

ZyXEL VES-1012 firmware V3.40(DB.1)C0

Release Note /Manual Supplement

Date: September 13, 2002

Version:

F/W Version: V3.40(DB.1)C0 | 09/13/2002

Supported Platforms:

V3.40(DB.1)C0 supports models: VES-1012.

CAUTION:

Because of the setting file format of this version is not fully compatible with V3.3x (It is compatible with 3.40(DB.0)). If user want to upgrade from 3.3x to this version, we suggest to restore the default setting files (330db1b0.rom) within this firmware package for your VES-1012, and reconfigure your VES-1012 after you upgrade your firmware. And, in this case, please use console only to upgrade firmware and default settings. DO NOT use FTP or TFTP. Otherwise, after you upgrade firmware, you will loose remote control of VES-1012, and have to use console to upload default settings to recover remote control.

Change History:

V3.40(DB.1)C0 (2002/09/13):

First public version.

ZyXEL VES-1012 firmware V3.40(DB.1)b4

Release Note /Manual Supplement

Date: September 11, 2002

Version:

F/W Version: V3.40(DB.1)b4 | 09/11/2002

Supported Platforms:

V3.40(DB.1)b4 supports models: VES-1012.

CAUTION:

Because of the setting file format of this version is not fully compatible with V3.3x (It is compatible with 3.40(DB.0)). If user want to upgrade from 3.3x to this version, we suggest to restore the default setting files (330db1b0.rom) within this firmware package for your VES-1012, and reconfigure your VES-1012 after you upgrade your firmware. And, in this case, please use console only to upgrade firmware and default settings. DO NOT use FTP or TFTP. Otherwise, after you upgrade firmware, you will loose remote control of VES-1012, and have to use console to upload default settings to recover remote control.

New Features:

Support Auto-MDI function of both Modem and Ethernet ports of VES1012 if products possess this feature.

Change In this version:

V3.40(DB.1)b4 (2002/09/11)

Modified:

1. Modified that if VLAN type is in the 802.1Q mode, CI command "sw vlan" can not been used.
2. Check the version of remote modem, if it is not equal to the one of switch, forced it to be upgrade, in spite of upgrade of downgrade. In additional, item "VDSL Modem Firmware Auto Upgrade" of Menu2 is removed,
3. Change the current VDSL driver version to be 0.71, 09/10/2002. The max change in this version is that we use 100M Full Duplex with Flow Control On instead of 100M Half Duplex with Flow Control On between the MII of VDSL chip and switch chip. The reason of change is to get more reliability. But this will loss some performance of Upstream if Upstream speed is greater than Downstream speed.
4. Add a workaround to avoid Buffer overrun happened in LT side. For Patch56, the flow control is still not work well. If large traffic is send both to the CPE and COE, flow control work not well, and more packet will accurate in the buffer of VDSL chip. Sometimes this will cause VDSL chip hanged. For Patch56, if CPE is hanged caused by buffer overrun, it will software reset the CPE. But if this happened in the LT side of COE, auto reset is not executed. We add this workaround method to do reset LT. This method is offered by engineers of Infineon.

Bug Fixed:

1. Fix the bug that Menu24.1.3 can not work in 802.1q VLAN mode,.
2. Fixed the bug that Secured Client Setup of WEB can not work when rom file is restored.
3. Fixed the bug that Local/remote loopback test can (always keep) light on VDSL LED when VDSL port setup is "active = no" and P841 is connected.
4. Fixed the bug that corresponding port will fail if VDSL line is unplugged when remote loopback is not finished.

5. Fixed the bug that if setup VLAN ID over 4 digits (1000~4094), the web page got incorrect display.
6. Fix the bug when trunking is enabled, trunking port will be deleted from egress port list of static VID.
7. Fix the bug that it can setup the repeated VID in the VLAN setup by WEB.
8. Fix the bug that snmpOutTraps counter of SNMP group of MIB 2 is always 0.
9. Fix the bug that snmpEnableAuthenTraps of SNMP group of MIB 2 is not work well.

ZyXEL VES-1012 firmware V3.40(DB.1)b3

Release Note /Manual Supplement

Date: August 12, 2002

Version:

F/W Version: V3.40(DB.1)b3 | 08/12/2002

Supported Platforms:

V3.40(DB.1)b3 supports models: VES-1012.

CAUTION:

Because of the setting file format of this version is not fully compatible with V3.3x (It is compatible with 3.40(DB.0)). If user want to upgrade from 3.3x to this version, we suggest to restore the default setting files (330db1b0.rom) within this firmware package for your VES-1012, and reconfigure your VES-1012 after you upgrade your firmware. And, in this case, please use console only to upgrade firmware and default settings. DO NOT use FTP or TFTP. Otherwise, after you upgrade firmware, you will loose remote control of VES-1012, and have to use console to upload default settings to recover remote control.

New Features:

Change In this version:

V3.40(DB.1)b3 (2002/08/09)

Modified:

1. Improve VDSL Rate adaptation II+.
2. Modified that if VLAN type is in the 802.1Q mode, the default value of VLAN ID is changed to 1 in the VLAN setup page of VLAN of WEB. VLAN ID 0 is reserved.
3. Same as the previous, when the VLAN is setup in each VLAN ID, if the content of textbox of VLAN ID is 0, the error message window is showed "The VLAN ID value must position between 0 to 4095". It should be "The VLAN ID value must position between 1 to 4094".
4. In web's help, still find ZyXEL or VES-1024 in the Supported MIBs, STP Statistics, and Hardware Statistics. This version for no log should not find them
5. In port-based VLAN, hide menu 24.1.3.
6. When Trunk is enabled, uplink port must be set to be the same. That is, if trunking, the setting of port 14 is hidden in Menu 6. The setting of port 13 will be applied to port 14 also.

Bug Fixed:

10. Fix the bug that there is no function in Secured Client of Maintenance of WEB.
11. Same as previous, but in VLAN status.
12. Fix the problem that system crashes when rate adaptation on and doing local loopback test.
13. Fix the problem that GVRP can learn the VLAN with VID=0.
14. Fix the problem that clicking switch setup in web, get the message on console, "get switch stp error web", and "get switch error by web garp".
15. If a PC ping one Ethernet port, then plug in another one to ping, get time out. In "ip arp status" command, time, iface, and channel seem frozen not to update.

16. Fix the bug that In web configuration, if a user setups join timer is more than 40000, the user cannot continue to configure leave timer, and then others, unless exit the configuration.
17. Fix the bug that learned GVRP VLANs cannot leave after continuing to transmit GVRP VLANs to learn in 1M bps rate.

ZyXEL VES-1012 firmware V3.40(DB.1)b2

Release Note /Manual Supplement

Date: July 22, 2002

Version:

F/W Version: V3.40(DB.1)b2 | 7/22/2002

Supported Platforms:

V3.40(DB.1)b2 supports models: VES-1012.

CAUTION:

Because of the setting file format of this version is not fully compatible with V3.3x (It is compatible with 3.40(DB.0)). If user want to upgrade from 3.3x to this version, we suggest to restore the default setting files (330db1b0.rom) within this firmware package for your VES-1012, and reconfigure your VES-1012 after you upgrade your firmware. And, in this case, please use console only to upgrade firmware and default settings. DO NOT use FTP or TFTP. Otherwise, after you upgrade firmware, you will loose remote control of VES-1012, and have to use console to upload default settings to recover remote control.

New Features:

VDSL Rate Adaptation Algorithm Improvement

In previous version, if the line quality can not make 6.25M/6.25M VDSL connected, the rate adaptation algorithm will directly assign 1.5M/4.17M as the result. In this version, when 6.25M/6.25M VDSL link fail, we will try 1.5M/6.25M first. If it can be connected, we can use the SNR of DS to decide the right DS rate (US is fixed to 1.5M). Only when 1.5M/6.25M can not be connected, it will assign 1.5M/4.17M as the result.

Change In this version:

V3.40(DB.1)b2 (2002/7/22)

1. Improve VDSL Rate adaptation.
2. Fix bug: If VDSL disconnect during the time that driver is writing the VDSL parameters to NT, in previous firmware, it may take several minutes to complete writing. In this version, we will check the link status when writing the VDSL parameters to NT. So, the driver will react this fast.
3. Fix bug: Enhance the disconnect detection. It will make VDSL disconnect detection act better.

ZyXEL VES-1012 firmware V3.40(DB.1)b1

Release Note /Manual Supplement

Date: July 12, 2002

Version:

F/W Version: V3.40(DB.1)b1 | 7/12/2002

Supported Platforms:

V3.40(DB.1)b1 supports models: VES-1012.

CAUTION:

Because of the setting file format of this version is not fully compatible with V3.3x (It is compatible with 3.40(DB.0)). If user want to upgrade from 3.3x to this version, we suggest to restore the default setting files (330db1b0.rom) within this firmware package for your VES-1012, and reconfigure your VES-1012 after you upgrade your firmware. And, in this case, please use console only to upgrade firmware and default settings. DO NOT use FTP or TFTP. Otherwise, after you upgrade firmware, you will loose remote control of VES-1012, and have to use console to upload default settings to recover remote control.

New Features:

Support New VDSL Modem (Altima AC101L Ethernet PHY)

We are building an new VDSL modem equipped with an Altima AC101L Ethernet PHY Chip. In order to support this chip. VDSL driver should be modified to support this chip.

Change In this version:

V3.40(DB.1)b1 (2002/7/12)

1. New Feature: Add Altima AC101L support in VDSL Driver.
2. WEB: Remove the "ZyNOS", "ZyXEL", "Prestige", "VES-1012" wordings from web pages and help pages to make it to be vendor independent.
3. WEB: If the vendor name within bootbase is not "ZyXEL", than ZyXEL logo will not be displayed in WEB pages.
4. Change the wording in SMT6-1 and VDSL WEB pages from "rate adaption" to "rate adaptation" .

ZyXEL ZyNOS V3.40(DB.1)b0 for VES-1012

Release Note /Manual Supplement

Date: July 4, 2002

Version:

F/W Version: V3.40(DB.1)b0 | 7/4/2002

Supported Platforms:

V3.40(DB.1)b0 supports models: VES-1012.

CAUTION:

Because of the setting file format of this version is not fully compatible with V3.3x (It is compatible with 3.40(DB.0)cx). If user want to upgrade from 3.3x to this version, we suggest to restore the default setting files (330db1b0.rom) within this firmware package for your VES-1012, and reconfigure your VES-1012 after you upgrade your firmware. And, in this case, please use console only to upgrade firmware and default settings. DO NOT use FTP or TFTP. Otherwise, after you upgrade firmware, you will loose remote control of VES-1012, and have to use console to upload default settings to recover remote control.

New Features:

VDSL Rate Adaptation

In previous versions, the data rate settings for VDSL are fixed. That is, VES-1012 only follows the settings from end user. If the line condition is not good enough to support the rate setting, than VDSL can not link. It will try to connect the rates that user specified again and again.

From this version, we implement a VDSL rate adaptation features, that can automatically probing the SNR of the line, and decide appropriate rates for upstream and downstream with enough noise margin (6dB) within 1 minutes in most cases.

From this version, the rate settings in VDSL setup means "Maximum rate" when rate adaptation is active. That is, when user specify upstream 12500K and downstream 12500K (US 12500, DS 12500), and enable rate adaptation, if the line condition can support (US 6250K, DS 6250) only, then it will link (US 6250K, DS 6250K). If the line condition can support (US 18750K, DS 16667K), then it will link (US 12500K, DS 12500K) since user already specify the maximum rates.

Change History:

V3.40(DB.1)b0 (2002/7/4)

1. New Feature: Add VDSL Rate adaptation feature.
2. Fix bug: VDSL Driver and VDSL Modem Firmware: Change VDSL Modem code from version 0x50 to 0x56, that will fix a bug that VDSL modem will stop working (VDSL is active, but packet can not pass) after a period of usage.
3. Fix bug: SMT Menu: When user change VDSL parameters in menu 6.1, these parameters sometimes can not be applied to VES-1012 instantly.
4. Improve VDSL Modem's Ethernet Auto Negotiation: Now it can support 100/Full.
5. Fix bug: VDSL Modem's Ethernet Full Duplex Flow Control: In pervious version, it does not work normally. Now it works fine.
5. Fix bug: TCP/IP protocol stack: When there is an invalid TCP packet attack VES-1012, the TCP/IP protocol stack may hang and no TCP connections can be made after attack.

V3.40(DB.0)C1 (2002/5/15):

1. Fix bug of VDSL remote loopback test fail when broadcast packets incoming from other ports.
2. Add timeout to prevent system hanging in VDSL remote loopback test.

V3.40(DB.0)C0 (2002/5/8):

1. Add Spanning Tree Protocol
2. Add IEEE802.1Q – Tag-based VLAN Support
3. Add IEEE802.1P/1Q – Priority Queuing Support
4. Add IGMP snooping
5. Add Embedded Web Configurator

V3.30(DB.0)C3 (2002/5/7):

1. Fix a bug in production test program, switch firmware is identical to 3.30(DB.0)C2

V3.30(DB.0)C2 (2002/4/17):

1. Change temperature threshold for sensor 3 to 75 degree C because this sensor positions is changed.

V3.30(DB.0)C1 (2002/4/1)

1. Change the 2V voltage sensor threshold (for alarm) from 5% to 10%.

V3.30(DB.0)C0 (2002/1/22)

1. First Public Version