



Firmware Release Note

ZyXEL Prestige 650R-11

Release 3.40(ES.2)C0

Date: August 19, 2002
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ZyXEL Prestige 650R-11 Standard Version release 3.40(ES.2)C0 Release Note

Date: Aug 19, 2002

Supported Platforms:

ZyXEL Prestige 650R-11

Versions:

ZyNOS F/W Version: V3.40(ES.2) | 8/19/2002 9:54:11

Bootbase Version: V1.05 | 7/29/2002 11:53:18

Notes:

1. The Prestige 650 is a compact ADSL over POTS router that can be used for small-office or home-user and allows a small LAN to access the Internet through ADSL connection over the existing copper line.
 - Support Multi-Mode standard (ANSI T1.413, Issue 2; G.dmt(G.992.1); G.lite(G992.2)).
 - One auto-sensing 10/100M Ethernet interface
 - support Multi-protocol over AAL5 (RFC1483)
 - Support PPP over ATM AAL5 (RFC 2364)
 - Support PPP over Ethernet (RFC2516)
 - Support up to 8 PVCs
 - IP routing and bridging modes
 - Multi-NAT for Multi Global IP address Internet Access
 - DHCP Client, Sever and Relay
 - RIP I/ RIP II supported.
 - IGMP
 - IP alias
 - IP Policy Routing
 - ICMP Router Discovery
 - TFTP/FTP server for firmware upgrade
 - F4/F5 OAM
 - Call Scheduling for PPPoE
 - Support Web Configurator
2. For PPPoE, system must turn off the PPP VJ header compression. The command is as following:
“ppp ipcp compress off”, this command is already added into “autoexec.net”
3. Alcatel modem code version is 3.8.163 now.

Known Issues:

None

Features:

Modification in V3.40(ES.2) | 8/19/2002

1. [FEATURE CHANGED] Change name for formal Release.

Modification in V3.40(ES.2)b2 | 2002/8/8

1. [FEATURE ENHANCED] Add "Nail-Up" and "Password" configuration by sptgen
2. [FEATURE ENHANCED] Enlarge PPPoE username length to 70 chars
Note: So this version need to upgrade new rom-file
3. [FEATURE CHANGED] Change "PPP" to "PPPoA" at smt4/smt11/web
4. [FEATURE CHANGED] Change the rom-file setting for Switzerland version.
5. [BUG FIXED] Fix the configuration length about PPPoE idle timeout at web wizard

Modification in V3.40(ES.2)b1 | 2002/7/25

1. [FEATURE ENHANCED] Add "ADJUST_GAIN" commands to tune ADSL txGain and Target Noise.
2. [FEATURE ENHANCED] Add "wan adsl rpsloss" ci-command
3. [FEATURE ENHANCED] Change the showing model name at smt main from "Prestige 650" to "Prestige 650R-11."
4. [BUG FIXED] Fix the ERROR PACKET trad parse for PPPoE packet.
5. [BUG FIXED] Fix the exception caused by the adsl line plug in and plug out.
6. [BUG FIXED] Fix dyingGasp occurred before loading modem code would cause system reboot.
7. [BUG FIXED] Fix the mbuf->flags would be impacted by hwsar vc number.
8. [BUG FIXED] Fix the smt save quickly would casue the system hang-up.
9. [BUG FIXED] Fix the atm discard packet would casue the exception.

Modification in V3.40(ES.0) | 2002/6/17

1. [FEATURE CHANGED] Change name for formal release.

Modification in V3.40(ES.0)b17 | 2002/6/12

1. [BUG FIXED] Fix ppp channel setting serval times by changing static and dynamic would cause system could not ping out.
2. [BUG FIXED] Fix oam F4 / F5 loopback test would be failure when debug flag is turned off.

Modification in V3.40(ES.0)b16 | 2002/6/7

1. [BUG FIXED] Fix the ip checksum error if the options existed in ip header.
2. [BUG FIXED] Fix the system hangup if the icmp echo request pass through our router in which the port translation setting in serverSet Table was from 1 to 2000.
3. [BUG FIXED] Fix the system hangup due to press left button in smt submenu 24.2 / 24.3 / 24.4 / 12 / 12.1 / 12.3.
4. [BUG FIXED] Fix the CPU Bus timeout if OAM packet pass through our router in which there is no such VC.
5. [BUG FIXED] Fix the channel drop fail and ring up fail problem at smt4/ smt11 (connection magnment)
6. [BUG FIXED] Fix the security webpage filter link list problem.

Modification in V3.40(ES.0)b15 | 2002/5/28

1. [FEATURE ENHANCED] Enlarge the adsl download modem code timing from 100ms to 200ms (HTP)
2. [FEATURE ENHANCED] Change rom-file setting for new structure.
3. [BUG FIXED] Fix the web-page cause the line drop if the setting is as before.
4. [BUG FIXED] Fix the NetBIOS packet incoming from Wan would cause our router exception.
5. [BUG FIXED] Fix the enet-encap could not bind wanip if the dsl line drop and link again.

Modification in V3.40(ES.0)b14 | 2002/5/17

1. [FEATURE ENHANCED] Change Bootbase to 1.04 version
2. [FEATURE ENHANCED] Merge SNMP trap v2

3. [FEATURE ENHANCED] Merge the new exception handler.
4. [BUG FIXED] Fix the DSL Active light is sparkling when no traffic pass through.
5. [BUG FIXED] Fix the exception when typing “sys iface disp wanif0 4” (after wanif0 had created)
6. [BUG FIXED] Fix the exception when new mac address pass through after the following setting steps: bridge is not set at smt1 and change bridge to router at smt11.
7. [BUG FIXED] Fix the exception if change the encap from PPP to 1483.
8. [BUG FIXED] Fix the PPP always idle if packet trigger before DSL line is up.
9. [BUG FIXED] Fix the default setting is lost when we clear the remoteNode by typing space at smt.
10. [BUG FIXED] Fix the username would be “?” if enter IP/Bridge option in smt11_0l

Modification in V3.40(ES.0)b13 | 2002/4/29

1. [FEATURE ENHANCED] Add protection for null pointer to avoid exception.
2. [BUG FIXED] Modify the default dhcp pool number at Web from 4 to 32.

Modification in V3.40(ES.0)b12 | 2002/4/22

1. [BUG FIXED] Modify system reboot: telnet will sometimes let system reboot(exception occur.)
2. [BUG FIXED] Common Bug fixed(porting from IP department by slchiang): add system sometimes will point to null point , new rascode will to detect pointer is null or not.

Modification in V3.40(ES.0)b11 | 2002/4/12

1. [FEATURE ENHANCED] Unify the ADSL driver API for Web, Smt and ci-command.
2. [FEATURE ENHANCED] Add DyingGasp Recovery mechanism
3. [FEATURE CHANGED] Modify the console task priority.
4. [FEATURE ENHANCED] Add setting protection for MBS, Idle-timeout at smt4 / smt11.
(0~65535)
5. [FEATURE ENHANCED] Support PPP packet trigger [Note: Now PPP bcp mode would not support]
6. [FEATURE ENHANCED] Add call filter at smt11.5 when the encap was packet trigger
(PPPoE / PPP)
7. [FEATURE ENHANCED] Modify the default DHCP ip pool to 32, and change the name of
smt3.1 / smt 3.2
8. [FEATURE ENHANCED] Enlarge the Queue number to 128, the tftp memory allocation size and
the NatSessions (256 ->1024)
9. [FEATURE ENHANCED] Upgrade romPager(Web Engine) from 3.0 to 4.0
10. [BUG FIXED] Fix the larger packet ping failure from the Wan side at PPPoE encap.
11. [BUG FIXED] Fix the time couldn't be update from time server when the router reset or from the
Lan side.
12. [BUG FIXED] Fix the wanIp would not be changed when changing the wanip from static to
dynamic.
13. [BUG FIXED] Fix the system hang-up if pressing any key when loading ADSL modem code.
14. [BUG FIXED] Fix the enet-Encap setting would be failure by smt11_0l (not smt4)

Modification in V3.40(ES.0)b10 | 2002/2/5

1. [FEATURE ENHANCED] Support Dynamic DNS, it can be configured from SMT 1.1
2. [FEATURE ENHANCED] Support Remote Management, it can be configured from SMT 24.11
3. [FEATURE CHANGED] Alcatel modem code is upgraded to 3.8.163
4. [BUG FIXED] In Web system status, the subnet mask of remote IP address is wrong
5. [BUG FIXED] In Web “Show Statistics” display error in IE5

Modification in V3.40(ES.0)b9 | 2001/12/17

1. [BUG FIXED] Configured 4 remote nodes, when ADSL line is link down, some remote nodes are not really closed,
after line links up.
2. [BUG FIXED] Configured 4 remote nodes, when ADSL line is link down, some remote nodes are not really closed,

after line links up again, some remote nodes can't work

Modification in V3.40(ES.0)b8 | 2001/12/4

1. [BUG FIXED] System hangs-up when configured in bridge mode.
2. [BUG FIXED] System hangs-up when PPPoE mode is triggered.
3. [BUG FIXED] WAN iface will increase when system is configuring SMT4 - PPPoE or PPP again and again.

Modification in V3.40(ES.0)b7 | 2001/11/20

1. [FEATURE ENHANCED] support reset button to restore default ROM file.
2. [BUG FIXED] Using MIB browser to get all MIB will make system hang
3. [BUG FIXED] System can't support 1k-Xmodem to upload F/W through Procomm Plus
4. [BUG FIXED] System hang-up, when configuring remote nodes
5. [BUG FIXED] In testing Upstream stress test to 4 remote nodes, 4 remote nodes receive different packet counts
6. [BUG FIXED] In Web/GUI, system can't display DSL modem version
7. [BUG FIXED] Configure LAN port to 100Mbps but it is treated as 10Mbps

Modification in V3.40(ES.0)b6 | 2001/11/8

1. [FEATURE ENHANCEMENT] supports MIB-II.
2. [BUG FIXED] Change UBR to CBR, system will fail to ping.
3. [BUG FIXED] System will hang when using SNMP browser.
4. [Modem code] The modem code version name should be Alcatel 3.8.124
5. [BUG FIXED] system log can not be cleared
6. [BUG FIXED] Budget allocation can only be used when encapsulation is "PPPoE"

Modification in V3.40(ES.0)b5 | 2001/10/26

1. [FEATURE ENHANCED] Supports Embedded Web Configurator.
2. [FEATURE ENHANCED] Supports Uart using internal clock, but the baud rate only supports max to 38400bps
3. [FEATURE ENHANCED] change default VPI/VCI to 8/35.

Modification in V3.40(ES.0)b4

1. [FEATURE ENHANCED] Modify BOOTBASE and also BOOTEXT to support MX flash

Modification in V3.40(ES.0)b3

1. [FEATURE ENHANCED] In ATMRX.C ATM RX ISR, when receives error packets should free receive Rx count
2. [BUG FIXED] In SMT 3.2, DHCP item can't be saved.
3. [BUG FIXED] In SMT 11, the subnet mask of Remote IP address can't be saved.
4. [BUG FIXED] Throughput test by Smart Application will fail when test duration is 60 seconds or more

Internal Information:

1. Modification.

Modification in V3.40(ES.2)b2 | 2002/8/8

1. [FEATURE ENHANCED] Add “Code Checksum” at atsh

Modification in V3.40(ES.2)b1 | 2002/7/25

1. [FEATURE ENHANCED] Add “atld” AT-command.

Modification in V3.40(ES.0)b17 | 2002/6/12

1. [BUG FIXED] Add hidden protection for sptgen.

Modification in V3.40(ES.0)b15 | 2002/5/28

1. [FEATURE ENHANCED] Add ci-command “sys spt hidden <node>” to avoid user enter this remotenode to config
2. [FEATURE ENHANCED] Add “ATDC” for at-command.

Modification in V3.40(ES.0)b14 | 2002/5/17

1. [FEATURE ENHANCED] Merge the code with P650H / P650HW
2. [FEATURE ENHANCED] Use the Rom_controller when engineer debug flag is close to avoid the NULL pointer exception problem.
3. [FEATURE ENHANCED] Add “pragma pack(1) / pragma pack() “ bewteen PACKED definition.
4. [FEATURE ENHANCED] Change ethernet driver to follow P650H.

Modification in V3.40(ES.0)b13 | 2002/4/29

1. [FEATURE ENHANCED] Add the sptgen feature.

Modification in V3.40(ES.0)b11 | 2002/4/12

1. [FEATURE ENHANCED] Add the ci-command “ wan adsl dumplog” for Alcatel interoperability testing. (Please use baudrate: 38400)
2. [FEATURE ENHANCED] Add vendor and hwVerRange check
3. [FEATURE ENHANCED] Add checksum protection for TFTP/FTP/Uart.

Modification in V3.40(ES.0)b10 | 2002/2/5

1. [FEATURE ENHANCED] Add a command “wan adsl rate off“ into autoexec.net which is to avoid link up/down too frequently
2. [BUG FIXED] One spelling error in the text display of command “sys romreset”

Modification in V3.40(ES.0)b6 | 2001/11/8

1. [FEATURE ENHANCED] merge the codes with ZyNOS 3.40 trunk.

Modification in V3.40(ES.0)b5 | 2001/10/26

1. [FEATURE ENHANCED] Modify CI Command “ether driver config [0|1=auto|normal] [0|1=10|100] [0|1=HD|FD] <ch-name>”

Modification in V3.40(ES.0)b4

1. [FEATURE ENHANCED] One CI command is added “ether driver config [0|1=normal|auto] [0|1=10|100] [0|1=HD|FD] <ch-name>” for configuring 10/100M ethernet manually, default is automatically sensing.

2. Manufactory Data in Bootbase

```
ZyNOS Version      : V3.40(ES.2) | 8/19/2002 9:54:11
Bootbase Version   : V1.05 | 7/29/2002 11:53:18
Vendor Name        : ZyXEL Communications Corp.
Product Model      : Prestige 650R-11
ZyNOS Code Model    : P650 ATU-R
HTP Code Model     : HTP_P650 V 0.01
ZyNOS ROM address  : bfc08000
System Type        : 6
MAC Address         : 00A0C5xxxxxx
Default Country Code : FF
Boot Module Debug Flag : xx
RomFile Version     : xx
RomFile Checksum    : d04e
ZyNOS Checksum      : 93c6
Core Checksum       : e60b
SNMP MIB level & OID : 060102030405060708091011121314151617181920
Main Feature Bits   : 86
Other Feature Bits   :
                    77 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00
                    00 00 00 00 00 00 00 00 00-00 40 13 00 00 00
```

3. Default ROM File Value Setting

- Menu 1: General Setup

```
Menu 1 - General Setup

Menu 1 - General Setup

System Name= ?
Location=
Contact Person's Name=
Domain Name=
Edit Dynamic DNS= No

Route IP= Yes
Bridge= No

Press ENTER to Confirm or ESC to Cancel:
```

- Menu 1.1: Configure Dynamic DNS

```
Menu 1.1 - Configure Dynamic DNS

Menu 1.1 - Configure Dynamic DNS

Service Provider= WWW.DynDNS.ORG
Active= Yes
Host=
EMAIL=
```

USER=
Password= *****
Enable Wildcard= No

Press ENTER to Confirm or ESC to Cancel:

- **Menu 3.1: LAN Port Filter Setup**

```
Menu 3.1 - LAN Port Filter Setup

Input Filter Sets:
  protocol filters=
  device filters=
Output Filter Sets:
  protocol filters=
  device filters=

Press ENTER to Confirm or ESC to Cancel:
```

- **Menu 3.2 TCP/IP and DHCP Setup**

```
Menu 3.2 - TCP/IP and DHCP Setup

DHCP Setup
  DHCP= Server
  Client IP Pool Starting Address= 192.168.1.33
  Size of Client IP Pool= 32
  Primary DNS Server= 0.0.0.0
  Secondary DNS Server= 0.0.0.0
  Remote DHCP Server= N/A
TCP/IP Setup:
  IP Address= 192.168.1.1
  IP Subnet Mask= 255.255.255.0
  RIP Direction= Both
    Version= RIP-2B
  Multicast= None
  IP Policies=
  Edit IP Alias= No

Press ENTER to Confirm or ESC to Cancel:
```

- **Menu 4 Internet Access Setup**

```
Menu 4 - Internet Access Setup

ISP's Name= ChangeMe
Encapsulation= ENET ENCAP
Multiplexing= LLC-based
VPI #= 8
VCI #= 35
ATM QoS Type= UBR
  Peak Cell Rate (PCR)= 0
  Sustain Cell Rate (SCR)= 0
  Maximum Burst Size (MBS)= 0
My Login= N/A
My Password=N/A
ENET ENCAP Gateway= N/A
IP Address Assignment= Dynamic
  IP Address= N/A
Network Address Translation= SUA Only
  Address Mapping Set= N/A

Press ENTER to Confirm or ESC to Cancel:
```

- **Menu 11 Remote Node Setup**

```

Menu 11 - Remote Node Setup

1. ChangeMe (ISP, SUA)
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

Enter Node # to Edit:

```

- **Menu 11.1 Remote Node Profile**

```

Menu 11.1 - Remote Node Profile

Rem Node Name= ChangeMe      Route= IP
Active= Yes                  Bridge= No

Encapsulation= ENET ENCAP    Edit IP/Bridge= No
Multiplexing= LLC-based      Edit ATM Options= No
Service Name= N/A            Telco Option:
Incoming:                    Allocated Budget(min)= N/A
    Rem Login= N/A           Period(hr)= N/A
    Rem Password= N/A        Schedule Sets= N/A
Outgoing:                    Nailed-Up Connection= N/A
    My Login= N/A            Session Options:
    My Password= N/A         Edit Filter Sets= No
    Authen= N/A              Idle Timeout(sec)= N/A

Press ENTER to Confirm or ESC to Cancel:

```

- **Menu 11.3 Remote Node Network Layer Options**

```

Menu 11.3 - Remote Node Network Layer Options

IP Options:                  Bridge Options:
IP Address Assignment= Dynamic   Ethernet Addr Timeout(min)= N/A
Rem IP Addr= 0.0.0.0
Rem Subnet Mask= 0.0.0.0
My WAN Addr= N/A
NAT= SUA Only
    Address Mapping Set= N/A
Metric= 2
Private= No
RIP Direction= None
    Version= RIP-1
Multicast= None
IP Policies=

Enter here to CONFIRM or ESC to CANCEL:

```

- **Menu 11.6 Remote Node ATM Layer Options**

```

Menu 11.6 - Remote Node ATM Layer Options
VPI/VCI (LLC-Multiplexing or PPP-Encapsulation)

VPI #= 8
VCI #= 35
ATM QoS Type= UBR
Peak Cell Rate (PCR)= 0
Sustain Cell Rate (SCR)= 0
Maximum Burst Size (MBS)= 0

Enter here to CONFIRM or ESC to CANCEL:

```

- **Menu 11.5 Remote Node Filter**

```

Menu 11.5 - Remote Node Filter

Input Filter Sets:
  protocol filters= 12, 11
  device filters=
Output Filter Sets:
  protocol filters=
  device filters=

Enter here to CONFIRM or ESC to CANCEL:

```

- **Menu 12.1 IP Static Route Setup**

```

Menu 12.1 - IP Static Route Setup

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____

Enter selection number:

```

- **Menu 12.1.1 Edit IP Static Route**

```

Menu 12.1.1 - Edit IP Static Route

Route #: 1
Route Name= ?
Active= No
Destination IP Address= ?
IP Subnet Mask= ?
Gateway IP Address= ?
Metric= 2
Private= No

Press ENTER to Confirm or ESC to Cancel:

```

- **Menu 12.3 Bridge Static Route Setup**

```

Menu 12.3 - Bridge Static Route Setup

1. _____
2. _____
3. _____
4. _____

Enter selection number:

```

- **Menu 12.3.1 - Edit Bridge Static Route**

```

Menu 12.3.1 - Edit Bridge Static Route

Route #: 1
Route Name= ?
Active= No
Ether Address= ?
IP Address=
Gateway Node= 1

Press ENTER to Confirm or ESC to Cancel:

```

- **Menu 15 - NAT Setup**

```

Menu 15 - NAT Setup

1. Address Mapping Sets
2. NAT Server Sets

Press ENTER to Confirm or ESC to Cancel:

```

- **Menu 15.1 - Address Mapping Sets**

```

Menu 15.1 - Address Mapping Sets

1.
2.
3.
4.
5.
6.
7.
8.
255. SUA (read only)

Press ENTER to Confirm or ESC to Cancel:

```

- **Menu 15.1.1 – Address Mapping Rules**

```

Menu 15.1.1 - Address Mapping Rules

Set Name= ?

Idx  Local Start IP  Local End IP  Global Start IP  Global End IP  Type
---  -
1.
2.
3.
4.
5.
6.
7.
8.
9.
10.

Action= None          Select Rule= N/A

Press ENTER to Confirm or ESC to Cancel:

```

- Menu 15.2 – NAT Server Sets

```

Menu 15.2 - NAT Server Sets

1. Server Set 1 (Used for SUA Only)
2. Server Set 2
3. Server Set 3
4. Server Set 4
5. Server Set 5
6. Server Set 6
7. Server Set 7
8. Server Set 8
9. Server Set 9
10. Server Set 10

Press ENTER to Confirm or ESC to Cancel:

```

- Menu 15.2.1 –NAT Server Setup (Used for SUA Only)

```

Menu 15.2.1 - NAT Server Setup (Used for SUA Only)

Rule      Start Port No.    End Port No.    IP Address
-----
1.      Default          Default          0.0.0.0
2.        0                0                0.0.0.0
3.        0                0                0.0.0.0
4.        0                0                0.0.0.0
5.        0                0                0.0.0.0
6.        0                0                0.0.0.0
7.        0                0                0.0.0.0
8.        0                0                0.0.0.0
9.        0                0                0.0.0.0
10.       0                0                0.0.0.0
11.       0                0                0.0.0.0
12.       0                0                0.0.0.0

Press ENTER to Confirm or ESC to Cancel:

```

- Menu 21 Filter Set Configuration

```

Menu 21 - Filter Set Configuration

Filter Set #    Comments          Filter Set #    Comments
-----
1      NetBIOS_WAN      7      _____
2      NetBIOS_LAN      8      _____
3      TELNET_WAN      9      _____
4      PPPoE           10     _____
5      FTP_WAN         11     WebSet1
6      _____      12     WebSet2

Enter Filter Set Number to Configure= 0

Edit Comments= N/A

Press ENTER to Confirm or ESC to Cancel:

```

- **Menu 21.1 Filter Rules Summary (for NetBIOS WAN)**

Menu 21.1 - Filter Rules Summary									
#	A	Type	Filter Rules						M m n
-	-	-	-	-	-	-	-	-	-
1	Y	IP	Pr=6, SA=0.0.0.0, DA=0.0.0.0, DP=137						N D N
2	Y	IP	Pr=6, SA=0.0.0.0, DA=0.0.0.0, DP=138						N D N
3	Y	IP	Pr=6, SA=0.0.0.0, DA=0.0.0.0, DP=139						N D N
4	Y	IP	Pr=17, SA=0.0.0.0, DA=0.0.0.0, DP=137						N D N
5	Y	IP	Pr=17, SA=0.0.0.0, DA=0.0.0.0, DP=138						N D N
6	Y	IP	Pr=17, SA=0.0.0.0, DA=0.0.0.0, DP=139						N D F

Enter Filter Rule Number (1-6) to Configure:

- **Menu 21.1.1 TCP/IP Filter Rule (for NetBIOS WAN)**

```

Menu 21.1.1 - TCP/IP Filter Rule

Filter #: 1,1
Filter Type= TCP/IP Filter Rule
Active= Yes
IP Protocol= 6      IP Source Route= No
Destination: IP Addr= 0.0.0.0
                IP Mask= 0.0.0.0
                Port # = 137
                Port # Comp= Equal
Source: IP Addr= 0.0.0.0
                IP Mask= 0.0.0.0
                Port # =
                Port # Comp= None
TCP Estab= No
More= No           Log= None
Action Matched= Drop
Action Not Matched= Check Next Rule

Press ENTER to Confirm or ESC to Cancel:

```

- **Menu 21.1.2 TCP/IP Filter Rule (for NetBIOS WAN)**

```

Menu 21.1.2 - TCP/IP Filter Rule

Filter #: 1,2
Filter Type= TCP/IP Filter Rule
Active= Yes
IP Protocol= 6      IP Source Route= No
Destination: IP Addr= 0.0.0.0
                IP Mask= 0.0.0.0
                Port # = 138
                Port # Comp= Equal
Source: IP Addr= 0.0.0.0
                IP Mask= 0.0.0.0
                Port # =
                Port # Comp= None
TCP Estab= No
More= No           Log= None
Action Matched= Drop
Action Not Matched= Check Next Rule

Press ENTER to Confirm or ESC to Cancel:

```

- **Menu 21.1.3 TCP/IP Filter Rule (for NetBIOS WAN)**

```

Menu 21.1.3 - TCP/IP Filter Rule

Filter #: 1,3
Filter Type= TCP/IP Filter Rule
Active= Yes
IP Protocol= 6      IP Source Route= No
Destination: IP Addr= 0.0.0.0
               IP Mask= 0.0.0.0
               Port #= 139
               Port # Comp= Equal
Source: IP Addr= 0.0.0.0
         IP Mask= 0.0.0.0
         Port #=
         Port # Comp= None
TCP Estab= No
More= No      Log= None
Action Matched= Drop
Action Not Matched= Check Next Rule

Press ENTER to Confirm or ESC to Cancel:

```

- **Menu 21.1.4 TCP/IP Filter Rule (for NetBIOS WAN)**

```

Menu 21.1.4 - TCP/IP Filter Rule

Filter #: 1,4
Filter Type= TCP/IP Filter Rule
Active= Yes
IP Protocol= 17     IP Source Route= No
Destination: IP Addr= 0.0.0.0
               IP Mask= 0.0.0.0
               Port #= 137
               Port # Comp= Equal
Source: IP Addr= 0.0.0.0
         IP Mask= 0.0.0.0
         Port #=
         Port # Comp= None
TCP Estab= N/A
More= No      Log= None
Action Matched= Drop
Action Not Matched= Check Next Rule

Press ENTER to Confirm or ESC to Cancel:

```

- **Menu 21.1.5 TCP/IP Filter Rule (for NetBIOS WAN)**

```

Menu 21.1.5 - TCP/IP Filter Rule

Filter #: 1,5
Filter Type= TCP/IP Filter Rule
Active= Yes
IP Protocol= 17     IP Source Route= No
Destination: IP Addr= 0.0.0.0
               IP Mask= 0.0.0.0
               Port #= 138
               Port # Comp= Equal
Source: IP Addr= 0.0.0.0
         IP Mask= 0.0.0.0
         Port #=
         Port # Comp= None
TCP Estab= N/A
More= No      Log= None
Action Matched= Drop
Action Not Matched= Check Next Rule

Press ENTER to Confirm or ESC to Cancel:

```

- Menu 21.1.6 TCP/IP Filter Rule (for NetBIOS WAN)

```

Menu 21.1.6 - TCP/IP Filter Rule

Filter #: 1,6
Filter Type= TCP/IP Filter Rule
Active= Yes
IP Protocol= 17      IP Source Route= No
Destination: IP Addr= 0.0.0.0
                IP Mask= 0.0.0.0
                Port #= 139
                Port # Comp= Equal
Source: IP Addr= 0.0.0.0
        IP Mask= 0.0.0.0
        Port #=
        Port # Comp= None
TCP Estab= N/A
More= No          Log= None
Action Matched= Drop
Action Not Matched= Forward

Press ENTER to Confirm or ESC to Cancel:

```

- Menu 21.2 Filter Rules Summary (for NetBIOS LAN)

```

Menu 21.2 - Filter Rules Summary

# A Type          Filter Rules          M m n
- - - - -
1 Y IP    Pr=17, SA=0.0.0.0, SP=137, DA=0.0.0.0, DP=53      N D F
2 N
3 N
4 N
5 N
6 N

Enter Filter Rule Number (1-6) to Configure:

```

- Menu 21.2.1 TCP/IP Filter Rule (for NetBIOS LAN)

```

Menu 21.2.1 - TCP/IP Filter Rule

Filter #: 2,1
Filter Type= TCP/IP Filter Rule
Active= Yes
IP Protocol= 17      IP Source Route= No
Destination: IP Addr= 0.0.0.0
                IP Mask= 0.0.0.0
                Port #= 53
                Port # Comp= Equal
Source: IP Addr= 0.0.0.0
        IP Mask= 0.0.0.0
        Port #= 137
        Port # Comp= Equal
TCP Estab= N/A
More= No          Log= None
Action Matched= Drop
Action Not Matched= Forward

Press ENTER to Confirm or ESC to Cancel:

```


- **Menu 21.3 Filter Rules Summary (for TELNET WAN)**

Menu 21.3 - Filter Rules Summary				
#	A	Type	Filter Rules	M m n
1	Y	IP	Pr=6, SA=0.0.0.0, DA=0.0.0.0, DP=23	N D F
2	N			
3	N			
4	N			
5	N			
6	N			

- **Menu 21.3.1 TCP/IP Filter Rule (for TELNET WAN)**

```

Menu 21.3.1 - TCP/IP Filter Rule

Filter #: 3,1
Filter Type= TCP/IP Filter Rule
Active= Yes
IP Protocol= 6      IP Source Route= No
Destination: IP Addr= 0.0.0.0
                IP Mask= 0.0.0.0
                Port # = 23
                Port # Comp= Equal
Source: IP Addr= 0.0.0.0
                IP Mask= 0.0.0.0
                Port # =
                Port # Comp= None
TCP Estab= No
More= No           Log= None
Action Matched= Drop
Action Not Matched= Forward

Press ENTER to Confirm or ESC to Cancel:

```

- **Menu 21.4 Filter Rules Summary (for PPPoE)**

Menu 21.4 - Filter Rules Summary				
#	A	Type	Filter Rules	M m n
1	Y	Gen	Off=12, Len=2, Mask=ffff, Value=8863	N F N
2	Y	Gen	Off=12, Len=2, Mask=ffff, Value=8864	N F D
3	N			
4	N			
5	N			
6	N			

Enter Filter Rule Number (1-6) to Configure:

- **Menu 21.4.1 Generic Filter Rule (for PPPoE)**

```

Menu 21.4.1 - Generic Filter Rule

Filter #: 4,1
Filter Type= Generic Filter Rule
Active= Yes
Offset= 12
Length= 2
Mask= ffff
Value= 8863
More= No           Log= None
Action Matched= Forward
Action Not Matched= Check Next Rule

Press ENTER to Confirm or ESC to Cancel:

```

- Menu 21.4.2 Generic Filter Rule (for PPPoE)

```

Menu 21.4.2 - Generic Filter Rule

Filter #: 4,2
Filter Type= Generic Filter Rule
Active= Yes
Offset= 12
Length= 2
Mask= ffff
Value= 8864
More= No           Log= None
Action Matched= Forward
Action Not Matched= Drop

Press ENTER to Confirm or ESC to Cancel:

```

- Menu 21.5 Filter Rules Summary (for FTP WAN)

```

Menu 21.5 - Filter Rules Summary

# A Type                      Filter Rules                      M m n
- - - - -
1 Y IP      Pr=6, SA=0.0.0.0, DA=0.0.0.0, DP=21      N D F
2 N
3 N
4 N
5 N
6 N

```

- Menu 21.5.1 TCP/IP Filter Rule (for FTP WAN)

```

Menu 21.5.1 - TCP/IP Filter Rule

Filter #: 5,1
Filter Type= TCP/IP Filter Rule
Active= Yes
IP Protocol= 6      IP Source Route= No
Destination: IP Addr= 0.0.0.0
                IP Mask= 0.0.0.0
                Port #= 21
                Port # Comp= Equal
Source: IP Addr= 0.0.0.0
                IP Mask= 0.0.0.0
                Port #=
                Port # Comp= None
TCP Estab= No
More= No           Log= None
Action Matched= Drop
Action Not Matched= Forward

Press ENTER to Confirm or ESC to Cancel:

```

- Menu 21.11 Filter Rules Summary (for WebSet1)

Menu 21.12 - Filter Rules Summary						
#	A	Type	Filter Rules			M m n
1	Y	IP	Pr=17, SA=0.0.0.0, DA=0.0.0.0, DP=161			N D N
2	Y	IP	Pr=17, SA=0.0.0.0, DA=0.0.0.0, DP=162			N D F
3	N					
4	N					
5	N					
6	N					

- Menu 21.11.1 TCP/IP Filter Rule (for WebSet1)

```

Menu 21.11.1 - TCP/IP Filter Rule

Filter #: 11,1
Filter Type= TCP/IP Filter Rule
Active= Yes
IP Protocol= 17      IP Source Route= No
Destination: IP Addr= 0.0.0.0
                IP Mask= 0.0.0.0
                Port # = 161
                Port # Comp= Equal
Source: IP Addr= 0.0.0.0
                IP Mask= 0.0.0.0
                Port # =
                Port # Comp= None
TCP Estab= No
More= No           Log= None
Action Matched= Drop
Action Not Matched= Check Next Rule

Press ENTER to Confirm or ESC to Cancel:

```

- Menu 21.11.2 TCP/IP Filter Rule (for WebSet1)

```

Menu 21.11.2 - TCP/IP Filter Rule

Filter #: 11,2
Filter Type= TCP/IP Filter Rule
Active= Yes
IP Protocol= 17      IP Source Route= No
Destination: IP Addr= 0.0.0.0
                IP Mask= 0.0.0.0
                Port # = 162
                Port # Comp= Equal
Source: IP Addr= 0.0.0.0
                IP Mask= 0.0.0.0
                Port # =
                Port # Comp= None
TCP Estab= N/a
More= No           Log= None
Action Matched= Drop
Action Not Matched= Forward

Press ENTER to Confirm or ESC to Cancel:

```

- Menu 21.12 Filter Rules Summary (for WebSet2)

Menu 21.12 - Filter Rules Summary						
#	A	Type	Filter Rules			M m n
1	Y	IP	Pr=6, SA=0.0.0.0, DA=0.0.0.0, DP=23			N D N
2	Y	IP	Pr=6, SA=0.0.0.0, DA=0.0.0.0, DP=21			N D N
3	Y	IP	Pr=17, SA=0.0.0.0, DA=0.0.0.0, DP=69			N D N
4	Y	IP	Pr=6, SA=0.0.0.0, DA=0.0.0.0, DP=80			N D N
5	N					
6	N					

- Menu 21.12.1 TCP/IP Filter Rule (for WebSet)

```

Menu 21.12.1 - TCP/IP Filter Rule

Filter #: 12,1
Filter Type= TCP/IP Filter Rule
Active= Yes
IP Protocol= 6      IP Source Route= No
Destination: IP Addr= 0.0.0.0
                IP Mask= 0.0.0.0
                Port # = 23
                Port # Comp= Equal
Source: IP Addr= 0.0.0.0
                IP Mask= 0.0.0.0
                Port # =
                Port # Comp= None
TCP Estab= No
More= No           Log= None
Action Matched= Drop
Action Not Matched= Check Next Rule

Press ENTER to Confirm or ESC to Cancel:

```

- Menu 21.12.2 TCP/IP Filter Rule (for WebSet))

```

Menu 21.12.2 - TCP/IP Filter Rule

Menu 21.12.1 - TCP/IP Filter Rule

Filter #: 12,1
Filter Type= TCP/IP Filter Rule
Active= Yes
IP Protocol= 6      IP Source Route= No
Destination: IP Addr= 0.0.0.0
                IP Mask= 0.0.0.0
                Port # = 21
                Port # Comp= Equal
Source: IP Addr= 0.0.0.0
                IP Mask= 0.0.0.0
                Port # =
                Port # Comp= None
TCP Estab= No
More= No           Log= None
Action Matched= Drop
Action Not Matched= Check Next Rule

Press ENTER to Confirm or ESC to Cancel:

```

- **Menu 21.12.3 TCP/IP Filter Rule (for WebSet)**

```

Menu 21.12.3 - TCP/IP Filter Rule

Menu 21.12.3 - TCP/IP Filter Rule

Filter #: 12,3
Filter Type= TCP/IP Filter Rule
Active= Yes
IP Protocol= 17      IP Source Route= No
Destination: IP Addr= 0.0.0.0
                IP Mask= 0.0.0.0
                Port #= 69
                Port # Comp= Equal
Source: IP Addr= 0.0.0.0
                IP Mask= 0.0.0.0
                Port #=
                Port # Comp= None
TCP Estab= No
More= No              Log= None
Action Matched= Drop
Action Not Matched= Check Next Rule

Press ENTER to Confirm or ESC to Cancel:

```

- **Menu 21.12.4 TCP/IP Filter Rule (for WebSet)**

```

Menu 21.12.4 - TCP/IP Filter Rule

Menu 21.12.4 - TCP/IP Filter Rule

Filter #: 12,4
Filter Type= TCP/IP Filter Rule
Active= Yes
IP Protocol= 6      IP Source Route= No
Destination: IP Addr= 0.0.0.0
                IP Mask= 0.0.0.0
                Port #= 80
                Port # Comp= Equal
Source: IP Addr= 0.0.0.0
                IP Mask= 0.0.0.0
                Port #=
                Port # Comp= None
TCP Estab= N/A
More= No              Log= None
Action Matched= Drop
Action Not Matched= Check Next Rule

Press ENTER to Confirm or ESC to Cancel:

```

- **Menu 22 - SNMP Configuration:**

```

Menu 22 - SNMP Configuration

SNMP:
Get Community= public
Set Community= public
Trusted Host= 0.0.0.0
Trap:
Community= public
Destination= 0.0.0.0

Press ENTER to Confirm or ESC to Cancel:

```

- **Menu 23 – System Password:**

```

Menu 23 - System Password

Old Password= ?
New Password= ?
Retype to confirm= ?

Enter here to CONFIRM or ESC to CANCEL:

```

- **Menu 24.2.2: System Maintenance – Change Console Port Speed**

```

Menu 24.2.2 - System Maintenance - Change Console Port Speed

Console Port Speed: 9600

Press ENTER to Confirm or ESC to Cancel:

```

- **Menu 24.3: System Maintenance – UNIX Syslog**

```

Menu 24.3.2 - System Maintenance - UNIX Syslog

UNIX Syslog:
Active= No
Syslog IP Address= ?
Log Facility= Local 1

Types:
CDR= No
Packet triggered= No
Filter log= No
PPP log= No

Press ENTER to Confirm or ESC to Cancel:

```

- **Menu 24.10: System Maintenance – Time and Date Setting**

```

Menu 24.10 - System Maintenance - Time and Date Setting

Use Time Server when Bootup= None
Time Server Address= N/A

Current Time:                06 : 14 : 33
New Time (hh:mm:ss):         06 : 14 : 33

Current Date:                2000 - 01 - 01
New Date (yyyy-mm-dd):       2000 - 01 - 01

Time Zone= GMT

Daylight Saving= No
Start Date (mm-dd):          01 - 00
End Date (mm-dd):            01 - 00

Press ENTER to Confirm or ESC to Cancel:

```

- **Menu 24.11: System Maintenance – Remote Management Control**

Menu 24.11 - Remote Management Control

TELNET Server:

Server Port = 23	Server Access = ALL
Secured Client IP = 0.0.0.0	

FTP Server:

Server Port = 21	Server Access = ALL
Secured Client IP = 0.0.0.0	

Web Server:

Server Port = 80	Server Access = ALL
Secured Client IP = 0.0.0.0	

Press ENTER to Confirm or ESC to Cancel:

- ```
ras> sys view autoexec.net
sys errctl 0
sys trcl level 5
sys trcl type 1180
sys trcp cr 64 96
sys trcl sw off
sys trcp sw off
ip tcp mss 512
ip tcp limit 2
ip tcp irtt 65000
ip tcp window 2
ip tcp ceiling 6000
ip rip activate
ip rip merge on
ip icmp discovery enif0 off
ppp ipcp compress off
sys wdog sw on
sys quick enable
wan adsl rate off
```