ZyXEL

Firmware Release Note

ZyXEL Prestige 650R-13

Release 3.40(FU.2)C0

Date: **August 19, 2002**
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ZyXEL Prestige 650R-13 Standard Version release 3.40(FU.2)C0 Release Note

Date: Aug 19, 2002

Supported Platforms:

ZyXEL Prestige 650R-13

Versions:

ZyNOS F/W Version: V3.40(FU.2) | 8/19/2002 19:40:48
Bootbase Version: V1.05 | 7/29/2002 11:53:18

Notes:

1. The Prestige 650R-13 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 ITU standard (G.992.1 AnnexB; G.997.1).
    - 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
    - Dynamic DNS

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 2.7.38 now.

Known Issues:

None

Features:

Modification in V3.40(FU.2) | 8/19/2002
1. [FEATURE CHANGED] Change name for formal Release.

Modification in V3.40(FU.2)b2 | 2002/8/9
1. [FEATURE ENHANCED] Add "Nail-Up" and "Password" configuration by sptgen
2. [FEATURE ENHANCED] Enlarge PPPoE username length to 70 characters.
    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. [FEATURE CHANGED] Change ADSL standard form "Normal Open" to "Multi-mode"
6. [BUG FIXED] Fix the configuration length about PPPoE idle timeout at web wizard

Modification in V3.40(FU.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 rsploss" ci-command
3. [FEATURE ENHANCED] Change the showing model name at smt main from "Prestige 650" to "Prestige 650R-13".
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(FU.0) | 2002/6/17
1. [FEATURE CHANGED] Change name for formal release.

Modification in V3.40(FU.0)b11 | 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(FU.0)b10 | 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 requtest 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(FU.0)b9 | 2002/5/31
1. [BUG FIXED] Fix firmware upgrade by console sometimes would cause system un-boot.
2. [BUG FIXED] Fix ppp dial fail if setting by sptgen if encap changed from 1483 or enet-encap.
3. [BUG FIXED] Fix the filter setting in IpAlias at smt3.2.1 is not NULL by default.
4. [FEATURE ENHANCED] Modify the web Help message about wizard and security.
5. [FEATURE CHANGED] Modify the process for NAT error setting.

Modification in V3.40(FU.0)b8 | 2002/5/28
1. [FEATURE CHANGED] Change Alcatel modem code to 2.7.38
2. [BUG FIXED] Fix the enet-encap cound not bind dynamic wanip if DSL line is dropped and linked again.

3. [BUG FIXED] Fix exception if NetBIOS (port=138) enter wanSide and NAT/SUA is turned on.
4. [BUG FIXED] Fix the channel would close & open again if there is no change at NAT webpage.
5. [BUG FIXED] Enlarge the adsl modem code download timing from 100ms to 200ms (For HTP)
6. [BUG FIXED] Fix the username would be "?" if we enter smt11.3 and return smt11.1

Modification in V3.40(FU.0)b7 | 2002/5/16
1. [FEATURE ENHANCED] Change Bootbase to 1.04 version.
2. [FEATURE ENHANCED] Merge SNMP trap v2.
3. [BUG FIXED] Fix the DSL Active light is sparkling when no traffic pass through.
4. [BUG FIXED] Fix exception when typing "sys iface disp wanif0 4" (after wanif0 had created)
5. [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
6. [BUG FIXED] Fix the exception if changing the encap from PPP to 1483.
7. [BUG FIXED] Fix the PPP always idle if packet trigger before DSL line is up.
8. [BUG FIXED] Fix default setting is lost when we clear the remoteNode by typing space at smt.

Modification in V3.40(FU.0)b6 | 2002/4/29
1. [FEATURE ENHANCED] Add sptgen feature.
2. [FEATURE ENHANCED] Modify the default DHCP pool from 6 to 32.

Modification in V3.40(FU.0)b5 | 2002/4/12
1. [FEATURE CHANGED] Change the interrupt priority.
2. [BUG FIXED] Fix the ADSL LED would not let off when we reset adsl line by smt or web.
3. [BUG FIXED] Fix the restore default rom button would cause the security level change to 3.
4. [BUG FIXED] Fix the loss of web help pags.
5. [BUG FIXED] Fix the err_code=0x0009 problem when we press the NULL help WebPages.
6. [FEATURE ENHANCED] Add the separated selection for Web security page.

Modification in V3.40(FU.0)b4 | 2002/4/1
1. [BUG FIXED] Fix the TimeServer would cause the system reset.
2. [BUG FIXED] Fix the TimeServer couldn't upgrade after the system reset.
3. [BUG FIXED] Fix the loss of the Web mainmenu's help.
4. [BUG FIXED] Enlarge the length of the PPPoE username to 45 by Web.
5. [BUG FIXED] Add Snmp protection for incoorect content attack.
6. [BUG FIXED] Fix the OH-phone call couldn't work.
7. [FEATURE ENHANCED] Protect the romfile to avoid the write flash error if spRead() is called after spSave() immediately.

Modification in V3.40(FU.0)b3 | 2002/3/20
1. [FEATURE ENHANCED] Add RemoteNode magnment
2. [FEATURE ENHANCED] Add PPP packet trigger (Warning: This hadn't supported PPP BCP mode)
3. [FEATURE ENHANCED] Add Call filter to supprot PPP / PPPoE at smt11.5
4. [FEATURE ENHANCED] Add ESP pass through from the server side.
5. [FEATURE ENHANCED] Add extended username to support 45 characters
6. [FEATURE ENHANCED] Enlarge the default queue number
7. [BUG FIXED] Add protection for MBS setting at smt4 / smt11.6 (MBS range: 0~65535)
8. [BUG FIXED] Add protection for idle-timeout at smt4 / smt11.1(Idle Timeout range: 0~65535)
9. [BUG FIXED] Fix the username and password are " "(space) when the encap became from 1483 to PPPoE.
10. [FEATURE CHANGED] Modify the name of smt submenu3 (same as smt mainmenu) and submenu3.2
11. [FEATURE CHANGED] Change the default DHCP ip pool number to 32
12. [FEATURE ENHANCED] Add the Nat webpage / firmware upgrade/ default rom file at Advance setup and Matenment.

13. [BUG FIXED] Fix the DHCP web-page link fail
14. [BUG FIXED] Fix the reset button failure at Web configuration/Advanced Setup/ Lan
15. [BUG FIXED] Remove the "NeedSave" characters when we save smt
16. [FEATURE ENHANCED] Add dyingGasp Recovery mechanism.
17. [FEATURE CHANGED] Change ADSL multi-mode to Normal Open mode.
18. [BUG FIXED] Fix the ping failure when the packet size larger than 1473 from the wan side (PPPoE encap)

Modification in V3.40(FU.0)b2 | 2002/2/5
1. [FEATURE ENHANCED] Add DDNS Web.
2. [BUG FIXED] Fix the display about the my wanip at smt24.1 when the length of the ip string is became short from long.
3. [BUG FIXED] Fix the Reset button would casue exception after loading default rom-file.

Modification in V3.40(FU.0)b1 | 2002/1/31
1. [FEATURE ENHANCED] Add the DDNS setting by smt (submenu 1, and 1-1).
2. [FEATURE ENHANCED] Modify showing APIs about the ADSL driver at smt / web / ci-command.
3. [FEATURE CHANGED] Change modem code to 2.7.35 for AnnexB
4. [FEATURE CHANGED] Modify the hwsar ci-command the same as before.
5. [BUG FIXED] Fix the failure when users press the buttton about ATM counter and OAM Loopback at web.
6. [BUG FIXED] Fix the subnet mask always display 0.0.0.0 at web status page.
7. [BUG FIXED] Fix the range of NAT server mapping set from 2 to 10 at Web
8. [BUG FIXED] Fix false alarm if user hadn't changed any setting in NAT server set menu at Web.
9. [BUG FIXED] Fix the router would hang-up if pressing any key when the router download modem code.
10. [BUG FIXED] Fix the non-initializing value for static variable.
11. [FEATURE CHANGED] Change the rom-file setting.

Internal Information:

1. Modification.

Modification in V3.40(FU.2)b2 | 2002/8/9
1.   [FEATURE ENHANCED] Add "Core Checksum" at atsh

Modification in V3.40(FU.2)b1 | 2002/7/25
1.   [FEATURE ENHANCED] Add "atld" AT-command.

Modification in V3.40(FU.0)b11 | 2002/6/12
1.   [BUG FIXED] Add hidden protection for sptgen.

Modification in V3.40(FU.0)b8 | 2002/5/28
1.   [FEATURE ENHANCED] Add ci-command "sys spt hidden <node>"
2.   [FEATURE ENHANCED] Add at-command "ATDC"

Modification in V3.40(FU.0)b7 | 2002/5/16
1.   [FEATURE CHANGED] 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 CHANGED] Change ethernet driver to follow P650H.
5.   [FEATURE ENHANCED] Merge the new exception handler.

Modification in V3.40(FU.0)b6 | 2002/4/29
1.   [FEATURE ENHANCED] Add the sptgen feature.
2.   [BUG FIXED] Add the null-pointer protection (avoid exception) and exception handler.

Modification in V3.40(FU.0)b5 | 2002/4/12
1.   [FEATURE ENHANCED] Add vendor and HwVerRange check.
2.   [FEATURE ENHANCED] Add 2-bytes check Model
3.   [FEATURE CHANGED] Modify NatSessions from 256 to 1024 at mmct table.
4.   [FEATURE ENHANCED] Add model check mechanism when upgrading rasCode by FTP / TFTP / Console . (key must be turn off)

Modification in V3.40(FU.0)b4 | 2002/4/1
1.   [FEATURE ENHANCED] Add " wan adsl dumplog" for Alcatel chipset.

Modification in V3.40(FU.0)b3 | 2002/3/20
1.   [FEATURE ENHANCED] Upgrade the romPager from 3.0 to 4.0 for new Web usage.
2.   [BUG FIXED] Open the "ADJUSTTIME" flag at switch.h to solve the time couldn't be get when P650 restart again.
3.   [FEATURE CHANGED] Change the ci-command "wan adsl opencmd".

2. Known Issues:

1. Mbuf would be free twice and this would cause the router restart.

   Reproduce: (method 1) ci-command and packet transport at the same time (about 4~12 hours)
                  (method 2) transport heavy traffic at Lan

3. Manufactory Data in Bootbase

ZyNOS Version	: V3.40(FU.2) | 8/19/2002 19:40:48
Bootbase Version	: V1.05 | 7/29/2002 11:53:18
Vendor Name	: ZyXEL Communications Corp.
Product Model	: Prestige 650R-13
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	: 03a6
ZyNOS Checksum	: fa27
Core Checksum	: 0105
SNMP MIB level & OID	: 060102030405060708091011121314151617181920
Main Feature Bits	: 86
Other Feature Bits	:
	8E 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

4. 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:
```

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
        My Password= N/A               Session Options:
        Authen= N/A                      Edit Filter Sets= No
                                         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= Both
          Version= RIP-2B
        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                            Filter
    Set #        Comments             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 24.2.1: System Maintenance – Information

```
        Menu 24.2.1 - System Maintenance - Information

            Name:
            Routing: IP
            ZyNOS F/W Version: V3.40(FU.2) | 8/19/2002
            ADSL Chipset Vendor:  Alcatel, Version  2.7.38
            Standard: Multi-Mode

            LAN
              Ethernet Address: 00:a0:c5:01:23:45
              IP Address: 192.168.1.1
              IP Mask: 255.255.255.0
              DHCP: Server

            Press ESC or RETURN to Exit:
```

- 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
  ```