ZyXEL Prestige 652R-11 3.40(FN.0) Release Note

Date: May 24, 2002

Supported Platforms:

ZyXEL Prestige firmware V3.40(FN.0) supports for P652R-11

Versions:

ZyNOS Version: V3.40(FN.0) | 5/24/2002
Bootbase Version: V1.03 | 3/5/2002 11:12:49

Notes:

1. The Prestige 652, is 3rd generation of ZyXEL ADSL product family. It is a high performance ADSL router for small/medium office to have Internet access and LAN-to-LAN application through ADSL connection over the existing copper line. The high performance ADSL router is integrated advanced firewall and VPN features to meet the demand of high-end market.

Main features for FCS:

- Support Multi-Mode standard (ANSI T1.413, Issue 2; G.dmt(G.992.1); G.lite(G992.2)).
- 1 auto-sensing 10/100M Ethernet interface
- Support Multi-protocol over AAL5 (RFC2684)
- Support PPP over ATM AAL5 (RFC 2364)
- Support PPP over Ethernet (RFC2516)
- Support up to 8 PVCs
- DHCP Client, Sever and Relay
- RIP I/ RIP II supported.
- IP alias/IP Multicasting/Policy Routing
- TFTP/FTP server for firmware upgrade
- F4/F5 OAM
- Multi-NAT/SUA
- Dynamic DNS
- Firewall with Stateful Inspection, DoS (Denial of Services) supports
- Web-based Configurations
- Script configuration from WAN side (SPTGen)
- Transparent bridging VLAN-tagging support
- VPN (2 IPSec sessions)
- Dial back up

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

Modification:

Modification in 3.40(FN.0)b18(5/21/2002)

■ Don't log timer server initialized message into FW and CF log.

Modification in 3.40(FN.0)b17(5/17/2002)

■ Support smartbit TERA VPN testing.

Modification in 3.40(FN.0)b15(5/13/2002)

■ Add debug message : stack dump mechanism.
■ Latest WEB GUI is integrated.

Modification in 3.40(FN.0)b14(5/8/2002)

■ Embeded web help is integrated.

Modification in 3.40(FN.0)b12(4/8/2002)

■ Dying GASP handling procedure is integrated.
■ PPP, PPPoE Idle timeout Web GUI is integrated.
■ Remote management Web GUI is integrated.
■ Firmware upload Web GUI is integrated.
■ The firewall logs will not be cleared automatically.
■ The priority of Dying GASP interrupt is raise from 5 to 6.

Modification in 3.40(FN.0)b11(3/29/2002)

■ Add "Log" column to the Web GUI of firewall rule summary.
■ Change the style of VPN log viewer of Web GUI from table to text area.
■ The default setting of log for incoming IKE traffic is changed to "None".
■ Add a field of SUA server port end to SPTGen.
■ User name of PPPoE is restricted to 45.

Modification in 3.40(FN.0)b10(3/20/2002)

■ Change to bootbase ver 1.03
■ Support the f/w protection mechanism.
■ Setting of Trusted IP addresses supports a range of IP addresses.
■ Latest SPTGEN is integrated.
■ Date & Time setting of Web GUI is enhanced as SMT.
■ Default value of server access in SMT 24.11 change to "LAN only".
■ DDNS is set as inactive by default.
■ Integrate latest Web GUI.
■ Add "PPPoE" filter set.
■ Add "AlwaysOn" schedule set.
■ Change filter set "TEL_FTP_WEB_WAN" to "TEL_FTP_WEB_SNM", and block SNMP and TFTP.

Modification in 3.40(FN.0)b9(3/8/2002)

■ Modify the mechanism of SA negotiation of VPN, as new version of VPN in ZyWALL.
■ Content filter will log block connections only.

Modification in 3.40(FN.0)b8 (2/26/2002)

- Modify the words or sentence of Web GUI according to the opinions of technical writer and beta users.
- The default number of DHCP pool is set as 32.
- The architecture of IPSec phase 1 & 2 SA negotiation is updated.

Modification in 3.40(FN.0)b6 (2/7/2002)

- The E-mail address setting of Content Filter is forced to be the same as Firewall. The related Web GUI of Content Filter is changed, too.

Modification in 3.40(FN.0)b5 (2/7/2002)

- Change the menu number of Filter Set of SMT menu

Modification in 3.40(FN.0)b4 (2/6/2002)

- More clear error information in Web GUI is integrated
- Some words in Web GUI
- Help selection in Web GUI is removed
- Default filters are added

Modification in 3.40(FN.0)b3 (2/4/2002)

- Web GUI is integrated

Modification in 3.40(FN.0)b2 (1/25/2002)

- Support Patched IPSec VPN
- Preliminary Web GUI

Bug fixes:

Bug fixes in 3.40(FN.0)b20 (5/23/2002)

- Fix the bug that Web atm loopback test can't work if set boot module debug flag=0x00.

Bug fixes in 3.40(FN.0)b19 (5/22/2002)

- Fix the bug that config NAT in WEB (not save yet) will disconnect all connection.

Bug fixes in 3.40(FN.0)b18 (5/21/2002)

- Fix the bug that enter SMT11 submenu cause dialout username = ?.
- Fix the bug that while set customized service port > 8 will cause firewall rule dest. "ANY" address invisible.
- Fix the bug that WEB LAN subnetmask setting can't work.
- Fix the firewall ACL set services as none bug.
- Fix the bug that WEB timer server can't work well in NTP server mode.
- Fix the bug that set WEB time zone option will disable server ip field.

Bug fixes in 3.40(FN.0)b17 (5/17/2002)

- Fix the bug that VPN phase2 KB can't work.

Bug fixes in 3.40(FN.0)b16 (5/15/2002)

- Fix the bug that web can't upgrade firmware.
- Fix the bug that SMT24.10 ENTER key will delete the timer server value.

- Fix the bug that E-net default gateway is set, when wan is up cause system hang.
- Fix the bug that SMT delete ISP node, web wizard config at first time can't save VPI/VCI.
- Fix the bug that firewall log loss some information.
- Fix the bug that firewall customer service rule no.4 show the wrong value.

Bug fixes in 3.40(FN.0)b15 (5/13/2002)

- Fix the bug that can't del firewall wan to lan dest. adds.
- Fix the bug that when PPP is conneting , change to RFC-1483 or E-net cause exception.
- Fix the bug that SMT delete default remote node, Web wizard config., then SMT11 shows set = 1,1,1,1

Bug fixes in 3.40(FN.0)b14 (5/8/2002)

- Fix the bug that VPN-secure gateway with domain name.
- Fix the bug that VPN-exception at delete rule 5.
- Fix the bug that while PPP is idle, web statistic will display "N/A".
- Fix the bug that at E-NET encapsulation bridge mode, while get wan ip cause exception.
- Fix the bug that at E-NET encapsulation , change smt11 bridge mode to IP mode cause exception.

Bug fixes in 3.40(FN.0)b13 (4/22/2002)

- Fix the bug that router reboot while access time server fail.
- Fix the bug that in PPPoE or PPP mode, timer timeout will cause exception occur.
- Fix the SPTGEN problem of error long ID and wrong default value of ipalias filter sets.
- Fix the bug of PPPoE chap fail.
- Fix the bug that while PPP is idle, menu 24.1 will display "N/A".
- Fix the bug that telnet to prestige will cause exception.

Bug fixes in 3.40(FN.0)b12 (4/8/2002)

- Call filter set is add for dial-up connection types.
- Fix the Web GUI bugs that crash IE.
- Fix the bug that crashes the router in PPPoE mode.

Bug fixes in 3.40(FN.0)b11 (3/29/2002)

- Fix the bug the fails to re-login Web GUI after time-out, login and interrupted by console.
- Fix the bug of Neiled-up connection of PPPoE.

Bug fixes in 3.40(FN.0)b10 (3/20/2002)

- Fix the VPN bug that generates error message when user toggles an active IPSec SPD setting between IKE & manual key.
- Fix the bug that the password of Web GUI is always '1234'.
- Fix the IPSec bug that user cannot access LAN port of P652R-11 with SUA is active.
- Fix the SUA/NAT bug that the default port forwarding of server set doesn't work.
- Fix the bugs cause exceptions reported by beta users.

Bug fixes in 3.40(FN.0)b9 (3/8/2002)

- Fix some 4-bytes boundary bugs that crash the system.
- Fix the bug that system doesn't synchronize the system with specific time server after reboot .
- Fix the bug that VPN disconnect doesn't work in Web GUI.
- Fix the bug that system doesn't get correct value of log setting in Edit Rule page of Web GUI.
- Fix the bug that only one page of content filter logs is display.
- Remove the unused items, Next Page, Previous Page, and Go to Rule of SMT 27.1.
- Fix the firewall bug that system crashes when a custom port, whose name includes character '(', is selected by uses .

Bug fixes in 3.40(FN.0)b8 (2/26/2002)

■ Fix the bug that the Web GUI fails to display the custom port in rule list.

Bug fixes in 3.40(FN.0)b7 (2/8/2002)

■ Set the default ACL set of interface

Bug fixes in 3.40(FN.0)b5 (2/7/2002)

■ The problem that VPN doesn't work with SUA or NAT is turned on is fixed (IPSec encapsulated packets should bypass SUA/NAT)

Bug fixes in 3.40(FN.0)b4 (2/6/2002)

■ The problem that fails to re-login the Web GUI when users use some version of Internet Explorer until the browser is restart
■ Display of WAN subnet mask
■ Display of OAM counter
■ The bug that crashes the system when uses select a custom service in some rule is fixed.

Bug fixes in 3.40(FN.0)b3 (2/4/2002)

■ The bug that crashes the system when P652R-11 acts as a responder of IPSec peer is fixed.

Known Bugs:

1. Manufactory Data in Bootbase

ZyNOS Version	: V3.40(FN.0) | 5/24/2002 10:24:48
Bootbase Version	: V1.03 | 3/5/2002 11:12:49
Vendor Name	: ZyXEL Communications Corp.
Product Model	: Prestige 652R
ZyNOS ROM address	: bfc08000
System Type	: 6
MAC Address	: 00A0C5xxxxxx
Default Country Code	: FF
Boot Module Debug Flag	: 00
RomFile Version	: xx
RomFile Checksum	: 4a13
ZyNOS Checksum	: 6e55
SNMP MIB level & OID	: 0601020304050607080910111213141516171181920
Main Feature Bits	: 86
Other Feature Bits	:

```
        8C 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 13 00 00 00
```

2. Default ROM File Value Setting

· Menu 1: General Setup

```
                  Menu 1 - General Setup

         Menu 1 - General Setup

         System Name= ?
         Location=
         Contact Person's Name=

         Route IP= Yes
         Bridge= No



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

· Menu 3.1: General Ethernet Setup

```
              Menu 3.1 - General Ethernet 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 Ethernet Setup

```
              Menu 3.2 - TCP/IP and DHCP Ethernet 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= IGMP-v2
           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= RFC 1483
                 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= Static
                   IP Address= 0.0.0.0
                 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= RFC 1483            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= Static       Ethernet Addr Timeout(min)= N/A
      Rem IP Addr= 0.0.0.0
      Rem Subnet Mask= 0.0.0.0
      My WAN Addr= 0.0.0.0

      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=
                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. _____

                   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 21.1 Filter Set Configuration

```
                        Menu 21.1 - Filter Set Configuration

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



                    Enter Filter Set Number to Configure= 0

                    Edit Comments= N/A

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

· Menu 21.1.2 Filter Rules Summary (for NetBIOS_WAN)

```
                        Menu 21.1.2 - 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 21.1.2.1 TCP/IP Filter Rule (for NetBIOS_WAN)

```
                    Menu 21.1.2.1 - TCP/IP Filter Rule

          Filter #: 2,1
          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 21.1.2.2 TCP/IP Filter Rule (for NetBIOS_WAN)

```
                    Menu 21.1.2.2 - 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 21.1.2.3 TCP/IP Filter Rule (for NetBIOS_WAN)

```
                        Menu 21.1.2.3 - TCP/IP Filter Rule

              Filter #: 2,3
              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 21.1.2.4 TCP/IP Filter Rule (for NetBIOS_WAN)

```
                        Menu 21.1.2.4 - TCP/IP Filter Rule

              Filter #: 2,4
              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 21.1.2.5 TCP/IP Filter Rule (for NetBIOS_WAN)

```
                         Menu 21.1.2.5 - TCP/IP Filter Rule

                 Filter #: 2,5
                 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 21.1.2.6 TCP/IP Filter Rule (for NetBIOS_WAN)

```
                         Menu 21.1.2.6 - TCP/IP Filter Rule

                 Filter #: 2,6
                 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 21.1.3 Filter Rules Summary (for NetBIOS_LAN)

```
                         Menu 21.1.3 - 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 21.1.3.1 TCP/IP Filter Rule (for NetBIOS_LAN)

```
                      Menu 21.1.3.1 - TCP/IP Filter Rule

            Filter #: 3,1
            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 21.1.4 Filter Rules Summary (for PPPoE)

```
                      Menu 21.1.4 - 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 21.1.4.1 Generic Filter Rule (for PPPoE)

```
                      Menu 21.1.4.1 - 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 21.1.4.2 Generic Filter Rule (for PPPoE)

```
                        Menu 21.1.4.2 - 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 21.1.5 Filter Rules Summary (for TEL_FTP_WEB_SNM)

```
                        Menu 21.1.5 - 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=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=6, SA=0.0.0.0, DA=0.0.0.0, DP=80                           N D N
 4 Y IP   Pr=17, SA=0.0.0.0, DA=0.0.0.0, DP=69                          N D N
 5 Y IP   Pr=17, SA=0.0.0.0, DA=0.0.0.0, DP=161                         N D N
 6 Y IP   Pr=17, SA=0.0.0.0, DA=0.0.0.0, DP=162                         N D F


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

· Menu 21.1.5.1 TCP/IP Filter Rule (for TEL_FTP_WEB_SNM)

```
                        Menu 21.1.5.1 - 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 #= 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 21.1.5.2 TCP/IP Filter Rule (for TEL_FTP_WEB_SNM)

```
                    Menu 21.1.5.2 - TCP/IP Filter Rule

          Filter #: 5,2
          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 #= 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 21.1.5.3 TCP/IP Filter Rule (for TEL_FTP_WEB_SNM)

```
                    Menu 21.1.5.3 - TCP/IP Filter Rule

          Filter #: 5,3
          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 #= 80
                       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 21.1.5.4 TCP/IP Filter Rule (for TEL_FTP_WEB_SNM)

```
                    Menu 21.1.5.4 - TCP/IP Filter Rule

           Filter #: 5,4
           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 #= 69
                        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 21.1.5.5 TCP/IP Filter Rule (for TEL_FTP_WEB_SNM)

```
                    Menu 21.1.5.5 - TCP/IP Filter Rule

           Filter #: 5,5
           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 #= 161
                        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 21.1.5.6 TCP/IP Filter Rule (for TEL_FTP_WEB_SNM)

```
                    Menu 21.1.5.6 - TCP/IP Filter Rule

            Filter #: 5,6
            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 #= 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 21.2 Firewall Setup

```
                    Menu 21.2 - Firewall Setup

     The firewall protects against Denial of Service (DoS) attacks when
     it is active. The default Policy sets

         1. allow all sessions originating from the LAN to the WAN and
         2. deny all sessions originating from the WAN to the LAN

     You may define additional Policy rules or modify existing ones but
     please exercise extreme caution in doing so

         Active: No

         LAN-to-WAN Set Name: ACL Default Set
         WAN-to-LAN Set Name: ACL Default Set

     Please configure the Firewall function through Web Configurator

              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 = LAN only
       Secured Client IP = 0.0.0.0

     FTP Server:
       Server Port = 21                 Server Access = LAN only
       Secured Client IP = 0.0.0.0

     Web Server:
       Server Port = 80                 Server Access = LAN only
       Secured Client IP = 0.0.0.0


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

· Menu 25: IP Routing Policy Setup

```
               Menu 25 - IP Routing Policy Setup

     Policy                           Policy
     Set #          Name              Set #          Name
     ------  ----------------         ------  ----------------
       1     _____           7     _____
       2     _____           8     _____
       3     _____           9     _____
       4     _____          10     _____
       5     _____          11     _____
       6     _____          12     _____



               Enter Policy Set Number to Configure= 0

               Edit Name= N/A

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

· Menu 26: Schedule Setup

```
               Menu 26 - Schedule Setup

     Schedule                         Schedule
     Set #          Name              Set #          Name
     ------  ----------------         ------  ----------------
       1     AlwaysOn                   7     _____
       2     _____           8     _____
       3     _____           9     _____
       4     _____          10     _____
       5     _____          11     _____
       6     _____          12     _____



               Enter Schedule Set Number to Configure= 0

               Edit Name= N/A

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

· Menu 26.1: Schedule Setup (for AlwaysOn)

```
               Menu 26.1 Schedule Set Setup


         Active= Yes
         Start Date(yyyy-mm-dd)= 2000 - 01 - 01
         How Often= Weekly
         Once:
           Date(yyyy-mm-dd)= N/A
         Weekdays:
           Sunday= Yes
           Monday= Yes
           Tuesday= Yes
           Wednesday= Yes
           Thursday= Yes
           Friday= Yes
           Saturday= Yes
         Start Time(hh:mm)= 00 : 00
         Duration(hh:mm)= 23 : 59
         Action= Forced On


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

· Menu 27: VPN/IPSec Setup

```
            Menu 27.1 - IPSec Summary

 #      Name     A Local Addr Start  - Local Addr End    Encap  IPSec Algorithm
     Key Mgt      Remote Addr Start - Remote Addr End            Secure Gw Addr
--- ---------- - ----------------   ---------------- ------ ----------------
 001

 002

 003

 004

 005


            Select Command=  None        Select Rule=  N/A

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

· Menu 27.1.1: IPSec Setup

```
         Menu 27.1.1 - IPSec Setup

     Index #= 1        Name= ?
     Active= No

     My IP Addr= 0.0.0.0
     Secure Gateway Addr= 0.0.0.0
     Protocol= 0
     Local:  Addr Type= SINGLE
        IP Addr Start= 0.0.0.0            End= N/A
           Port Start= 0                  End= N/A
     Remote: Addr Type= N/A
        IP Addr Start= N/A                End= N/A
           Port Start= N/A                End= N/A
     Enable Replay Detection= N/A
     Key Management= N/A
     Edit Key Management Setup= N/A

                        DELETE PROFILE:
```

· 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
```