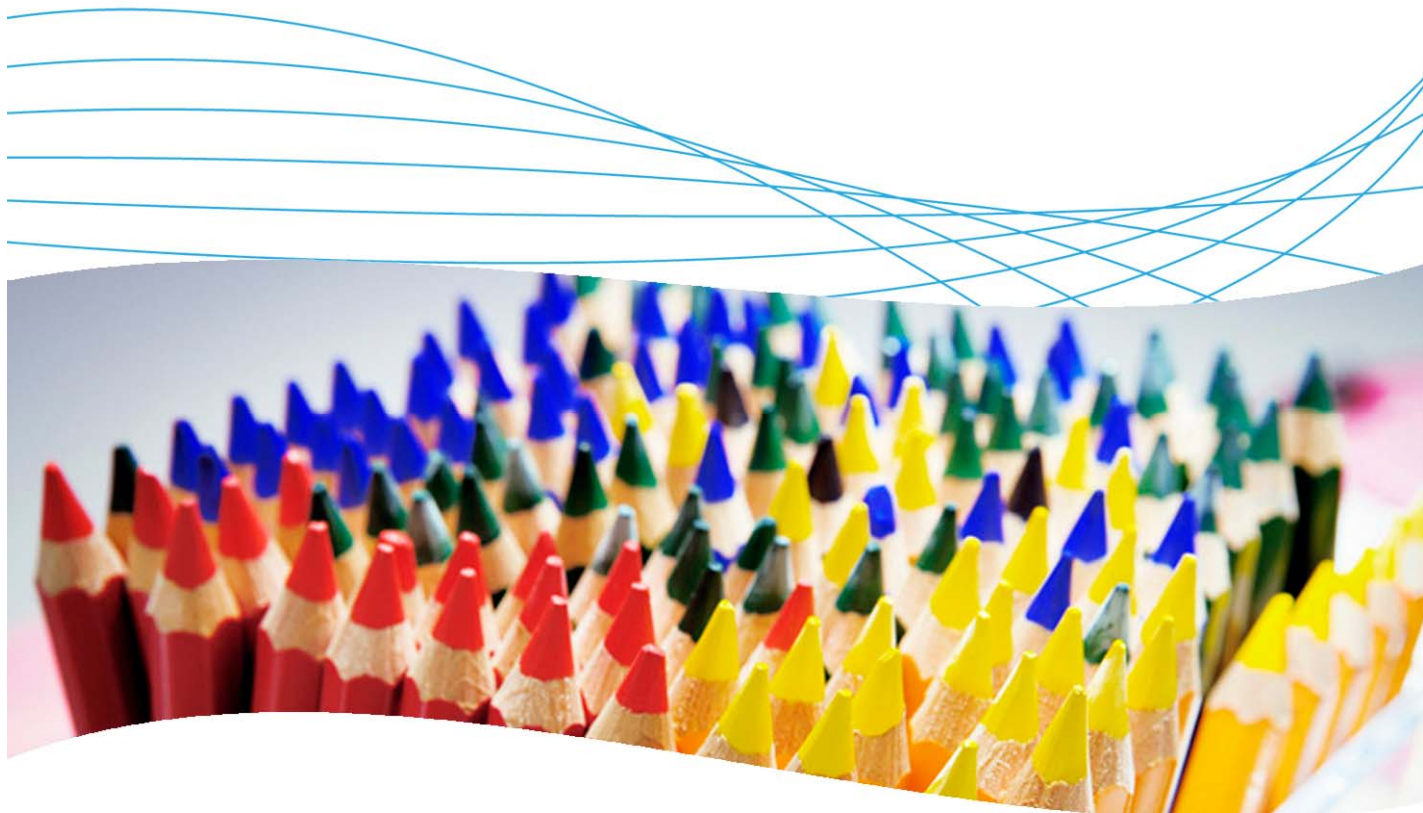


How to configure wireless services for a guest



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1. Introduction

This document describes how to configure wireless services for a guest.

Scenario: A dedicated WLAN and a guest group are reserved for visitors. The receptionist has access to the Wireless Edge Services Module (WESM) and the rights to create temporary accounts for visitors. A new visitor is on site for one day. An account is created for the visitor, and he connects to the network and gains access to the Internet.

2. Prerequisites

You already have a wireless network and a WESM, managed with PCM+.

3. Network diagram

Figure 1 shows the system configuration. This example uses a ProCurve Switch 5406zl.

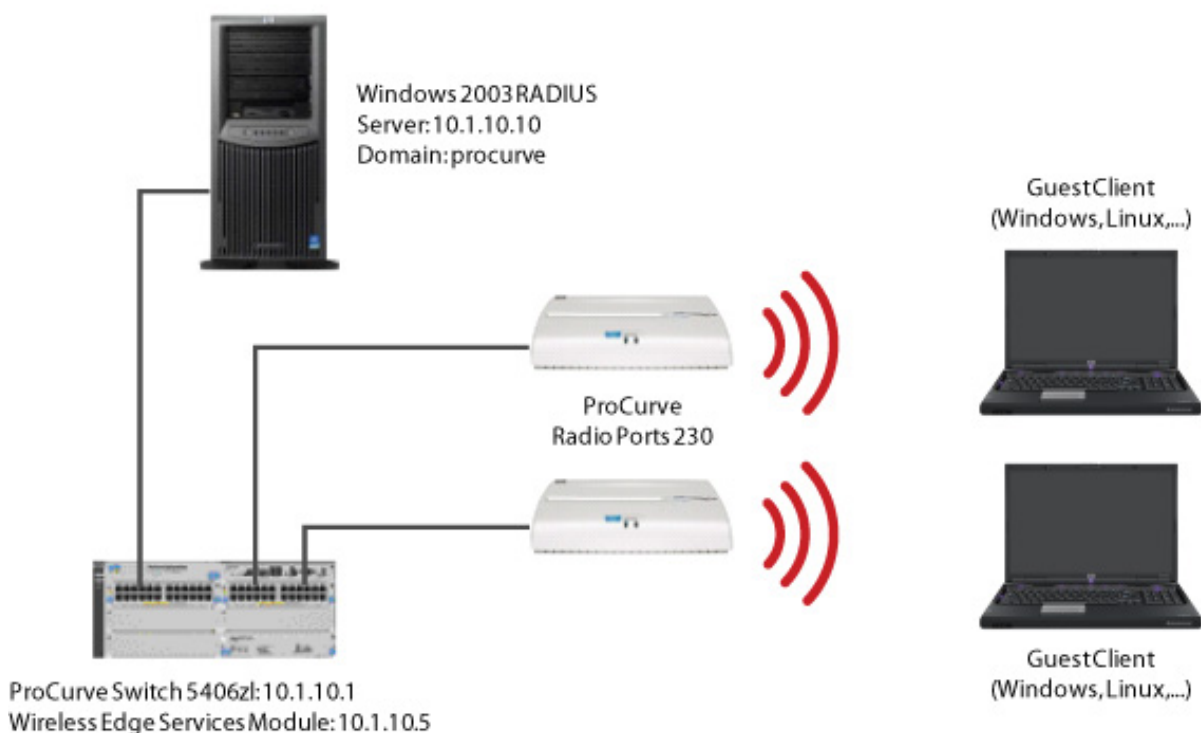


Figure 1. System configuration

Using this topology, you will create a Guests group on RADIUS, perform VLAN and DHCP configuration for the group, create a web admin account, then create an account and a WLAN for the guest. You will also test the guest login.

4. Enabling access for wireless guests

This section explains how to enable access.

4.1 Create the Guests group in the Local Radius Server on the WESM

1. Go to Network Setup > Local Radius Server and choose the Groups tab.
2. Add a new Group, named Guests. Define it as a Guest Group, and allocate VLAN ID 60. Configure the time parameters as follows:

Time of access start: 0900

Time of access end: 1800

Enable access days from Monday to Friday.

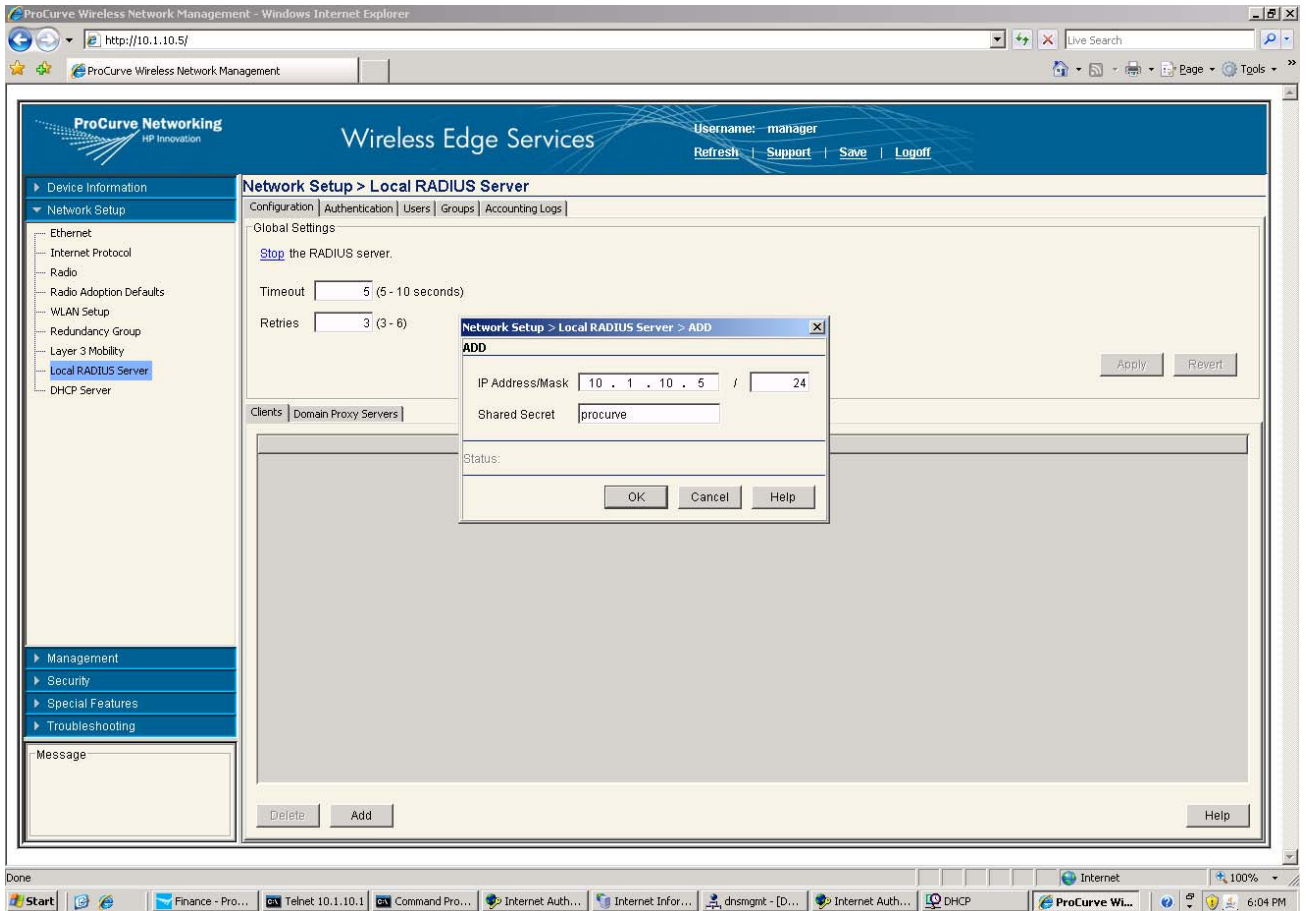
The screenshot shows a dialog box titled "Network Setup > Local RADIUS Server > EDIT". The dialog is titled "EDIT" and contains the following fields and options:

- Name: Guests
- Guest Group
- VLAN ID: 60
- Time of Access Start: 0900 (HHMM)
- Time of Access End: 1800 (HHMM)
- Time of Access in days:
 - Monday
 - Tuesday
 - Wednesday
 - Thursday
 - Friday
 - Saturday
 - Sunday
 - Select All

At the bottom of the dialog, there is a "Status:" label and three buttons: "OK", "Cancel", and "Help".

3. Restart the RADIUS server for the changes to take effect.

- From the Configuration tab of the Local RADIUS Server, add the Wireless Edge Services Module as a client with the Shared Secret procurve.



4.2 Configure VLAN and DHCP for the Guests group

- On the 5406zl create VLAN 60 and tag it on port FUP:

```
ProCurve Switch 5406zl# conf t
ProCurve Switch 5406zl(config)# vlan 60
ProCurve Switch 5406zl(vlan-60)# ip address 10.1.60.1 255.255.255.0
ProCurve Switch 5406zl(vlan-60)# ip helper-address 10.1.10.1
ProCurve Switch 5406zl(vlan-60)# tagged FUP
```

- Create a new DHCP scope for VLAN 60. (See the Self-Build Guide for details.)

4.3 Create the web-admin account

1. Go to Management > Web Users.
2. Add a new user with login name web-admin and password procure.
3. For Associated Roles, associate only the role WebUser Administrator. This user will not be able to manage the WESM. He or she will only be allowed to create guest accounts.

The screenshot shows a dialog box titled "Management > Web Users > Configuration" with a close button (X) in the top right corner. The dialog is divided into two main sections: "Configuration" and "Add User".

Configuration Section:

- User Name:** A text input field containing "web-admin".
- Password:** A text input field containing "*****".
- Confirm Password:** A text input field containing "*****".

Associated Roles Section:

This section contains a list of roles with checkboxes:

- Monitor
- HelpDesk Manager
- Network Administrator
- System Administrator
- WebUser Administrator
- SuperUser

Status: A label at the bottom left of the dialog.

Buttons: At the bottom of the dialog, there are three buttons: "OK", "Cancel", and "Help".

4.4 Create the Guest account

1. Log off the WESM by clicking on the Logoff link at the top of the page.
2. Refresh the screen to obtain the login fields again, and log in as web-admin. You have access to the Guest Registration Page:

The screenshot shows the 'Guest Registration' page. At the top right, there are links for 'Refresh', 'Print', and 'Logoff'. The main heading is 'Guest Registration'. Below the heading is a descriptive paragraph: 'Use this page to register guests and grant them temporary access to your company's network, to the internet, or allow them entry to only specific areas on your wireless network.' There are two tabs: 'Add Guest' (selected) and 'View/Delete Guests'. The form is divided into three sections: 1. 'Guest' section with 'User Name' and 'Password' text boxes, each followed by a 'Create' button. A 'Tip' box states: 'Click the Create button to auto populate the username and password fields.' 2. 'Group Access' section with a 'User Group' dropdown menu set to 'Guests'. 3. 'Access Period' section with 'Start Date & Time' (10/30/2007-16:24), 'End Date & Time' (10/31/2007-16:24), and 'Access Periods' (1 Day) dropdown. At the bottom right are 'Submit' and 'Clear' buttons.

3. Create a new guest: Either enter the login and password manually, or click Create to automatically generate the login and password. Assign the user to the Guests group.

4. Configure the access period for 2 days. Leave the start date and time as the default. (That is, starting now).

Guest Registration

Use this page to register guests and grant them temporary access to your company's network, to the internet, or allow them entry to only specific areas on your wireless network.

Add Guest | **View/Delete Guests**

Guest

User Name

Password

Tip Click the Create button to auto populate the username and password fields.

Group Access

User Group

Access Period

(mm/dd/yyyy-hh:mm)

End Date & Time (mm/dd/yyyy-hh:mm)

Access Periods

5. Click the View/Delete Guests tab to check that the user has been created.

4.5 Create the Guest WLAN

1. Log back on as Manager. From the Network Setup > WLAN Setup window create a new WLAN called Guests, with Web Authentication and no encryption.

The screenshot shows the 'Edit' configuration window for a WLAN named 'For Guests access'. The window is titled 'Network Setup > WLAN Setup > Edit' and has a close button in the top right corner. The configuration is organized into several sections:

- Configuration:** Includes fields for SSID (set to 'Guests') and Description (set to 'For Guests access'). It also features radio buttons for 'VLAN ID' (selected) and 'Dynamic Assignment' (checked), with a text box for the VLAN ID set to '60'.
- Authentication:** Contains four radio button options: '802.1X EAP', 'Web-Auth' (selected), 'MAC Authentication', and 'No Authentication'. Each option has a 'Config...' button.
- Encryption:** Contains two groups of options. The first group has 'WEP 64' and 'WEP 128', both unchecked, with 'Config...' buttons. The second group has 'WPAWPA2-TKIP' and 'WPA2-AES', both unchecked, with 'Config...' buttons.
- Advanced:** Contains various settings: 'Accounting Mode' (set to 'Off'), 'Inter-station Traffic' (set to 'Allow Packets'), 'Answer Broadcast ESS' (checked), 'Inactivity Timeout' (set to '1800 seconds'), 'Use Voice Prioritization' (unchecked), 'Access Category' (set to 'Normal'), 'Enable SVP' (unchecked), 'MCast Addr 1' (set to '00 - 00 - 00 - 00 - 00 - 00'), 'Closed System' (unchecked), and 'MCast Addr 2' (set to '00 - 00 - 00 - 00 - 00 - 00').

At the bottom, there is a 'Status:' label and a row of buttons: 'Radius Config...', 'Syslog Config...', 'OK', 'Cancel', and 'Help'.

2. Enter the Radius Configuration window and use 10.1.10.5 as the RADIUS Server Address to direct the requests to the Local Radius.

The screenshot shows a window titled "Network Setup > WLAN Setup > Edit > Radius Configuration". The window is divided into several sections for configuring RADIUS servers and accounting.

Server Configuration:

	Primary	Secondary
RADIUS Server Address	10 . 1 . 10 . 5	0 . 0 . 0 . 0
RADIUS Port	1812	1812
RADIUS Shared Secret	*****	*****
Server Timeout	5 (1-300 secs)	
Server Retries	3 (1-100 retries)	

Accounting Configuration:

	Primary	Secondary
Accounting Server Address	0 . 0 . 0 . 0	0 . 0 . 0 . 0
Accounting Port	1813	1813
Accounting Shared Secret	*****	*****
Accounting Timeout	5 (1-300 secs)	
Accounting Retries	6 (1-100 retries)	
Accounting Mode	Start-Stop	Interval: 60

Re-authentication:

Re-authentication
Re-authentication Period: 3600 (30-65535 sec)

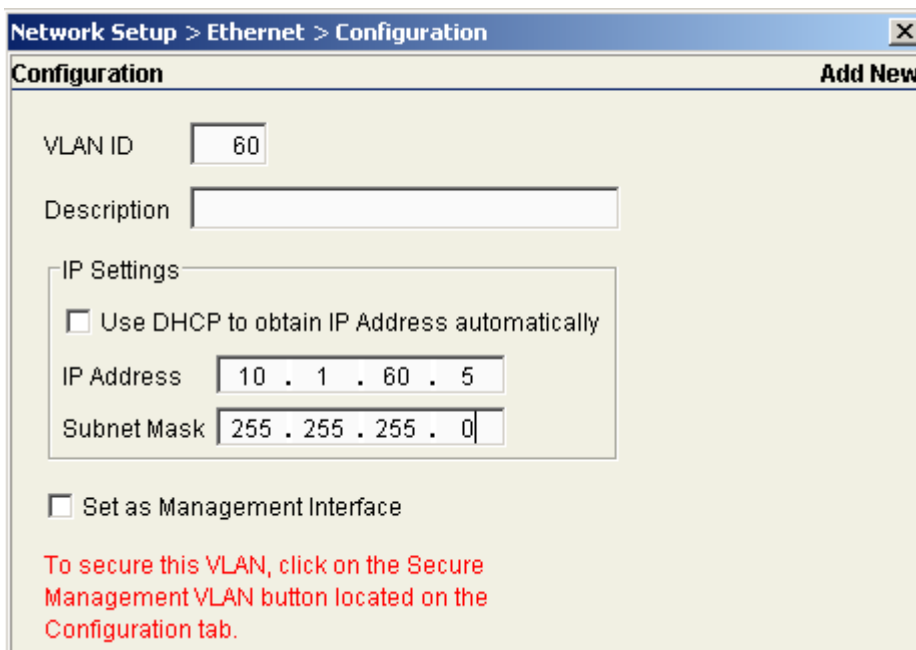
Advanced:

Authentication Protocol: PAP CHAP DSCP/TOS: 0

Status:

Buttons: OK, Cancel, Help

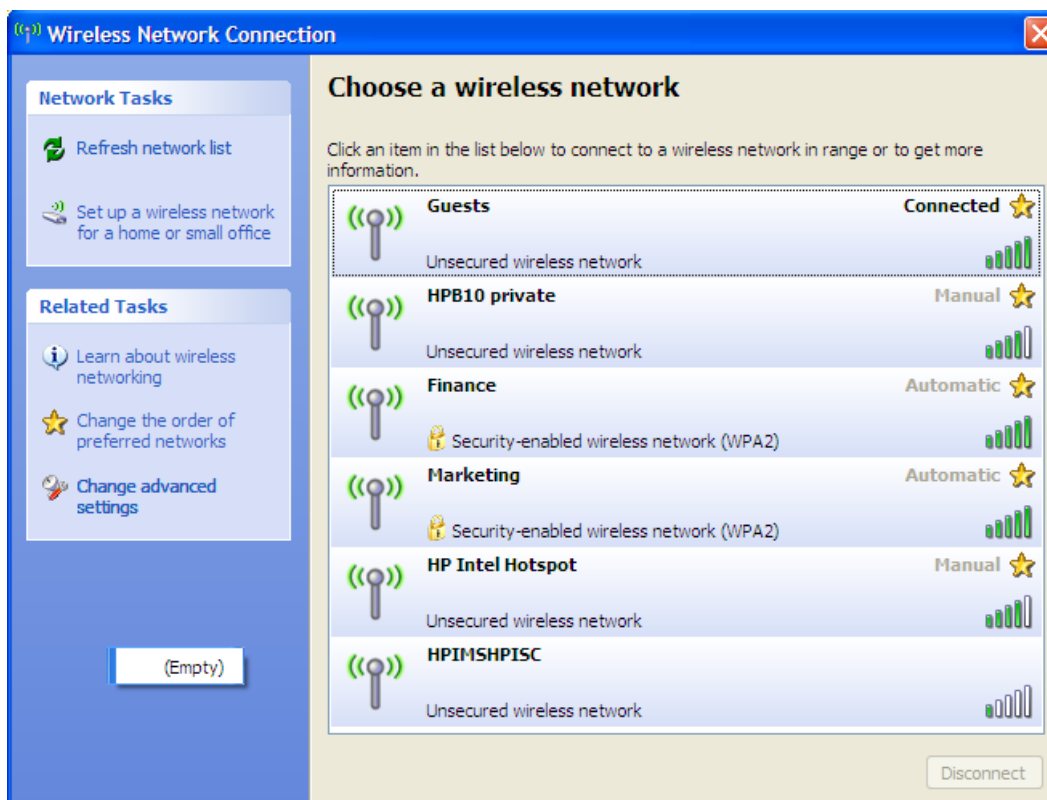
3. Enable the new WLAN: From Network Setup > Ethernet > Configuration, configure the interface on VLAN 60.



4.6 Guest logon

Test your configuration by logging on as a guest.

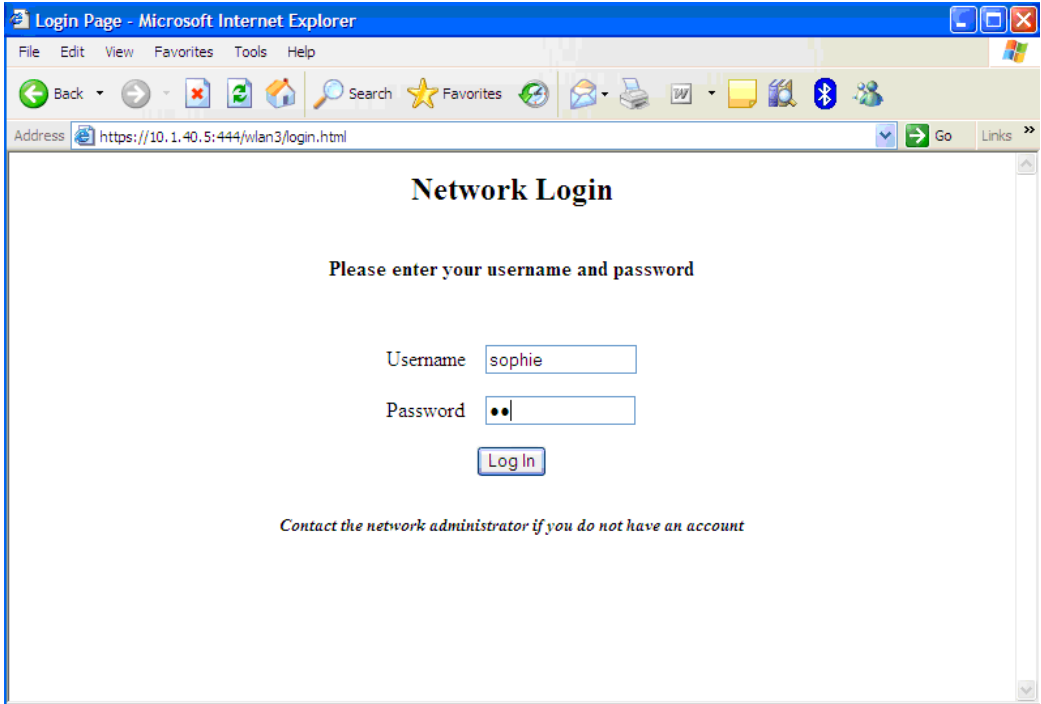
1. From the client PC, connect to the Guests network.



2. Check that you obtain an IP address of 10.1.60.x.

```
C:\Documents and Settings\john>ipconfig  
Windows IP Configuration  
  
Ethernet adapter Wireless Network Connection:  
  
    Connection-specific DNS Suffix  . :  
    IP Address . . . . . : 10.1.60.100  
    Subnet Mask . . . . . : 255.255.255.0  
    Default Gateway . . . . . : 10.1.60.1
```

3. Now open a web browser and try to reach an internal address (e.g. 10.1.10.10). You are redirected to the secure Network Login page on the WESM.



4. Enter your username and password. Confirm that you are authenticated.

5. Web page customization

On the Authentication setup page, you can click the Config button if you want to customize the Web authentication page:

Network Setup > WLAN Setup > Edit > Web-Auth

Web-Auth

This WLANs Web Pages are of the **Internal** type.

Internal (Generated) Web Page

Login Welcome Failed

Title Text: Login Page

Header Text: HP Intel Hotspot Login

Footer Text: Contact the infrastructure team if you do not

Small Logo URL: http://www.hpintelco.net/images/logos/logo_hpintelco.gif

Main Logo URL:

Descriptive Text: Please enter your username and password

Information

A simple auto-generated set of web pages are created based on the provided fields.

Three separate web pages are provided for 1) logging the user in, 2) welcoming the user after logging in successfully, and 3) informing the user of a failed login attempt.

Allow List

0.0.0.0
0.0.0.0
0.0.0.0
0.0.0.0
0.0.0.0
0.0.0.0
0.0.0.0
0.0.0.0
0.0.0.0
0.0.0.0
0.0.0.0

. . . Change

Status:

OK Cancel Help

The web page will now include the corporate logo:



HP Intel Hotspot Login

Please enter your username and password

Username

Password

Log In

Contact the infrastructure team if you do not have an account

This concludes the procedure for enabling a wireless guest. If you have questions, additional information can be found in these sources:

- ProCurve Wireless Edge Services Management and Configuration Guide:
<http://cdn.procurve.com/training/Manuals/WESM-zl-MgmtCfg-Feb2008-59918626.pdf>
- Other manuals for the ProCurve Wireless Edge Services Module: www.hp.com/rnd/support/manuals/wireless_zl.htm
- Firmware versions used:
 - K.13.09 on ProCurve Switch 5406zl
 - WT.01.15 on ProCurve Wireless Edge Services Module zl
- Network management software versions:
 - ProCurve Manager Plus (PCM+) 2.3
 - ProCurve Mobility Manager (PMM) 2.0
- Operating systems:
 - On server machine: Microsoft® Windows® Server 2003 Enterprise Edition with latest service packs and updates
 - On client machine: Windows XP Service Pack 3 with latest updates

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