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You can read the recommendations in the user guide, the technical guide or the installation guide for ZYXEL WAP3205. You'll find the answers to all your questions on the ZYXEL WAP3205 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ZYXEL WAP3205
User guide ZYXEL WAP3205
Operating instructions ZYXEL WAP3205
Instructions for use ZYXEL WAP3205
Instruction manual ZYXEL WAP3205

WAP3205

Wireless N Access Point

User's Guide

Default Login Details

IP Address	http://192.168.1.2
Password	1234

Firmware Version 1.0
Edition 1, 6/2009

www.zyxel.com

ZyXEL

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1.2 Applications You can create the following networks using the WAP3205: · Wired. You can connect to a broadband modem/router for Internet access and/or connect network devices via the Ethernet ports of the WAP3205 so that they can communicate with each other and access the Internet. · Wireless. Wireless clients can connect to the WAP3205 to access network resources. Figure 1 WAP3205 Network 1.3 Ways to Manage the WAP3205 Use any of the following methods to manage the WAP3205. · Web Configurator. This is recommended for everyday management of the WAP3205 using a (supported) web browser.

WAP3205 User's Guide 19 Chapter 1 Getting to Know Your WAP3205 · WPS (Wi-Fi Protected Setup) button.

You can use the WPS button or the WPS section of the Web Configurator to set up a wireless network with your ZyXEL Device. 1.4 Good Habits for Managing the WAP3205 Do the following things regularly to make the WAP3205 more secure and to manage the WAP3205 more effectively. · Change the password. Use a password that's not easy to guess and that consists of different types of characters, such as numbers and letters.

· Write down the password and put it in a safe place. · Back up the configuration (and make sure you know how to restore it). Restoring an earlier working configuration may be useful if the device becomes unstable or even crashes. If you forget your password, you will have to reset the WAP3205 to its factory default settings. If you backed up an earlier configuration file, you would not have to totally re-configure the WAP3205.

You could simply restore your last configuration. 1.5 LEDs Figure 2 Front Panel The following table describes the LEDs and the WPS button. Table 1 Front Panel LEDs and WPS Button LED POWER COLOR Green STATUS On Off DESCRIPTION The WAP3205 is receiving power and functioning properly. The WAP3205 is not receiving power. The WAP3205 has a successful 10/100MB Ethernet connection. The WAP3205 is sending/receiving data through the LAN. The LAN is not connected. LAN 1-2 Green On Blinking Off 20 WAP3205 User's Guide Chapter 1 Getting to Know Your WAP3205 Table 1 Front Panel LEDs and WPS Button LED WLAN COLOR Green STATUS On Blinking Off DESCRIPTION The WAP3205 is ready, but is not sending/ receiving data through the wireless LAN. The WAP3205 is sending/receiving data through the wireless LAN.

The wireless LAN is not ready or has failed. WPS is enabled. The WAP3205 is negotiating a WPS connection with a wireless client. The wireless LAN is not ready or has failed. WPS Green On Blinking Off WAP3205 User's Guide 21 Chapter 1 Getting to Know Your WAP3205 22 WAP3205 User's Guide CHAPTER 2.1 Overview 2 Introducing the Web Configurator This chapter describes how to access the WAP3205 Web Configurator and provides an

overview of its screens. The Web Configurator is an HTML-based management interface that allows easy setup and management of the WAP3205 via Internet browser. Use Internet Explorer 6.0 and later or Netscape Navigator 7.0 and later versions or Safari 2.

0 or later versions. The recommended screen resolution is 1024 by 768 pixels. In order to use the Web Configurator you need to allow:

- Web browser pop-up windows from your device. Web pop-up blocking is enabled by default in Windows XP SP (Service Pack) 2.
- JavaScripts (enabled by default).
- Java permissions (enabled by default). Refer to the Troubleshooting chapter (Chapter 13 on page 119) to see how to make sure these functions are allowed in Internet Explorer.

2.2 Accessing the Web Configurator 1 Make sure your WAP3205 hardware is properly connected and prepare your computer or computer network to connect to the WAP3205 (refer to the Quick Start Guide). Launch your web browser.

Type "http://192.168.1.2" as the website address. Your computer must be in the same subnet in order to access this website address. 2.3 WAP3205 User's Guide 23 Chapter 2 Introducing the Web Configurator 2.2.1 Login Screen The Web Configurator initially displays the following login screen. Figure 3 Login screen The following table describes the labels in this screen. Table 2 Login screen LABEL Password Language DESCRIPTION Type "1234" (default) as the password.

Select the language you want to use to configure the Web Configurator. Click Login. This shows the current weather, either in celsius or fahrenheit, of the city you specify in Section 2.2.3.1 on page 26. This shows the time (hh:mm:ss) and date (yyyy:mm:dd) of the timezone you select in Section 2.2.3.2 on page 27 or Section 12.

5 on page 109. The time is in 24-hour format, for example 15:00 is 3:00 PM. 24 WAP3205 User's Guide Chapter 2 Introducing the Web Configurator 2.2.2 Password Screen You should see a screen asking you to change your password (highly recommended) as shown next.

Figure 4 Change Password Screen The following table describes the labels in this screen. Table 3 Change Password Screen LABEL New Password Retype to Confirm Apply Ignore DESCRIPTION Type a new password. Retype the password for confirmation. Click Apply to save your changes back to the WAP3205.

Click Ignore if you do not want to change the password this time.

Note: The management session automatically times out when the time period set in the Administrator Inactivity Timer field expires (default five minutes; go to Chapter 12 on page 107 to change this). Simply log back into the WAP3205 if this happens. 2.2.3 Home Screen If you have previously logged into the Web Configurator but did not click Logout, you may be redirected to the Home screen. You can also open this screen by clicking Home (Mode or Expert Mode screens. or) in the Easy WAP3205 User's Guide 25 Chapter 2 Introducing the Web Configurator The Home screen displays as follows. Figure 5 Home Screen The following table describes the labels in this screen.



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Table 4 Home Screen LABEL Go Language DESCRIPTION Click this to open the Easy mode Web Configurator. Select a language to go to the Easy mode Web Configurator in that language and click Login.

(This is just an example). This shows the current weather, either in celsius or fahrenheit, of the city you specify in Section 2.2.3.1 on page 26. (This is just an example). This shows the time (hh:mm:ss) and date (yyyy:mm:dd) of the timezone you select in Section 2.2.3.2 on page 27 or Section 12.5 on page 109. 2.2.3.1 Weather Edit You can change the temperature unit and select the location for which you want to know the weather. Click the icon to change the Weather display. Figure 6 Change Weather 26 WAP3205 User's Guide Chapter 2 Introducing the Web Configurator The following table describes the labels in this screen. Table 5 Change Weather LABEL o DESCRIPTION Choose which temperature unit you want the WAP3205 to display. Select the location for which you want to know the weather. If the city you want is not listed, choose one that is closest to it. Click this to apply the settings and refresh the date and time display. C or F o Change Location Finish 2.2.3.2 Time/Date Edit One timezone can cover more than one country. You can choose a particular country in which the WAP3205 is located and have the WAP3205 display and use the current time and date for its logs. Click the icon to change the Weather display. Figure 7 Change Password Screen The following table describes the labels in this screen. Table 6 Change Password Screen LABEL Change time zone Finish DESCRIPTION Select the specific country whose current time and date you want the WAP3205 to display. Click this to apply the settings and refresh the weather display.

Note: You can also edit the timezone in Section 12.5 on page 109. 2.3 Resetting the WAP3205 If you forget your password or IP address, or you cannot access the Web Configurator, you will need to use the RESET button at the back of the WAP3205 to reload the factory-default configuration file. This means that you will lose all configurations that you had previously saved, the password will be reset to "1234" and the IP address will be reset to "192.168.1.2". WAP3205 User's Guide 27 Chapter 2 Introducing the Web Configurator 2.3.

1 Procedure to Use the Reset Button 1 2 3 Make sure the power LED is on. Press the RESET button for longer than 1 second to restart/reboot the WAP3205. Press the RESET button for longer than five seconds to set the WAP3205 back to its factory-default configurations. 28 WAP3205 User's Guide CHAPTER 3.1 Overview 3 Monitor This chapter discusses read-only information related to the device state of the WAP3205.

Note: To access the Monitor screens, you can also click the links in the Summary table of the Status screen to view the packets sent/received as well as the status of clients connected to the WAP3205. 3.2 What You Can Do · Use the Log screen (Section 3.3 on page 29) to view the logs for the categories such as system maintenance, system errors, and so on. · use the Packet Statistics screen (Section 3.

4 on page 30) to view port status, packet specific statistics, the "system up time" and so on. · Use the WLAN Station Status screen (Section 3.5 on page 32) to view the wireless stations that are currently associated to the WAP3205. 3.3 Log Use the View Log screen to see the logged messages for the WAP3205. Log entries in red indicate system error logs. The log wraps around and deletes the old entries after it fills. WAP3205 User's Guide 29 Chapter 3 Monitor Click Monitor > Log. Figure 8 Monitor > Log The following table describes the labels in this screen. Table 7 Monitor > Log LABEL # Time Message Refresh Clear DESCRIPTION This field is a sequential value and is not associated with a specific entry.

This field displays the time the log was recorded. This field states the reason for the log. Click Refresh to renew the log screen. Click Clear to delete all the logs. 3.4 Packet Statistics Click the Packet Statistics (Details...) hyperlink in the Status screen or Monitor > Packet Statistics. Read-only information here includes port status, 30 WAP3205 User's Guide Chapter 3 Monitor packet specific statistics and the "system up time".

The Poll Interval(s) field is configurable and is used for refreshing the screen. Figure 9 Summary: Packet Statistics The following table describes the labels in this screen. Table 8 Summary: Packet Statistics LABEL Port Status DESCRIPTION This is the WAP3205's port type. For the LAN ports, this displays the port speed or Down when the line is disconnected. For the WLAN, it displays the maximum transmission rate when the WLAN is enabled and Down when the WLAN is disabled.

TxPkts RxPkts Collisions Tx B/s Rx B/s Up Time System Up Time Poll Interval(s) Set Interval Stop This is the number of transmitted packets on this port. This is the number of received packets on this port. This is the number of collisions on this port. This displays the transmission speed in bytes per second on this port. This displays the reception speed in bytes per second on this port.

This is the total time the WAP3205 has been for each session. This is the total time the WAP3205 has been on. Enter the time interval in seconds for refreshing statistics in this field. Click this button to apply the new poll interval you entered in the Poll Interval(s) field. Click Stop to stop refreshing statistics. WAP3205 User's Guide 31 Chapter 3 Monitor 3.5 WLAN Station Status Click the WLAN Station Status (Details...) hyperlink in the Status screen or Monitor > WLAN Station Status.

View the wireless stations that are currently associated to the WAP3205 in the Association List. Association means that a wireless client (for example, your network or computer with a wireless network card) has connected successfully to the AP (or wireless router) using the same SSID, channel and security settings. Note: This screen is not available when the WAP3205 is in Client mode. Figure 10 Summary: Wireless Association List The following table describes the labels in this screen. Table 9 Summary: Wireless Association List LABEL # MAC Address Association Time Refresh DESCRIPTION This is the index number of an associated wireless station. This field displays the MAC address of an associated wireless station. This field displays the time a wireless station first associated with the WAP3205's WLAN network. Click Refresh to reload the list. 32 WAP3205 User's Guide CHAPTER 4.1 Overview 4 WAP3205 Modes This chapter introduces the different modes available on your WAP3205.

First, the term "mode" refers to two things in this User's Guide. · Web Configurator mode. This refers to the Web Configurator interface you want to use for editing WAP3205 features.



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· Device mode. This is the operating mode of your WAP3205, or simply how the WAP3205 is being used in the network.

4.1.1 Web Configurator Modes This refers to the configuration interface of the Web Configurator, which has two modes: · Easy. The Web Configurator shows this mode by default. Refer to Chapter 5 on page 35 for more information on the screens in this mode.

This interface may be sufficient for users who just want to use the device. · Expert. Advanced users can change to this mode to customize all the functions of the WAP3205. Click Expert Mode after logging into the Web Configurator. The User's Guide Chapter 2 on page 23 through Chapter 12 on page 107 discusses the screens in this mode. 4.1.2 Device Modes This refers to the operating mode of the WAP3205, which can act as a: · Access Point. Use this mode if you want to extend your network by allowing network devices to connect to the WAP3205 wirelessly. Go to Section 6.

4 on page 47 view the Status screen in this mode. · Client. Use this mode if there is an existing wireless router or access point in the network to which you want to connect your local network. Go to Section 7.4 on page 55 to view the Status screen in this mode. WAP3205 User's Guide 33 Chapter 4 WAP3205 Modes · Universal Repeater. In this mode, the WAP3205 can be an access point and a wireless client at the same time. Use this mode if there is an existing wireless router or access point in your network and you also want to allow clients to connect to the WAP3205 wirelessly. Go to Section 6.4 on page 47 to view the Status screen in this mode.

The following figure is a simple illustration of the device configuration modes of the WAP3205. Figure 11 Device Mode Example For more information on these modes and to change the mode of your WAP3205, refer to Chapter 12 on page 115. The menu for changing device modes is available in Expert mode only. Note: Choose your Device Mode carefully to avoid having to change it later. In Client mode, you should know the SSID and wireless security details of the access point to which you want to connect.

34 WAP3205 User's Guide CHAPTER 5.1 Overview 5 Easy Mode The Web Configurator is set to Easy Mode by default. You can configure several key features of the WAP3205 in this mode. This mode is useful to users who are not fully familiar with some features that are usually intended for network administrators. When you log in to the Web Configurator, the following screen opens.

Figure 12 Easy Mode: Network Map Navigation Panel Network Map Go to Status Screen Control Panel WAP3205 User's Guide 35 Chapter 5 Easy Mode Click Status to open the following screen screen. Figure 13 Easy Mode: Status Screen Navigation Panel Go to Network Map Screen Status Screen Control Panel 5.2 What You Can Do You can do the following in this mode: · Use this Navigation Panel (Section 5.4 on page 37) to opt out of the Easy mode. · Use the Network Map screen (Section 5.5 on page 37) to check if your WAP3205 can ping the gateway and whether it is connected to the Internet. The Network Map screen is not applicable when the WAP3205 is in Client Mode. · Use the Control Panel (Section 5.6 on page 38) to configure wireless security. · Use the

7 on page 42) to view read-only information about the WAP3205, including the LAN IP, MAC Address of the WAP3205 and the firmware version. 5.3 What You Need to Know The Network Map screen is not applicable and Wireless Security in the control panel is not configurable when the WAP3205 is in Client mode. 36 WAP3205 User's Guide Chapter 5 Easy Mode 5.4 Navigation Panel Use this navigation panel to opt out of the Easy mode. Figure 14 Control Panel The following table describes the labels in this screen. Table 10 Control Panel ITEM Home Expert Mode Logout DESCRIPTION Click this to go to the Login page. Click this to change to Expert mode and customize features of the WAP3205. Click this to end the Web Configurator session. 5.

5 Network Map Note: The Network MAP is viewable by Windows XP (need to install patch), Windows Vista and Windows 7 users only. For Windows XP (Service Pack 2) users, you can see the network devices connected to the WAP3205 by downloading the LLTD (Link Layer Topology Discovery) patch from the Microsoft Website. Note: Don't worry if the Network Map does not display in your web browser. This feature may not be supported by your system. You can still configure the Control Panel (Section 5.

6 on page 38) in the Easy Mode and the WAP3205 features that you want to use in the Expert Mode. Note: The Network Map is not applicable when the WAP3205 is in Client Mode. WAP3205 User's Guide 37 Chapter 5 Easy Mode When you log into the Web Configurator, the Network Map is shown as follows. Figure 15 Network Map The line connecting the WAP3205 to the gateway becomes green when the WAP3205 is able to ping the gateway. It becomes red when the ping initiating from the WAP3205 does not get a response from the gateway.

The same rule applies to the line connecting the gateway to the Internet. You can also view the devices (represented by icons indicating the kind of network device) connected to the WAP3205, including those connecting wirelessly. Rightclick on the WAP3205 icon to refresh the network map and go to the Wizard. Right click on the other icons to view information about the device. 5.6 Control Panel The features configurable in Easy Mode are shown in the Control Panel. Figure 16 Control Panel Click the feature to open a screen where you can edit its settings. 38 WAP3205 User's Guide Chapter 5 Easy Mode The following table describes the labels in this screen. Table 11 Control Panel ITEM Wireless Security DESCRIPTION Click this to configure the wireless security, such as SSID, security mode and WPS key on your WAP3205. Refer to Section 5.

6.1 on page 39 to see this screen. 5.6.1 Wireless Security Use this screen to configure security for your the Wireless LAN. You can enter the SSID and select the wireless security mode in the following screen. Note: Wireless Security in the control panel is not configurable when the WAP3205 is in Client Mode.

Figure 17 Wireless Security WAP3205 User's Guide 39 Chapter 5 Easy Mode The following table describes the general wireless LAN labels in this screen. Table 12 Wireless Security LABEL Wireless Network Name (SSID) DESCRIPTION (Service Set IDentity) The SSID identifies the Service Set with which a wireless station is associated. Wireless stations associating to the access point (AP) must have the same SSID.

Enter a descriptive name (up to 32 keyboard characters) for the wireless LAN. The default SSID is WAP3205. Security mode Select WPA-PSK or WPA2-PSK to add security on this wireless network. The wireless clients which want to associate to this network must have same wireless security settings as this device.



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After you select to use a security, additional options appears in this screen.

Select No Security to allow any client to connect to this network without authentication. Wireless password This field appears when you choose wither WPA-PSK or WPA2-PSK as the security mode. Type a pre-shared key from 8 to 63 case-sensitive keyboard characters. Verify password Apply Cancel WPS Type the password again to confirm. Click Apply to save your changes back to the WAP3205.

Click Cancel to close this screen. Click this to configure the WPS screen. You can transfer the wireless settings configured here (Wireless Security screen) to another wireless device that supports WPS. 40 WAP3205 User's Guide Chapter 5 Easy Mode 5.6.2 WPS Use this screen to add a wireless station to the network with the WAP3205's first SSID using WPS. Click WPS in the Wireless Security to open the following screen. Figure 18 Wireless Security: WPS The following table describes the labels in this screen. Table 13 Wireless Security: WPS LABEL Wireless Security WPS DESCRIPTION Click this to go back to the Wireless Security screen. Create a secure wireless network simply by pressing the button.

The WAP3205 scans for a WPS-enabled device within the range and performs wireless security information synchronization. Note: After you click the WPS button on this screen, you have to press a similar button in the wireless station utility within 2 minutes. WAP3205 User's Guide 41 Chapter 5 Easy Mode Table 13 Wireless Security: WPS LABEL Register DESCRIPTION Create a secure wireless network simply by entering a wireless client's PIN (Personal Identification Number) in the WAP3205's interface and pushing this button. @@Then click Register to associate to each other and perform the wireless security information synchronization. Exit Click Exit to close this screen. 5.7 Status Screen in Easy Mode In the Network Map screen, click Status to view read-only information about the WAP3205. Figure 19 Status Screen in Easy Mode The following table describes the labels in this screen. Table 14 Status Screen in Easy Mode ITEM Name DESCRIPTION This is the name of the WAP3205 in the network. You can change this in the Maintenance > General screen in Section 12.

3 on page 108. This is the current system date and time. The date is in YYYY:MM:DD (Year-Month-Day) format. The time is in HH:MM:SS (Hour:Minutes:Seconds) format. Time LAN IP MAC Address Firmware Version This is the IP address of the LAN port.

This is the MAC address of the WAP3205. This shows the firmware version of the WAP3205. The firmware version format shows the trunk version, model code and release number. 42 WAP3205 User's Guide Chapter 5 Easy Mode Table 14 Status Screen in Easy Mode ITEM Wireless Network Name (SSID) Security DESCRIPTION This shows the SSID of the wireless network. You can configure this in the Wireless Security screen (Section 5.

6.1 on page 39; Section 10.3.1.1 on page 85). This shows the wireless security used by the WAP3205. WAP3205 User's Guide 43 Chapter 5 Easy Mode 44 WAP3205 User's Guide CHAPTER 6.1 Overview 6 Access Point Mode The WAP3205 is set to access point mode by default. In this mode your WAP3205 bridges a wired network (LAN) and wireless LAN (WLAN) in the same subnet. See the figure below for an example.

Figure 20 Wireless Internet Access in Access Point Mode Note: See Chapter 9 on page 73 for an example of setting up a wireless network in Access Point mode. 6.2 What You Can Do · Use the Status screen (Section 6.4 on page 47) to view read-only information about your WAP3205. · Use the LAN screen (Chapter 11 on page 101) to set the IP address for your WAP3205 acting as an access point. · Use the Wireless LAN screens (Chapter 10 on page 83) to configure the wireless settings and wireless security between the wireless clients and the WAP3205. 6.3 What You Need to Know See Chapter 9 on page 73 for a tutorial on setting up a network with the WAP3205 as an access point. WAP3205 User's Guide 45 Chapter 6 Access Point Mode 6.3.

1 Setting your WAP3205 to AP Mode 1 Log into the Web Configurator if you haven't already. See the Quick start Guide for instructions on how to do this. To use your WAP3205 as an access point, go to Maintenance > Sys OP Mode and select Access Point mode. 2 Figure 21 Changing to Access Point mode Note:

You have to log in to the Web Configurator again when you change modes. As soon as you do, your WAP3205 is already in Access Point mode.

6.3.2 Accessing the Web Configurator in Access Point Mode Log in to the Web Configurator in Access Point mode, do the following: 1 2 Connect your computer to the LAN port of the WAP3205. The default IP address of the WAP3205 is "192.168.

1.2". In this case, your computer must have an IP address in the range between "192.168.1.3" and "192.168.1.254". Click Start > Run on your computer in Windows.

Type "cmd" in the dialog box. Enter "ipconfig" to show your computer's IP address. If your computer's IP address is not in the correct range then see Appendix C on page 149 for information on changing your computer's IP address. After you've set your computer's IP address, open a web browser such as Internet Explorer and type "192.168.1.2" as the web address in your web browser. 3 4 Note: After clicking Login, the Easy mode appears. Refer to Section on page 35 for the Easy mode screens. Change to Expert mode to see the screens described in the sections following this.

46 WAP3205 User's Guide Chapter 6 Access Point Mode 6.3.3 Configuring your WLAN, LAN and Maintenance Settings · See Configuration (81) for information on the configuring your wireless network and LAN settings. · See Maintenance and Troubleshooting (105) for information on configuring your Maintenance settings. 6.

4 AP Mode Status Screen Click to open the Status screen. Figure 22 Status Screen: Access Point Mode The following table describes the icons shown in the Status screen. Table 15 Status Screen Icon Key: Access Point Mode ICON DESCRIPTION Click this icon to view copyright and a link for related product information. Click this icon to go to Easy Mode. See Chapter 5 on page 35.

Click this to go to the Home page. See Chapter 3 on page 29. WAP3205 User's Guide 47 Chapter 6 Access Point Mode Table 15 Status Screen Icon Key:

Access Point Mode (continued) ICON DESCRIPTION Select a number of seconds or None from the drop-down list box to refresh all screen statistics automatically at the end of every time interval or to not refresh the screen statistics. Click this button to refresh the status screen statistics. Click this icon to see the Status page. The information in this screen depends on the device mode you select. Click this icon to see the Monitor navigation menu.



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Click this icon to see the Configuration navigation menu. Click this icon to see the Maintenance navigation menu. The following table describes the labels shown in the Status screen.

Table 16 Status Screen: Access Point Mode LABEL Logout Device Information Host Name Firmware Version Sys OP Mode LAN Information MAC Address IP Address IP Subnet Mask Default Gateway DHCP WLAN Information WLAN OP Mode MAC Address Status Name (SSID) Channel Operating Channel Security Mode 802.11 Mode This is the device mode (Section 4.1.2 on page 33) to which the WAP3205's wireless LAN is set - Access Point Mode. This shows the wireless adapter MAC Address of your device. This shows the current status of the Wireless LAN - ON. This shows a descriptive name used to identify the WAP3205 in the wireless LAN. This shows the channel number which you select manually or the WAP3205 automatically scans and selects. This shows the channel number which the WAP3205 is currently using over the wireless LAN. This shows the level of wireless security the WAP3205 is using. This shows the wireless standard. This shows the LAN Ethernet adapter MAC Address of your device. This shows the LAN port's IP address. This shows the LAN port's subnet mask. This shows the gateway IP address.

This shows the LAN port's DHCP role - Client or None. This is the System Name you enter in the Maintenance > General screen. It is for identification purposes. This is the firmware version and the date created. This is the device mode (Section 4.

1.2 on page 33) to which the WAP3205 is set - Access Point Mode. DESCRIPTION Click this at any time to exit the Web Configurator. 48 WAP3205 User's Guide Chapter 6 Access Point Mode Table 16 Status Screen: Access Point Mode LABEL WPS DESCRIPTION This displays Configured when the WPS has been set up. This displays Unconfigured if the WPS has not been set up. Click the status to display Network > Wireless LAN > WPS screen. Interface Status Interface Status This displays the WAP3205 port types. The port types are: LAN and WLAN. For the LAN ports, this field displays Down (line is down) or Up (line is up or connected). For the WLAN, it displays Up when the WLAN is enabled or Down when the WLAN is disabled.

Rate For the LAN ports, this displays the port speed or N/A when the line is disconnected. For the WLAN, it displays the maximum transmission rate when the WLAN is enabled and N/A when the WLAN is disabled. System Status Item Data System Up Time Current Date/Time System Resource CPU Usage This displays what percentage of the WAP3205's processing ability is currently used. When this percentage is close to 100%, the WAP3205 is running at full load, and the throughput is not going to improve anymore. If you want some applications to have more throughput, you should turn off other applications (for example, using bandwidth management. This shows what percentage of the heap memory the WAP3205 is using. This shows the web configurator mode you are viewing - Expert. This column shows the type of data the WAP3205 is recording. This column shows the actual data recorded by the WAP3205. This is the total time the WAP3205 has been on.

This field displays your WAP3205's present date and time. Memory Usage System Setting Configuration Mode Summary Packet Statistics Click Details... to go to the Monitor > Packet Statistics screen (Section 3.

4 on page 30). Use this screen to view port status and packet specific statistics. (Section 3.5 on page 32). Use this screen to view the wireless stations that are currently associated to the WAP3205.

WLAN Station Status Click Details... to go to the Monitor > WLAN Station Status screen 6.4.0.1 Navigation Panel Use the menu in the navigation panel to configure WAP3205 features in Access Point mode. WAP3205 User's Guide 49 Chapter 6 Access Point Mode The following screen and table show the features you can configure in Access Point mode. Figure 23 Menu: Access Point Mode The following table describes the sub-menus. Table 17 Navigation Panel: Access Point Mode LINK Status TAB FUNCTION This screen shows the WAP3205's general device, system and interface status information.

Use this screen to access the wizard, and summary statistics tables. Use this screen to view the list of activities recorded by your WAP3205. Use this screen to view port status and packet specific statistics. Use this screen to view the wireless stations that are currently associated to the WAP3205. MONITOR Log Packet Statistics WLAN Station Status CONFIGURATION Network 50 WAP3205 User's Guide Chapter 6 Access Point Mode Table 17 Navigation Panel: Access Point Mode LINK Wireless LAN TAB General Security MAC Filter FUNCTION Use this screen to configure general wireless LAN settings. Use this screen to configure wireless security settings. Use the MAC filter screen to configure the WAP3205 to block access to devices or block the devices from accessing the WAP3205. This screen allows you to configure advanced wireless settings. Use this screen to configure Wi-Fi Multimedia Quality of Service (WMM QoS). WMM QoS allows you to prioritize wireless traffic according to the delivery requirements of individual services.

Use this screen to configure WPS. Use this screen to add a wireless station using WPS. Use this screen to schedule the times the Wireless LAN is enabled. Use this screen to set up Wireless Distribution System (WDS) on your WAP3205. Use this screen to configure LAN IP address and subnet mask.

Use this screen to have the WAP3205 apply IP alias to create LAN subnets. Use this screen to view and change administrative settings such as system and domain names. Advanced QoS WPS WPS Station Scheduling WDS LAN IP IP Alias MAINTENANCE General Password Time Firmware Upgrade Backup/Restore Reset/Restart Sys OP Mode Restart Password Setup Time Setting Use this screen to change the password of your WAP3205. Use this screen to change your WAP3205's time and date. Use this screen to upload firmware to your WAP3205.

Use this screen to backup and restore the configuration or reset the factory defaults to your WAP3205. This screen allows you to reboot the WAP3205 without turning the power off. This screen allows you to select whether your device acts as an access point, wireless client or both at the same time. WAP3205 User's Guide 51 Chapter 6 Access Point Mode 52 WAP3205 User's Guide CHAPTER 7.1 Overview 7 Client Mode Your WAP3205 can act as a wireless client. In wireless client mode, it can connect to an existing network via an access point. Use this mode if you already have an access point or wireless router in your network. In the example below, one WAP3205 (A) is configured as a wireless client and another is used as an access point (B). The WAP3205 has two clients that need to connect to the Internet. The WAP3205 wirelessly connects to the available access point (B).

Figure 24 Wireless Client Mode B A After the WAP3205 and the access point connect, the WAP3205 acquires its WAN IP address from the access point.



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The clients of the WAP3205 can now surf the Internet. 7.2 What You Can Do · Use the Status screen (Section 7.4 on page 55) to view read-only information about your WAP3205. · Use the LAN screen (Chapter 11 on page 101) to set the IP address for your WAP3205. · Use the Wireless LAN screen (Section 7.5 on page 57) to associate your WAP3205 (acting as a wireless client) with an existing access point. WAP3205 User's Guide 53 Chapter 7 Client Mode 7.3 What You Need to Know With the exception of the Wireless LAN screens, the LAN, Monitor, Configuration and Maintenance screens in Client mode are similar to the ones in Access Point Mode.

See Chapter 11 on page 101 through Chapter 12 on page 107 of this User's Guide. 7.3.1 Setting your WAP3205 to Client Mode 1 Log into the Web Configurator if you haven't already. See the Quick start Guide for instructions on how to do this.

To set your WAP3205 to Client Mode, go to Maintenance > Sys OP Mode and select Client Mode. 2 Figure 25 Changing to Client mode Note: You have to log in to the Web Configurator again when you change modes. As soon as you do, your WAP3205 is already in Client mode. 7.3. 2 Accessing the Web Configurator in Client Mode To login to Web Configurator in Client mode, do the following: 1 2 Connect your computer to the LAN port of the WAP3205. The default IP address of the WAP3205 is "192.168.1.2". If you did not change this, you can use the same IP address in Client mode. Open a web browser such as Internet Explorer and type "192.168.1.2" as the web address in your web browser.

If you changed the IP address of your WAP3205 while in Access Point mode, use this IP address in Client mode. The Client mode IP address is always the same as the Access Point mode IP address. Note: After clicking Login, the Easy mode appears. Refer to Chapter 5 on page 35 for the Easy mode screens.

Click Expert Mode to see the screens described in the sections following this. 54 WAP3205 User's Guide Chapter 7 Client Mode 7.4 Client Mode Status Screen Click to open the status screen. Figure 26 Status: Client Mode The following table describes the labels shown in the Status screen. Table 18 Status Screen: Client Mode LABEL Logout Device Information Host Name Firmware Version Sys OP Mode LAN Information MAC Address IP Address IP Subnet Mask DHCP WLAN Information WLAN OP Mode MAC Address This is the device mode (Section 4.1.

2 on page 33) to which the WAP3205's wireless LAN is set - Client Mode. This shows the wireless adapter MAC Address of your device. This shows the LAN Ethernet adapter MAC Address of your device. This shows the LAN port's IP address. This shows the LAN port's subnet mask.

This shows the LAN port's DHCP role - Client or None. This is the System Name you enter in the Maintenance > General screen. It is for identification purposes. This is the firmware version and the date created. This is the device mode (Section 4.

1.2 on page 33) to which the WAP3205 is set - Client Mode. DESCRIPTION Click this at any time to exit the Web Configurator. WAP3205 User's Guide 55 Chapter 7 Client Mode Table 18 Status Screen: Client Mode LABEL Status Name (SSID) Connect Status 802.11 Mode WPS DESCRIPTION This shows the current status of the Wireless LAN - ON. This shows a descriptive name used to identify the WAP3205 in the wireless LAN. This shows whether or not the WAP3205 has successfully associated with an access point - Connected or Disassociated. This shows the wireless standard. This displays Configured when the WPS has been set up. This displays Unconfigured if the WPS has not been set up.

Click the status to display Network > Wireless LAN > WPS screen. Interface Status Interface Status This displays the WAP3205 port types. The port types are: LAN and WLAN. For the LAN and WAN ports, this field displays Down (line is down) or Up (line is up or connected). For the WLAN, it displays Up when the WLAN is enabled or Down when the WLAN is disabled. Rate For the LAN ports, this displays the port speed or N/A when the line is disconnected. For the WLAN, it displays the maximum transmission rate when the WLAN is enabled and N/A when the WLAN is disabled. System Status Item Data System Up Time Current Date/Time System Resource CPU Usage This displays what percentage of the WAP3205's processing ability is currently used. When this percentage is close to 100%, the WAP3205 is running at full load, and the throughput is not going to improve anymore. If you want some applications to have more throughput, you should turn off other applications (for example, using bandwidth management).

This shows what percentage of the heap memory the WAP3205 is using. This shows the web configurator mode you are viewing - Expert. This column shows the type of data the WAP3205 is recording. This column shows the actual data recorded by the WAP3205. This is the total time the WAP3205 has been on. This field displays your WAP3205's present date and time. Memory Usage System Setting Configuration Mode Summary Packet Statistics Click Details... to go to the Monitor > Packet Statistics screen (Section 3.

4 on page 30). Use this screen to view port status and packet specific statistics. 56 WAP3205 User's Guide Chapter 7 Client Mode 7.5 Wireless LAN Profile Screen Use this screen to view the wireless LAN profile settings of your WAP3205. Go to Configuration > Wireless LAN > Profile to open the following screen. Figure 27 Client Mode: WLAN > Profile The following table describes the labels in this screen. Table 19 Client Mode: WLAN > Profile LABEL Profile List # Profile Select a profile to remove, modify or enable it. This displays the name of the pre-configured profile. indicates the profile is activated and the WAP3205 connects to the specified wireless network. indicates the profile is activated but the specified wireless network is not available or the WAP3205 fails to associate with the wireless network.

SSID Channel Authentication Encryption Network Type Add Delete Edit Activate This displays the SSID of the wireless network with which this profile associates. This displays the channel number used by this profile. Auto means the WAP3205 automatically scans for and selects an available channel. This displays the authentication method used by this profile. This displays the data encryption method used by this profile. This displays the network type (Infrastructure or Ad Hoc) of this profile. Click this button to create a new profile. Select a profile and click this button to remove it. Select a profile and click this button to modify it. Select a profile and click this button to enable it.

DESCRIPTION Note: You can activate only one profile at a time. WAP3205 User's Guide 57 Chapter 7 Client Mode 7.5.1 Adding a New WLAN Profile Use this screen to create a new wireless LAN profile for your WAP3205. Click the Add button in the Configuration > Wireless LAN > Profile screen to open the following screen.



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Figure 28 Client Mode: WLAN > Profile > Add The following table describes the labels in this screen. Table 20 Client Mode: WLAN > Profile > Add LABEL Wireless Setup Profile Name Network Name (SSID) Security Security Mode Apply Cancel Select the security mode of the access point to which you want to connect. Click Apply to save your changes back to the WAP3205. Click Canel to go back to the previous screen. Enter a descriptive name for this profile.

Enter the name of the access point to which you are connecting. DESCRIPTION 7.5.1.1 No Security Use this screen if the access point to which you want to connect does not use encryption. Figure 29 Client Mode: WLAN > Profile: No Security 58 WAP3205 User's Guide Chapter 7 Client Mode The following table describes the labels in this screen. Table 21 Client Mode: WLAN > Profile: No Security LABEL Wireless Setup Profile Name Network Name (SSID) Security Security Mode Apply Cancel Select No Security in this field. Click Apply to save your changes back to the WAP3205. Click Canel to go back to the previous screen. Enter a descriptive name for this profile.

Enter the name of the access point to which you are connecting. DESCRIPTION 7.5.1.2 Static WEP Use this screen if the access point to which you want to connect to uses WEP security mode. Figure 30 Client Mode: WLAN > Profile: WEP WAP3205 User's Guide 59 Chapter 7 Client Mode The following table describes the labels in this screen.. Table 22 Client Mode: WLAN > Profile: WEP LABEL Wireless Setup Profile Name Enter a descriptive name for this profile. Network Enter the name of the access point to which you are connecting. Name (SSID) Security Security Mode PassPhrase Select Static WEP to enable data encryption.

Enter a Passphrase (up to 26 printable characters) and click Generate. DESCRIPTION A passphrase functions like a password. In WEP security mode, it is further converted by the WAP3205 into a complicated string that is referred to as the "key". This key is requested from all devices wishing to connect to a wireless network. WEP Encryption Select 64-bit WEP or 128-bit WEP.

@@Select Open or Shared Key from the drop-down list box. This field specifies whether the wireless clients have to provide the WEP key to log into the wireless network. Keep this setting at Open unless you want to force a key verification before communication between the wireless client and the ZyXEL Device occurs. Select Shared Key to force the clients to provide the WEP key prior to communication. ASCII Hex Select this option in order to enter ASCII characters as WEP key.

Select this option in order to enter hexadecimal characters as a WEP key. The preceding "0x", that identifies a hexadecimal key, is entered automatically. Key 1 to Key 4 The WEP keys are used to encrypt data. @@@@The default key is key 1. Apply Cancel Click Apply to save your changes back to the WAP3205. Click Canel to go back to the previous screen. Authentication Method 60 WAP3205 User's Guide Chapter 7 Client Mode 7.5.1.3 WPA(2)-PSK Use this screen if the access point to which you want to connect uses WPA(2)-PSK security mode.

Figure 31 Client Mode: WLAN > Profile: WPA-PSK/WPA2-PSK The following table describes the labels in this screen. . Table 23 Client Mode: WLAN > Profile: WPA-PSK/WPA2-PSK LABEL Wireless Setup Profile Name Network Name (SSID) Security Security Mode Select WPA-PSK or WPA2-PSK to add strong security on this wireless network. Enter a descriptive name for this profile. Enter the name of the access point to which you are connecting. DESCRIPTION Encryption Type Select the type of wireless encryption employed by the access point to which you want to connect. Pre-Shared Key WPA-PSK or WPA2-PSK uses a simple common password for authentication. Type the pre-shared key employed by the access point to which you want to connect. Apply Cancel Click Apply to save your changes back to the WAP3205. Click Canel to go back to the previous screen.

WAP3205 User's Guide 61 Chapter 7 Client Mode 7.5.2 Site Survey Screen Use this screen to scan for and connect to a wireless network automatically. Go to Configuration > Wireless LAN > Site Survey to open the following screen. Figure 32 Client Mode: WLAN > Site Survey The following table describes the labels in this screen.

Table 24 Client Mode: WLAN > Site Survey LABEL # DESCRIPTION Select a wireless device and click Add Profile to open a configuration screen where you can add the selected wireless device to a profile and then enable it. This displays the SSID of the wireless device. indicates the wireless device is added to an activated profile and the WAP3205 is connecting to it. Station Site Survey SSID BSSID Signal Strength Channel Encryption Authentication Network Type Rescan Add Profile This displays the MAC address of the wireless device. This displays the strength of the wireless signal.

The signal strength mainly depends on the antenna output power and the distance between your WAP3205 and this device. This displays the channel number used by this wireless device. This displays the data encryption method used by this wireless device. This displays the authentication method used by this wireless device. This displays the network type (Infrastructure or Ad Hoc) of this wireless device. Click this button to search for available wireless devices within transmission range and update this table. Select a wireless device and click this button to add it to a profile. 62 WAP3205 User's Guide Chapter 7 Client Mode 7.5.3 WPS Screen Use this screen to enable Wi-Fi Protected Setup (WPS) on the WAP3205.

Go to Configuration > Wireless LAN > WPS to open the following screen. Figure 33 Client Mode: WLAN > WPS The following table describes the labels in this screen. Table 25 Client Mode: WLAN > WPS LABEL # SSID BSSID Signal Strength Ch. Auth. Encrypt Ver. Status DESCRIPTION Use the radio button to select the wireless device to which you want to connect using WPS. This displays the SSID of the wireless device. This displays the MAC address of the wireless device. This displays the strength of the wireless signal. The signal strength mainly depends on the antenna output power and the distance between your WAP3205 and this device.

This displays the channel number used by this wireless device. This displays the authentication method used by this wireless device. This displays the data encryption method used by this wireless device. This displays the firmware version running on the wireless device. This displays Conf. (configured) when WPS has been set up on the wireless device. This displays Unconf. (unconfigured) if WPS has not been set up on the wireless device.

Station Site Survey PIN Renew PIN PIN Start PBC Start This displays the PIN number of the WAP3205. Click this button to generate a new PIN and display it in the PIN field.



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Click this button to perform wireless security information synchronization using the PIN configuration method. Click this button to perform wireless security information synchronization using the Push Button Configuration (PBC) method. WAP3205 User's Guide 63 Chapter 7 Client Mode Table 25 Client Mode: WLAN > WPS (continued) LABEL Stop Rescan DESCRIPTION Click this button to cancel wireless security information synchronization. Click this button to search for available for WPS-enabled devices within transmission range and update this table. 64 WAP3205 User's Guide CHAPTER 8.1 Overview 8 Universal Repeater Mode Your WAP3205 can act as an access point and wireless client at the same time. In this mode, the WAP3205 can connect to an existing network through another access point and also lets wireless clients connect to the network through it. This helps you expand wireless coverage when you have an access point or wireless router already in your network. In the example below, the WAP3205 (A) is configured as a universal repeater. It has three clients that want to connect to the Internet.

The WAP3205 wirelessly connects to the available access point (B). Figure 34 Universal Repeater Mode B A After the WAP3205 and the access point connect, the WAP3205 acquires its IP address from the access point. The clients of the WAP3205 can now surf the Internet. 8.2 What You Can Do · Use the Status screen (Section 7.4 on page 55) to view read-only information about your WAP3205. · Use the LAN screen (Chapter 11 on page 101) to set the IP address for your WAP3205. · Use the Wireless LAN > Universal Repeater screen (Section 7.5 on page 57) to configure the security between the WAP3205 and another access point. WAP3205 User's Guide 65 Chapter 8 Universal Repeater Mode · Use other Wireless LAN screens (Chapter 10 on page 83) to configure the wireless settings and wireless security between the wireless clients and the WAP3205.

8.3 What You Need to Know With the exception of the Wireless LAN > Universal Repeater screen, other configuration screens in Universal Repeater mode are similar to the ones in Access Point Mode. See Chapter 11 on page 101 through Chapter 12 on page 107 of this User's Guide. 8.3.

1 Setting your WAP3205 to Universal Repeater Mode 1 Log into the Web Configurator if you haven't already. See the Quick start Guide for instructions on how to do this. To set your WAP3205 to Universal Repeater Mode, go to Maintenance > Sys OP Mode and select Universal Repeater Mode. 2 Figure 35 Changing to Universal Repeater mode Note: You have to log in to the Web Configurator again when you change modes. As soon as you do, your WAP3205 is already in Universal Repeater mode.

8.3.2 Accessing the Web Configurator in Universal Repeater Mode To login to Web Configurator in Client mode, do the following: 1 Connect your computer to the LAN port of the WAP3205. 66 WAP3205 User's Guide Chapter 8 Universal Repeater Mode The default IP address of the WAP3205 is "192.168.1.2". If you did not change this, you can use the same IP address in Universal Repeater mode. Open a web browser such as Internet Explorer and type "192.168.

1.2" as the web address in your web browser. If you changed the IP address of your WAP3205 while in Access Point mode, use this IP address in Universal Repeater mode. The Universal Repeater mode IP address is always the same as the Access Point mode IP address. 2 Note: After clicking Login, the Easy mode appears. Refer to Chapter 5 on page 35 for the Easy mode screens. Click Expert Mode to see the screens described in the sections following this. 8.4 Universal Repeater Mode Status Screen Click to open the status screen. Figure 36 Status: Universal Repeater Mode WAP3205 User's Guide 67 Chapter 8 Universal Repeater Mode The following table describes the labels shown in the Status screen.

Table 26 Status Screen: Universal Repeater Mode LABEL Logout Device Information Host Name Firmware Version Sys OP Mode LAN Information MAC Address IP Address IP Subnet Mask DHCP WLAN Information WLAN OP Mode MAC Address Status Name (SSID) Channel Operating Channel Security Mode 802.11 Mode WLAN Station Status WPS This is the device mode (Section 4.1.2 on page 33) to which the WAP3205's wireless LAN is set - Universal Repeater Mode. This shows the wireless adapter MAC Address of your device.

This shows the current status of the Wireless LAN - ON. This shows a descriptive name used to identify the WAP3205 in the wireless LAN. This shows the channel number which you select manually or the WAP3205 automatically scans and selects. This shows the channel number which the WAP3205 is currently using over the wireless LAN. This shows the level of wireless security the WAP3205 is using.

This shows the wireless standard. This shows whether a wireless station is currently associated with the WAP3205. This displays Configured when the WPS has been set up. This displays Unconfigured if the WPS has not been set up. Click the status to display Network > Wireless LAN > WPS screen. Interface Status Interface Status This displays the WAP3205 port types. The port types are: LAN and WLAN. For the LAN and WAN ports, this field displays Down (line is down) or Up (line is up or connected). For the WLAN, it displays Up when the WLAN is enabled or Down when the WLAN is disabled. This shows the LAN Ethernet adapter MAC Address of your device.

This shows the LAN port's IP address. This shows the LAN port's subnet mask. This shows the LAN port's DHCP role - Client or None. This is the System Name you enter in the Maintenance > General screen. It is for identification purposes. This is the firmware version and the date created. This is the device mode (Section 4.1.2 on page 33) to which the WAP3205 is set - Universal Repeater Mode. DESCRIPTION Click this at any time to exit the Web Configurator. 68 WAP3205 User's Guide Chapter 8 Universal Repeater Mode Table 26 Status Screen: Universal Repeater Mode LABEL Rate DESCRIPTION For the LAN ports, this displays the port speed or N/A when the line is disconnected. For the WLAN, it displays the maximum transmission rate when the WLAN is enabled and N/A when the WLAN is disabled. System Status Item Data System Up Time Current Date/Time System Resource CPU Usage This displays what percentage of the WAP3205's processing ability is currently used. When this percentage is close to 100%, the WAP3205 is running at full load, and the throughput is not going to improve anymore. If you want some applications to have more throughput, you should turn off other applications (for example, using bandwidth management.

This shows what percentage of the heap memory the WAP3205 is using. This shows the web configurator mode you are viewing - Expert. This column shows the type of data the WAP3205 is recording. This column shows the actual data recorded by the WAP3205.



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