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### Wirelessly Connecting a Home Network via PePLink Surf 200BG-AP

Integrated Home Wi-Fi Access Point Setup Guide

#### Overview

This guide presents a brief introduction of, and a step-by-step process to configure a basic setup for the Integrated Home Wi-Fi Access Point functionality of PePLink Surf 200BG-AP.

Prior to carrying out the setup procedure in this guide, the process of connecting PePLink Surf 200BG-AP with Citywide Wi-Fi must have been successfully performed.

The high-level steps are as follows:

- 1. Configure Integrated Home Wi-Fi Access Point on PePLink Surf 200BG-AP
- 2. Configure Wi-Fi enabled host PC(s)
- 3. Test the Wi-Fi connection(s) with PePLink Surf 200BG-AP

#### **Integrated Home Wi-Fi Access Point – Introduction**

The Integrated Home Wi-Fi Access Point functionality of PePLink Surf 200BG-AP allows 802.1b/g devices on customers' premises to wirelessly connect with a PePLink Surf 200BG-AP unit through which Citywide Wi-Fi is accessed.

With PePLink Surf 200BG-AP, the already existing Ethernet capabilities of the PePLink Surf Series remain unaffected.



Figure 1 – PePLink Surf 200BG-AP and Integrated Home Wi-Fi Access Point



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### Important Note: Prerequisite Setup

In order to configure, and subsequently test, the Integrated Home Wi-Fi Access Point functionality of PePLink Surf 200BG-AP, connectivity between the PePLink Surf 200BG-AP unit and Citywide Wi-Fi must have already been established.

A guide through this "Prerequisite Setup" process to connect PePLink Surf 200BG-AP and Citywide Wi-Fi is available from the PePLink website, as follows:

#### Wi-Fi Connection Setup Guide - PePLink Surf How-to Document

http://download.peplink.com/pub/How-to/PePLink Surf howto connection setup guide.pdf

### **Setup Procedure**

### Integrated Home Wi-Fi Access Point Configuration

From the configuration and connections performed in the Prerequisite Setup, the Web-based Configuration Interface of PePLink Surf 200BG-AP should remain accessible via a host PC connected via Ethernet to the PePLink Surf 200BG-AP unit.

Configure the Integrated Home Wi-Fi Access Point settings as follows:

 Connect through a web-browser with the Web-based Configuration Interface of PePLink Surf 200BG-AP, via the URL http://192.168.20.1

Upon successfully connecting, the Welcome Screen is displayed.



Figure 2 – PePLink Surf Web-based Configuration Interface Welcome Screen

Click on *Advanced Config*. This loads the *CPE Setup* page, where the Wi-Fi settings are configured. (On the *CPE Setup* page, configuration parameters in the section *AP Settings* will need to be modified, whereas the other settings will remain at the values configured in the Prerequisite Setup.)

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 In the section *AP Settings*, select the radio button labeled *Configure Manually*. Upon the selection, further configuration parameters are displayed.

LAN Interface	IP Address	192.168.20.1							
	Subnet mask	255.255.255.0							
	Start IP address	192.168.20.10	1						
DHCP Server	Stop IP address	192.168.20.250	1						
	Subnet mask	255.255.255.0	1						
	C Disable								
			_						
	SSID	MySSID	(MySSI	D)					
	Radio Mode	802.11b/g	1						
	Mode Mode	Full							
	Bit Rate	auto 💌 Mbps (	(auto)						
Wireless Settings	Authentication	Open (open)							
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Figure 3 – The AP Settings section on the CPE Setup page



*Figure 4 – Further configuration parameters are displayed upon the selection of the Configure Manually radio button.* 

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4. In the *AP SSID* field, enter an alphanumeric value by which the home Wi-Fi network is to be identified.

For illustration purposes, the default AP SSID value MySSID@home will be used throughout this guide.

- 5. From the *Authentication* drop-down menu, select the item *WPA/WPA-2-Personal*.
- 6. In the *Encryption Key* field, enter an alphanumeric value that is difficult to guess, and contains at least 8 characters. The same value as the one entered here will subsequently be used when configuring host PC(s) that connect with Integrated Home Wi-Fi Access Point of PePLink Surf 200BG-AP.

For illustration purposes, the encryption key value PepLinkSurfAP will be used throughout this guide.

7. Click *Save* at the bottom-right corner of the *CPE Setup* page.

### Configuration of Wi-Fi Enabled Host PC(s)

From a Wi-Fi enabled Windows XP host PC, connect with the Integrated Home Wi-Fi Access Point of PePLink Surf 200BG-AP as follows:

1. Make the following menu selections:

#### Start Menu > Control Panel > Network Connections

 From Network Connections, right-click on the Wireless Network Connection icon, then select View Available Wireless Networks. The Wireless Network Connection window appears, as illustrated in Figure 5.



*Figure 5 – Windows XP dialog box for connecting to a wireless network* 

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An entry for **MySSID@home** should be present in the list of available wireless networks. If the entry is absent, click on **Refresh network list** on the left-hand side of the **Wireless Network Connection** window.

The entry for *MySSID@home* should be present afterwards.

- 3. Select the entry for *MySSID@home*.
- Click *Connect* at the bottom-right corner of the *Wireless Network Connection* window. A dialog box then prompts for the Network Key.
- In the Network key field, enter the value that was previously entered as the Encryption Key when configuring the AP Settings of PePLink Surf 200BG-AP. (The value PepLinkSurfAP was previously used in this guide for illustration.)
- 6. In the *Confirm key* field, enter the same value as in the previous step.
- 7. Click *Connect* at the bottom-right corner of the dialog box.

#### **Testing the Wi-Fi Connection(s)**

Test the Wi-Fi connection between the newly configured Wi-Fi enabled host PC and PePLink Surf 200BG-AP as follows:

- 1. Disconnect the Ethernet cable from the host PC.
- 2. Connect through a web-browser with the Web-based Configuration Interface of PePLink Surf 200BG-AP, via the URL http://192.168.20.1

Upon successfully connecting, the Welcome Screen is displayed.

After successfully testing the connection between the Wi-Fi enabled host PC and PePLink Surf 200BG-AP, test the connection with the Internet by visiting our website at www.peplink.com.

#### **PePLink Technical Support**

In the event that, after carrying out the setup procedure, the Integrated Home Wi-Fi Access Point component of PePLink Surf 200BG-AP fails to function, please browse the PePLink website at www.peplink.com for additional information, or contact PePLink Technical Support via email at support@peplink.com.