

ZyXEL Prestige 316

ZyNOS v3.21(CB.1) | 11/07/2000

Release Note

Date: November 07, 2000

Supported Platform:

ZyXEL Prestige 316

Versions:

ZyNOS F/W Version : V3.21(CB.1) | 11/07/2000 10:15:00

BootBase: v1.05 for P316

Bug Fix:

In the firmware version v3.21(CB.0) the P316 will hang by using it as an access point.

This bug is fixed in this version v3.21(CB.1) now.

Notes:

1. The Wireless LAN regarding configurations at menu3.5.

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.

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