

ZyXEL Prestige 316 V3.26(CB.1) Release Note

Date: August 29, 2001

Supported Platforms:

ZyXEL Prestige 316 and Prestige 316E

Versions:

ZyNOS F/W Version : V3.26(CB.1) | 08/29/2001
BootBase: v2.04 for P316

Notes:

1. The default romfile is 326CBC0.rom
2. Firmware name 326CB1C0.bin
3. Boot module name CB204.bm

Note:

1. Added HTP(Hard Test Program) feature for RELTek 93C46 initialization.

ZyXEL Prestige 316 V3.26(CB.0) Release Note

Date: August 15, 2001

Supported Platforms:

ZyXEL Prestige 316 and Prestige 316E

Versions:

ZyNOS F/W Version : V3.26(CB.0) | 08/15/2001
BootBase: v2.04 for P316

Notes:

4. The default romfile is 326CB0.rom
5. Firmware name 326CB0.bin
6. Boot module name CB204.bm

7.

New Features:

1. Range of Port Forwarding.
2. Remote Server management control (SMT24-11).
3. Default NTP time server support
4. Support DHCP Relay.
5. Support Multi-NAT.
6. New DHCP table display on Web Configurator.
7. F/W upgrade feature on Web Configurator.
8. Flash ROM(Reset to default, Configuration restore and Configuration backup) features on Web Configurator.
9. Support Wireless LAN 64-bit and 128-bit WEP.
10. Wireless LAN MAC filtering

Bug Fixes:

2. Fixed the bug about the W-LAN WEP hang on problem.
3. Fixed the bug of roming between P316's WLAN and other LAN A.P.
4. Fixed the bug of DHCP IP conflict problem on WLAN.
5. Fixed the bug in which RIP packet can't send to WLAN.

ZyXEL Prestige 316 V3.21(CB.0) Release Note

Date: Oct. 06, 2000

Supported Platforms:

ZyXEL Prestige 316

Versions:

ZyNOS F/W Version : V3.21(CB.0) | 10/06/2000 17:00:00
BootBase: v1.05 for P316

Notes:

1. The default romfile is 321CB0.rom
2. Firmware name 321CB0.bin
3. Boot module name CB105.bm

ZyXEL Prestige 316 V3.21(CB.0)b3 Release Note

Date: Oct. 05, 2000

Supported Platforms:

ZyXEL Prestige 316

Versions:

ZyNOS F/W Version : V3.21(CB.0)b3 | 10/05/2000 12:50:55
BootBase: v1.05 for P316

Notes:

4. The default romfile is 321CB0B3.rom
5. Firmware name 321CB0B3.bin
6. Boot module name CB105.bm

Bug Fixes:

6. Solved the TFTP and FTP F/W upgrade hang on problem.

ZyXEL Prestige 316 V3.21(CB.0)b2 Release Note

Date: Sep 29, 2000

Supported Platforms:

ZyXEL Prestige 316

Versions:

ZyNOS F/W Version : V3.21(CB.0)b2 | 9/29/2000 12:50:55
BootBase: v1.05 for P316

Notes:

7. The default romfile is 321CB0B2.rom
8. Firmware name 321CB0B2.bin
9. Boot module name CB105.bm

Bug Fixes:

7. Recover the "question mark" on top right of web pages. If user click/mouse over this mark, screen will show "Please insert the Support CD to browse this help"

ZyXEL Prestige 316 V3.21(CB.0)b1 Release Note

Date: Sep 29, 2000

Supported Platforms:

ZyXEL Prestige 316

Versions:

ZyNOS F/W Version : V3.21(CB.0)b1 | 9/29/2000 8:47:29
BootBase: v1.05 for P316

Notes:

- 10. The default romfile is 321CB0B1.rom
- 11. Firmware name 321CB0B1.bin
- 12. Boot module name CB105.bm

New Features:

- 1. Romfile reset:
 - (1) During the system reset, push reset button (a small hole at the back panel) until the device finishes reset.(SYS led light on).
 - (2) ATBR: at debug mode, this at command can restore the default Romfile.
 - (3) sys romreset: CI command, this command will reset system after restore the default Romfile.

Bug Fixes:

- 8. "cann't" -> "can't"
- 9. It is able to enter menu 4, if the node is inactive in menu11.
- 10. Menu 21, if "Edit Comments" is empty, then this filter set will be deleted, not enter 21.x.0
- 11. Remove the "question mark" on top right of web pages.

Date: Sep 15, 2000

ZyXEL Prestige 316 V3.20(CB.0)b9 Release Note

Supported Platforms:

ZyXEL Prestige 316

Versions:

ZyNOS F/W Version : V3.20(CB.0)b9 | 9/15/2000 7:44:41
BootBase: v1.05 for P316

Notes:

- 13. The default romfile is 320CB0B9.rom

14. Firmware name 320CB0B9.bin
15. Boot module name CB105.bm

New Features:

1. WEP(Wired Equivalent Privacy) is available. Set the WEP keys in menu 3.5
2. Add two wlan regarded CI command:
Note: these settings will cause wireless connection disconnected temporarily.
(1) set wlan's ESS ID
`wlan essid ascii string`
(2) set wlan's channel id
`wlan chid n`

The range of channel id depends on the frequency domain:
1-11 (North America/FCC) country code =255 (0xFF)
1-14 (Japan) country code = 234 (0xEA)
10-11 (Spain) country code = 213 (0xD5)
10-13 (France) country code = 219(0xDB)
1-13 (Europe CE/ ETSI) country code = others
3. WEP configuration is also provided by Prestige Web Configurator (PWC).

Bug Fixes:

12. ip arp stat's information "num of arp entry" -> "num of arp entries"
13. Add HTTP to filter set 3 in default romfile.

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 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 F
4	N				
5	N				
6	N				

Date: Aug 29, 2000

ZyXEL Prestige 316 V3.20(CB.0)b8 Release Note

Supported Platforms:

ZyXEL Prestige 316

Versions:

ZyNOS F/W Version : V3.20(CB.0)b8 | 8/29/2000 7:49:37
BootBase: v1.05 for P316

Notes:

-
16. The default romfile is 320CB0B8.rom
 17. Firmware name 320CB0B8.bin
 18. Boot module name CB105.bm

Bug Fixes:

-
1. Connections between LAN and W-LAN fail caused by the problem of incorrect bridge table.
 2. Menu 24.1 the status of WLAN when Encapsulation is PPTP/PPPOE should be the current W-LAN Tx Rate.

Date: Aug 22, 2000

ZyXEL Prestige 316 V3.20(CB.0)b7 Release Note

Supported Platforms:

ZyXEL Prestige 316

Versions:

ZyNOS F/W Version : V3.20(CB.0)b7 | 8/21/2000

Notes:

-
19. The default romfile is 320CB0B7.rom
 20. Firmware name 320CB0B7.bin
 21. Boot module name CB105.bm

Bug Fixes:

-
1. menu3.5: modify the spelling error: "default"->"default"
 2. modify the error checking for frequency domain.
(depend on the country code)
Japan=234: 14 channels
USA=255: 11 channels
France=219: 4 channels
Spain=213: 2 channels
other: 13 channels

Date: Aug 18, 2000

ZyXEL Prestige 316 V3.20(CB.0)b6 Release Note

Supported Platforms:

ZyXEL Prestige 316

Versions:

ZyNOS F/W Version : V3.20(CB.0)b6 | 8/18/2000

Notes:

1. The default romfile is 320CB0B6.rom
2. Firmware name 320CB0B6.bin
3. Boot module name CB105.bm

Bug Fixes:

1. Remove the item: Bridge=No in menu11.1

Date: Aug 17, 2000

ZyXEL Prestige 316 V3.20(CB.0)b5 Release Note

Supported Platforms:

ZyXEL Prestige 316

Versions:

ZyNOS F/W Version : V3.20(CB.0)b5 | 8/17/2000

Notes:

1. The default romfile is 320CB0B5.rom
2. Firmware name 320CB0B5.bin
3. Boot module name CB105.bm
4. In menu 3.5, in accordance with STA's wireless configuration, RTS Threshold default value change to 2432, range is (0-2432) Frag. Threshold default value change to 2432, range is (256-2432)

New Features:

1. add response loopback testing from STA(at STA using utility's Diagnostic Tools/Link Quality test/ Have packet loopback through the access point

Date: Aug 4, 2000

ZyXEL Prestige 316

V3.20(CB.0)b4 Release Note

Supported Platforms:

ZyXEL Prestige 316

Versions:

ZyNOS F/W Version : V3.20(CB.0)b4 | 8/04/2000

Notes:

1. The default romfile is 320CB0B4.rom
2. Firmware name 320CB0B4.bin
3. Boot module name CB105.bm
4. No fully NAT function. (support SUA only)
5. The default value for Wireless RTS Threshold(menu 3.5) change to 3000, the range is changed to (0-3000)

New Features:

1. Web configurator has been ready!

Date: July 26, 2000

ZyXEL Prestige 316 V3.20(CB.0)b3 Release Note

Supported Platforms:

ZyXEL Prestige 316

Versions:

ZyNOS F/W Version : V3.20(CB.0)b3 | 7/26/2000

Date: July 25, 2000

ZyXEL Prestige 316 V3.20(CB.0)b2 Release Note

Supported Platforms:

ZyXEL Prestige 316

Versions:

ZyNOS F/W Version : V3.20(CB.0)b2 | 7/25/2000

ZyXEL Prestige 316 V3.20(CB.0)b1 Release Note

Date: July 11, 2000

Supported Platforms:

ZyXEL Prestige 316

Versions:

ZyNOS F/W Version : V3.20(CB.0)b1 | 7/10/2000

Notes:

1. The Wireless LAN regarding configurations at menu 3.5.

There are five configurable settings as follow:

SSID= Wireless (default value)

Channel ID= 1 (default value, the effect value is *1-13, 14 is not on the allowed channel bitmap*)

RTS Threshold=2432

Fragment Threshold= 2432

WEP= **No** (not available at this stage. This function will be included in the nearly future.)

Note: change the configuration of wireless may cause the disconnection between STA and AP, if this happens, use utility to rescan AP on STA.

2. Please upload the default configuration file.

3. Two ports in LAN side (Ethernet LAN and Wireless LAN ports) can transparently communicate with each other since there is bridging function between two ports.

4. At the Wireless Station, please set

IP: get IP address automatically

Wireless configuration:

Mode: **Infrastructure**

SSID: **Wireless**

WEP: **Disabled**

Power Save Mode: **Disabled**

The SSID must same as p316's AP, then connection can be created. Or using "any" to connect.

5. This product is a product which is based on Prestige 310 but plus a wireless port, please refer the release note for Prestige 310.

6. The content of P316 default Romfile as follows:

Menu 3.1 - LAN Port Filter Setup

Input Filter Sets:

protocol filters= 2

device filters=

Output Filter Sets:

protocol filters=

device filters=

Menu 3.2 - TCP/IP and DHCP Ethernet Setup

DHCP= Server
Configuration:
 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

TCP/IP Setup:
 IP Address= 192.168.1.1
 IP Subnet Mask= 255.255.255.0
 RIP Direction= Both
 Version= RIP-1
 Multicast= None
 Edit IP Alias= No

Menu 3.5- Wireless LAN Setup

ESSID= Wireless
Channel ID= 1
RTS Threshold= 2432
Fragment Threshold= 2432
WEP= No
 Default Key= N/A
 Key1= N/A
 Key2= N/A
 Key3= N/A
 Key4= N/A

Menu 4 - Internet Access Setup

Menu 4 - Internet Access Setup

ISP's Name= ChangeMe
Encapsulation= Ethernet
 Service Type= Standard
 My Login= N/A
 My Password= N/A
 Login Server IP= N/A

IP Address Assignment= Dynamic
 IP Address= N/A
 IP Subnet Mask= N/A
 Gateway IP Address= N/A
Single User Account= Yes

Menu 11.1 - Remote Node Profile

Rem Node Name= ChangeMe	Route= IP
Active= Yes	
Encapsulation= Ethernet	Edit IP= No
Service Type= Standard	Session Options:
Service Name= N/A	Edit Filter Sets= No
Outgoing=	
My Login= N/A	

My Password= N/A
Server IP= N/A

Menu 11.3 - Remote Node Network Layer Options

IP Address Assignment= Dynamic
IP Address= N/A
IP Subnet Mask= N/A
Gateway IP Addr= N/A

Single User Account= Yes
Metric= N/A
Private= N/A
RIP Direction= None
Version= N/A
Multicast= None

Menu 11.5 - Remote Node Filter

Input Filter Sets:
protocol filters= 3
device filters=
Output Filter Sets:
protocol filters= 1
device filters=

Menu 21 - Filter Set Configuration

Filter		Filter	
Set #	Comments	Set #	Comments
1	NetBIOS_WAN	7	
2	NetBIOS_LAN	8	
3	TELNET_FTP_WAN	9	
4		10	
5		11	
6		12	

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

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					

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 N
2	Y	IP	Pr=6, SA=0.0.0.0, DA=0.0.0.0, DP=21		N	D F
3	N					
4	N					
5	N					
6	N					

Autoexec.net contents

```
sys errctl 0
sys trcl level 5
sys trcl type 1180
sys trcp cr 128 96
sys trcl sw on
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
ppp ipcp com off
ip icmp disc enif0 off
bridge mode 1
```

7.Prestige 316's Feature Bits :

```
ZyNOS Version      V3.20(CB.0)b1 | 7/10/2000 11:51:09
Bootbase Version   V1.05 | 4/14/2000 13:58:03
Vendor Name        ZyXEL
Product Model      Prestige 316
ZyNOS Code Model    RAS
HTP Code Model     HTP_p316 V 0.10
ZyNOS ROM address  06008000
System Type        5
MAC Address        00A0C5012345
Default Country Code FF
Boot Module Debug Flag 01
RomFile Version    07
SNMP MIB level & OID 060102030405060708091011121314151617181920
Main Feature Bits(Model#) C0
Other Feature Bits
    19 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 01 33 00 00 04
(MAC Address, Country Code, Debug Flag, Romfile Version and RAS Code Rev.
may be different that this example.)
```

Appendix:

ESSID

The ESSID is a unique ID given to the Access Point. Wireless clients associating to the Access Point must have the same ESSID. The ESSID can have up to 32 characters.

Channel ID

The operating frequency channel of the DSSS PHY. Valid channel numbers are defined as following table:

IC: Industry Canada

FCC: Federal Communication Commission

ETSI: European Telecommunications Standards Institute

MKK: Ministry of Telecommunications (used in Japan)

Table 105—High Rate PHY frequency channel plan

CHNL_ID	Frequency (MHz)	Regulatory domains					
		X'10' FCC	X'20' IC	X'30' ETSI	X'31' Spain	X'32' France	X'40' MKK
1	2412	X	X	X	—	—	—
2	2417	X	X	X	—	—	—
3	2422	X	X	X	—	—	—
4	2427	X	X	X	—	—	—
5	2432	X	X	X	—	—	—
6	2437	X	X	X	—	—	—
7	2442	X	X	X	—	—	—
8	2447	X	X	X	—	—	—
9	2452	X	X	X	—	—	—
10	2457	X	X	X	X	X	—
11	2462	X	X	X	X	X	—
12	2467	—	—	X	—	X	—
13	2472	—	—	X	—	X	—
14	2484	—	—	—	—	—	X

RTS Threshold:

This attribute shall indicate the number of bytes in an MPDU, below which an RTS/CTS handshake shall not be performed. An RTS/CTS handshake shall be performed at the beginning of any frame exchange sequence where the MPDU is of type Data or Management, the MPDU has an individual address in the Address1 field, and the length of the MPDU is equal to or larger than this threshold. Setting this attribute to be larger than the maximum MSDU size shall have the effect of turning off the RTS/CTS handshake for frames of Data or Management type transmitted by this STA. Setting this attribute to zero shall have the effect of turning on the RTS/CTS handshake for all frames of Data or Management type transmitted by this STA.

Fragmentation Threshold:

This attribute shall specify the current maximum size, in octets, of the MPDU that may be delivered to the PHY. An MSDU shall be broken into fragments if its size exceeds the value of this attribute after adding MAC headers and trailers. The default value for this attribute shall be equal to aMPDUMaxLength of the attached PHY and shall never exceed aMPDUMaxLength of the attached PHY. The value of this attribute shall never be less than 256.

WEP(wired equivalent privacy)

The optional cryptographic confidentiality algorithm specified by IEEE 802.11

used to provide data confidentiality that is subjectively equivalent to the confidentiality of a wired local area network(LAN) medium that does not employ cryptographic techniques to enhance privacy.

WEP Default Key ID

This attribute shall indicate the use of the first, second, third, or fourth element of the WEP key array.

WEP keys

There are four WEP secret key values. The WEP key must be set up exactly the same on the Access Points as they are on the wireless client stations. The same value must be assigned to Key 1 on both the Access Point and the client stations, and so on, for all four WEP keys. Also, the active key on both the Access Point and the clients must be the same.

DSSS

direct sequence spread spectrum.

MPDU

MAC protocol data unit: The unit of data exchanged between two peer MAC entities using the services of the physical layer (PHY).

MSDU

MAC service data unit: Information that is delivered as a unit between MAC service access points (SAPs).

SSID

service set identifier

STA station

AP access point

ESS extended service set