ZyXEL

P-2812HNU-F3
Generic

Firmware Release Note

V1.00(AAHF.3)C0

Date: Apr. 02, 2014

Author: Kevin Ou

Reviewer:

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Revision History

Date	Release	Author	Description
2014/04/02	1.8	Kevin Ou	Release V1.00(AAHF.3)C0
2014/03/12	1.7	Kevin Ou	Release V1.00(AAHF.3)b3
2013/10/28	1.6	Tresia Wu	Release V1.00(AAHF.3)b1
2013/10/15	1.5	Tresia Wu	Release V1.00(AAHF.2)C0
2013/10/06	1.4	Tresia Wu	Release V1.00(AAHF.2)b1
2013/08/26	1.3	Tresia Wu	Release V1.00(AAHF.1)C0
2013/08/09	1.2	Tresia Wu	Release V1.00(AAHF.1)b2
2012/11/09	1.1	Tresia Wu	Release V1.00(AAHF.1)b1
2012/10/26	1.0	Tresia Wu	File create and release V1.00(AAHF.0)b1

ZyXEL P-2812HNU-F3 Generic V1.00(AAHF.3)C0 Release Note

Date: Apr. 02, 2014

Supported Platforms:

ZyXEL P-2812HNUL-F3 / P-2812HNU-F3

Versions:

Bootbase version: ZyU-F02-300-20AA003-V3.02|01/24|2014(AAHF)

Firmware version: V1.00(AAHF.3)C0

DSL code version: AnnexB_551716_553312

WLAN code version: RT3062_LinuxAP_V2.5.0.2

Voice code version: 3.13.0 IFX TAPI

Notes:

1. This firmware is base on P-2812HNU-F1 Generic, only change the modem code.
2. User need to accept cookies in their web browsers to use the device GUI correctly.
3. MAC address MUST start from xx:xx:xx:xx:xx:x0 or xx:xx:xx:xx:xx:x8 otherwise WLAN will not work.
4. The bootloader in this version supports Lantiq CPU VR9 v1.2.
5. Upgrade bootload version from 3.01 to 3.02 in v1.00(AAHF.3)b2 version.

Features list:

✓ Dual WAN (xDSL/Ethernet) Mode to ease ISP deployment (switch by configuration)

✓ Built-in Firewall to keep users from common Internet attacks

✓ Wireless LAN 802.11b/g/Draft-N standards supported

✓ USB Peripherals for File Sharing, Printer and 3G WAN backup

✓ Built-in Phone Sockets for Voice over IP Service

✓ QoS embedded to help prioritize important services

✓ TR Protocol Family supported for industry-level device management

✓ Support IPv6 Dual Stack.

- ✓ Support login privilege.
- ✓ Support ROM-D feature.
- ✓ DSL (ADSL/VDSL) Auto fallback without reboot.
- ✓ Auto WAN feature.
- ✓ WOL (Wake on LAN) feature.
- ✓ Guest WLAN feature.
- ✓ LAN side can supports multiple VLANs in bridge mode.
- ✓ LED control feature.

Modifications in V1.00(AAHF.3)C0

Change to FCS version.

Modifications in V1.00(AAHF.3)b3

NOTE: this version is base on 100AACC3C0 to release 100AAHF3b3

[FEATURE ENHANCED]

1. Upgrade DSL modem code to 551716_553312
2. Upgrade bootload to V3.02

[Bug Fixed]

1. Set all LAN ports to become bridge via auto-provision. 3 LAN ports are in DATA interface group and 1 LAN port is in IPTV interface group. If we don't watch IPTV, the DATA client can access internet. But if we start to play IPTV, the DATA client can't access internet anymore.
2. [SPR- 140122158] When VLAN auto hunting is enabled and the daemon hunting failed, all the settings in broadband page can't work successfully unless we reboot the device.

[Configuration Modification]

1. Modify some generic default settings.
   - i.   Remove time server address.
   - ii.   Disable daylights saving in default.
   - iii. Open all LAN side remote management.
   - iv.   Enable WAN DHCP log and disable all VoIP logs in default.
   - v.   Disable UPnP in default.
   - vi.   Change VoIP country code from USA to NORWAY.
   - vii. LAN DNS value set to "DNS proxy" in default.
   - viii. Set SNMP trap destination to 0.0.0.0

    ix.   Change host name from "router" to "P-2812HNU-Fx"

    x.   Change LAN IP pool starting address from 192.168.1.33 to 192.168.1.2 and pool size change to 253.

2. Enable TR-069 in default. Whenever firmware upgrade, TR-069 will be enabled.

Modifications in V1.00(AAHF.3)b2

N/A

Modifications in V1.00(AAHF.3)b1

[FEATURE ENHANCED]
1. GUI remoteMGMT adding information of Trust domain. Disabled in default.

Modifications in V1.00(AAHF.2)C0

Change to FCS version.

Modifications in V1.00(AAHF.2)b1

[Bug Fixed]
1. Wireless 11n & 11b Tx power too low.
2. When firewall is disabled, we shouldn't open port 7676/10000/10001/2000/2001/18888/49152 in default.
3. DSL interface is still present in the switch_utility when the CPE is in ETHER WAN-mode. This causes IGMP to be returned on WAN with the FA-MAC and causes both the MAC duplicate issue and IGMP traffic sent back to core from the CPE.

Modifications in V1.00(AAHF.1)C0

Change to FCS version.

Modifications in V1.00(AAHF.1)b2

NOTE: this version is base on 100AACC1b8 to release 100AAHF1b2
[Bug Fixed]
1. [ITS-130403713][ITS-130601610] When we boot up the device while the wireless is enabled, we'll see a no security mystery SSID appears.

2. ROM-D feature should support encrypt password(the rom file which backup from GUI) no matter what we use to change ROM-D (TR-069/multi-boot/FTP).

3. DUT will occur "call traces" when you configure QoS General traffic priority.

4. [SPR-130311828] The Up time had no unit on System Status.

5. [SPR-130311836] The first letter should be capitalized on wireless channel status page.

6. [SPR-121127116] VDSL can't access internet without vlan tag.

7. When SIP server sends the packet which the header have 100rel with 181, CPE should send "PRACK" back to the CPE.

8. The device should support DNS SRV when the outbound proxy is enabled.

9. Security hole when switch ADSL/VDSL. When link up on ADSL and device change to ADSL mode, device can be accessed by GUI from wan host.

10. Summertime change didn't happen.

11. If we got two SIP servers, one is on the WAN side of default gateway (the server for LAN clients to register) and another one is on the WAN side of VoIP interface (the server which CPE already registered). Then LAN clients can't register on the server.

12. Security issue on GUI (we can enter not characters on diagnostic page, system page and time setting page which may cause a security hole on Linux system).

13. When TR-069 is enabled, connect from WAN side via http://wan-ip:7676/UE/FormDisplay with browser and fill in more than 50 characters, the TR-069 task will down.

14. [SPR-120604187] When delete WAN interface, all rule will disappear in interface group page.

15. IPsec daemon prints too many logs on console even when IPsec VPN is disable.

[FEATURE ENHANCED]
1. LAN side can supports 8 VLANs in bridge mode.
2. Interface grouping should not group the inactive SSID.
3. Implement Guest WLAN feature.
4. Add the web GUI WLAN setting bandwidth: 20MHz or 20/40MHz.
5. LED control. Allow user can decide how the LEDs on the device should behave, ex. all off.

Modifications in V1.00(AAHF.1)b1

NOTE: this version is base on 100AACC1b1 to release 100AAHF1b1
[Bug Fixed]

1. When client pings the PC at same subnet with CPE, the WAN packets will bring gateway's MAC instead of CPE's MAC.
2. After user modify the WAN from IPoE to PPPoE, the SIP provider's bound interface is disable.
3. Modify spelling wrong on GUI.

[FEATURE ENHANCED]
1. Update code base from UGW 4.3 to UGW 5.2 (Linux kernel from 2.6.20.19 to 2.6.32.32).
2. When caller id payload type is DTMF, the display method change

```
"D1#": Anonymous calls
"D2#": International call
"D3#": Technically impossible
```

3. Auto sense WAN. The behavior will be like this:
   a. When reset to default:
      Device detects EtherWAN or DSL automatically, if both Ether and DSL cables plug, the first priority is Eth. If detects Ether, CPE will reboot and link up in Ether mode. If detect DSL, CPE will reboot and link up in DSL mode.
   b. When device configured one of Eth or DSL mode already,
      User needs to choose another mode on GUI first. The device will reboots and changes to what the user has chosen.
   c. ADSL/VDSL
      Device detects ADSL/VDSL without reboot (this feature only implement on CPU version VR9 v1.2)

Modifications in V1.00(AAHF.0)b1

[Bug Fixed]
1. After FW upgrade, IPTV and VoIP vlan will be set to 0
2. When country code is changed to Finland, ringing voltage should be 75Vrms.
3. After disabling "session timer (RFC 4028)", DUT still sent the first invite without related session timer header. After session timer expired, DUT also send invite or update again.
4. With ftp port change to 10021, ftp client can not the connection by passive mode.
5. GUI shows CPU version "unknown".
6. Remove the HTTP server information, for example, if you type http://192.168.1.1/xxdae, just redirect to the login page.
7. config file can be downloaded without password.

8. User can't use the port 8080 for http remoteMGMT.

9. End user can't use HP printer to print via WLAN.

[FEATURE ENHANCED]

4. When caller id payload type is DTMF, the display method change

```
"01": Anonymous calls
"02": International call
"03": Technically impossible
```

5. xDSL auto-fallback without reboot.

6. Support WOL (wake on LAN) feature.

Default Settings in Firmware

Refer to the XML format file "*.rom" in FW release package.

Public Domain Software Announcements

The following public domain software was used in this firmware release:

Open Source Used in P-2812HNU-F3 (3rd party software)	Version	From (Source)
MIPS Linux Kernel	2.6.32.32	http://www.linux-mips.org
bridge-utils	1.4	http://bridge.sourceforge.net
Busybox	1.10.4	http://www.busybox.net
Dnsmasq	2.49	http://www.thekelleys.org.uk/dnsmasq/
Dropbear	0.52	http://matt.ucc.asn.au/dropbear/dropbear.html
Ebtables	2.0.9-2	http://ebtables.sourceforge.net
Igmpproxy	0.1-beta2	http://openports.se/net/igmpproxy
iproute2	2.6.24	http://www.linuxgrill.com/anonymous/iproute2
Iptables	1.4.6	http://www.netfilter.org
libbase64	0.0.1	http://www.gnu.org/software/gnulib

Libedit	20080712-2.11	http://libedit.sourceforge.net
Libpcap	1.0.0	http://www.tcpdump.org/
Libupnp	1.4.2	http://dries.ulyssis.org/rpm/packages/libupnp/info.html
Linuxigd	1	http://linux-igd.sourceforge.net
Logrotate	3.7.1	http://logrotate.darwinports.com/
mini_httpd	1.19	http://www.acme.com/software/mini_httpd/
mtd-utils	1.0.0	http://www.linux-mtd.infradead.org/
Ncurses	5.7	http://www.gnu.org/software/ncurses/
Ntpclient	2007	http://doolittle.icarus.com/ntpclient/
Openssh	5.2p1	http://www.openssh.com
Openssl	0.9.7f	http://www.openssl.org/
p910nd	0.93	http://p910nd.sourceforge.net/
Ppp	2.4.4	http://samba.org/ppp/index.html
pure-ftpd	1.0.23	http://pureftpd.org
Samba	3.0.36	http://www.samba.org
syslog-ng	2.0.6	http://www.balabit.com/network-security/syslog-ng/
Sysstat	8.1.8	http://pagesperso-orange.fr/sebastien.godard/
Tcpdump	4.0.0	http://www.tcpdump.org/
Updated	2.6	http://www.philipp-benner.de/updatedd/
usbautomount	0.0.1	http://usbmount.alioth.debian.org/
wireless_tools	0.29	http://www.hpl.hp.com/
dhcpdetector	1.0b	http://sourceforge.net/projects/dhcpdetector/
wide-dhcpv6	20080615	http://sourceforge.net/projects/wide-dhcpv6/
ip6tables	1.4.6	http://www.netfilter.org
strongswan	4.2.8	http://www.strongswan.org/
radvd	1.7	http://www.litech.org/radvd/

Manufactory Data in V1.00(AAHF.3)C0

NOTE: Please use the command "sys romreset 0" to get manufactory data.

ZLD　　Version　　　　　: V1.00(AAHF.3)

Bootbase Version　　　　: V3.02|01/24|2014(AAHF)

Vender Name　　　　　　 : ZyXEL Communications Corp.

Product Model　　　　　 : P-2812HNU-F3

Serial Number　　　　　 : S110Y35000012

First MAC Address　　　 : 001349568768

Last MAC Address　　　　 : 00134956876F

MAC Address Quantity　　: 08

Default Country Code　　: FF

Boot Module Debug Flag : 01

RootFS　　Checksum　　: 0000e5dc

Kernel　　Checksum　　: 0000d937

RomFile　　Checksum　　: 00003158

Main Feature Bits　　　 : 00

Other Feature Bits　　　:

　　　　　06 00 00 06 19 01 00 ff-f8 00 01 00 01 00 00 00

　　　　　00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00