ZyXEL ES-3148 V3.70(TZ.0)C0

Release Note/Manual Supplement

Date: Aug 02, 2006

This document describes the features in the ES-3148 product for its 3.70(TZ.0)C0 release.

Support Platforms:

ZyXEL ES-3148 V3.70(TZ.0)C0 supports models: ZyXEL ES-3148

Version:

ZyNOS Version: V3.70(TZ.0) | 8/2/2006 18:10:7
BootBase Version: V0.6 | 07/05/2005 18:25:49

Default Bootbase Setting:

ZyNOS Version	V3.70(TZ.0)	8/2/2006 18:10:7
Bootbase Version	V0.6	07/05/2005 18:25:49
Vendor Name	ZyXEL Communications Corp.
Product Model	ES-3148
ZyNOS Code Model	ES-3000
HTP Code Model	Unknown
ZyNOS ROM address	50080000
System Type	10
MAC Address	001349000001
Default Country Code	FF
Boot Module Debug Flag	01
RomFile Version	81
RomFile Checksum	bc73
ZyNOS Checksum	da9f
SNMP MIB level & OID	0601020304050607080910111213141516171819 20
Main Feature Bits	C0
Other Feature Bits	
DC 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00-00 41 13 00 00 00	

Bug Fix:

1. Fix bug that configure file can't be stored, when contact person's name of the file include blank space or have done the NTP server setting.
2. Improve the problem that throughput from 1000M port to 100 M port is poor

Features:

1. MAC address learning
2. Support IEEE 802.1D transparent bridge

3. Support IEEE 802.1Q tagged VLAN
4. Support Port-based VLAN
5. Support IEEE 802.1X
6. Support IEEE 802.1W
7. Support IEEE 802.3AD
8. Support GVRP
9. IGMP snooping
10. Support IEEE 802.1p
11. Automatic age out
12. Specific MAC addresses forwarding per port
13. MAC Filtering
14. Port Trunking
15. Port Mirroring
16. Bandwidth Control
17. Broadcast Storm Control
18. Support Strict Priority and WRR queuing method
19. Static IP management or dynamic IP(DHCP client)
20. Multiple IP address management
21. Firmware upgrade and configuration backup/restore.
22. Remote manageable.
23. Cluster Management
24. WEB manageable
25. Support RFC-1213 MIB II
26. Support RFC-1493 Bridge MIB
27. Support RFC-1643 Ethernet MIB
28. Support RFC-1757 Four group of RMON
29. Support RFC-2674 VLAN MIB
30. NEW CLI supported
31. System configuration backup / restore in text-mode
32. Multiple login supported
33. Radius management authentication
34. SSH/SSL support
35. DiffServ feature (DSCP – 802.1p priority mapping)

Enhanced Features:

1. Multicast
2. MVR
3. IGMP Filtering
4. Syslog
5. Administration user management
6. RADIUS enhancement(for 802.1X enhancenment and multiple radius servers)
7. IGMP enhancement
8. Web enhancement (Select all, Clone)
9. Reserve multicast group support
10. Multiple RSTP
11. Protocol based VLAN support
12. Support high speed fan module. (Up to 7000 RPM).

Known Issues:

1. Management port test fail in 100M long cable.
2. Management port has compatible issue with Cnet Pro 2000 network interface card.
3. The packets which destination address is marked in the filter setting will always send to port 1.
4. Symbol and dribble error packets will count into FCS error counter.
5. Filtering: In some special cases, setting one MAC with discard-source will cause device filter all packets with this MAC, ether source MAC or destination MAC.

6. Do not suggest cooperate LACP with RSTP more than ten ports.
7. Do not support tagged frame forwarding in the Port-Based VLAN.
8. If the contact between RJ45 and wire cable or the wire cable is unstable, the cable diagnostics maybe fail.
9. The system-wide rule entries are shared with CIR rate control and policy rules. So you may fail to load max policy rules while enabling CIR rate control on all ports.
10. Ports configured to run RSTP will not synchronize with peers if the port is in BLOCK mode.
11. Packets' MAC with tagged vlan id which is not configured in device will be learned.
12. Port configured in fixed-speed mode (AN is disable) for change may not link up. It could be linked up with operation SOP (link down then link up manually)

Limitation of Settings:

1. VLAN 1Q static entry 256
2. Static MAC forwarding entry 256
3. MAC filtering entry 256
4. Cluster member 24
5. Management IP address 64
6. Protocol based VLAN entries per port 7

Change History:

V3.70(TZ.0)C0 (08/02/2006)
        ZyNOS 3.70 feature enhancement and bug-fix

Firmware Upgrade:

The ES-3148 uses FTP to upgrade firmware in run-time through its built-in FTP server. You can use any FTP client (for example, ftp.exe in Windows) to upgrade ES-3148. The upgrade procedure is as follows:

Upgrade ES-3148 FW:

```
C:\> ftp <ES-3148 IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 370TZ0C0.bin ras
ftp> bye


Where
  • User name : the management user name, admin by default
  • Password : the management password, 1234 by default
  • 370TZ0C0.bin : the name of firmware file you want to upgrade
  • ras : the internal firmware name in ES-3148
```

Configuration Upgrade:

The ES-3148 uses FTP to upgrade configuration in run-time through its built-in FTP server. You can use any FTP client (for example, ftp.exe in Windows) to upgrade ES-3148. The upgrade procedure is as follows:

Upgrade ES-3148 configuration:

```
C:\> ftp <ES-3148 IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 370TZ0C0.rom rom-0
ftp> bye


Where
  • User name : the management user name, admin by default
  • Password : the management password, 1234 by default
  • 370TZ0C0.rom : the name of configuration file you want to
      upgrade
  • rom-0 : the internal configuration name in ES-3148
```