

Part I: How to Setup Ruckus Zoneflex 7372 for WAD Servers



TABLE OF CONTENTS

- 0. Introduction
- 1. How to setup the Ruckus ZF 7372 with the DHCP server enabled
- 2. How to setup the Ruckus ZF 7372 with the DHCP server disabled

0. Introduction

Ruckus Zoneflex 7372 (Ruckus ZF 7372) is a powerful Access Point (AP) that has a DHCP server inside to work as both a router and a AP. It also has the Beamflex Technology for its radio transmission covering a wide area and more than 500 customer logins. For more detail description of the AP, please refer to [Ruckus Zoneflex 7372 Data Sheet](#).

The Ruckus ZF 7372 can work together with Ruckus Zone Director when deployed in multiple units. But it can also work without the Zone Director as a stand-alone single unit or standalone multiple units. For any question, please contact us at sales@cinet.com or 1-747-220-0120. Getting support from the Ruckus Wireless company itself is the worst part of the company as the company somehow likes to charge for the techsupport requested on their own products. Way to go, Ruckus!

There are two settings of the Ruckus ZF 7372 we will describe. First is when the Ruckus ZF 7372 is used with the WAD-110 or WAD-120 unit and the DHCP server inside the WAD unit is enabled. In this case, the DHCP server inside the Ruckus ZF 7372 must be disabled and the Ruckus ZF 7372 must be configured to work as only an access point. The WAD server will control and assign the IP addresses in the network.

The second case is when using the WAD-110 or WAD-120 unit with the DHCP server disabled inside. In this case, the DHCP server inside the Ruckus ZF 7372 must be enabled and configured to work as a router.

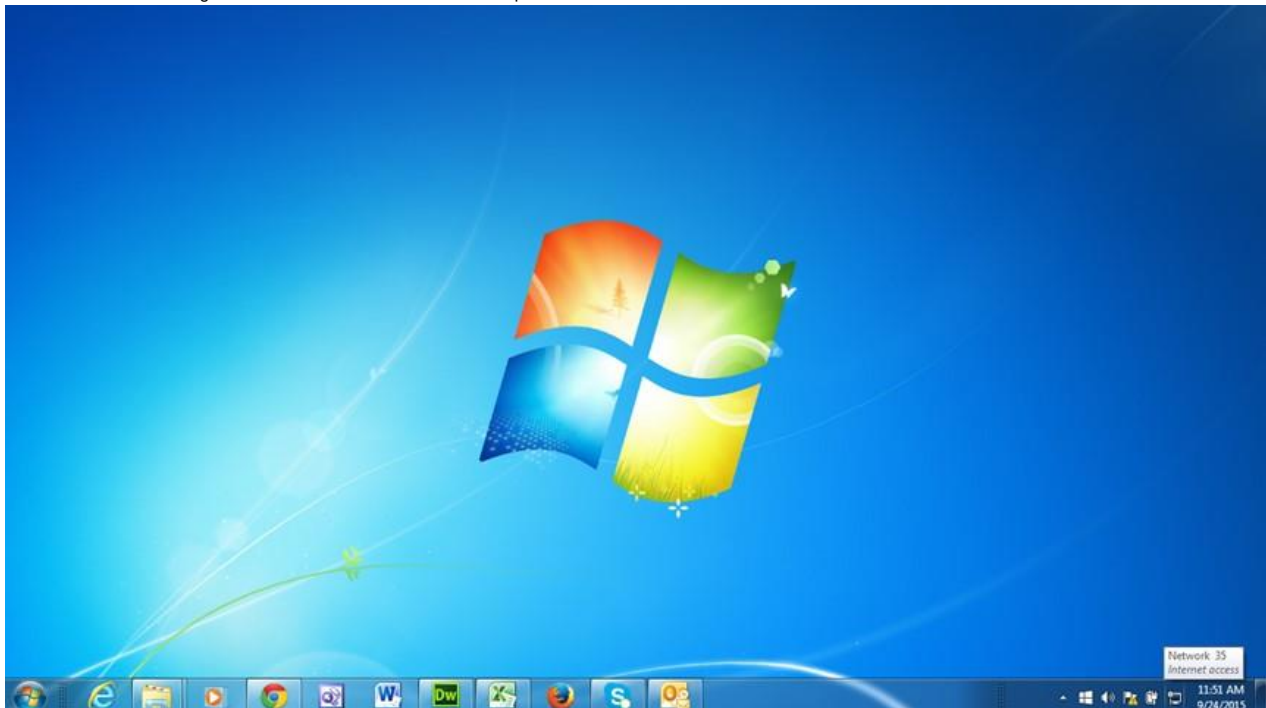
For the WAD-104 unit, which does not have a DHCP server inside, the Ruckus ZF 7372 must have its DHCP server enabled and work as a router always, as in the second case.

1. How to setup the Ruckus ZF 7372 with the DHCP server enabled.

Following the Quick Setup Guide that comes in the package, connect the Ruckus ZF 7372 to a laptop or a PC. We assume that the Ruckus ZF 7372 has the factory default settings. If not, please reset the Ruckus ZF 7372 to the factory default.

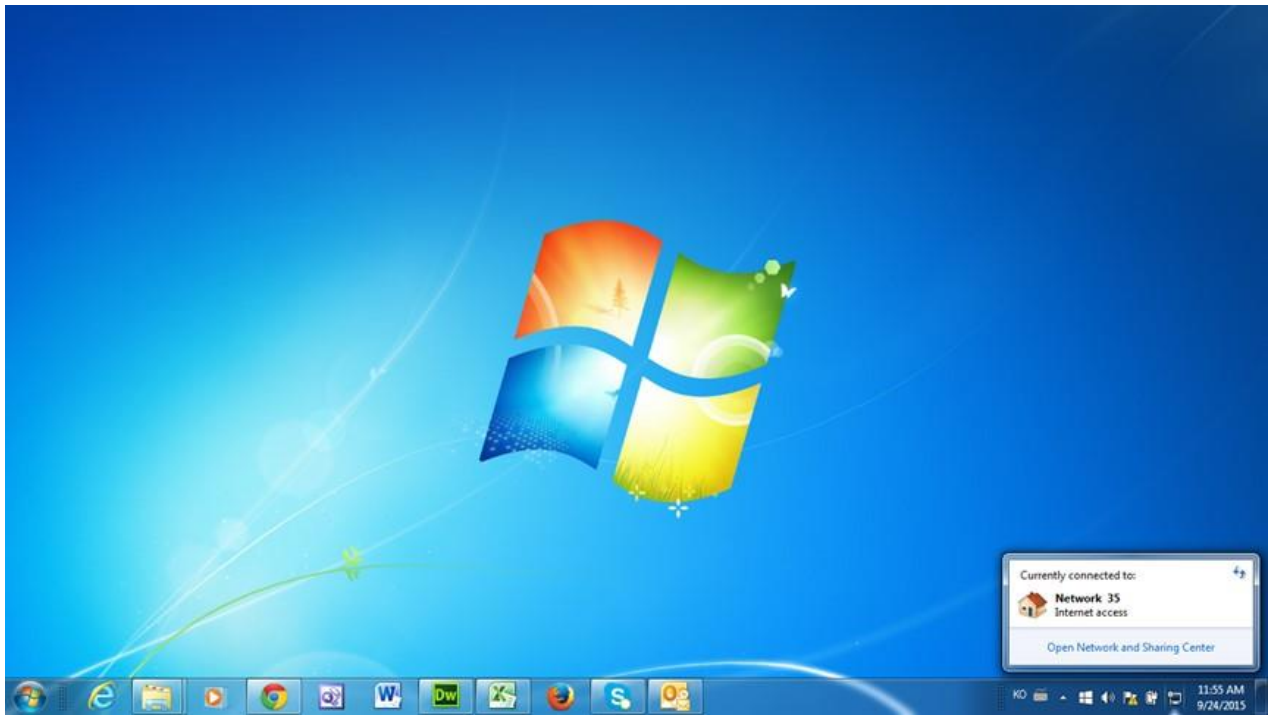
1.1

Go to the Internet Access icon in the right bottom corner of the Windows desktop.



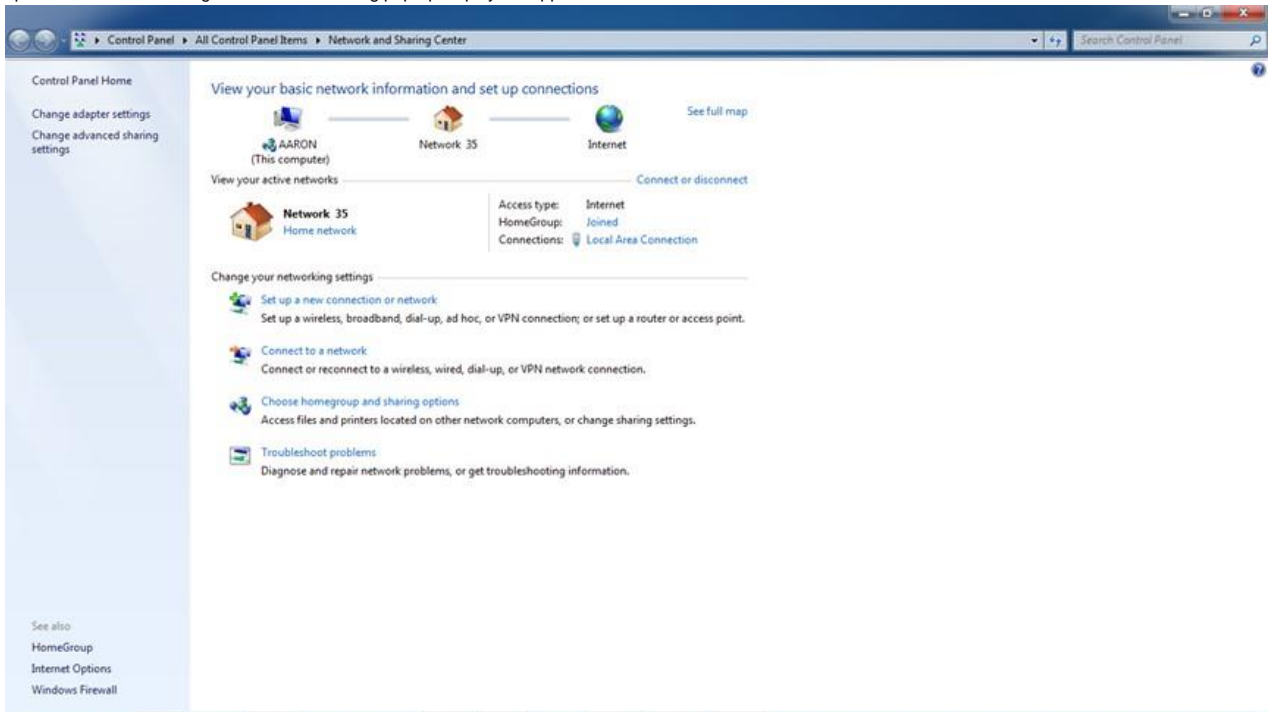
1.2

Click on the Internet Access icon and a pop-up display will appear.



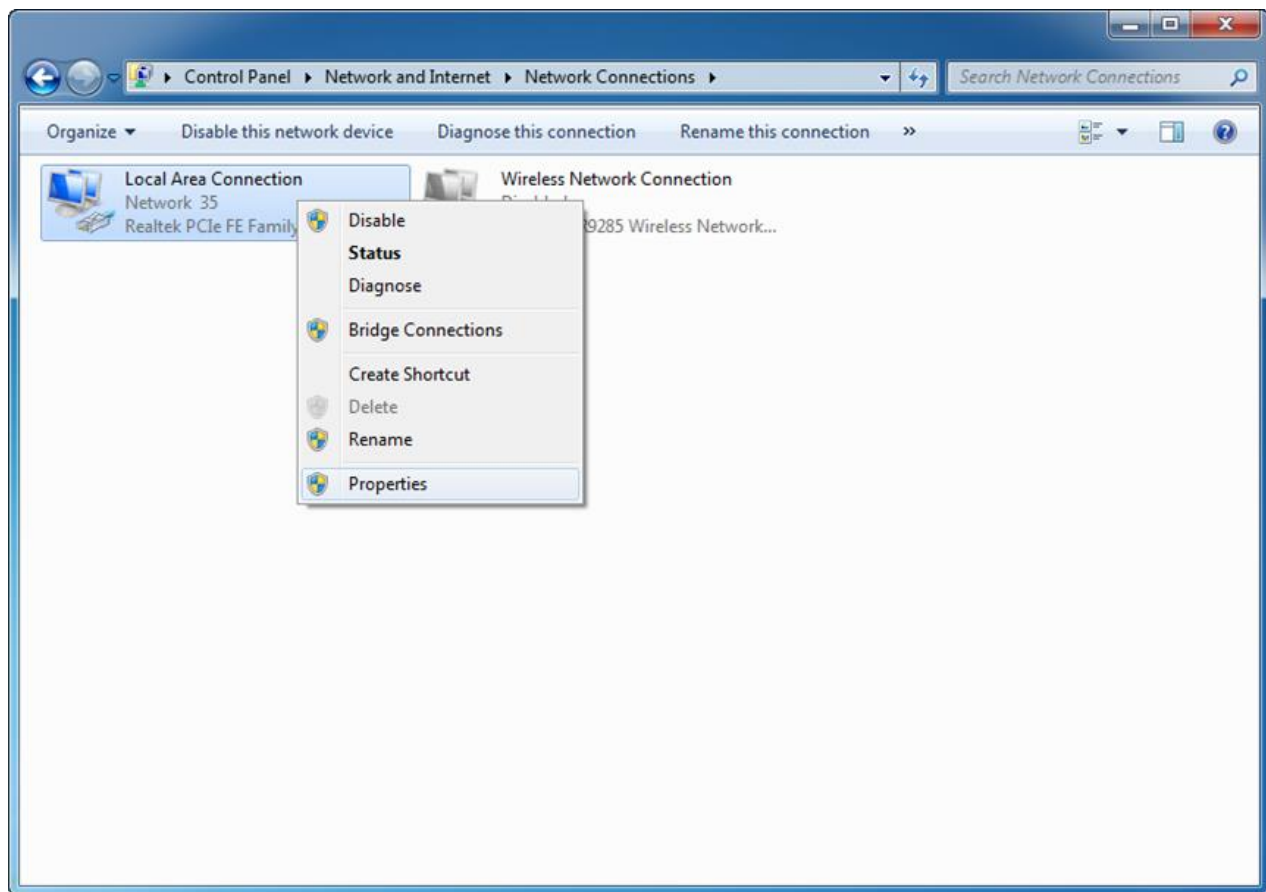
1.3

Click on the Open Network and Sharing Center. The following pop-up display will appear.



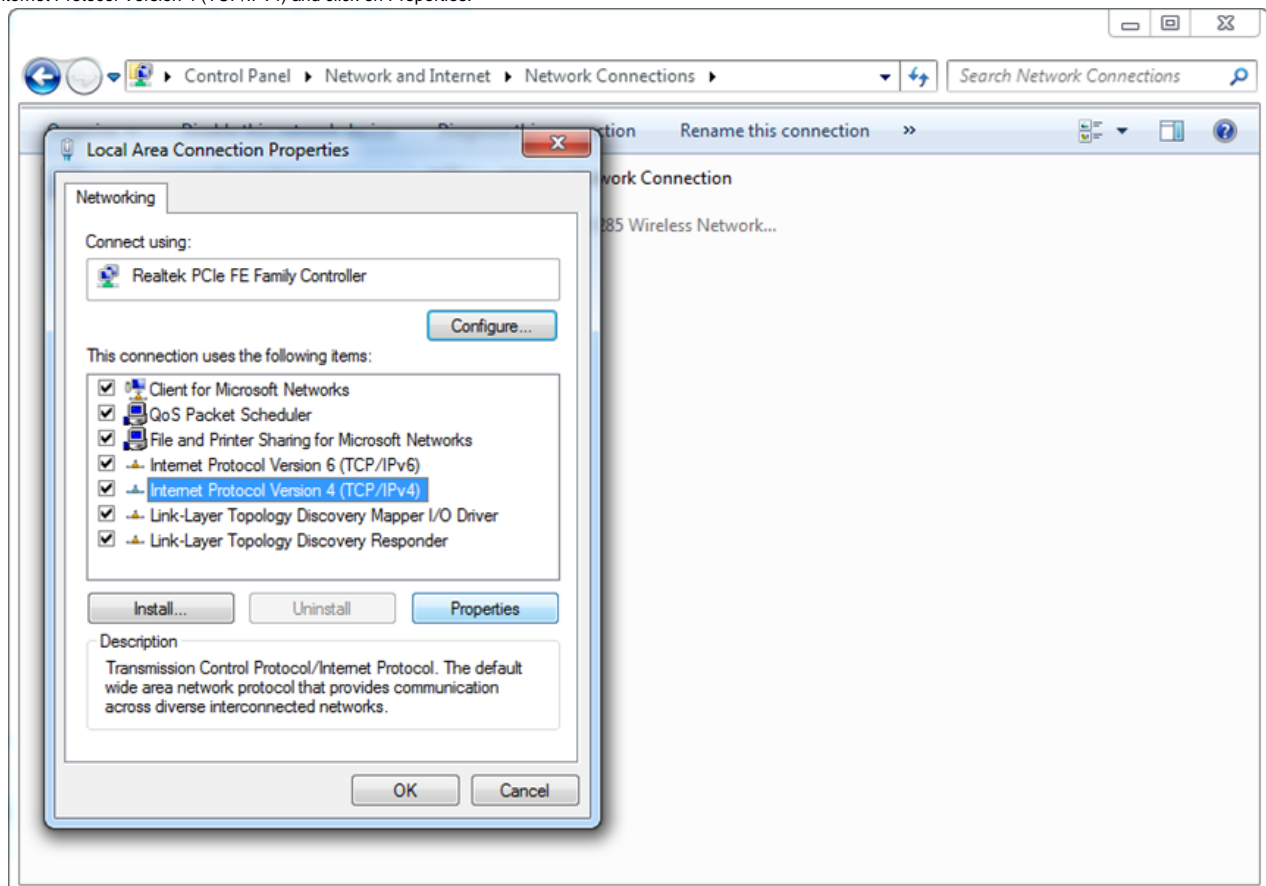
1.4

Click on the Change adapter settings. The following pop-up display will appear. Right-click on the Local Area Connection and select Properties.



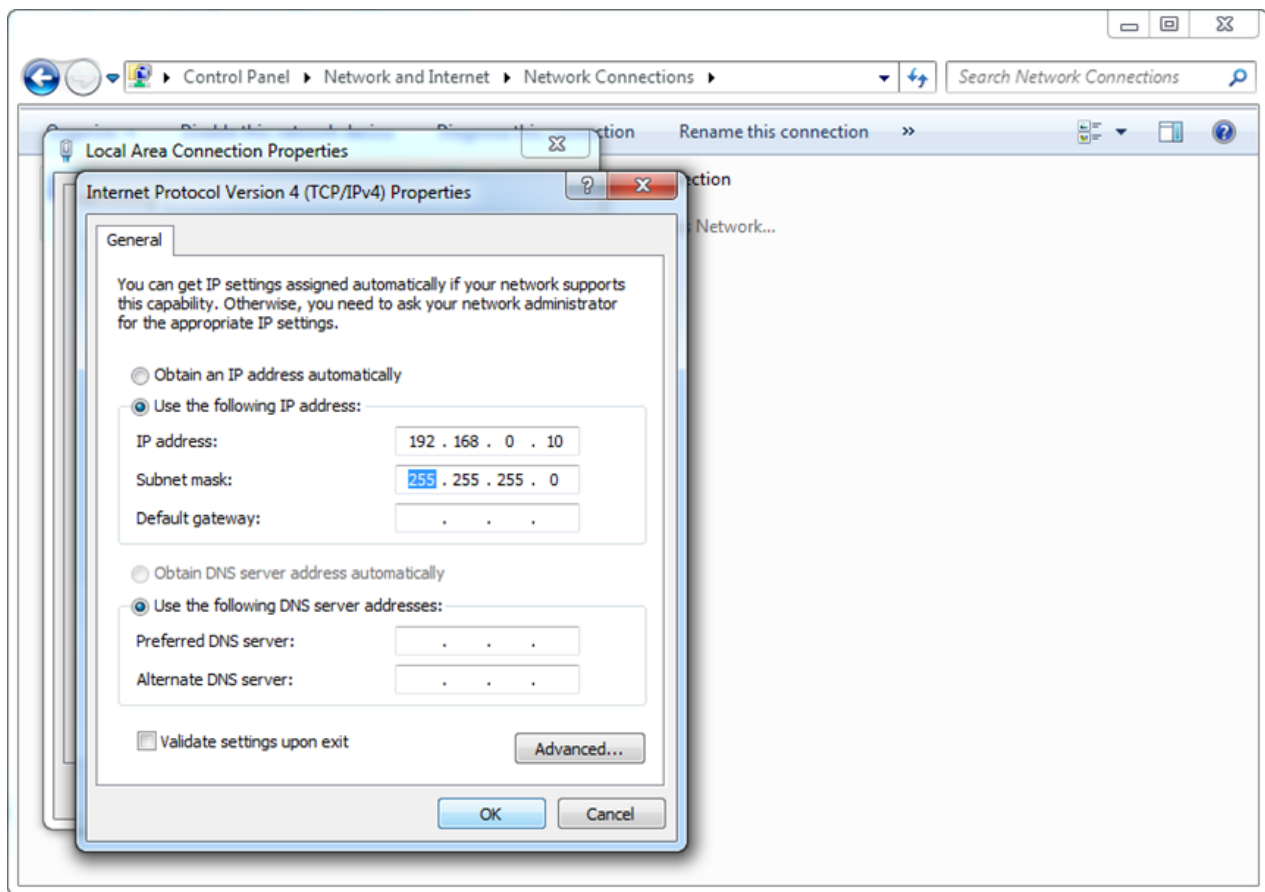
1.5

Select the Internet Protocol Version 4 (TCP/IPv4) and click on Properties.

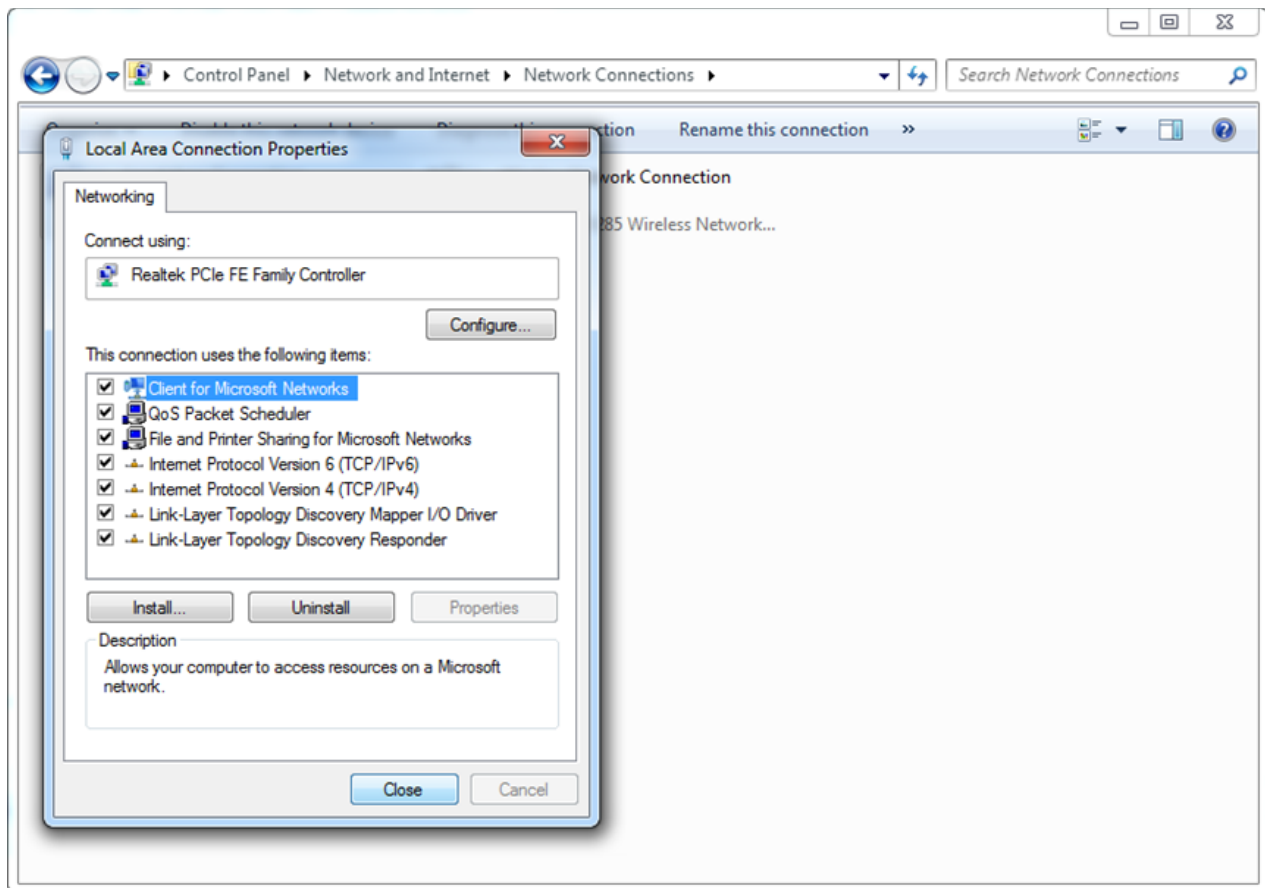


1.6

Select Use the following IP address and input 192.168.0.10 followed by the Subnet mask 255.255.255.0. Press OK.

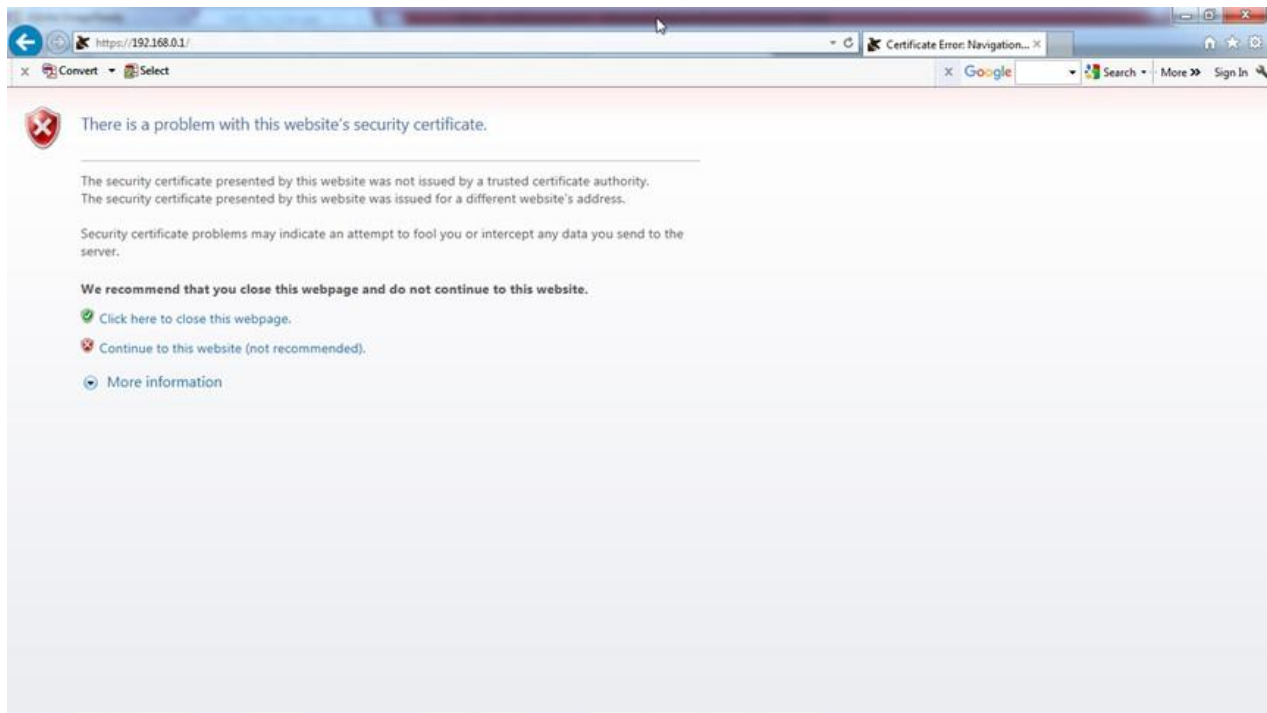


1.7 Press
Close.



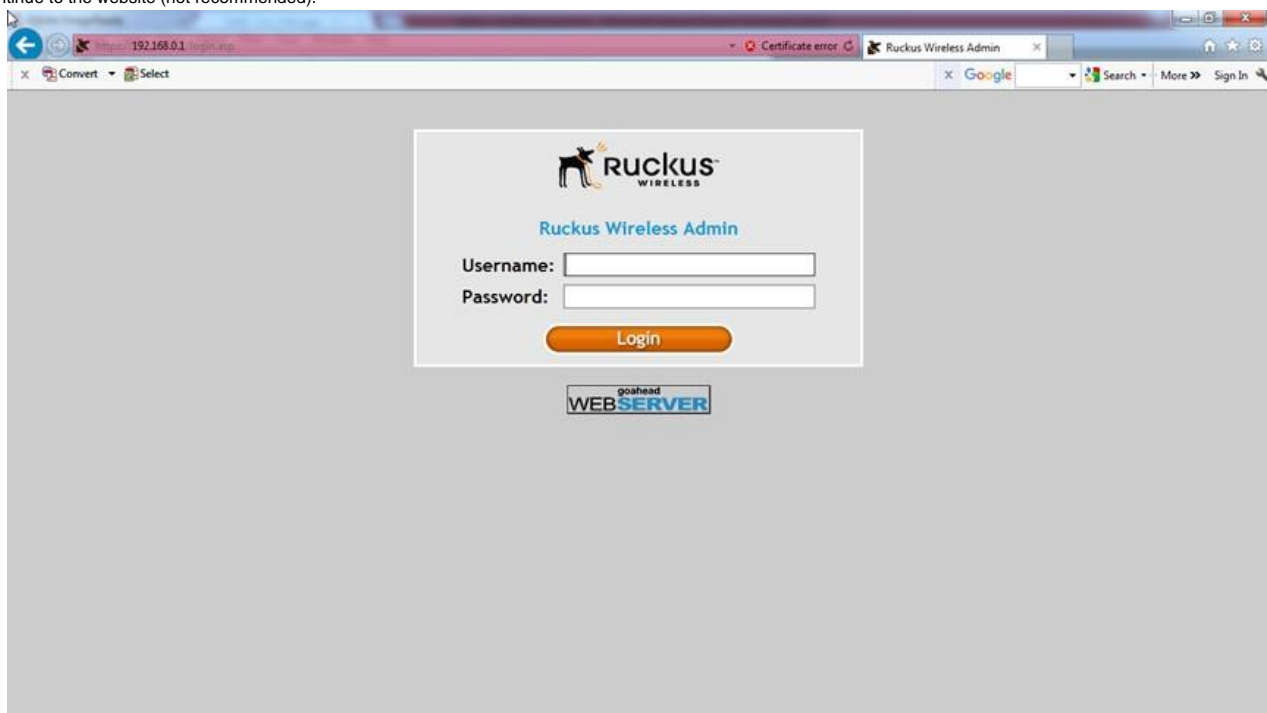
1.8

Next open the Internet Explorer and input into the URL field 192.168.0.1. You will see the following message.



1.9

Click on Continue to the website (not recommended).



1.10

Input the Username: super and Password: sp-admin to enter the Ruckus Wireless Admin. Select Local Subnets under Configuration.

Browser address bar: <https://192.168.0.1/index.asp> Certificate error Ruckus Wireless Admin

Ruckus 7372 Multimedia Hotzone Wireless AP LOGOUT

Status

- Device
- Internet
- Local Subnets
- Radio 2.4G
- Radio 5G

Configuration

- Device
- Internet
- Local Subnets
- Radio 2.4G
- Radio 5G
- Ethernet Ports
- Hotspot

Maintenance

- Upgrade
- Reboot / Reset
- Support Info

Administration

- Management
- Diagnostics
- Log

Status :: Device Need Help?

Device Name: RuckusAP

Device Location:

GPS Coordinates:

USB Software vid-pid:

USB Software Version:

MAC Address: 84:18:3A:0E:A9:F0

Serial Number: 191402000100

Software Version: 9.6.1.0.15

Uptime: 22 mins 56 secs

Current Time (GMT): Sat Sep 19 19:27:50 2015

Port	Interface	802.1X	Logical Link	Physical Link	Label
0	eth0	None	Down	Down	10/100
1	eth1	None	Up	Up 100Mbps full	10/100/1000 PoE

Ruckus 7372 Multimedia Hotzone Wireless AP © Copyright 2015 Ruckus Wireless

1.11

Click on the Enable button.

Browser address bar: <https://192.168.0.1/index.asp> Certificate error Ruckus Wireless Admin

Ruckus 7372 Multimedia Hotzone Wireless AP LOGOUT

Status

- Device
- Internet
- Local Subnets
- Radio 2.4G
- Radio 5G

Configuration

- Device
- Internet
- Local Subnets
- Radio 2.4G
- Radio 5G
- Ethernet Ports
- Hotspot

Maintenance

- Upgrade
- Reboot / Reset
- Support Info

Administration

- Management
- Diagnostics
- Log

Configuration :: Local Subnet :: Local Subnet 1 Need Help?

Local Subnet 1 | Local Subnet 2 | Local Subnet 3 | Local Subnet 4

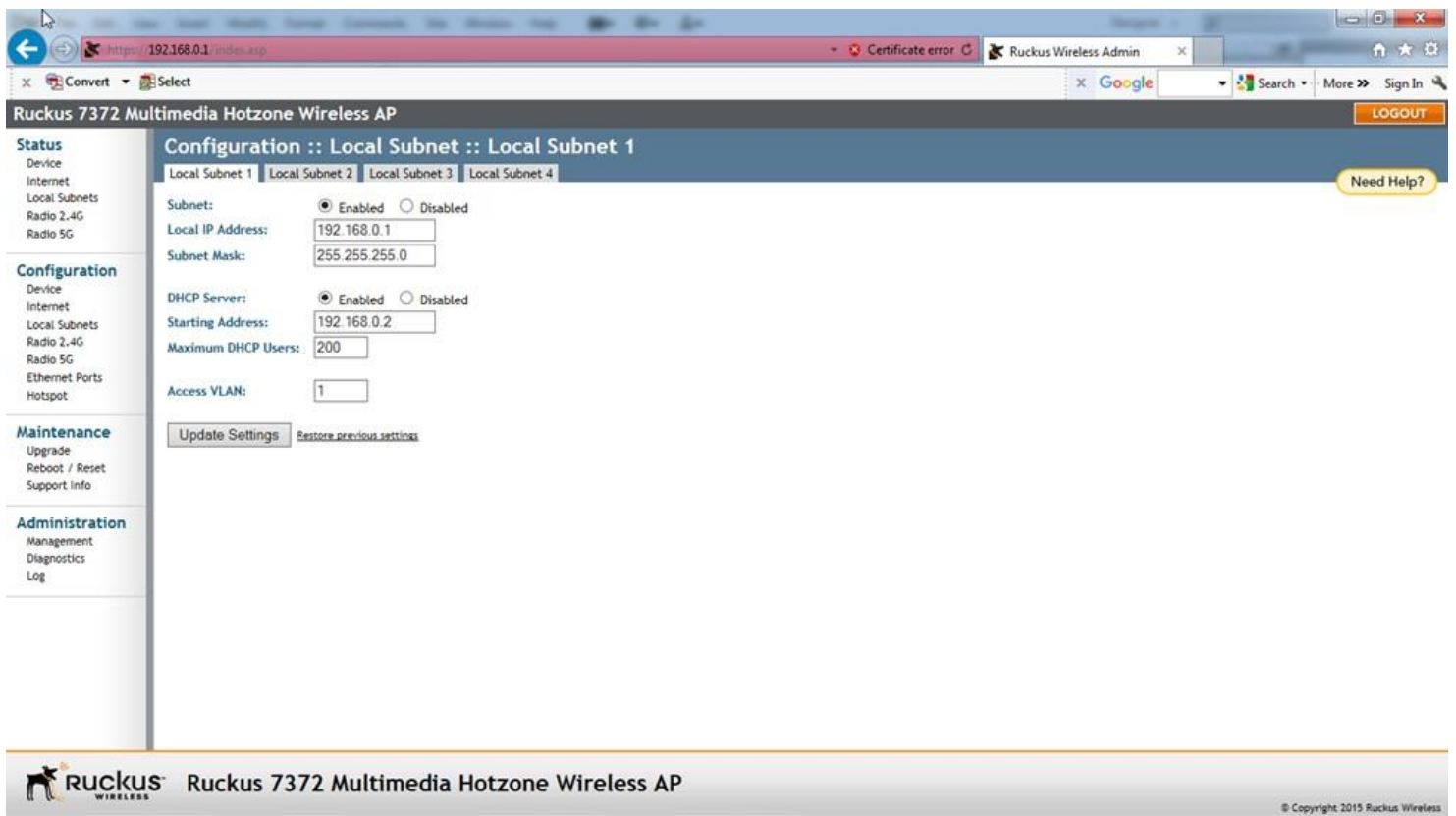
Subnet: ☐ Enabled ☒ Disabled

[Restore previous settings](#)

Ruckus 7372 Multimedia Hotzone Wireless AP © Copyright 2015 Ruckus Wireless

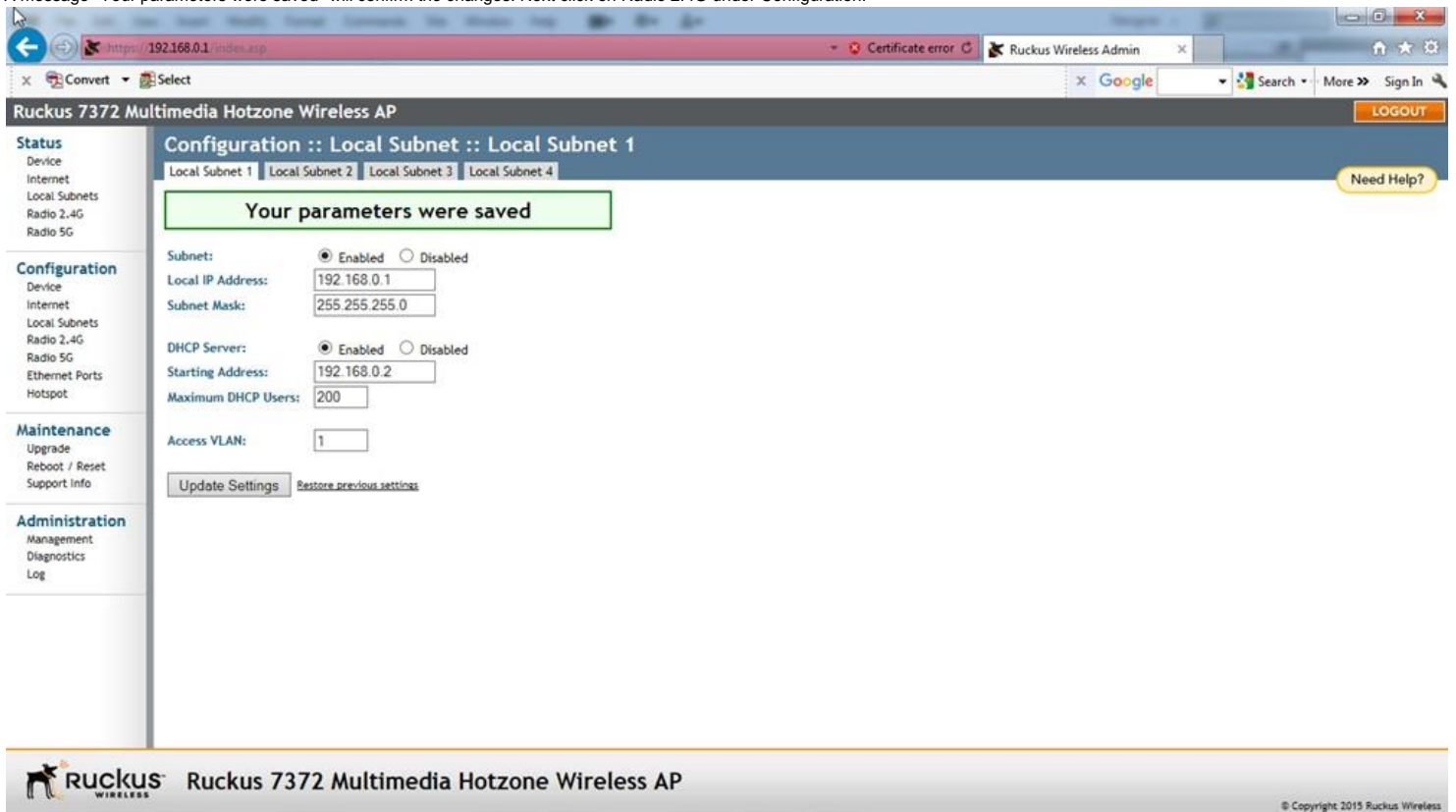
1.12

Fill in the field in the display as shown below. Press the Update Settings button.



1.13

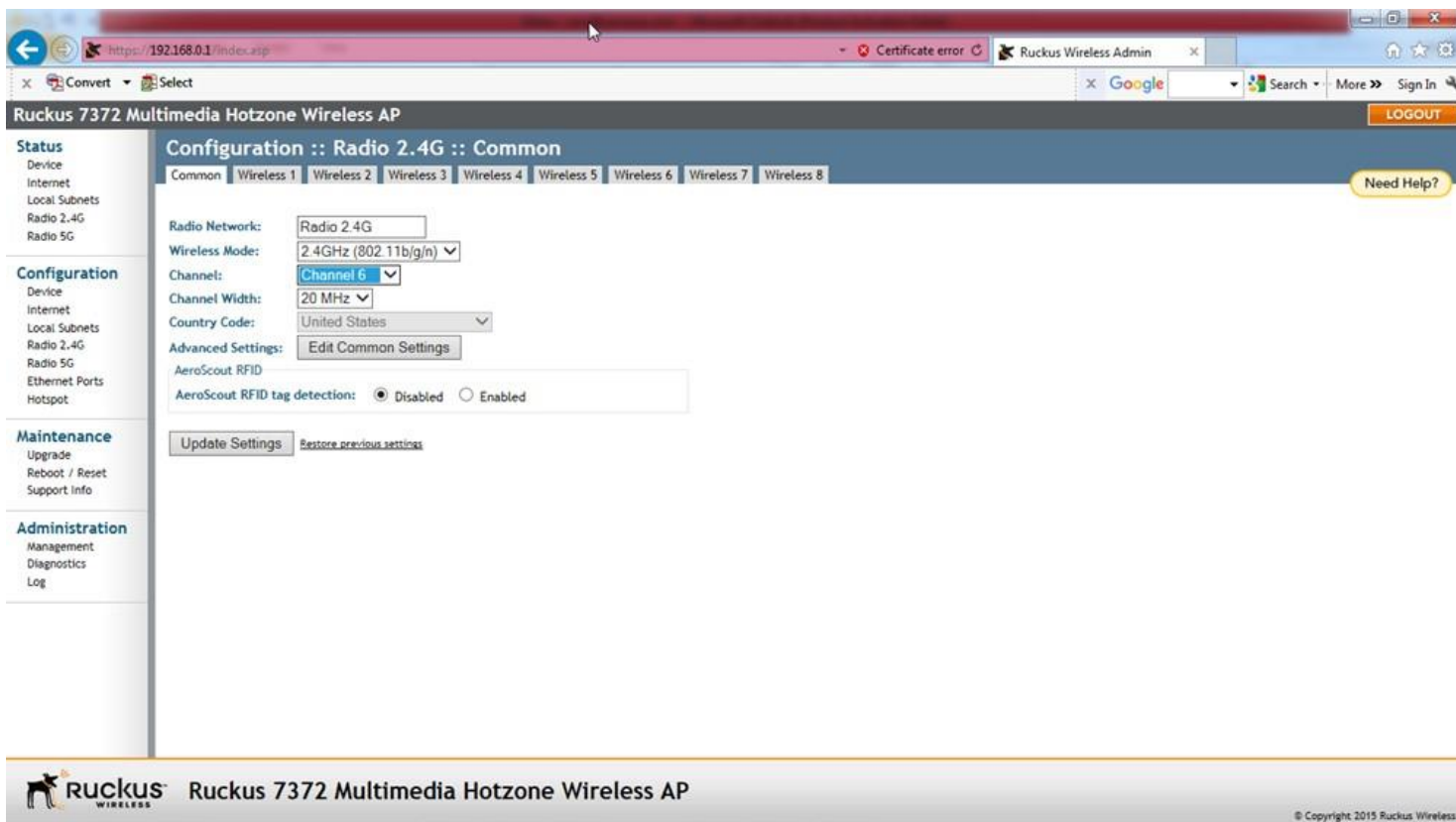
A message "Your parameters were saved" will confirm the changes. Next click on Radio 2.4G under Configuration.



1.14

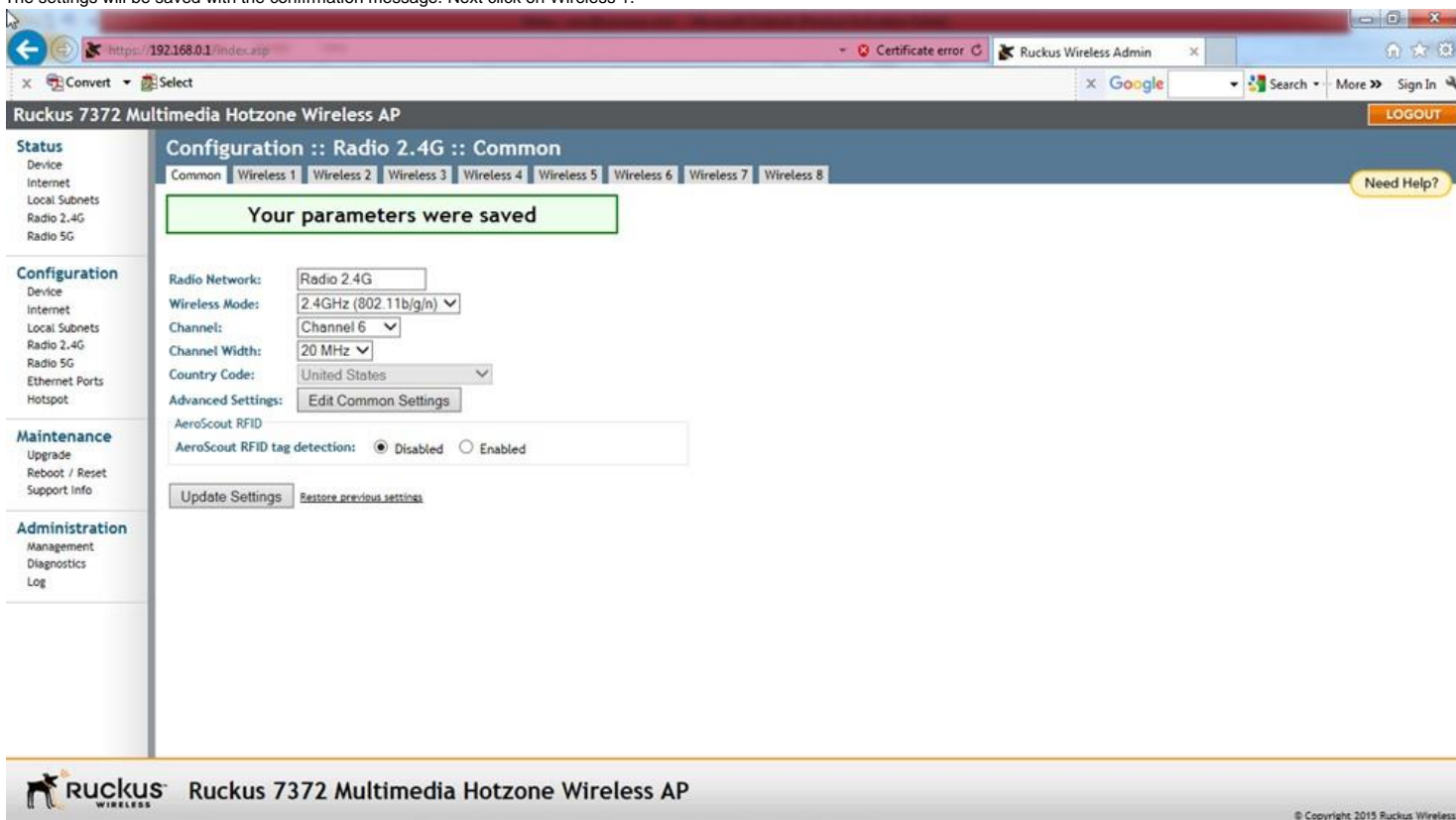
A following display will appear. Click on SmartSelect and change it to any fixed channel 1 - 11. The SmartSelect is to be avoided as it can change the channel in midst of the sound transmission causing glitches and stutters in the audio. As for the channel to which the SmartSelect should change, it is best to select one that is least used in the actual environment. Use an app such as WiFi Analyser for Android or Apple phones to see the channel usage.

In our example, we select Channel 6. Next click on Update Settings button.



1.15

The settings will be saved with the confirmation message. Next click on Wireless 1.



1.16

Click on Enable for Wireless Availability?. Change the values in the remaining fields as shown below. Be sure to copy exactly except for the SSID:. The SSID field, shown below as "Wireless 1", is the network name which will be displayed on the customer's smartphone. The customer will need to connect to the network in order to listen to the TVs. We recommend the SSID field be related to the actual location, such as "BWR Springfield OH".

Press the Update Settings button.

Ruckus 7372 Multimedia Hotzone Wireless AP

Configuration :: Radio 2.4G :: Wireless 1

Common | Wireless 1 | Wireless 2 | Wireless 3 | Wireless 4 | Wireless 5 | Wireless 6 | Wireless 7 | Wireless 8

Wireless Network:

Wireless Availability? ☒ Enabled ☐ Disabled

Broadcast SSID? ☒ Enabled ☐ Disabled

SSID:

Threshold Settings:

Rate Limiting:

Access Control:

Packet Forward:

Hotspot Service:

Local Subnet:

Dynamic VLAN: ☐ Enabled ☒ Disabled

Insert DHCP option 82? ☐ Enabled ☒ Disabled

Client Fingerprinting? ☐ Enabled ☒ Disabled

Encryption Method:

[Restore previous settings](#)

Ruckus Ruckus 7372 Multimedia Hotzone Wireless AP

© Copyright 2015 Ruckus Wireless

1.17

The message "Your parameters were saved" will appear. Next press the Radio 5G under Configuration.

Ruckus 7372 Multimedia Hotzone Wireless AP

Configuration :: Radio 2.4G :: Wireless 1

Common | Wireless 1 | Wireless 2 | Wireless 3 | Wireless 4 | Wireless 5 | Wireless 6 | Wireless 7 | Wireless 8

Your parameters were saved

Wireless Network:

Wireless Availability? ☒ Enabled ☐ Disabled

Broadcast SSID? ☒ Enabled ☐ Disabled

SSID:

Threshold Settings:

Rate Limiting:

Access Control:

Packet Forward:

Hotspot Service:

Local Subnet:

Dynamic VLAN: ☐ Enabled ☒ Disabled

Insert DHCP option 82? ☐ Enabled ☒ Disabled

Client Fingerprinting? ☐ Enabled ☒ Disabled

Encryption Method:

[Restore previous settings](#)

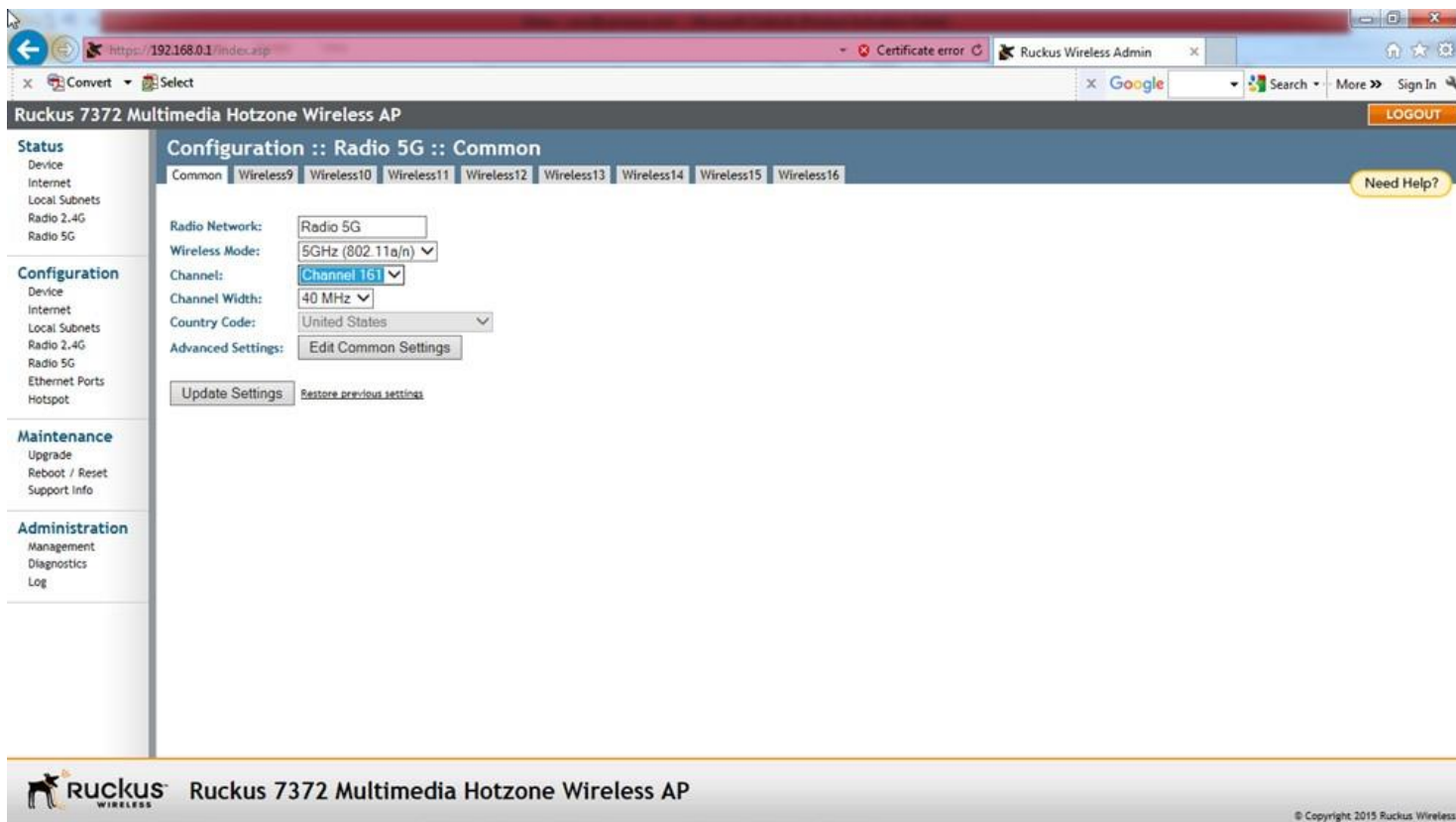
Ruckus Ruckus 7372 Multimedia Hotzone Wireless AP

© Copyright 2015 Ruckus Wireless

1.18

Here we change the SmartSelect to any channel between 145 - 161. We recommend these channels for their less usage in the market. In our example, we selected Channel 161.

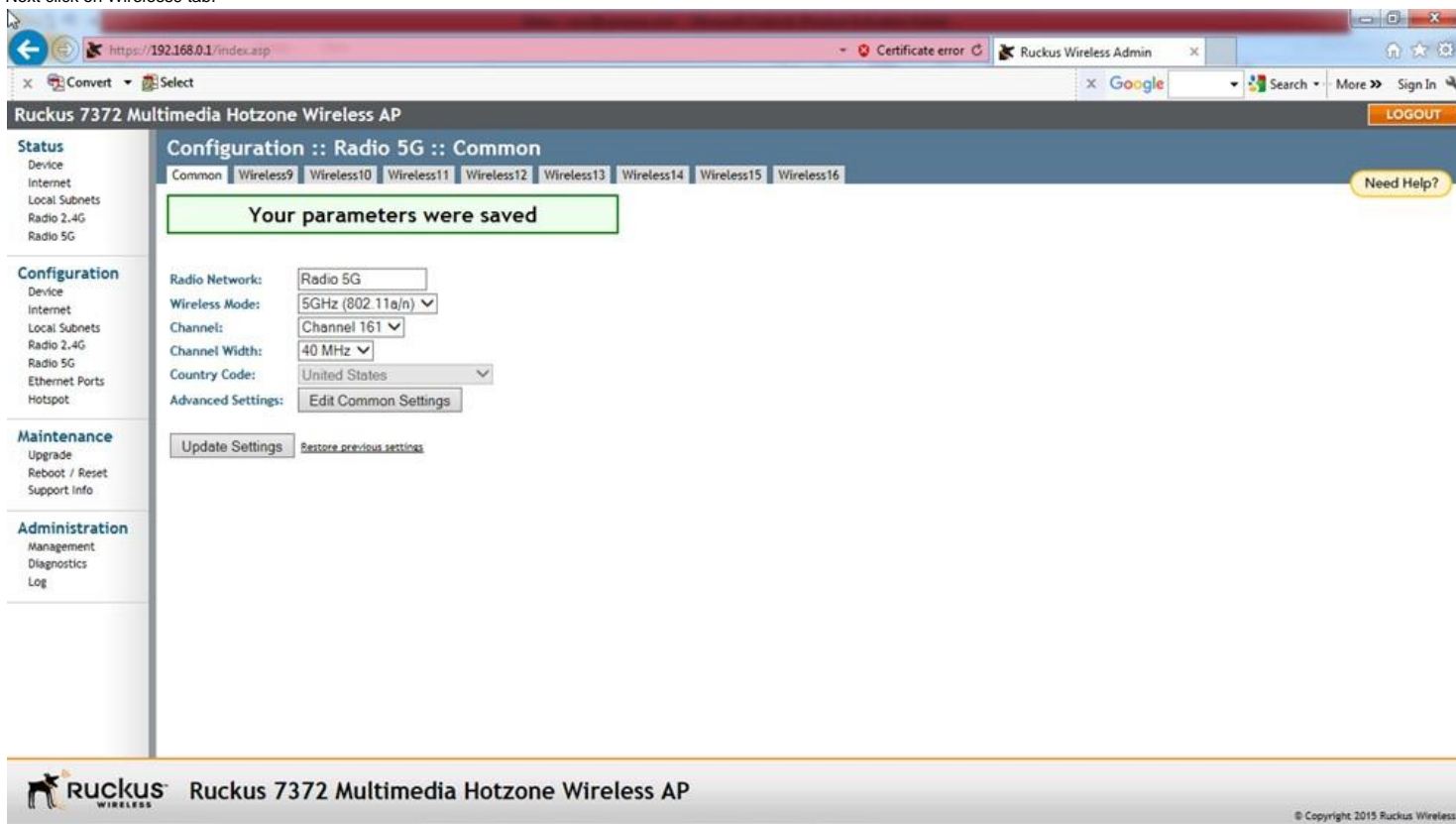
Next click on Update Settings button.



1.19

The settings will be saved with the confirmation message.

Next click on Wireless9 tab.

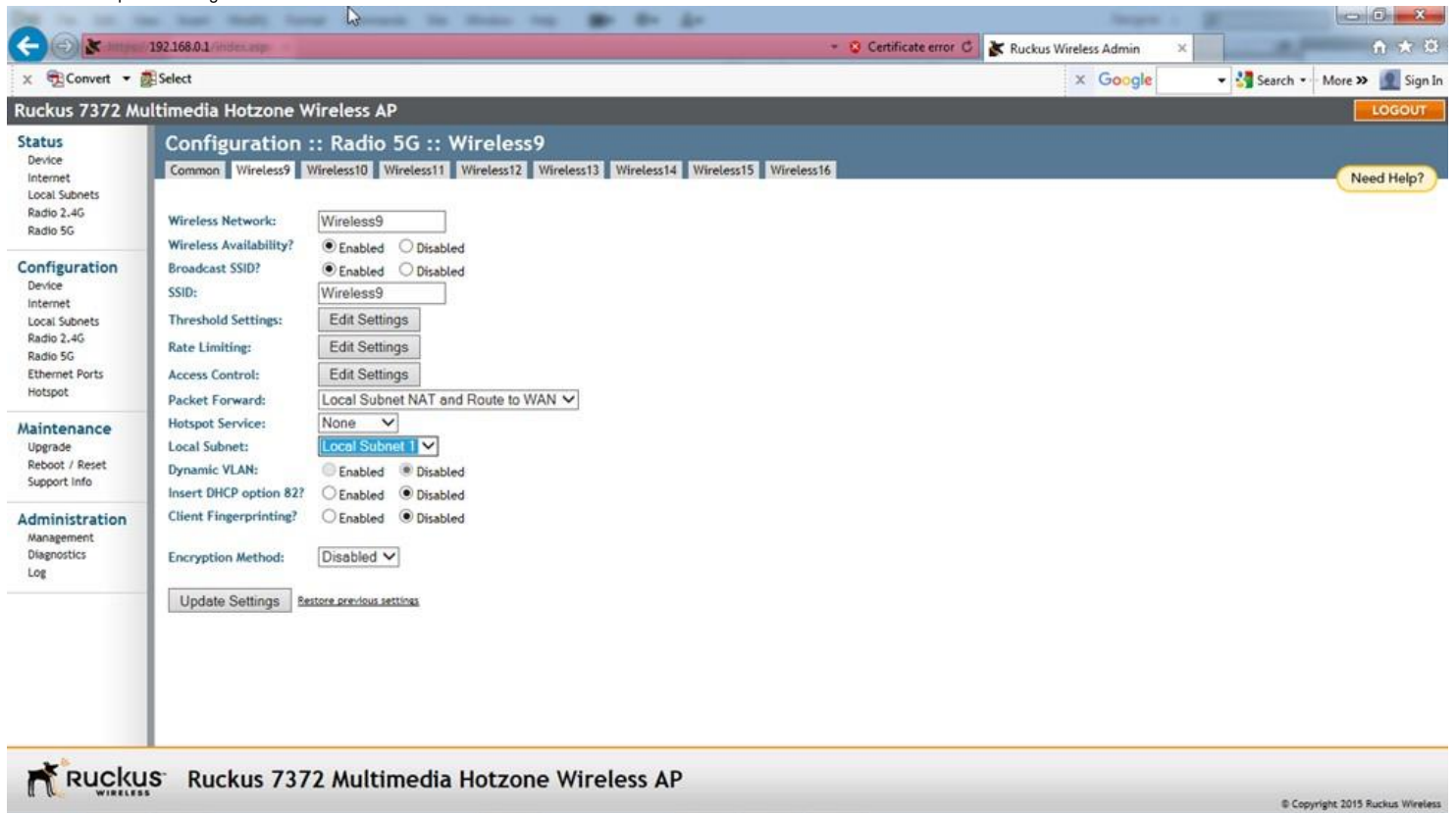


1.20

Click on Enable for Wireless Availability?. Change the values in the remaining fields as shown below. Be sure to copy exactly except for the SSID:. The SSID field, shown below as "Wireless9", is the network name which will be displayed on the customer's smartphone. The customer will need to connect to the network in order to listen to the TVs. We recommend the SSID field be related to the actual location, such as "BWR Springfield OH".

The SSID field setting can be same as the SSID field for the Wireless 1, in which case the 2.4G or 5G frequency assignment will be automatically made depending on the smartphone.

Next click on Update Settings button.



Ruckus 7372 Multimedia Hotzone Wireless AP

Configuration :: Radio 5G :: Wireless9

Common Wireless9 Wireless10 Wireless11 Wireless12 Wireless13 Wireless14 Wireless15 Wireless16

Wireless Network: Wireless9

Wireless Availability? ☒ Enabled ☐ Disabled

Broadcast SSID? ☒ Enabled ☐ Disabled

SSID: Wireless9

Threshold Settings: Edit Settings

Rate Limiting: Edit Settings

Access Control: Edit Settings

Packet Forward: Local Subnet NAT and Route to WAN

Hotspot Service: None

Local Subnet: Local Subnet 1

Dynamic VLAN: ☐ Enabled ☒ Disabled

Insert DHCP option 82? ☐ Enabled ☒ Disabled

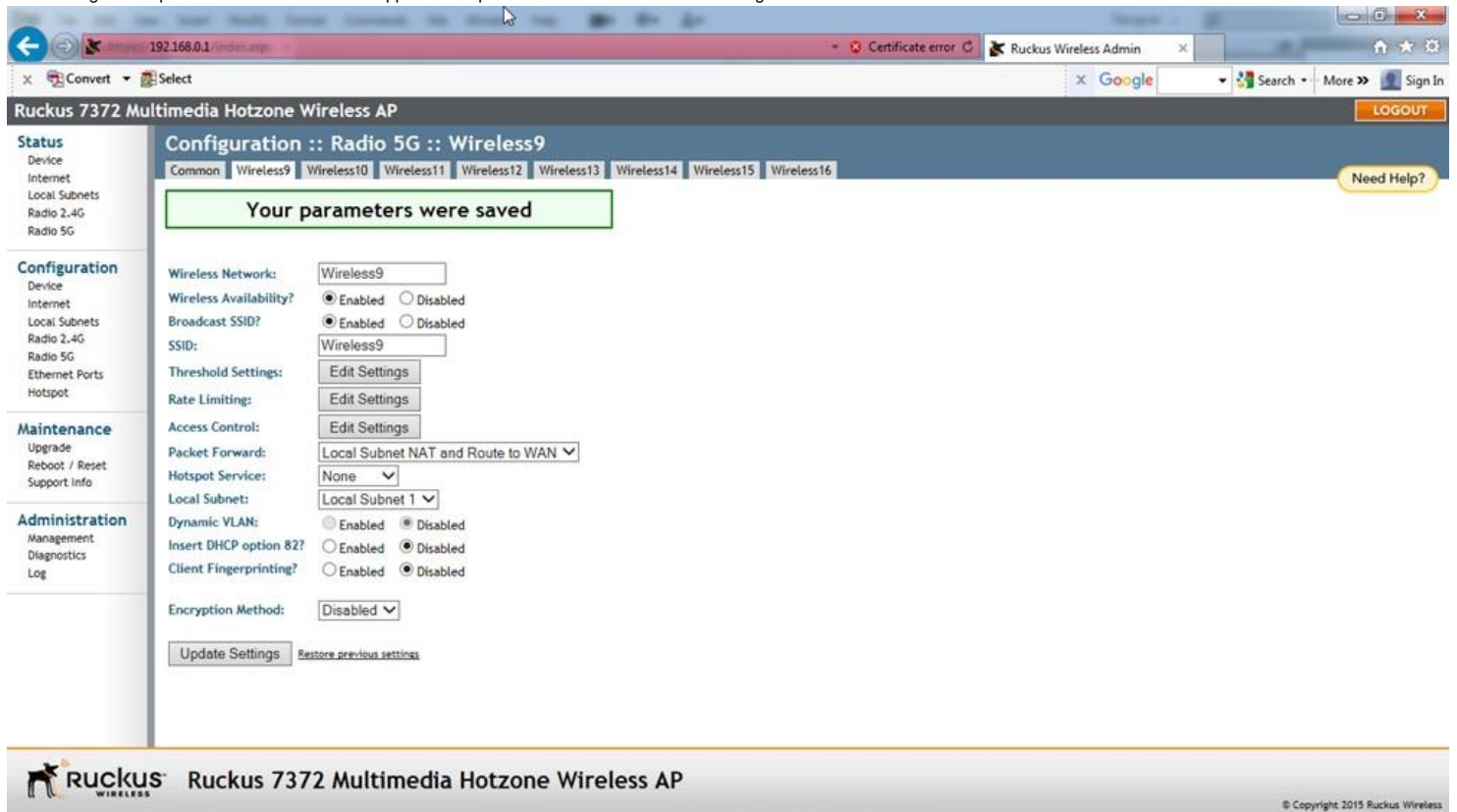
Client Fingerprinting? ☐ Enabled ☒ Disabled

Encryption Method: Disabled

Update Settings Restore previous settings

1.21

The message "Your parameters were saved" will appear. Next press the Ethernet Ports under Configuration.



Ruckus 7372 Multimedia Hotzone Wireless AP

Configuration :: Radio 5G :: Wireless9

Common Wireless9 Wireless10 Wireless11 Wireless12 Wireless13 Wireless14 Wireless15 Wireless16

Your parameters were saved

Wireless Network: Wireless9

Wireless Availability? ☒ Enabled ☐ Disabled

Broadcast SSID? ☒ Enabled ☐ Disabled

SSID: Wireless9

Threshold Settings: Edit Settings

Rate Limiting: Edit Settings

Access Control: Edit Settings

Packet Forward: Local Subnet NAT and Route to WAN

Hotspot Service: None

Local Subnet: Local Subnet 1

Dynamic VLAN: ☐ Enabled ☒ Disabled

Insert DHCP option 82? ☐ Enabled ☒ Disabled

Client Fingerprinting? ☐ Enabled ☒ Disabled

Encryption Method: Disabled

Update Settings Restore previous settings

1.22

Change the settings of Port2 as shown below. Press the Update Settings button. However this time, do not expect a reply from the Ruckus AP.



1.23

Disconnect the POE LAN cable from the Ruckus ZF 7372 to power it off. Reconnect the cable to the Ruckus ZF 7372. Go back to the Step 1.8 to reconnect to the Ruckus ZF 7372. After entering, check the changes made including in the Ethernet Ports, and press the LOGOUT button on the right upper corner to exit.

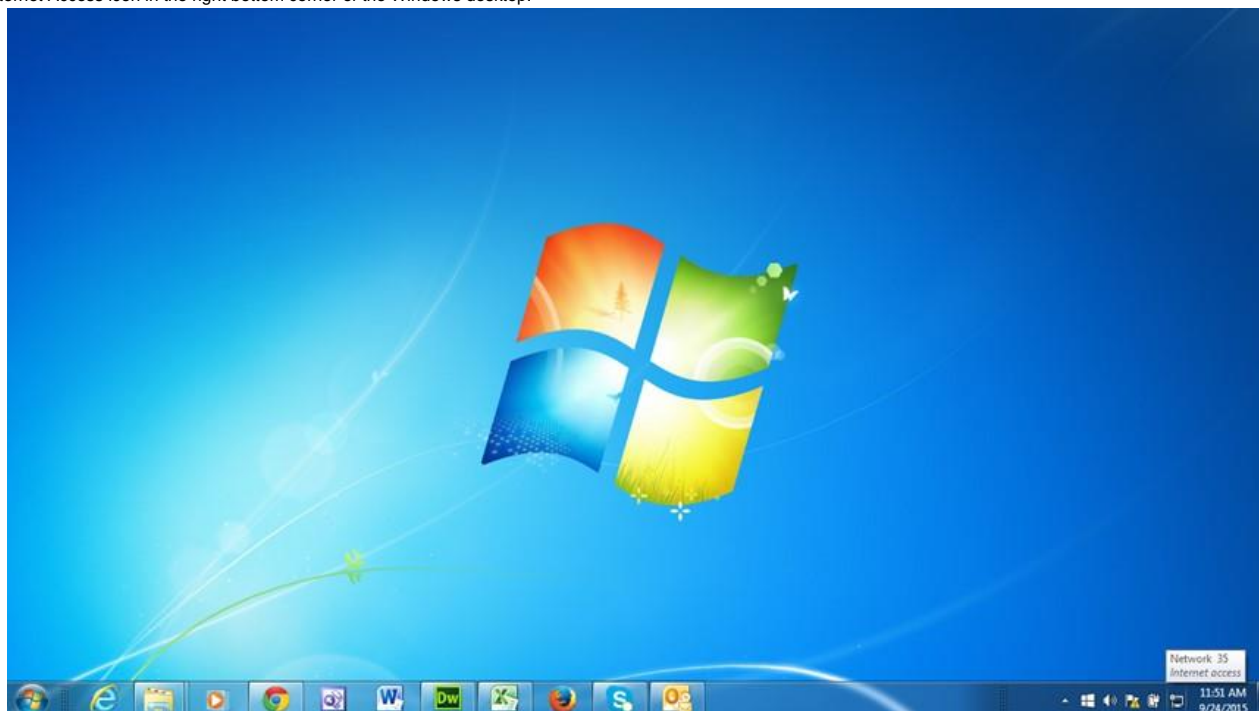
The Ruckus ZF 7372 is ready for use now. Connect the Ruckus ZF 7372 as shown in the User Manual of the WAD server.

2. How to setup the Ruckus ZF 7372 with the DHCP server disabled.

Following the Quick Setup Guide that comes in the package, connect the Ruckus ZF 7372 to a laptop or a PC. We assume that the Ruckus ZF 7372 has the factory default settings. If not, please reset the Ruckus ZF 7372 to the factory default.

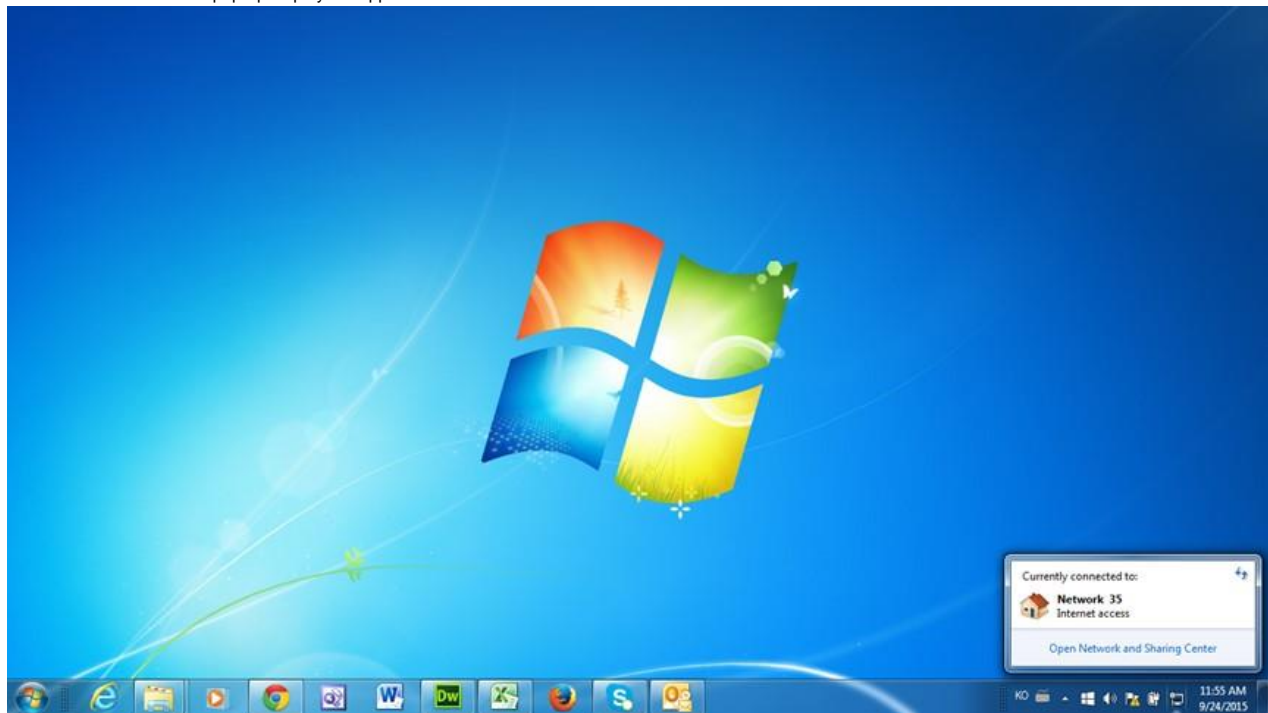
2.1

Go to the Internet Access icon in the right bottom corner of the Windows desktop.



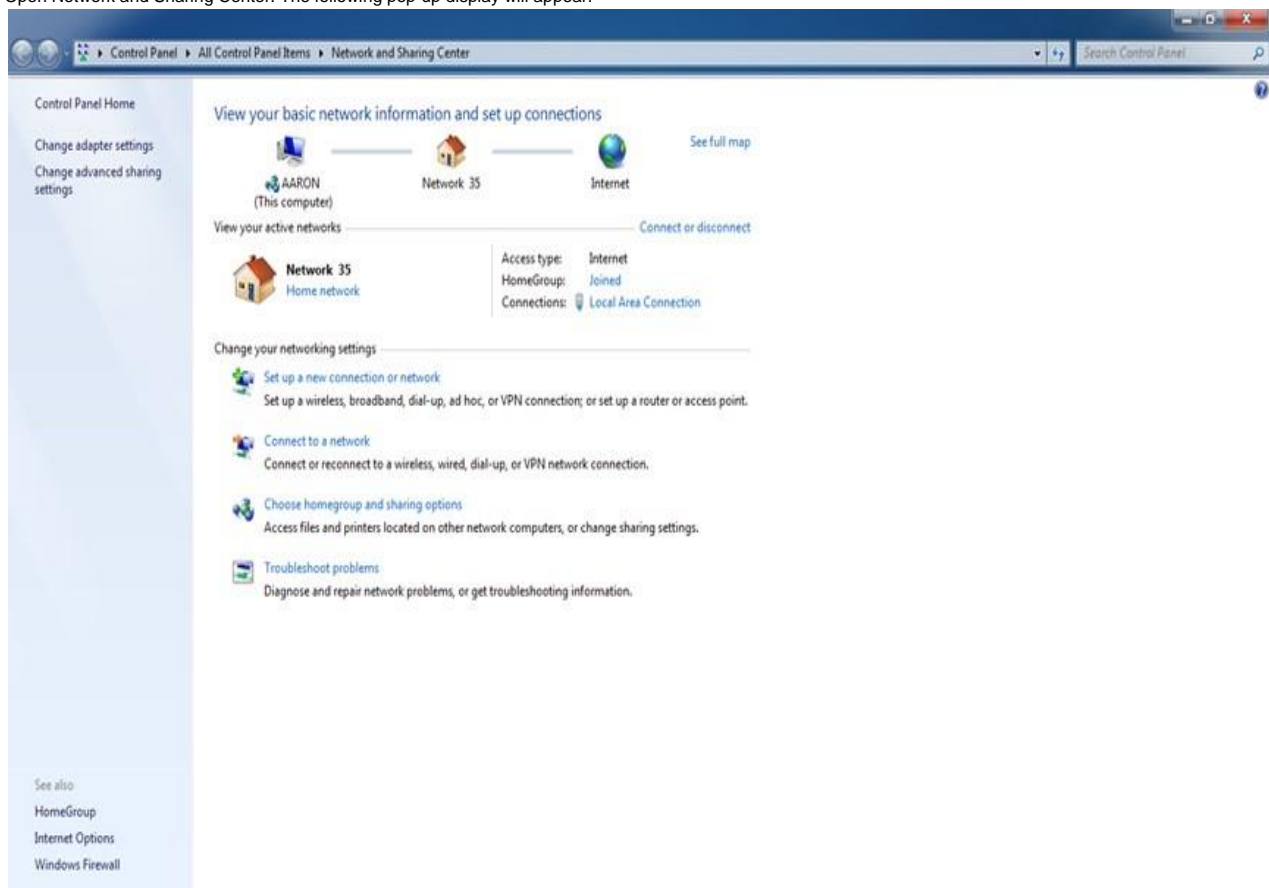
2.2

Click on the Internet Access icon and a pop-up display will appear.



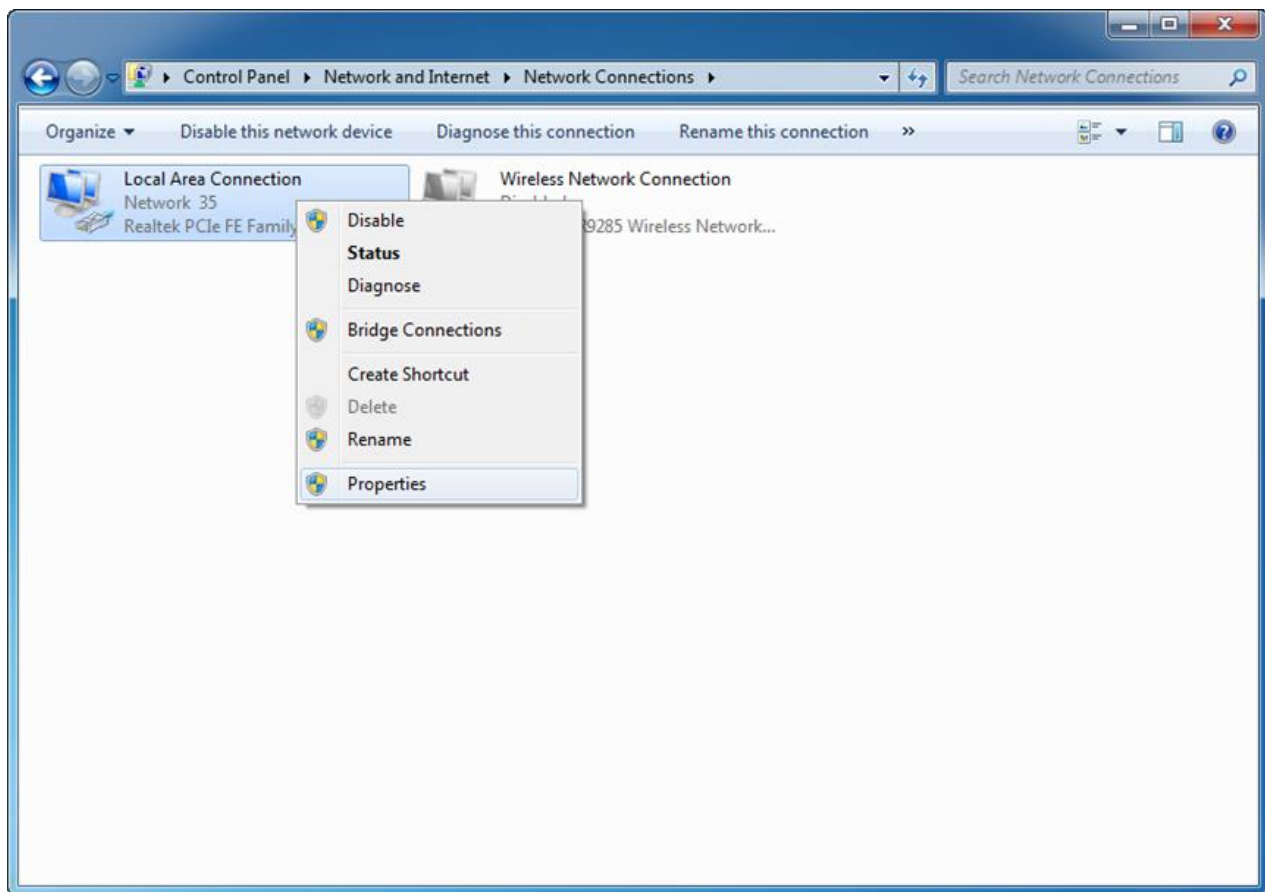
2.3

Click on the Open Network and Sharing Center. The following pop-up display will appear.



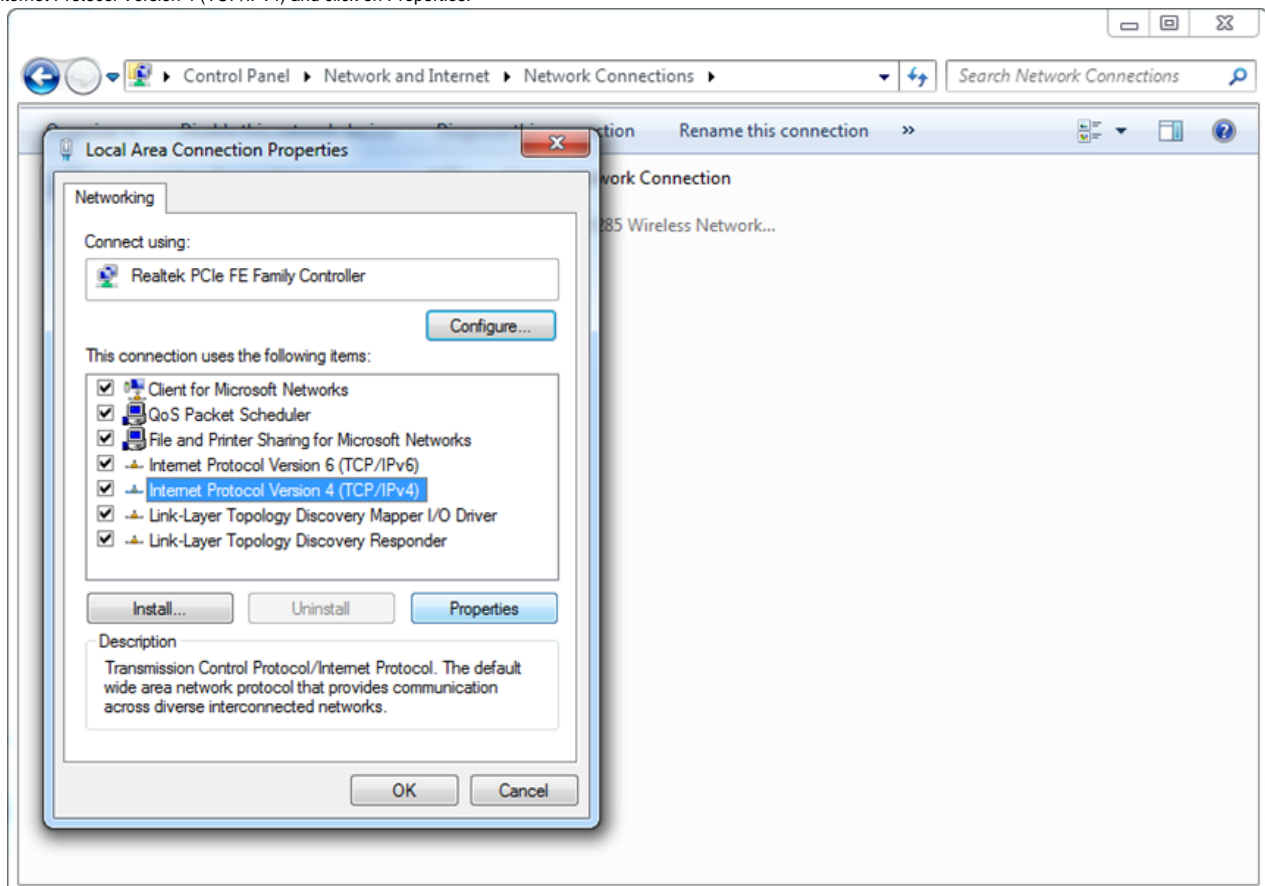
2.4

Click on the Change adapter settings. The following pop-up display will appear. Right-click on the Local Area Connection and select Properties.



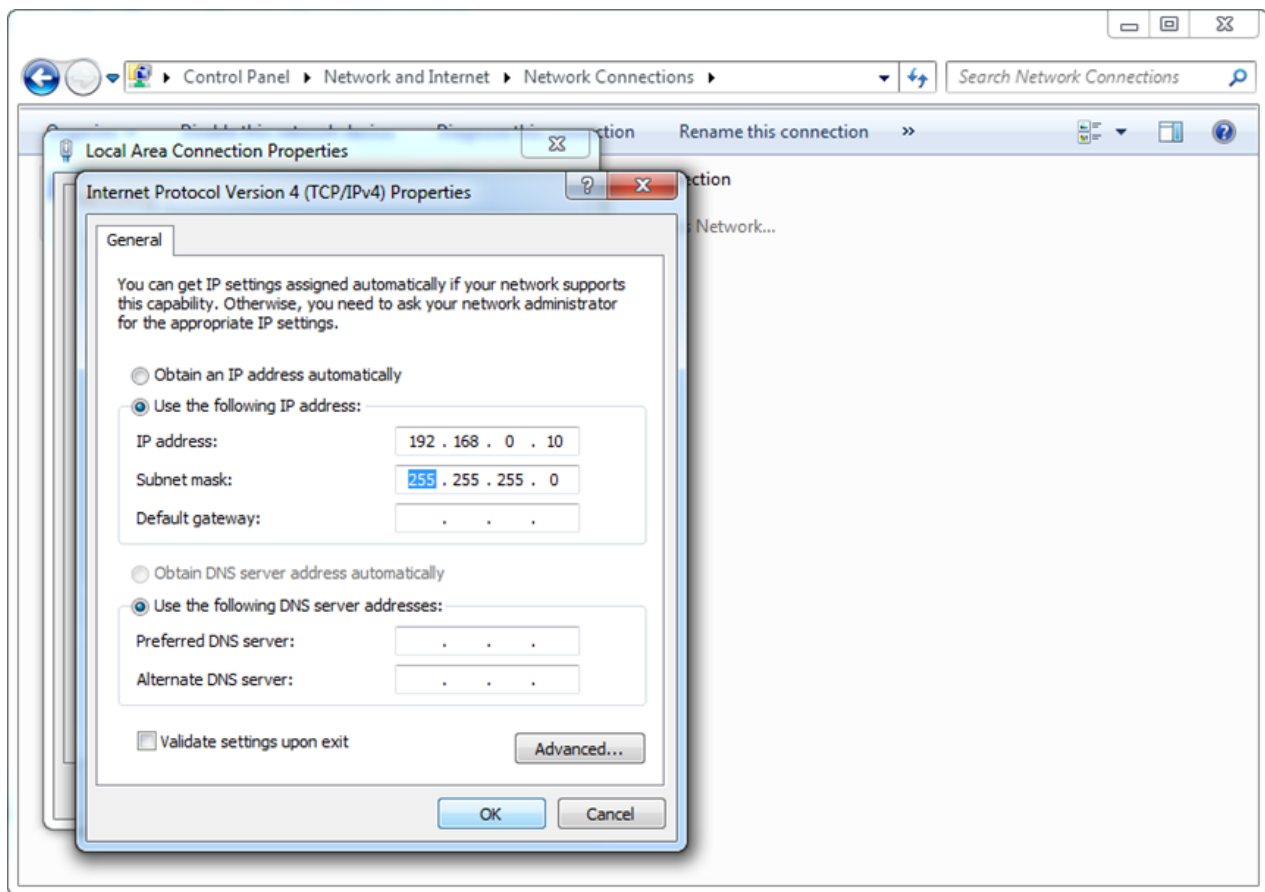
2.5

Select the Internet Protocol Version 4 (TCP/IPv4) and click on Properties.

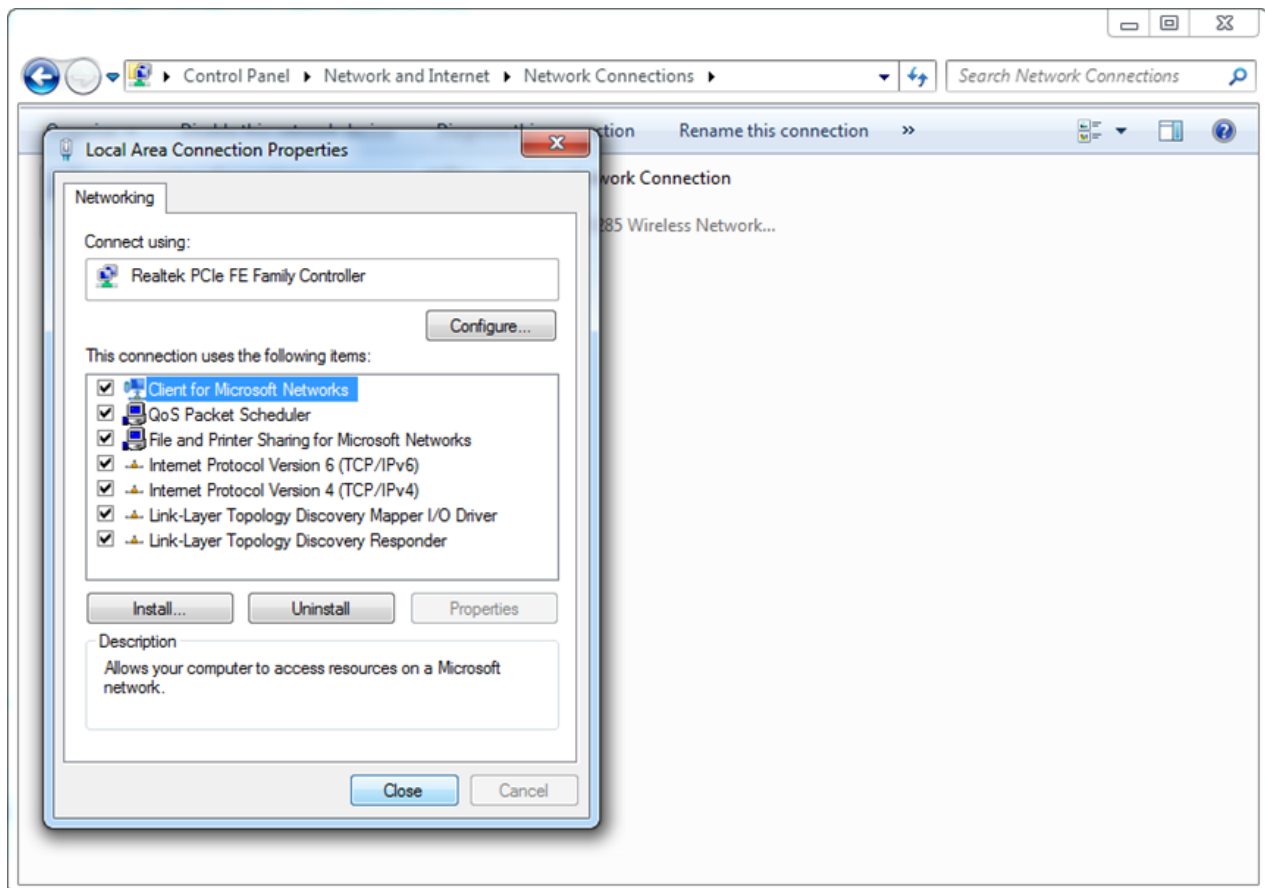


2.6

Select Use the following IP address and input 192.168.0.10 followed by the Subnet mask 255.255.255.0. Press OK.

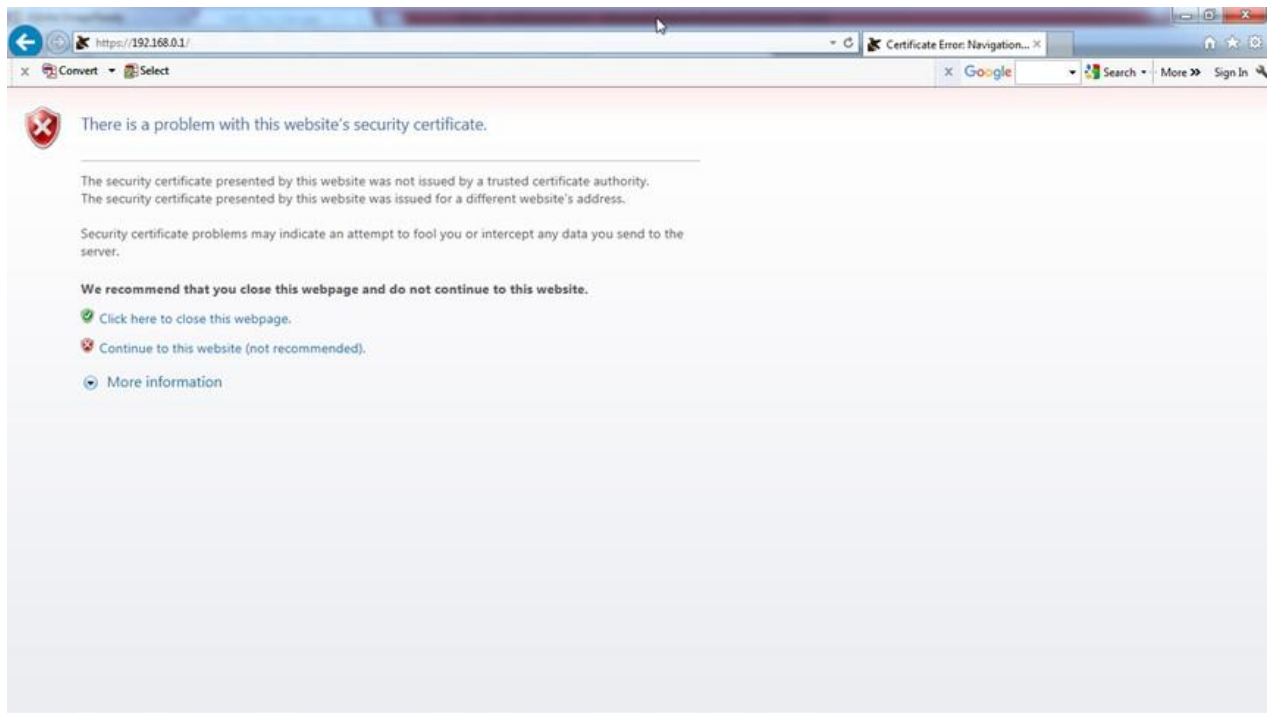


2.7 Press
Close.



2.8

Next open the Internet Explorer and input into the URL field 192.168.0.1. You will see the following message.



2.9

Click on Continue to the website (not recommended).



2.10

Input the Username: super and Password: sp-admin to enter the Ruckus Wireless Admin. Select Internet under Configuration.

The screenshot shows the Ruckus 7372 Multimedia Hotzone Wireless AP web interface. The browser address bar shows <https://192.168.0.1/index.asp>. The page title is "Ruckus 7372 Multimedia Hotzone Wireless AP". The left sidebar contains navigation links: Status, Configuration, Maintenance, and Administration. The main content area is titled "Status :: Device" and displays the following information:

- Device Name: RuckusAP
- Device Location:
- GPS Coordinates:
- USB Software vid-pid:
- USB Software Version:
- MAC Address: 84:18:3A:0E:A9:F0
- Serial Number: 191402000100
- Software Version: 9.6.1.0.15
- Uptime: 22 mins 56 secs
- Current Time (GMT): Sat Sep 19 19:27:50 2015

Below this information is a table titled "LAN Port Status" with a "Refresh" button. The table has columns: Port, Interface, 802.1X, Logical Link, Physical Link, and Label.

Port	Interface	802.1X	Logical Link	Physical Link	Label
0	eth0	None	Down	Down	10/100
1	eth1	None	Up	Up 100Mbps full	10/100/1000 PoE

The footer of the page displays the Ruckus logo and the text "Ruckus 7372 Multimedia Hotzone Wireless AP" and "© Copyright 2015 Ruckus Wireless".

2.11

Fill in the values as shown below. Press the Update Settings button.

The screenshot shows the Ruckus 7372 Multimedia Hotzone Wireless AP web interface. The browser address bar shows <https://192.168.0.1/index.asp>. The page title is "Ruckus 7372 Multimedia Hotzone Wireless AP". The left sidebar contains navigation links: Status, Configuration, Maintenance, and Administration. The main content area is titled "Configuration :: Internet" and displays the following configuration options:

- NTP Server:
- Management VLAN: (Need to reboot for change to take effect)
- IPv4 Connection Type: ☐ DHCP ☒ Static IP ☐ PPPoE
- Internet Connection Settings:
 - IPv4 Address:
 - IPv4 Subnet Mask:
 - IPv4 Gateway:
- IPv4 DNS Mode: ☒ Auto ☐ Manual
- IPv6 Connection Type: ☒ Auto Configuration ☐ Static IP
- IPv6 Primary DNS Server:
- IPv6 Secondary DNS Server:
- L2TP Connection:
 - L2TP Connection: ☐ Enable ☒ Disable

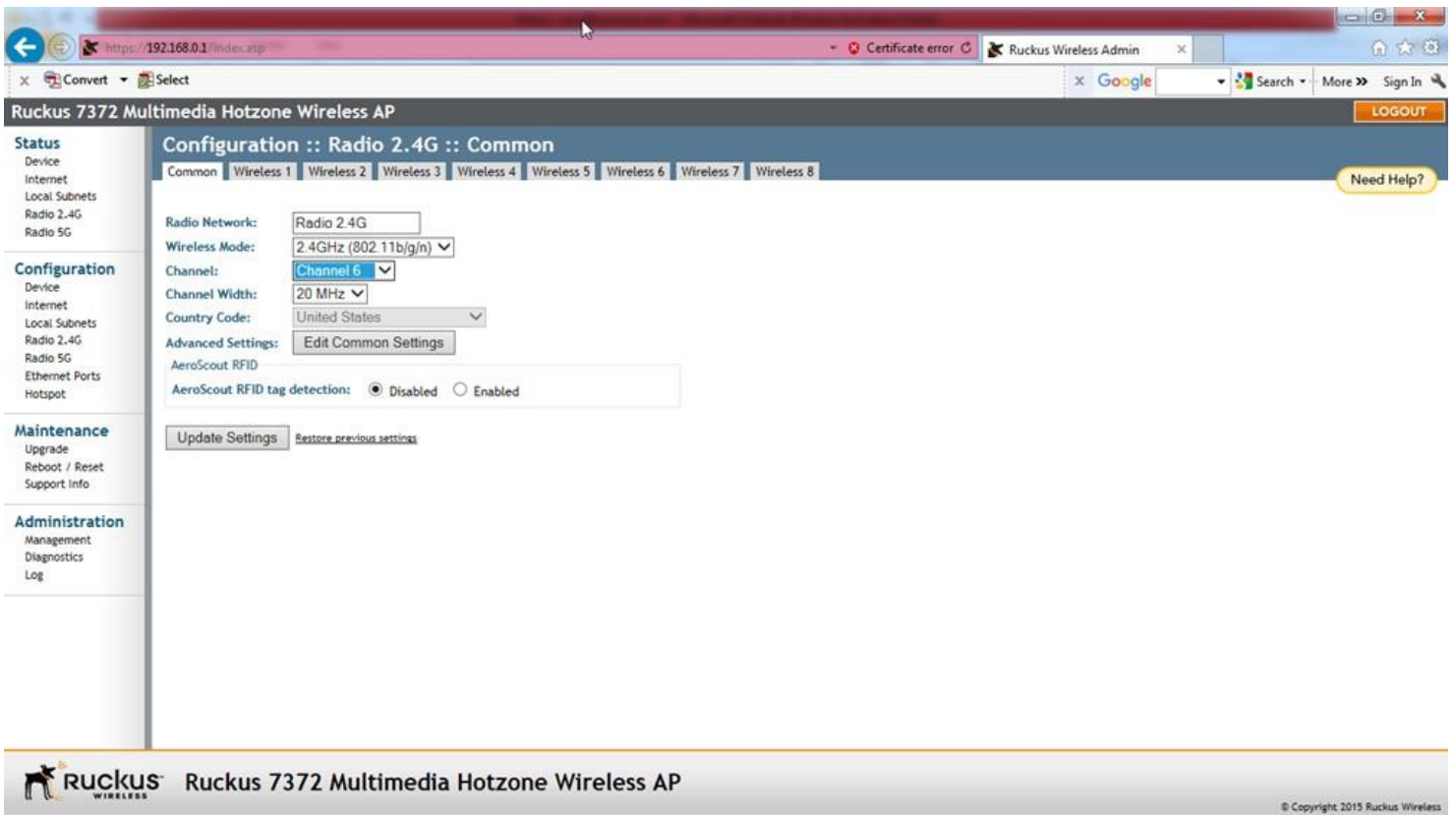
At the bottom of the configuration section are two buttons: "Update Settings" and "Restore previous settings". The footer of the page displays the Ruckus logo and the text "Ruckus 7372 Multimedia Hotzone Wireless AP" and "© Copyright 2015 Ruckus Wireless".

2.12

There will be no response from the Ruckus ZF 7372. This is because we have just changed the IP address of the Ruckus ZF 7372 to 172.27.80.50. Go back to the step 2.1 and restart. This time in the step 2.6, put in the IP address 172.27.80.10 followed by the Subnet mask 255.255.240.0. Also in the step 2.8, put in the IP address of 172.27.80.50.

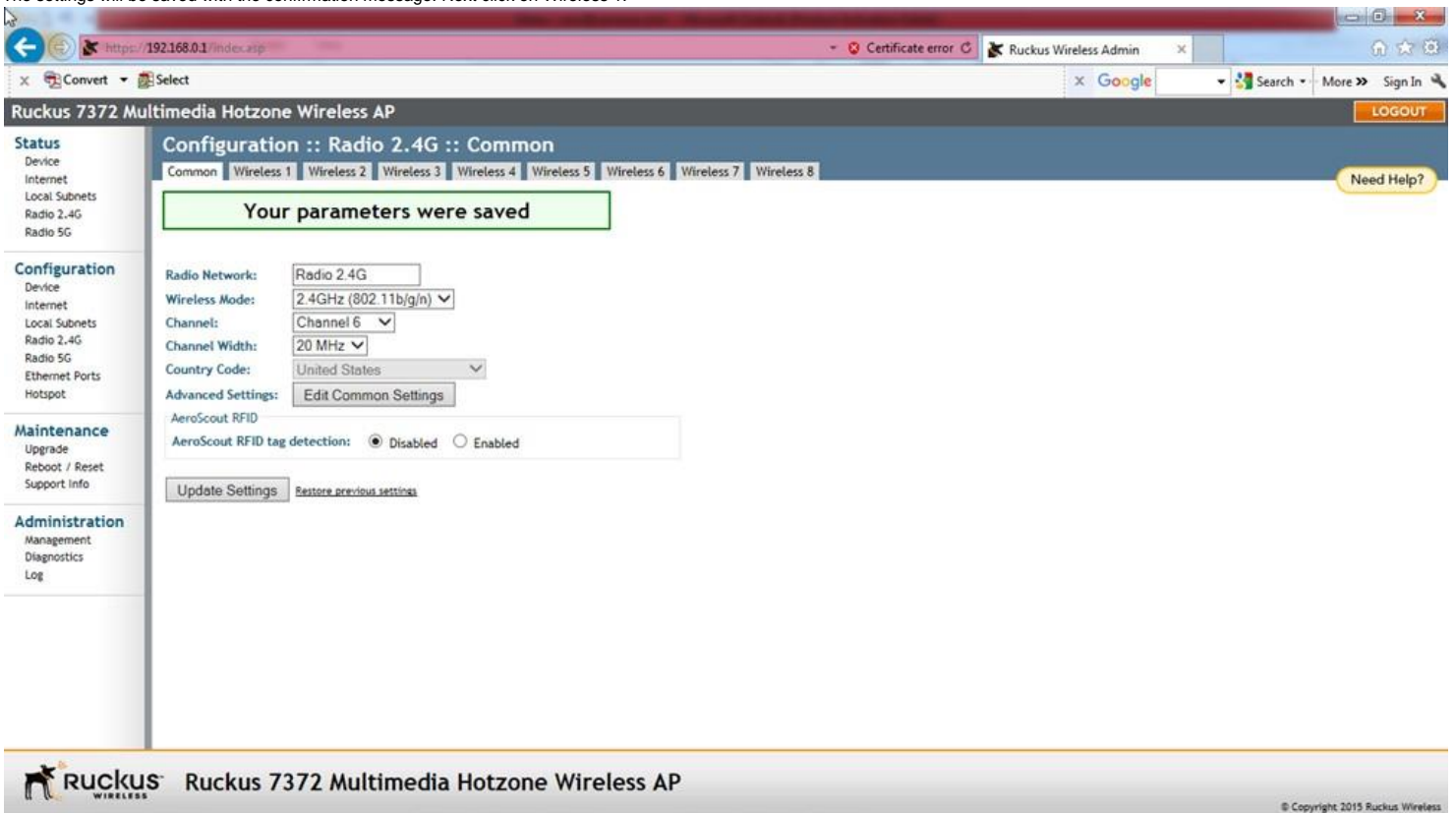
Entering into the Ruckus ZF 7372 as shown in the Step 2.10, click on the Radio 2.4G under Configuration. The following screen will appear. Click on SmartSelect and change it to any fixed channel 1 - 11. The SmartSelect is to be avoided as it can change the channel in midst of the sound transmission causing glitches and stutters in the audio. As for the channel to which the SmartSelect should change, it is best to select one that is least used in the actual environment. Use an app such as WiFi Analyser for Android or Apple phones to see the channel usage.

In our example, we select Channel 6. Next click on Update Settings button.



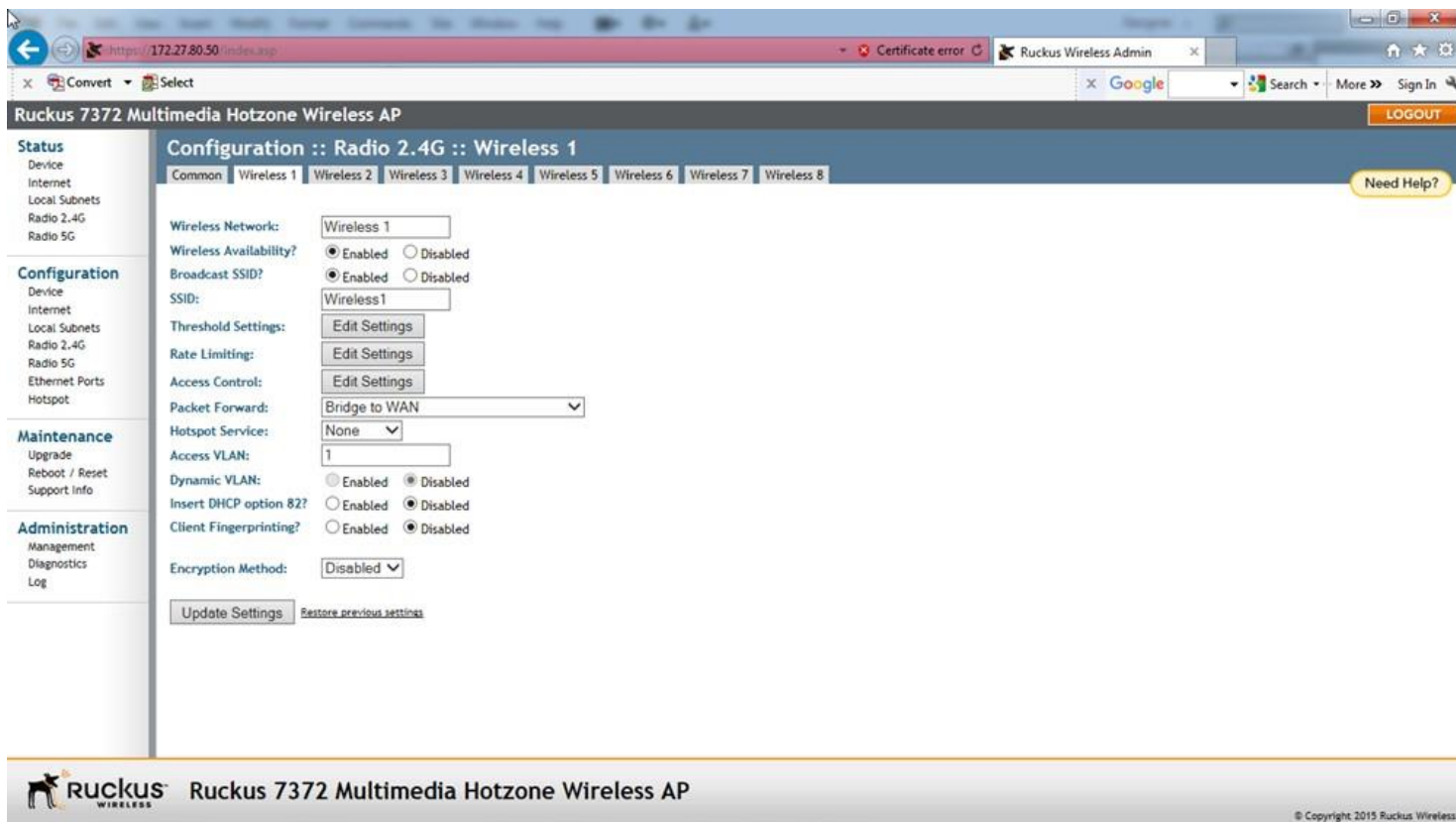
2.13

The settings will be saved with the confirmation message. Next click on Wireless 1.



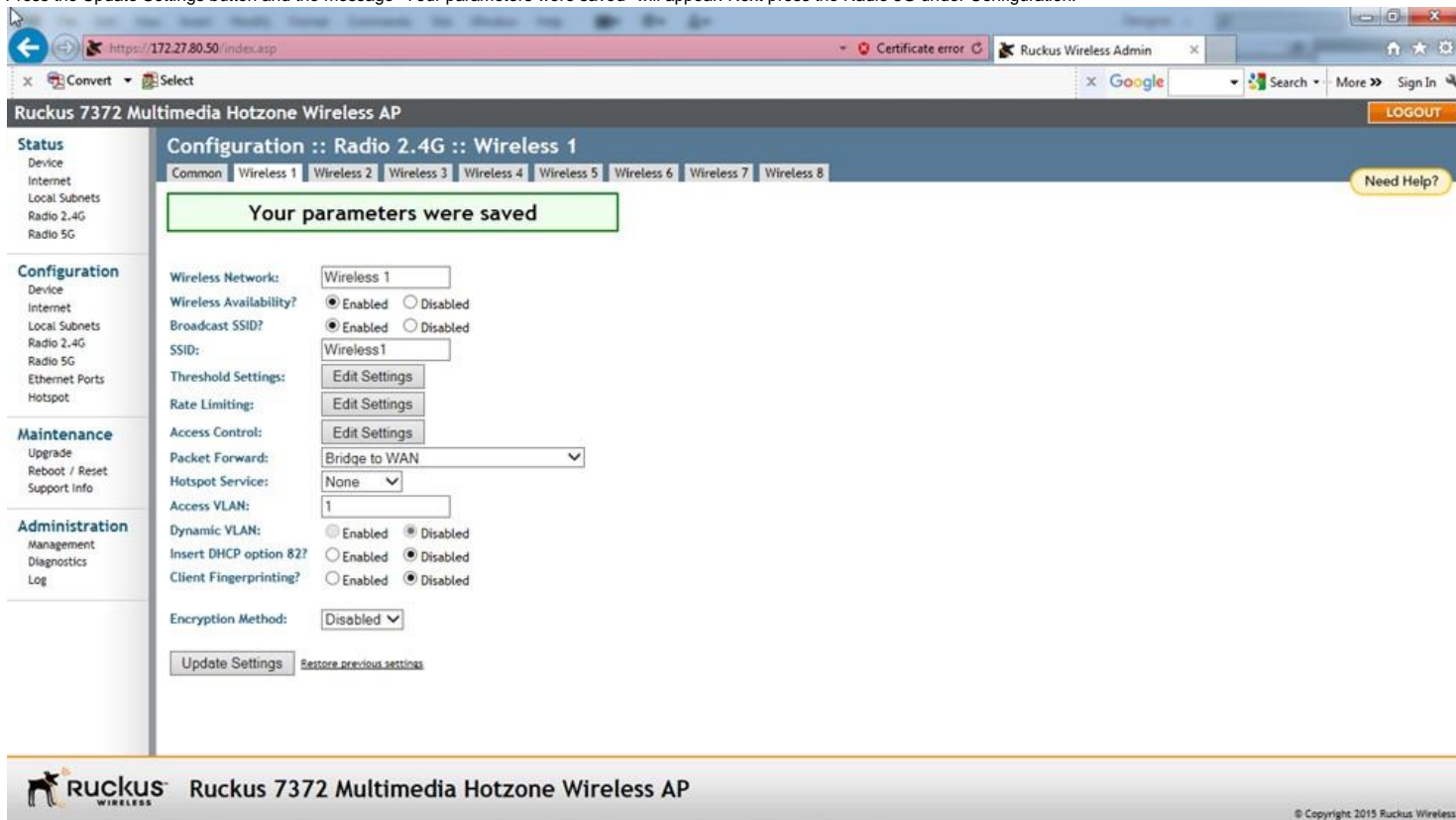
2.14

Click on Enable for Wireless Availability?. Change the values in the remaining fields as shown below. Be sure to copy exactly except for the SSID:. The SSID field, shown below as "Wireless 1", is the network name which will be displayed on the customer's smartphone. The customer will need to connect to the network in order to listen to the TVs. We recommend the SSID field be related to the actual location, such as "BWR Springfield OH".



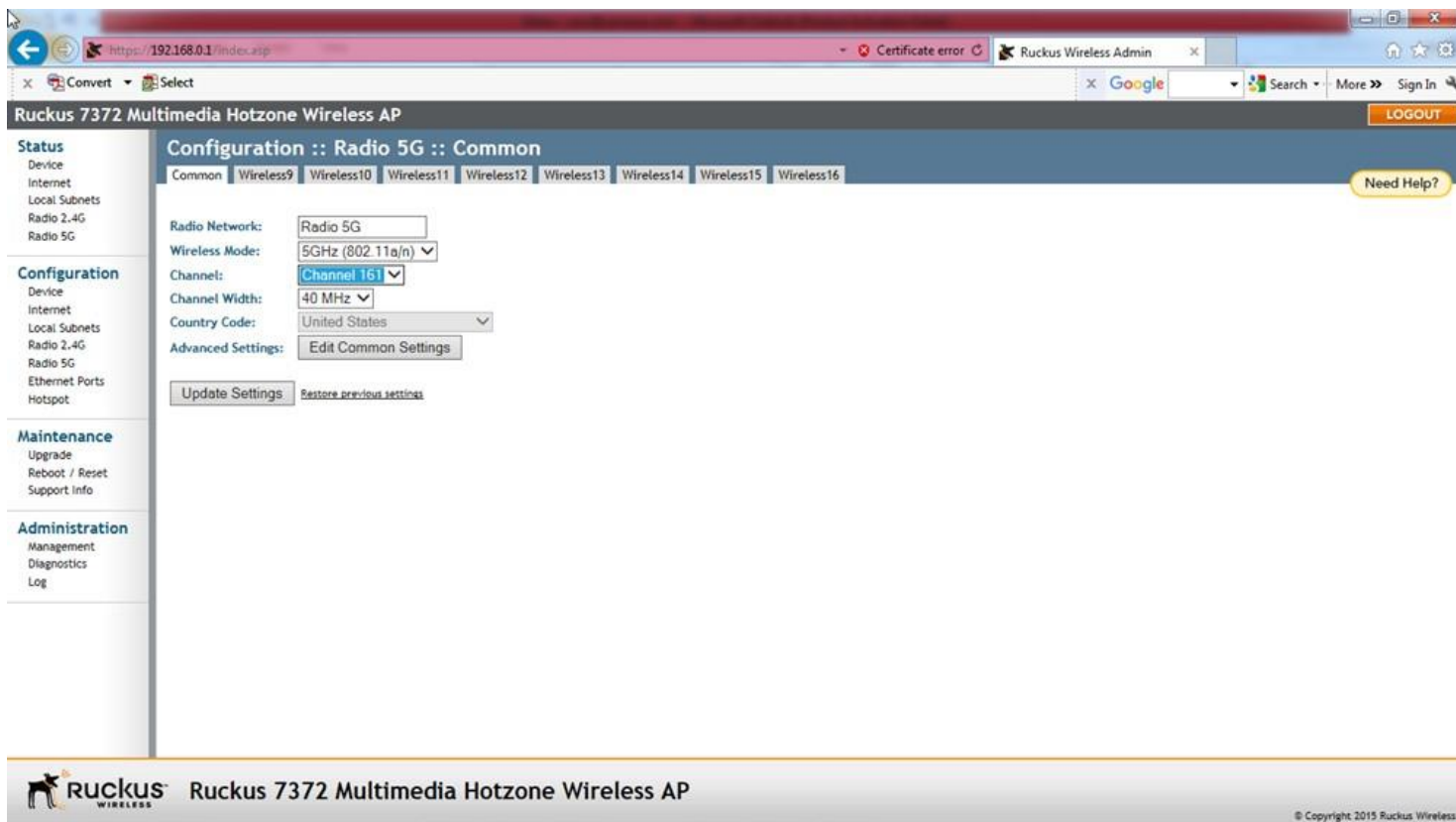
2.15

Press the Update Settings button and the message "Your parameters were saved" will appear. Next press the Radio 5G under Configuration.



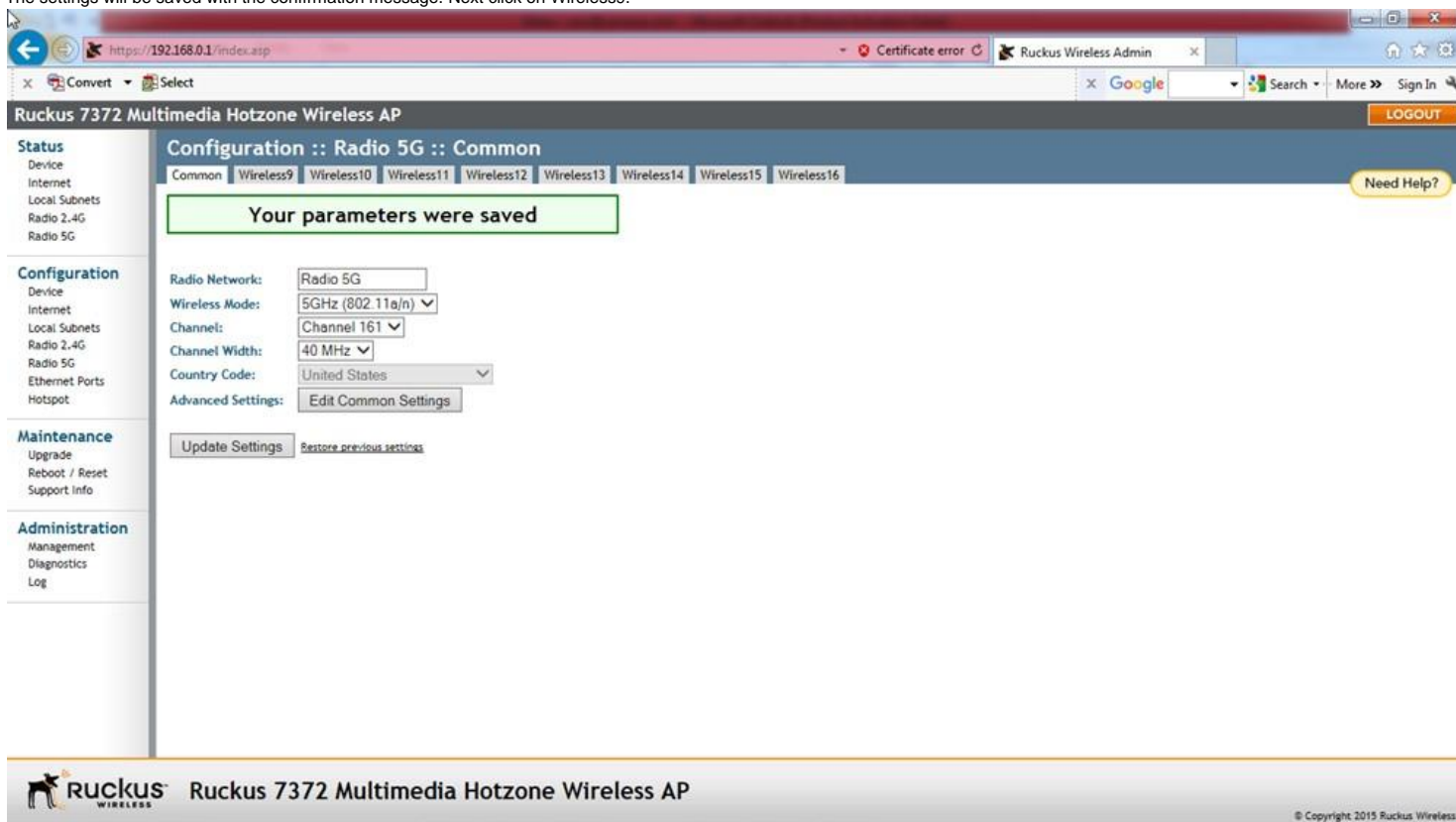
2.16

Here we change the SmartSelect to any channel between 145 - 161. We recommend these channels for their less usage in the market. In our example, we selected Channel 161. Next click on Update Settings button.



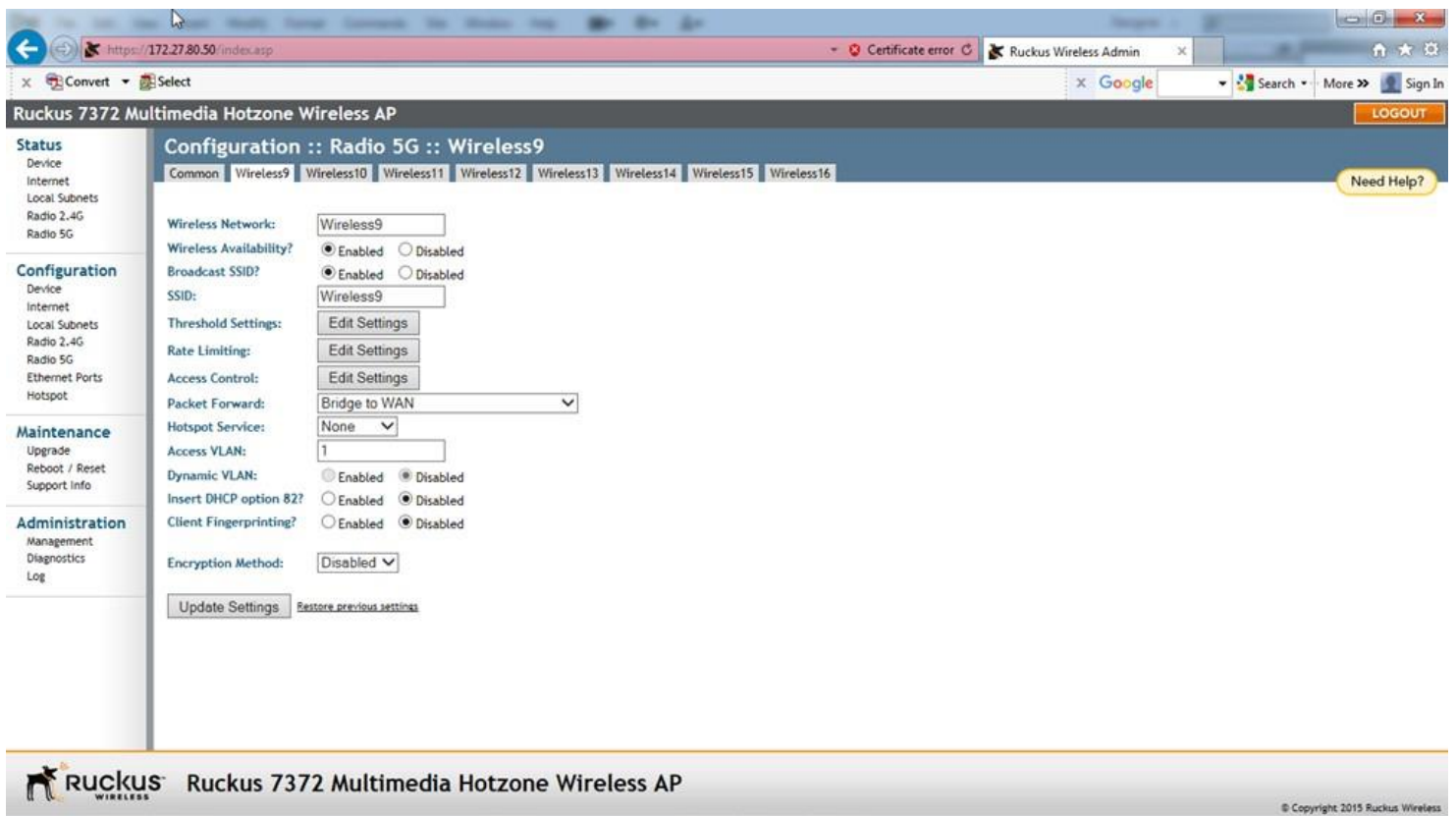
2.17

The settings will be saved with the confirmation message. Next click on Wireless9.



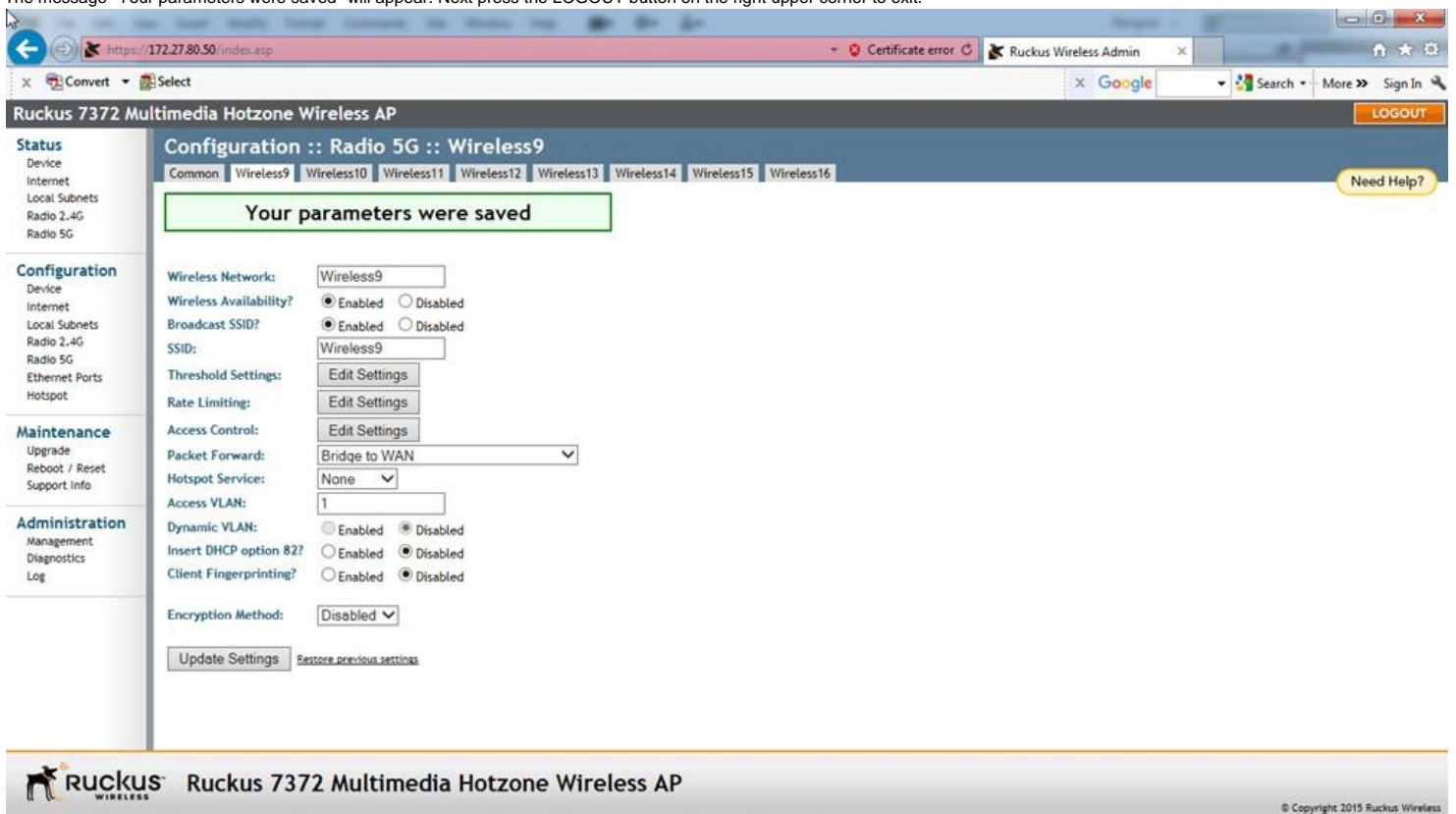
2.18

Click on Enable for Wireless Availability?. Change the values in the remaining fields as shown below. Be sure to copy exactly except for the SSID:. The SSID field, shown below as "Wireless9", is the network name which will be displayed on the customer's smartphone. The customer will need to connect to the network in order to listen to the TVs. We recommend the SSID field be related to the actual location, such as "BWR Springfield OH". The SSID field can be same as the SSID field for the Wireless 1, in which case the 2.4G or 5G frequency assignment will be automatically made depending on the smartphone. Next click on Update Settings button.



2.19

The message "Your parameters were saved" will appear. Next press the LOGOUT button on the right upper corner to exit.



The Ruckus ZF 7372 is ready for use now. Connect the Ruckus ZF 7372 as shown in the User Manual of the WAD server.

END