

ZyXEL Prestige 652R-11 3.40(FN.3)C0

Release Note

Date: August 5, 2002

Supported Platforms:

ZyXEL Prestige firmware V3.40(FN.3) supports for P652R-11

Versions:

ZyNOS Version: V3.40(FN.3) | 8/5/2002

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

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, Server 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 / Bug fixes:

Modification in 3.40(FN.3)b5 (8/1/2002)

1. [BUG FIXED]
Symptom: console kick out telnet session cause router reboot.
Condition: While access router by telnet and view firewall log in menu 21.3, disconnect telnet by console cause router reboot.
2. [BUG FIXED]
Symptom: Web help dose not update PPP to PPPoA
Condition: Web help dose not update PPP to PPPoA
3. [BUG FIXED]
Symptom: In WizardSetup, user name of PPPoE/PPPoA have problem if user name length more than 70 characters.
Condition: While set User name of PPPoE/PPPoA is more than 70 characters then save, then check again. User name will be 70 characters+password.
4. [BUG FIXED]
Symptom: IPSEC Phase 2 PFS can't work.
Condition: When P652 build up VPN tunnel to ZW-10 or ZW-50, no matter what settings in phase 1 or in phase 2 are used, VPN tunnel does not work when PFS in phase 2 is enabled. But when PFS is disabled, the VPN connection works just fine.

Modification in 3.40(FN.3)b4 (7/30/2002)

1. [EHHANCEMENT] Change “PPP” to “PPPoA” in SMT menu and WEB
2. [EHHANCEMENT] Update bootbase to 1.05 to differentiate model name in SMT Main Menu.
3. [EHHANCEMENT] Extend PPPoE/PPPoA login User Name to 70 characters.

Modification in 3.40(FN.3)b3 (7/23/2002)

1. [BUG FIXED]
Symptom: Set ISP UserID by SPTGen fail
Condition: While UserID > 32 characters, set ISP UserID by SPTGEN will fail.
2. [BUG FIXED]
Symptom: atm RX ISR doesn't judge the RX_BAD_BIT
Condition: While a error packet into router, atm RX ISR doesn't judge the RX_BAD_BIT, so we receive the error packet. Exactly, we sholud discard the error packet.
3. [BUG FIXED]
Symptom: Write DyingGasp isr message into flash will destroy debug area.
Condition: Write DyingGasp isr message into flash will destroy debug area.
4. [EHHANCEMENT] Enhance SPTGEN to support Nailed-up Connection item.
5. [EHHANCEMENT] Add a CI command “wan adsl rsplloss 0/1” to response signal loss immediately or not.

Modification in 3.40(FN.3)b1(7/5/2002)

- Add attention note in SMT menu 27.1 and VPN web page.
- Modify SPTGEN to support SMT menu 23.
- Modify channel drop mechanism.

Modification in 3.40(FN.1)b1(6/6/2002)

- Web timer server support domain type.

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)

- Embedded 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 in 3.40(FN.3)b2 (7/9/2002)

- Fix the bug that can't save 2nd VPN tunnel while have same local ip address with 1st tunnel.
- Fix the bug that press return key in SMT menu continuously cause router hang-up.
- Fix the bug that while firewall is enable, change PPPoE to RFC-1483 (or PPP) then PC on LAN can ping out but FTP and WEB can't work.

Bug fixes in 3.40(FN.3)b1 (7/5/2002)

- Fix the bug of TCP attack packet.
- Fix the mbuf leakage problem.
- Fix the plug and unplug problem.
- Modify "Prefect" to "Perfect" in VPN web page.
- Fix the bug that IE 5.0.3315 can't upload F/W.
- Fix the bug that IPSec rule conflict check error.
- Modify font type of time zone title in TIME ZONE web page.

Bug fixes in 3.40(FN.1)b2 (6/10/2002)

- Fix the SPTGEN problem : after put rom-t to router, name of ISP node in SMT11 will change to BACKUP_ISP.
- Some incorrect operation in SMT will cause router hang-up.
- Configure NAT server set in port range 1~2000, first ping packet cause router hang-up.

Bug fixes in 3.40(FN.1)b1 (6/6/2002)

- Fix the bug that Web timer server can't support domain type.
- Fix the bug that upgrade to old version firmware have problem.
- Fix the SPTGEN problem : pppoe can't work.
- Fix the bug that configure NAT server set will save to wrong index.
- Fix the checksum error bug in IGMP packet.
- Fix the pt field error bug in OAM packet.

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 connecting, 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. When VPN tunnel is up, from wan side can't ftp LAN IP of router.

1. Manufactory Data in Bootbase

ZyNOS Version	: V3.40(FN.3) 8/5/2002 18:51:46
Bootbase Version	: V1.05 7/29/2002 11:53:18
Vendor Name	: ZyXEL Communications Corp.
Product Model	: Prestige 652R -11
ZyNOS ROM address	: bfc08000
System Type	: 6
MAC Address	: 00A0C5xxxxxx
Default Country Code	: FF
Boot Module Debug Flag	: 00
RomFile Version	: xx
RomFile Checksum	: 9e20
ZyNOS Checksum	: ecaa
SNMP MIB level & OID	: 060102030405060708091011121314151617181920
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 00-00 00 13 00 00 00 00

2. Default ROM File Value Setting

- **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 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 Set #      Comments      Filter 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 SNMP)

```

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 SNMP)

```

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 SNMP)**

```
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: Yes

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 Set #      Name
-----
1
2
3
4
5
6

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

Schedule Set #      Name
-----
7
8
9
10
11
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:
(Attention!! Only two tunnels can be active at the same time)

```

- 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`