
ZyXEL Prestige 642R-11 2.50(AJ.9)

Release Note

Date: July 9, 2002

Supported Platforms:

ZyXEL Prestige firmware V2.50(AJ.9) supports for P642R-11

Versions:

ZyNOS Version: V2.50(AJ.9) | 07/09/2002 14:08:31

Bootbase Version: V2.07 | 3/15/2002 14:29:16

Notes:

1. The Prestige 642R is a compact ADSL over POTS router that can be used for small-office or home-user and allows a small LAN to access the Internet through ADSL connection over the existing copper line.
 - Support Multi-Mode standard (ANSI T1.413, Issue 2; G.dmt(G.992.1); G.lite(G992.2)).
 - One auto-sensing 10/100M Ethernet interface
 - support Multi-protocol over AAL5 (RFC1483)
 - Support PPP over ATM AAL5 (RFC 2364)
 - Support PPP over Ethernet (RFC2516)
 - Support up to 8 PVCs
 - IP/IPX routing and bridging modes
 - NAT/SUA for single-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
2. For PPPoE, we must turn off the PPP VJ header compression. The command is as following:
"ppp ipcp compress off"
3. Alcatel modem code is 3.8.124

Modification:

Modification in 2.50(AJ.9)b3 (July 1, 2002)

1. Restore Modem Code 3.8.124

Modification in 2.50(AJ.9)b2 (June 28, 2002)

2. Upgrade Modem Code 3.9.19

Modification in 2.50(AJ.9)b1 (June 28, 2002)

1. Bridge routing table can't auto-update
2. Bridge routing table can't allocate correct size memory

3. PPPoE Ping 1473 fail from Internet
4. Upgrade Alcatel modem code to 3.8.164
5. Enter Smt11 submenu cause PPP/PPPoE dialout username = ?
6. The length of PPP login name should be the same with SMT4
7. TCP packet attack

Modification in 2.50(AJ.8)b1 (April 2, 2002)

- 1.Enhance cold/warm start mechanism
- 2.Enhance model checking mechanism
- 3.SNMP attck protection
- 4.Boot module is upgraded to 2.07 version

Modification in 2.50(AJ.7)b3 (January 15, 2002)

- 1.add a CI command “wan adsl defectcheck” for defect bitmap check that means LOS LOF, LOP LOM, default is ON
2. Supports MX flash
 1. PPP lcp echo retry time is 5
4. Add Ras code protection as trunk 3.40 codes, if product model (or Vender ID, H/W version) is not correct, system won't allow RAS code to be erased. Vender ID now is ZYXEL, H/W version is feature bits 4th byte, now is zero. This protection is on ATUR in debug mode and also FTP, TFTP

Modification in 2.50(AJ.7)b2 (January 2, 2002)

1. modify CI command “ppp lcp echotime <time(ms)>”, if the echotime is zero, system won't send lcp echo request to remote side

Modification in 2.50(AJ.6)b2 (August 29, 2001)

- 1.Bi-directional solution is turn on in “autoexec.net” by “sys bidirection on”
- 2.Quick Bridge is turn on in “autoexec.net” by “sys quick enable”

Modification in 2.50(AJ.6)b1 (August 20, 2001)

- 1.Alcatel modem F/W is AL 3.8.124
- 2.Prevent system hang-up when power-up. System will enable watch dog timer before system initialize H/W, watch dog timer will be disabled as soon as the initialization is finished
- 3.Some real player servers only support client port from 6970, modify SUA_MIN_PORT_RTP = 6970, the max port is still 7000

Modification in 2.50(AJ.5) (August 13, 2001)

- 1.When F/W upload is failed, system will reboot after 10 second

Modification in 2.50(AJ.5)b1 (August 1, 2001)

1. Alcatel modem F/W is upgraded to AL 3.8.124

Modification in 2.50(AJ.4)b4 (July 30, 2001)

1. Alcatel F/W is AL 3.7.119 (old)

Modification in 2.50(AJ.4)b3 (June 20, 2001)

1. Remove Routing Metric enhancement. Because the Routing table displays two default routes when encapsulation = "Enet Encap", and switching the IP address assignment from "dynamic" to "static".

Modification in 2.50(AJ.4)b2 (June 5, 2001)

1. Extend the length of PPP login name to become 45

Modification in 2.50(AJ.4)b1 (May 29, 2001)

1. System watch dog timer is turn on in defaults ROM setting "autoexec.net"

Modification in 2.50(AJ.3)b19 (May 22, 2001)

1. Alcatel modem code is updated to 3.7.119 (Tx2Tx16) version

Modification in 2.50(AJ.3)b18 (May 3, 2001)

1. Alcatel modem code is updated to 3.7.119 version
2. In default ROM file settings, System will block incoming FTP, TFTP, TELNET, and WEB traffic.

Modification in 2.50(AJ.3)b17 (April 19, 2001)

1. Add a command "sys bidirection on/off" to turn on/off bi-direction solution, system will turn off bi-directional solution as default value
2. Support Intel C3 Flash

Modification in 2.50(AJ.3)b16 (February 1, 2001)

1. Fix the bi-directional problem that is to disable the Ethernet ISR and recover it in Ethernet periodic timer
2. Add a command "sys quick enable" into "autoexec.net", that is to enable Quick Bridge as default value.

Modification in 2.50(AJ.3)b15 (February 1, 2001)

1. Add command to turn off Quick Bridge "sys quickbrg disable", and "sys quickbrg enable" to turn on the quick bridge feature. Default is off. Please put this command in "autoexec.net" whenever you want to apply it.

Modification in 2.50(AJ.3)b14 (January 1, 2001)

1. Routing Metric Enhancement: system allows same destination entry with different gateway existing in routing table
2. Add CI command "ip route new" for add new routing entries even if the destination is the same

Modification in 2.50(AJ.3)b13 (December 22, 2000)

1. Supports Call Scheduling

- 2.SPTGEN
- 3.IPSEC
- 4.MSN
- 5.Packet Parsing Enhancement

Modification in 2.50(AJ.3)b11 (December 11, 2000)

1. Modify the autoexec.net to turn off the following logs, if you need to trace packets or trace log through console please turn on them :
 - sys trcl sw off
 - sys trcp sw off
- 2.Supports Quick Bridge
- 3.Change the FTP_BUFFER_SIZE to become 120000
4. Bridge from Lan to Wan should check multiple remote node interfaces
5. Restrict the hwsar receiving queue length to be less then 30

Bug fixes:

Bug fixed in 2.50(AJ.8)C0 (May 15, 2002)

1. System may cause hang-up if SNMP query to an non-existed interface

Bug fixed in 2.50(AJ.8)b2 (April 8, 2002)

- 1.In PPPoE mode, Ping 1473 will fail from Internet to P643 WAN IP address

Bug fixed in 2.50(AJ.7)b3 (January 15, 2002)

- 1.ChangePPP would produce many wanIface
- 2.Routing entry about enet encap dynamic would not b e dropped
2. PC wouldn't get IP address from router when DHCP server is configured by SPTGEN
3. Ethernet filter wouldn't work fine if we configured by SPTGEN
4. PPPoE dial ->drop-> dial again, router will get reboot in "inetsua.c"
5. When DHCP server is disable, the pool size is cleared to zero, and re-configured again the pool size is 6, but it should use the previous size

Bug fixed in 2.50(AJ.7)b1 (September 28, 2001)

- 1.Smt3.2.1 the subnet mask for IP alias display error
- 2.System is configured to Enet Encap/Dynamic IP, when ADSL line down and up again, system will get WAN IP again
- 3.System is configured to Enet Encap/Dynamic IP, system will send LAN packet to Wan side which the source IP is zero.

Bug fixed in 2.50(AJ.6)b2 (August 29, 2001)

- 1.In SPTGEN feature, SMT 4 items doesn't work

Bug fixed in 2.50(AJ.4)b2 (June 5, 2001)

1. Console will display “check point 1”, the debug info is not removed

Bug fixed in 2.50(AJ.4)b1 (May 29, 2001)

1. TCP will auto-disconnect the link after receiving an ICMP Source-Quench frame when SUA is ON.
2. Using FTP to upload f/w will get checksum error, when system watch dog timer is turn on.

Bug fixed in 2.50(AJ.3)b19 (May 22, 2001)

1. System will hang up if SNMP-v2 packets are received

Bug fixed in 2.50(AJ.3)b15 (December 22, 2000)

1. Fix the Ping failed problem when Quick Bridge is enabled, FCS length should be 4

Bug fixed in 2.50(AJ.3)b13 (December 22, 2000)

1. Ping Fail: The long size PING test fail with 3Com NIC in RFC 1483 LLC Bridge mode.
2. System will be locked in bi-directional transmitting by using AX4000 to test. The packet size is 500 bytes
3. PPP mode gets reset, when system is configured in PPP mode, SUA is off.

Known Bugs:

1. Manufactory Data in Bootbase

```
ZyNOS Version      : V2.50(AJ.9) | 07/09/2002 14:08:31
Bootbase Version   : V2.07 | 3/15/2002 14:29:16
Vendor Name        : ZyXEL Communications Corp.
Product Model      : Prestige 642R
ZyNOS ROM address   : 06008000
System Type        : 5
MAC Address        : 00A0C5xxxxxx
Default Country Code : xx
Boot Module Debug Flag : xx
RomFile Version     : xx
RomFile Checksum    : 6b47
ZyNOS Checksum      : ele8
SNMP MIB level & OID : 060102030405060708091011121314151617181920
Main Feature Bits   : 86
Other Feature Bits  :
                    1F 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

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

Route IP= Yes
Route IPX= No
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-1
  Multicast= None
  IP Policies=
  Edit IP Alias= No

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

- **Menu 3.3 - Novell IPX Ethernet Setup**

```
Menu 3.3 - Novell IPX Ethernet Setup

Seed Router= No

Frame Type 802.2= Yes
  IPX Network #= N/A

Frame Type 802.3= No
  IPX Network #= N/A

Frame Type Ethernet II= No
  IPX Network #= N/A

Frame Type SNAP= No
  IPX Network #= N/A

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

- **Menu 3.4 - Bridge Ethernet Setup**

```
Menu 3.4 - Bridge Ethernet Setup

Handle IPX= None

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 #= 0
VCI #= 35
Service Name= N/A
My Login= N/A
My Password= N/A
Single User Account= Yes
IP Address Assignment= Dynamic
  IP Address= N/A
ENET ENCAP Gateway= 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 PPP Options= N/A
Multiplexing= LLC-based      Rem IP Addr= 0.0.0.0
Incoming:                    Edit IP/IPX/Bridge= No
  Rem Login= N/A
  Rem Password= N/A
Outgoing:                     Session Options:
  My Login= N/A              Edit Filter Sets= No
  My Password= N/A          PPPoE Idle Timeout(sec)= N/A
  Authen= N/A               PPPoE Service Name= N/A
                           Schedule Sets= 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

VPI/VCI (LLC-mux or PPP/PPPoE Encap):IPX Options:
  VPI #= 0                    Rem LAN Net #= N/A
  VCI #= 35                   My WAN Net #= N/A
IP Options:                   Hop Count= N/A
  Rem IP Addr= 0.0.0.0        Tick Count= N/A
  Rem Subnet Mask= 0.0.0.0    W/D Spoofing(min)= N/A
  IP Address Assignment = Dynamic  SAP/RIP Timeout(min)= N/A
  My WAN Addr= N/A           Dial-On-Query= N/A
  Single User Account= Yes
  Metric= 2
  Private= No
  RIP Direction= None        Bridge Options:
    Version= RIP-1           Dial-On-Broadcast= N/A
  Multicast= None            Ethernet Addr Timeout(min)= N/A
  IP Policies=

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= 6
  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 12.2 IP Static Route Setup

```
Menu 12.2 - IPX Static Route Setup

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

Enter selection number:
```

- Menu 12.2.1 Edit IPX Static Route

```

Menu 12.2.1 - Edit IPX Static Route

Route #= 1
Server Name= ?
Active= Yes
Network #= ?
Node #= 0000000000001
Socket #= 0451
Type #= 0004
Hop Count= 2
Tick Count= 3
Gateway Node= 1

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 - SUA Server Setup

```

Menu 15 - SUA Server Setup

Port #      IP Address
-----
1.Default   0.0.0.0
2. 0        0.0.0.0
3. 0        0.0.0.0
4. 0        0.0.0.0
5. 0        0.0.0.0
6. 0        0.0.0.0
7. 0        0.0.0.0
8. 0        0.0.0.0

Press ENTER to Confirm or ESC to Cancel:

```

- Menu 21 Filter Set Configuration

Menu 21 - Filter Set Configuration			
Filter Set #	Comments	Filter Set #	Comments
1	NetBIOS_WAN	7	_____
2	NetBIOS_LAN	8	_____
3	TELNET_WAN	9	_____
4	PPPoE	10	_____
5	FTP_WAN	11	_____
6	FTP_TELNET_WEB	12	_____

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 21.6 Filter Rules Summary (for FTP_TELNET_WEB)

```

Menu 21.6 - Filter Rules Summary

# A Type                Filter Rules                M m n
- - - - -
1 Y IP    P0.0.0.0,      DA=0.0.0.0, DP=21          N D N
2 Y IP    Pr=6, SA=0.0.0.0, DA=0.0.0.0, DP=23      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

```

- Menu 21.6.1 TCP/IP Filter Rule (for FTP_TELNET_WEB)

```

Menu 21.6.1 - TCP/IP Filter Rule

Filter #: 6,1
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 21.6.2 TCP/IP Filter Rule (for FTP TELNET WEB)

```

Menu 21.6.2 - TCP/IP Filter Rule

Filter #: 6,2
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 #= 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 21.6.3 TCP/IP Filter Rule (for FTP TELNET WEB)

```

Menu 21.6.3 - TCP/IP Filter Rule

Filter #: 6,3
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 21.6.4 TCP/IP Filter Rule (for FTP TELNET WEB)

```

Menu 21.6.4 - TCP/IP Filter Rule

Filter #: 6,4
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 21.6.5 TCP/IP Filter Rule (for FTP TELNET WEB)**

```
Menu 21.6.5 - TCP/IP Filter Rule

Filter #: 6,5
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 21.6.6 TCP/IP Filter Rule (for FTP TELNET WEB)**

```
Menu 21.6.6 - TCP/IP Filter Rule

Filter #: 6,6
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 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 IP Address= N/A

Current Time:                00 : 00 : 00
New Time (hh:mm:ss):        00 : 00 : 00

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

Time Zone= GMT

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 bidirection on
sys quick enable
wan adsl rate off
```

