problem about can't get ip(enet encap/llc/dynamic)

**Condition:** 1. Use "sys romreset" in SMT 24.8

2. Go to WEB wizard or SMT 4, useenet encap/LLC/dynamic ip, set the vpi/vci=0/33, then the device can't get ip (use other vpi/vci is ok, our AUT-C set vpi/vci is 0/33).

3. [BUG FIX] SPRID: 050516864

**Symptom:** Use ax/4000 test UBR have problem

**Condition:** Set menu 4 ATM QoS Type= UBR, Peak Cell Rate (PCR) = 1000, Sustain Cell Rate (SCR) = 500, Maximum Burst Size (MBS) =500, The traffic do not restrict by the PCR, it can up to 1600 cells/s.

4. [FEATURE ENHENCE]

Routing Throughput Enhancement.

5. Change Default Rom-file

Add new rule into VC hunting table: VPI/VCI: 0/38 Encapsulation: PPPOA Multiplexing: VC

### Modification in V3.40(ST.3)b1 | 05/19/2005

1. [Bug Fix] SPRID: 050505225  
**Symptom:** While use “Full Feature” mode in NAT in GUI, and configure rule in “Full Feature”, but this NAT rule can not work. Then reboot DUT, this rule can works properly.  
**Condition:** Step1: In GUI/Advanced Setup/NAT, choose “Full Feature”.  
Step2: In “Full Feature”, configure a NAT rule (For example: One-to-One, or Many-to-One.....).  
Step3: While complete the setting, this NAT “Full Feature” rule can not work. Then reboot DUT, this rule can works properly.  
Step4: In SMT, it has no this issue.
2. [Bug Fix] SPRID: 050506301  
**Symptom:** use pppoe encapsulation, get rom-t file from LAN pc change some configuration and put the rom-t file, then pppoe login password will be change.  
**Condition:** step1: use pppoe encapsulation, get rom-t file from LAN pc change some configuration(such as system name->1234)  
step2: put rom-t file from LAN pc ,after the DUT reboot, pppoe can not dial up.  
step3: change the pppoe login password then can dial up.
3. [Bug Fix] SPRID: 050310555  
**Symptom:** in eWC can set DUT LAN ip to 0.0.0.0, in SMT menu3.2 when set it, it warning “0.0.0.0 is not a valid IP address” they are not match.  
**Condition:** N/A
4. [Bug Fix] SPRID: 050310549  
**Symptom:** When 2 PCs visit eWC of DUT, the priority have some problem .  
**Condition:** N/A
5. [Bug Fix] SPRID: 041222143  
**Symptom:** in menu 24.11, leave the telnet server port default, upload firmware using tftp from lan side pc, it always fails; but if telnet server port is changed to 23, the function works well.  
**Condition:** N/A
6. [Bug Fix] SPRID: 041124036  
**Symptom:** 1.In Menu 24.8 typing ”ip ping 192.168.8.1” (the ip address from which you can get response”.the default times of ping is three.  
2.when the device get response in the first time or the second time.type”ctrl+c”.then type the Up key and Enter quickly.the system will crash and reboot.  
**Condition:** N/A
7. [Bug Fix] SPRID: 050506307  
**Symptom:** two LAN pc connect to DUT with anyip have problem.  
**Codition:** step1 : use CI command “ip anyip enable yes” turn on DUT anyip  
step2: LAN two pc set any ip out of DUT dhcp ip pool.  
step3 when one LAN pc ping access DUT then another pc can not ping access unless change the static ip.
8. [Bug Fix]

**Symptom:** there is always show testing on Web although Auto VC hunt finished and failed.

**Condition:** N/A

9.[FETURE ENHANCE]

Supporting rom file back/restore via GUI .

10.[FETURE ENHANCE]

Modifying the 'Reset System' button ( Maintenance→ diagnostic→General) to 'Restart the Device'.

**Modification in V3.40(ST.2)C0 | 04/19/2005**

1. Change to FCS firmware version.

**Modification in V3.40(ST.2)b3 | 04/13/2005**

2. [FEATURE CHANGE]

Symptom: Add Mbuf\_Cache size for throughput improvement,

3. [FEATURE CHANGE]

Symptom: Add FTP\_MALLOC.

4. [Bug Fix]

Symptom: VC-hunt causes sys exception.

5. [Bug Fix]

Symptom: The UPnP shows wrong link speed on WinXP PC.

6. [Bug Fix]

Symptom: Dialing messages shows up on console during VC-Hunt with PPPOE and PPPOA

7. [Bug Fix]

Symptom: If we unplug ADSL line right after the ADSL just entered "wait for init state" than ADSL will hold on this state and doesn't switch to down state, the CPU loading is about 20% at the same time.

**Modification in V3.40(ST.2)b2 | 03/17/2005**

8. [FEATURE CHANGE]

Symptom: Add Mbuf\_Cache to improve the throughput.

9. [Bug Fix]

Symptom: ATM Priority (UBR vs. CBR) scenario not correct.

10. [Bug Fix]

Symptom: In web wizard - LAN page. Change LAN IP for 192.168.1.1 to 192.168.181.1, the PC gets IP from the device but can't use IE to access device.

11. [Bug Fix]

Symptom: NAT\_RuleList page display error in Mozilla.

12. [Bug Fix]

Symptom: In Lan page if type "255.255.248.0" in IP Subnet Mask will show "Subnet Mask error".

13. [Bug Fix]

Symptom: Apply policy route rule to menu 3.2 or 11.3, the packet from LAN or WAN can't route to gateway set in policy rule.

14. [Bug Fix]

Symptom: Set the MIB object "sysName" fail, this object doesn't change but prompt name of CI changed as what it set.

15. [Bug Fix]  
Symptom: ATU-R can't link up after run the Loop test script for a spell.
16. [Bug Fix]  
Symptom: Attainable downstream rate is 0 in ADSL2/ ADSL2+ mode, but it's normal in ADSL1 mode.
17. [Bug Fix]  
Symptom: ADSL sync up mode reset to default (ADSL2+) while sync up again.

**Modification in V3.40(ST.2)b1 | 02/21/2005**

1. [FEATURE CHANGE]  
Symptom: Change DMT code form v3.0.10.3\_A\_TC to 3.0.11.22\_A\_TC for supporting ADSL2/2+

**Modification in V3.40(ST.1)b1 | 12/23/2004**

2. [FEATURE CHANGE]  
Symptom: Change default ROM file to disable UPNP.
3. [FEATURE CHANGE]  
Symptom: Change the messages display format in CI Command “wan adsl chandata” while the link up mode is ADSL2 and ADSL2+.

**Modification in 3.40(ST.0)b1|10/22/2004**

1. [FEATURE CHANGED]  
Firmware downloads mechanism in Boottext is ready.

**Modification in 3.40(ST.0)a2| 09/11/2004**

2. [FEATURE CHANGED]  
Symptom: Remove the centralize log and cli-for-smt for more system free memory.

**Modification in 3.40(ST.0)a1 | 07/27/2004**

1. Create this project.

## **Internal Information:**

1. Support ADSL2+ by TrendChip modem code DMT FwVer: 3.2.0.7\_A\_TC, HwVer: T14F7\_0.0
2. Support Multiboot client V2.1

## **Known Issues:**

1. Ethernet and USB interfaces stop while ADSL is initializing.
2. The TR-067 Loop test failure.
3. If there are two or more PVCs with CBR or VBR QOS type and the total PCR requirement exceed the line rate then the bandwidth distribution between those PVCs is unpredictable.
4. Setup two PVCs with 1483 bridge, each PVC with 500Kbps upstream and 10Mbps downstream traffic. If packet size is 1500 The CPU loading is 88%. The CPU loading is 100% if packet size is 1024.
5. The VBR property of TrendChip is different from the others.
6. The value of MBS can't be too large. Ex 10000.
7. F/W upgrade in eWC can not work with IE 5.0.3315.
8. MAC OS can't login the WEBGUI through IE 5.2.
9. In MAC OS 10.1, USB interface can't be detected after unplug USB cable.
10. In MAC OS 10.1, MAC PC will crash if USB cable was unplugged during data exchanging between MAC PC and device by USB interface.
11. For CHT spec, there are two point fail but almost can reach the criteria
12. Use ax/4000 test VBR have problem.
13. Use ax/4000 test priority have problem in especially setting.
14. DUT will reboot automatically when DUT wan port is initialing and exist packet attack from wan port, until the packet stops send to wan port of DUT, the DUT will recover
15. The Throughput does not meet the ADSL2+ criteria
16. The USB interface can't play IPTV (IGMP).
17. The debug information "[BrgStopShortCut] : Recover USB" has not been closed and it affect auto test running smoothly.
18. In GUI, The WAN Backup functions need at least one none-zero Check WAN IP.

## **Modifications:**

### **Modification in V3.40(ST.3)C0 | 06/08/2005**

1. Change to FCS

### **Modification in V3.40(ST.3)b2 | 06/01/2005**

1. [BUG FIX] SPRID: 050525640

**Symptom:** Use backup function in GUI will make LAN pc and DUT WAN can not get ip.

**Condition:** Step1 enter eWC->maintenance->configuration->backup.

Step2 backup current configuration.

Step3 in LAN pc can not get ip from DUT and DUT WAN can not get dynamic ip.

2. [BUG FIX] SPRID: 050524562



**Symptom:** A problem about can't get ip(enet encaps/llc/dynamic)

**Condition:** 1. Use "sys romreset" in SMT 24.8

2. Go to WEB wizard or SMT 4, useenet encaps/LLC/dynamic ip, set the vpi/vci=0/33, then the device can't get ip (use other vpi/vci is ok, our AUT-C set vpi/vci is 0/33).

3. [BUG FIX] SPRID: 050516864

**Symptom:** Use ax/4000 test UBR have problem

**Condition:** Set menu 4 ATM QoS Type= UBR, Peak Cell Rate (PCR) = 1000, Sustain Cell Rate (SCR) = 500, Maximum Burst Size (MBS) =500, The traffic do not restrict by the PCR, it can up to 1600 cells/s.

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Routing Throughput Enhancement.

5. Change Default Rom-file

Add new rule into VC hunting table: VPI/VCI: 0/38 Encapsulation: PPPOA Multiplexing: VC

### **Modification in V3.40(ST.3)b1 | 05/19/2005**

1. [Bug Fix] SPRID: 050505225

**Symptom:** While use "Full Feature" mode in NAT in GUI, and configure rule in "Full Feature", but this NAT rule can not work. Then reboot DUT, this rule can works properly.

**Condition:** Step1: In GUI/Advanced Setup/NAT, choose "Full Feature".

Step2: In "Full Feature", configure a NAT rule (For example: One-to-One, or Many-to-One.....).

Step3: While complete the setting, this NAT "Full Feature" rule can not work. Then reboot DUT, this rule can works properly.

Step4: In SMT, it has no this issue.

2. [Bug Fix] SPRID: 050506301

**Symptom:** use pppoe encapsulation, get rom-t file from LAN pc change some configuration and put the rom-t file, then pppoe login password will be change.

**Condition:** step1: use pppoe encapsulation, get rom-t file from LAN pc change some configuration(such as system name->1234)

step2: put rom-t file from LAN pc ,after the DUT reboot, pppoe can not dial up.

step3: change the pppoe login password then can dial up.

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**Symptom:** in eWC can set DUT LAN ip to 0.0.0.0, in SMT menu3.2 when set it, it warning "0.0.0.0 is not a valid IP address" they are not match.

**Condition:** N/A

4. [Bug Fix] SPRID: 050310549

**Symptom:** When 2 PCs visit eWC of DUT, the priority have some problem .

**Condition:** N/A

5. [Bug Fix] SPRID: 041222143

**Symptom:** in menu 24.11, leave the telnet server port default, upload firmware using tftp from lan side pc, it always fails; but if telnet server port is changed to 23, the function works well.

**Condition:** N/A

6. [Bug Fix] SPRID: 041124036

**Symptom:** 1.In Menu 24.8 typing "ip ping 192.168.8.1" (the ip address from which you can get response".the default times of ping is three.

2.when the device get response in the first time or the second time.type"ctrl+c".then type the Up key and Enter quickly.the system will crash and reboot.

**Condition:** N/A

7. [Bug Fix] SPRID: 050506307

**Symptom:** two LAN pc connect to DUT with anyip have problem.

**Codition:** step1 : use CI command "ip anyip enable yes" turn on DUT anyip

step2: LAN two pc set any ip out of DUT dhcp ip pool.

step3 when one LAN pc ping access DUT then another pc can not ping access unless change the static ip.

8. [Bug Fix]

**Symptom:** there is always show testing on Web although Auto VC hunt finished and failed.

9. [FETURE ENHANCE]

Supporting rom file back/restore via GUI .

- 10.[FETURE ENHANCE]

Modifying the 'Reset System' button ( Maintenance→ diagnostic→General) to 'Restart the Device'.

**Condition:** N/A

**Modification in V3.40(ST.2)b1 | 02/21/2005**

1. [BUG FIXED]

Symptom: Input the CI command "wan atm vc result" while DSL do not sync up, the system will hang up.

**Modification in V3.40(ST.1)C0| 01/14/2005**

1. Change to FCS firmware version.

**Modification in V3.40(ST.1)b4| 01/12/2005**

1. [BUG FIXED]

Symptom: VC hunt causes system reboot, if the right hunting information in 10<sup>th</sup> entry of VC hunt Table and VC hunt debug open.

2. [BUG FIXED]

Symptom: VC hunt has finished successful but connection fail page is redirected by WEB.

**Modification in V3.40(ST.1)b3| 01/05/2005**

3. [BUG FIXED]

Symptom: Login device by FTP and enter ls or dir, then system reboot.

4. [BUG FIXED]

Symptom: When we get ROM-t from LAN side by FTP, and modified it by WordPad, then put ROM -t, the device won't accept the new ROM-t.

**Modification in V3.40(ST.1)b2 | 01/04/2005**

1. [BUG FIXED]

Symptom: When get ROM-t from LAN side by FTP, and modify it, then put ROM-t, the DUT will show not enough memory.

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2. [BUG FIXED]  
Symptom: When we get ROM-t from LAN side by FTP, and modified it, then put ROM -t , the device won't accept the new ROM-t.
3. [BUG FIXED]  
Symptom: VC hunt can not allocate MBUF again when VC hunt table is more than 9.
4. [BUG FIXED]  
Symptom: When user changes port number to 8080 in menu 24.11, it can not work properly.
5. [BUG FIXED]  
Symptom: The VC hunt has problem, the test is not finished, but the web display the test is failed.
6. [BUG FIXED]  
Symptom: If User change the Remote management Web Server port, then in the VC hunt Fail page, the "here" link do not work.
7. [BUG FIXED]  
Symptom:                      Form                      LAN                      site,                      enter  
http://192.168.1.1/Forms/rpAuth\_1?ZyXEL%20ZyWALL%  
20Series<script>top.location.pathname=%20""</script> on browser, the device will crash.

**Modification in V3.40(ST.1)b1 | 12/23/2004**

1. [BUG FIXED]  
Symptom: in MAC 10.2 and DHCP open. Can't connect to device by Telnet and FTP.

**Modification in V3.40(ST.0)C0 | 12/16/2004**

1. [BUG FIXED]  
Symptom: Set PPPoA encapsulation and enable nail-up. After changing user-name several times, the connection can't be dialed-up
2. [BUG FIXED]  
Symptom: In PPPoE passthrough, LAN broadcast packets will pass through the router to WAN.
3. [BUG FIXED]  
Symptom: The router can accept the CI command "ip ping 192.168.1.1.100"

**Modification in V3.40(ST.0)b5 | 12/15/2004**

1. [BUG FIXED]  
Symptom: The VC hunt always Fail.
2. [BUG FIXED]  
Symptom: Change description in eWC/Security/Ping from "Ping traffic is blocked from the WAN" to "Ping traffic is blocked from the WAN/LAN".

**Modification in V3.40(ST.0)b4 | 12/10/2004**

1. [BUG FIXED]  
Symptom: Packets routing form WAN to LAN are duplicate.
2. [BUG FIXED]  
Symptom: IP source address is translated to zero by NAT, if destination IP address is multicast group.
3. [BUG FIXED]  
Symptom: When upgrade firmware or throughput testing, DUT will display error

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message such as "free out ret = 0xFFFF".

4. [BUG FIXED]

Symptom: Debug flags can't be turned on/of through the firmware downloads mechanism in Boottext (MultiBoot)

**Modification in V3.40(ST.0)b3 | 12/02/2004**

1. [BUG FIXED]

Symptom: Web browser can access the URL: [http: //\[Router\\_IP\\_Address\]/rpFWUpload.html](http://[Router_IP_Address]/rpFWUpload.html) without login.

Condition: N/A

2. [BUG FIXED]

Symptom: If user selects "IP Alias 1" from "No" to "Yes" but doesn't change other settings and save to flash. Then the SMT display in "IP Alias 1" filed is not consistent with SPTGEN (rom-t).

Condition: N/A

3. [BUG FIXED]

Symptom: Use "d c d all" to cancel connection then the connection cannot be triggered anymore.

Condition: N/A

4. [BUG FIXED]

Symptom: Use ENET ENCAP mode, traffic redirect function does not work.

Condition: N/A

5. [BUG FIXED]

Symptom: Device will crash when doing PAP with INode PPPoE server.

Condition: N/A

6. [BUG FIXED]

Symptom: In smt 3 2 ,when we change nothing but it still save to romfile.

Condition: N/A

7. [BUG FIXED]

Symptom: Ippr will not be active.

Condition: N/A

8. [BUG FIXED]

Symptom: When user change port number in menu 24.11, the web redirect function cannot work properly.

Condition: N/A

9. [BUG FIXED]

Symptom: Messages display in ADSL operation mode is wrong.

Condition: N/A

10. [BUG FIXED]

Symptom: USB Host driver can't remove clearly In Win 98 and Win ME.

Condition: N/A

11. [BUG FIXED]

Symptom: Sometimes, The ADSL status information will keep in "Initializing "state after we plug and unplug ADSL line several times.

Condition: N/A

12. [BUG FIXED]

Symptom: ADSL can't sync up, while switching the loop form 18K to 0K.

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Condition: N/A

13. [BUG FIXED]

Symptom: Some debug messages are displayed on console while ADSL is training.

Condition: N/A

14. [FEATURE CHANGED]

Symptom: Watch dog cause system reboot.

Condition: N/A

**Modification in 3.40(ST.0)b2 | 11/19/2004**

1. [BUG FIXED]

Symptom: UART internal loopback test fail in HTP while baud rate is 9600

Condition: Change HTP Code Model to HTP\_P660 V 0.03

2. [BUG FIXED]

Symptom: TR-048 Loop test fail.

Condition: Change modem code to 3.0.10\_A\_TC

3. [BUG FIXED]

Symptom: ATM priority test fail.

Condition: Change modem code to 3.0.10\_A\_TC

4. [BUG FIXED]

Symptom: Peak Cell Rate is incorrect.

Condition: Change modem code to 3.0.10\_A\_TC

5. [BUG FIXED]

Symptom: Do not support the ADSL opmode auto detection.

Condition: Change modem code to 3.0.10\_A\_TC

6. [BUG FIXED]

Symptom: Can not sync up with Lucent ADSL2+ line card.

Condition: Change modem code to 3.0.10\_A\_TC

7. [BUG FIXED]

Symptom: ADSL plug-unplug test failure.

Condition: Change modem code to 3.0.10\_A\_TC

8. [BUG FIXED]

Symptom: Upload RAS code from WAN side failed. Link is disconnected and can't re-connect.

Condition: Change modem code to 3.0.10\_A\_TC

**Modification in 3.40(ST.0)b1|10/22/2004**

1. [BUG FIXED]

Symptom: The wrong ADSL standard displayed in SMT 24.2.1 for P660RU-T1

**Modification in 3.40(ST.0)a3 | 09/22/2004**

2. [BUG FIXED]

Symptom: The display messages of RAS starting are disorder.

3. [BUG FIXED]

Symptom: the ADSL can't sync up with ATU-C while there are FTP data pass between LAN and USB interfaces.

**Modification in 3.40(ST.0)a2 | 07/27/2004**

1. [BUG FIXED]

Symptom: Do not support flash write protect.

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2. [BUG FIXED]  
Symptom: Reset button doesn't take effect.
3. [BUG FIXED]  
Symptom: There is no information displayed in field ADSL Chipset Vendor.
4. [BUG FIXED]  
Symptom: HTP test items not enough  
Condition: HTP only support MAC and SAR internal loop back test.
5. [BUG FIXED]  
Symptom: Cannot change Console port speed through menu 24.2.2 and CI command "sys baud".  
Condition: The console port speed is always 115200.
6. [BUG FIXED]  
Symptom: The operation of each LED (system/power, DSL, PPP, MAC, USB) is not ready.
7. [BUG FIXED]  
Symptom: Packets form USB interface can't bridge and route to other interfaces.
8. [BUG FIXED]  
Symptom: Automatic re-linkup is not support in this ADSL modem code.
9. [BUG FIXED]  
Symptom: F/W upload through FTP is not working  
Condition: The system free memory too small, Available memory is 376,764 bytes.

**Modification in 3.40(ST.0)a1 | 07/27/2004**

1. Create this project.

## 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="#">USB Related Command</a>	<a href="#">IP Related Command</a>
<a href="#">Bridge Related Command</a>		

### System Related Command

[Home](#)

Command				Description
sys				
	adjtime			retrive date and time from Internet
	cbuf			
		display	[a f u]	display cbuf a: all f: free u: used
		cnt		cbuf static
			display	display cbuf static
			clear	clear cbuf static
	baud		<1..5>	change console speed
	callhist			
		display		display call history
		remove	<index>	remove entry from call history
	clear			clear the counters in GUI status menu
	countrycode		[countrycode]	set country code
	date		[year month date]	set/display date
	domainname			display domain name
	edit		<filename>	edit a text file
	enhanced			return OK if commands are supported for PWC purposes
	errctl		[level]	set the error control level 0:crash no save,not in debug mode (default) 1:crash no save,in debug mode 2:crash save,not in debug mode 3:crash save,in debug mode
	event			
		display		display tag flags information
		trace		display system event information
			display	display trace event
			clear <num>	clear trace event
	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
	fid			
		display		display function id list
	firmware			display ISDN firmware type
	hostname		[hostname]	display system hostname
	iface			

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		disp	[#]	display iface list
	isr		[all used free]	display interrupt service routine
	interrupt			display interrupt status
	logs			
		category		
			access [0:none/1:log]	record the access control logs
			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]	record the access control 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		display all 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
		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
	mbuf			
		cnt		
			disp	display system mbuf count
			clear	clear system mbuf count
		link	link	list system mbuf link
		pool	<id> [type]	list system mbuf pool
		status		display system mbuf status
		disp	<address>	display mbuf status
		debug	[on off]	
	memory		<address> <length>	display memory content



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	memwrite		<address> <len> [data list ...]	write some data to memory at <address>
	memwl		<address>	write long word to memory at <address>
	memrl		<address>	read long word at <address>
	memutil			
		usage		display memory allocate and heap status
		mqueue	<address> <len>	display memory queues
		mcell	mid [f u]	display memory cells by given ID
		msecs	[a f u]	display memory sections
		mtstart	<n-mcell>	start memory test
		mtstop		stop memory test
		mtalloc	<size> [n-mcell]	allocate memory for testing
		mtfree	<start-idx> [end-idx]	free the test memory
	model			display server model name
	proc			
		display		display all process information
		stack	[tag]	display process's stack by a give TAG
		pstatus		display process's status by a give TAG
	queue			
		display	[a f u] [start#] [end#]	display queue by given status and range numbers
		ndisp	[qid]	display a queue by a given number
	quit			quit CI command mode
	reboot		[code]	reboot system code = 0 cold boot, = 1 immediately boot = 2 bootModule debug mode
	reslog			
		disp		display resources trace
		clear		clear resources trace
	stdio		[second]	change terminal timeout value
	time		[hour [min [sec]]]	display/set system time
	timer			
		disp		display timer cell
		trace	[on off]	set/display timer information online
		start	[tmValue]	start a timer
		stop	<ID>	stop a timer
	trcdisp			monitor packets
	trclog			
		switch	[on off]	set system trace log
		online	[on off]	set on/off trace log online
		level	[level]	set trace level of trace log #:1-10
		type	<bitmap>	set trace type of trace log
		disp		display trace log
		clear		clear trace
		call		display call event
		encapmask	[mask]	set/display tracelog encapsulation mask
	trcpacket			
		create	<entry> <size>	create packet trace buffer
		destroy		packet trace related commands
		channel	<name> [none incoming outgoing bothway]	<channel name>=enet0,sdsl00, fr0 set packet trace direction for a given channel
		string		enable smt trace log
		switch	[on off]	turn on/off the packet trace
		disp		display packet trace

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		udp		send packet trace to other system
			switch [on off]	set tracepacket upd switch
			addr <addr>	send trace packet to remote udp address
			port <port>	set tracepacket udp port
		parse	[[start_idx], end_idx]	parse packet content
		brief		display packet content briefly
	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
	spt			
		dump		dump spt raw data
			root	dump spt root data
			rn	dump spt remote node data
			user	dump spt user data
			slot	dump spt slot data
		save		save spt data
		size		display spt record size
		clear		clear spt data
	cmgr			
		trace		
			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			
		clear		clear filter statistic counter
		disp		display filter statistic counters
		sw	[on off]	set filter status switch
		set	<set>	display filter rule
		netbios		
			disp	display netbios filter status
			config <0:LAN to WAN, 1:WAN to LAN, 2:LAN to DMZ, 3:IPSec passthrough, 4:Trigger Dial> <on off>	config netbios filter
	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

## 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
			clear <name>	clear ether driver counters
		iface	<ch_name> <num>	send driver iface
		ioctl	<ch_name>	Useless in this stage.
		mac	<ch_name> <mac_addr>	Set LAN Mac address
		reg	<ch_name>	display LAN hardware related registers
		rxmod	<ch_name> <mode>	set LAN receive mode. mode: 1: turn off receiving 2: receive only packets of this interface 3: mode 2+ broadcast 5: mode 2 + multicast 6: all packets
		status	<ch_name>	see LAN status
		init	<ch_name>	initialize LAN
	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
		mem	<addr> <data> [type]	write memory data in address
	test		<ch_id> <test_id> [arg3] [arg4]	do LAN test
	pncconfig		<ch_name>	do pnc config
	mac		<src_ch> <dest_ch> <ipaddr>	fake mac address

## WAN Related Command

[Home](#)

Command				Description
wan	Adsl			
		chandata		ADSL channel data, line rate
		close		Close ADSL line
		linedata		
			near	Show ADSL near end noise margin
			far	Show ADSL far end noise margin
		open		Open ADSL line
		opencmd		Open ADSL line with specific standard
			Glite	
			T1.413	
			Gdmt	
			multimode	

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			adsl2	
			adsl2plus	
		opmode		Show the operational mode
		rateadapt	[on off]	Turn on/off rate adaptive mechanism
		perfdata		Show performance information,CRC,FEC, error seconds..
		reset		Reset ADSL modem, and must reload the modem code again
		Status		ADSL status (ex: up, down or wait for init)
		errorsecond		
			sendes	Send current error second information immediately
		targetnoise	[value]	Adjust target noise offset
wan	atm	vchunt		
			Add <remoteNodeIndex> <vpi> <vci> <service bit(hex)>	Add a entry to hunting pool <remote node> : input the remote node index 1-8 <vpi> : vpi value <vci> : vci value <service>: it's a hex value, bit0:PPPoE/VC (1), bit1:PPPoE/LLC (2) , bit2:PPPoA/VC (4), bit3:PPPoA/LLC (8), bit4:Enet/VC (16), bit5 :Enet/LLC (32) For examples: If you need service PPPoE/LLC and Enet/LLC then the service bits will be 2+32 = 34 (decimal) = 22 (hex), you must input 22  Need to perform save after this command
			Remove <removeNodeId> <vpi> <vci>	Input remote node ID and vpi, vci value to remove the specific entry. System will save automatically.
			Active <yes no>	Enable VC auto hunting featurer
			display	Display the hunt pool
			Clear	Clear the configure buffer
			Save	Save current setting into ROM file
			timer	The waiting time before checking the hunting table result
			Send	Send VC hunt pattern again
			result	Check the result of VC auto hunting
	hwsar	disp		Display hwsar packets incoming/outgoing information
		clear		Clear hwsar packets information
	Zero	Status		Display status of Zero configuration
		On		Turn on Zero configuration
		Off		Turn off Zero configuration
		Flags	<disable (1:zeroCfh / 2:auto-hunt / 4:password / 7:all)>	
		debug	1:enable / 0:disable	Display debug messages

USB Related Command

[Home](#)

Command			Description
usb			

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	dump	descp		Display Tx/Rx descriptors
		reg		Display registers
		cnt		Display driver's counters
	debug	[on off]		Turn on/off debug messages
	dbg	[dbgflag]		Set Debug flags
	Lpbk	[on off]		Turn on/off loopback mode.

IP Related Command

[Home](#)

Command			Description
ip			
	address	[addr]	display host ip address
	loopbackaddr	<IP1> [IP2]	Set loopback address.
	alias	<iface>	alias iface
	aliasdis	<0 1>	disable alias
	arp		
		status	<iface>
		add	<hostid> ether <ether addr>
		resolve	<hostid>
		drop	<hostid> [hardware]
		flush	
		publish	
	dhcp		
		client	
		release	
		renew	
		mode	<server relay none client>
		relay	server <serverIP>
		reset	
		server	
		probecount <num>	
		dnsserver <IP1> [IP2] [IP3]	
		winsserver <winsIP1> [<winsIP2>]	
		gateway <gatewayIP>	
		hostname <hostname>	
		initialize	
		leasetime <period>	
		netmask <netmask>	
		pool <startIP> <numIP>	
		renewaltime <period>	
		rebindtime <period>	
		reset	
		server <serverIP>	
		dnsorder [router isp]	
		status	[option]
		static	
		delete <num> all	
		display	
		update <num> <mac> <ip>	
	dns		
		query	
		address <ipaddr> [timeout]	
		debug <num>	

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		name <hostname> [timeout]	resolve name to ip-addr
		status	display dns query status
		table	display dns query table
	server	<primary> [secondary] [third]	set dns server
	stats		
		clear	clear dns statistics
		disp	display dns statistics
	table		display dns table
httpd			
	debug	[on/off]	set http debug flag
icmp			
	echo	[on/off]	set icmp echo response flag
	data	<option>	select general data type
	status		display icmp statistic counter
	trace	[on/off]	turn on/off trace for debugging
	discovery	<iface> [on/off]	set icmp router discovery flag
ifconfig		[iface] [ipaddr] [broadcast <addr> [mtu <value> dynamic]	configure network interface
ifdrop		<iface>	check if iface is available.
ping		<hostid>	ping remote host
pong		<hostid> [<size> <time-interval>]	pong remote host
extping		<target address>	
		[-t]	Continue to send ECHO_REQ until Ctrl-C input
		[-c]	Validate the reply data
		[-d] [Data]	Data pattern. The maximum length of data is 255 characters.
		[-f]	Set DF flag.
		[-l] [Data size]	Datagram size in bytes (with 28 bytes Header).
		[-v] [TOS value]	Specify the value of TOS flag.
		[-n] [Repeat value]	The number of times to send ECHO_REQ packet.
		[-w] [Timeout value]	Specify the value of Timeout in seconds.
		[-o] [IP address/IFace]	To specify one IP address or interface to be the Source IP address.
		[-p] [Min MTU] [Max MTU] [Interval size]	Sweep range of sizes.
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
	flush		flush route table
	lookup	<addr>	find a route to the destination
	errent		
		disp	display routing statistic counters
		clear	clear routing statistic counters
status			display ip statistic counters
adjTcp		<iface> [<mss>]	adjust the TCP mss of iface
udp			
	status		display udp status

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	rip			
		accept	<gateway>	drop an entry from the RIP refuse list
		activate		enable rip
		merge	[on off]	set RIP merge flag
		refuse	<gateway>	add an entry to the rip refuse list
		request	<addr> [port]	send rip request to some address and port
		reverse	[on off]	RIP Poisoned Reverse
		status		display rip statistic counters
		trace		enable debug rip trace
		mode		
			<iface> in [mode]	set rip in mode
			<iface> out [mode]	set rip out mode
		dialin user	[show in out both none]	show dialin user rip direction
	tcp			
		ceiling	[value]	TCP maximum round trip time
		floor	[value]	TCP minimum rtt
		irtt	[value]	TCP default init rtt
		kick	<tcb>	kick tcb
		limit	[value]	set tcp output window limit
		max-incomplete	[number]	Set the maximum number of TCP incomplete connection.
		mss	[value]	TCP input MSS
		reset	<tcb>	reset tcb
		rtt	<tcb> <value>	set round trip time for tcb
		status	[tcb] [<interval>]	display TCP statistic counters
		syndata	[on off]	TCP syndata piggyback
		trace	[on off]	turn on/off trace for debugging
		window	[tcb]	TCP input window size
	samenet		<iface1> [<iface2>]	display the ifaces that in the same net
	uninet		<iface>	set the iface to uninet
	tftp			
		support		pritrn if tfpt is support
		stats		display tftp status
	xparent			
		join	<iface1> [<iface2>]	join iface2 to iface1 group
		break	<iface>	break iface to leave ipxparent group
	antiprobe		<0 1> 1:yes 0:no	set ip anti-probe 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
			<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

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	pr			
		clear		clear ip pr table counter information
		disp		dump ip pr table counter information
		switch		turn on/off ip pr table counter flag
	nat			
		timeout		
			gre [timeout]	set nat gre timeout value
			iamt [timeout]	set nat iamt timeout value
			generic [timeout]	set nat generic timeout value
			reset [timeout]	set nat reset timeout value
			tcp [timeout]	set nat tcp timeout value
			tcpother [timeout]	set nat tcp other timeout value
		update		create nat system information from spSysParam
		iamt		display nat iamt information
		iface	<iface>	show nat status of an interface
		lookup	<rule set>	display nat lookup rule
		new-lookup	<rule set>	display new nat lookup rule
		loopback	[on/off]	turn on/off nat loopback flag
		reset	<iface>	reset nat table of an iface
		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
		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

## Bridge Related Command

[Home](#)

Command				Description
bridge				
	mode		<1/0> (enable/disable)	turn on/off (1/0) LAN promiscuous mode
	blt			related to bridge local table
		disp	<channel>	display blt data
		reset	<channel>	reset blt data
		traffic		display local LAN traffic table
		monitor	[on/off]	turn on/off traffice monotor. Default is off.
		time	<sec>	set blt re-init interval
	brt			related to bridge route table
		disp	[id]	display brt data
		reset	[id]	reset brt data
	cnt			related to bridge routing statistic table
		disp		display bridge route counter
		clear		clear bridge route counter
	stat			related to bridge packet statistic table



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		disp		display bridge route packet counter
		clear		clear bridge route packet counter
	disp			display bridge source table