



Technical Training Guide for SimplicityTouch IFP

Model Numbers Covered: 70" ST-700, Generation 2 (802.11ac)

Last Update: 01-29-16

e: support@recordexusa.com

TOPICS COVERED:

1) Update Panel Firmware & Install Default Set of Apps.....	Page 2
2) Update Router Firmware	Page 9
3) Connect to wireless network with preshared key WPA2	Page 23
4) Connect to wireless network with WPA2 RADIUS encryption	Page 33
5) How to disable wireless network interface.....	Page 50
6) How to configure panel to use optional proxy server.....	Page 55

TROUBLESHOOTING PANEL ISSUES

1) Image from computer is not full screen on panel.....	Page 59
2) Panel is not calibrated properly	Page 60
3) Intermittent USB connection to panel.....	Page 61
4) Intermittent panel reboot.....	Page 61

SOFTWARE UPDATES & FACTORY RESET

1) How to update panel applications.....	Page 62
2) How to reset panel to factory default.....	Page 62

Setup Instructions for SimplicityTouch IFP

Topics Covered:

- 1) Upgrade IFP Firmware
- 2) Install default set of Android Applications

Model Numbers Covered: 70" ST-700 Gen 2 (802.11ac)

Last Update: 01-29-16

e: support@recordexusa.com

TOOLS REQUIRED:

Windows PC to download and prepare files

USB Thumb Drive (minimum 1 GB)

ESTIMATED TIME REQUIRED:

Upgrade firmware	8 min
Install Apps	5 min
Total	13 min

Setup Instructions for SimplicityTouch IFP

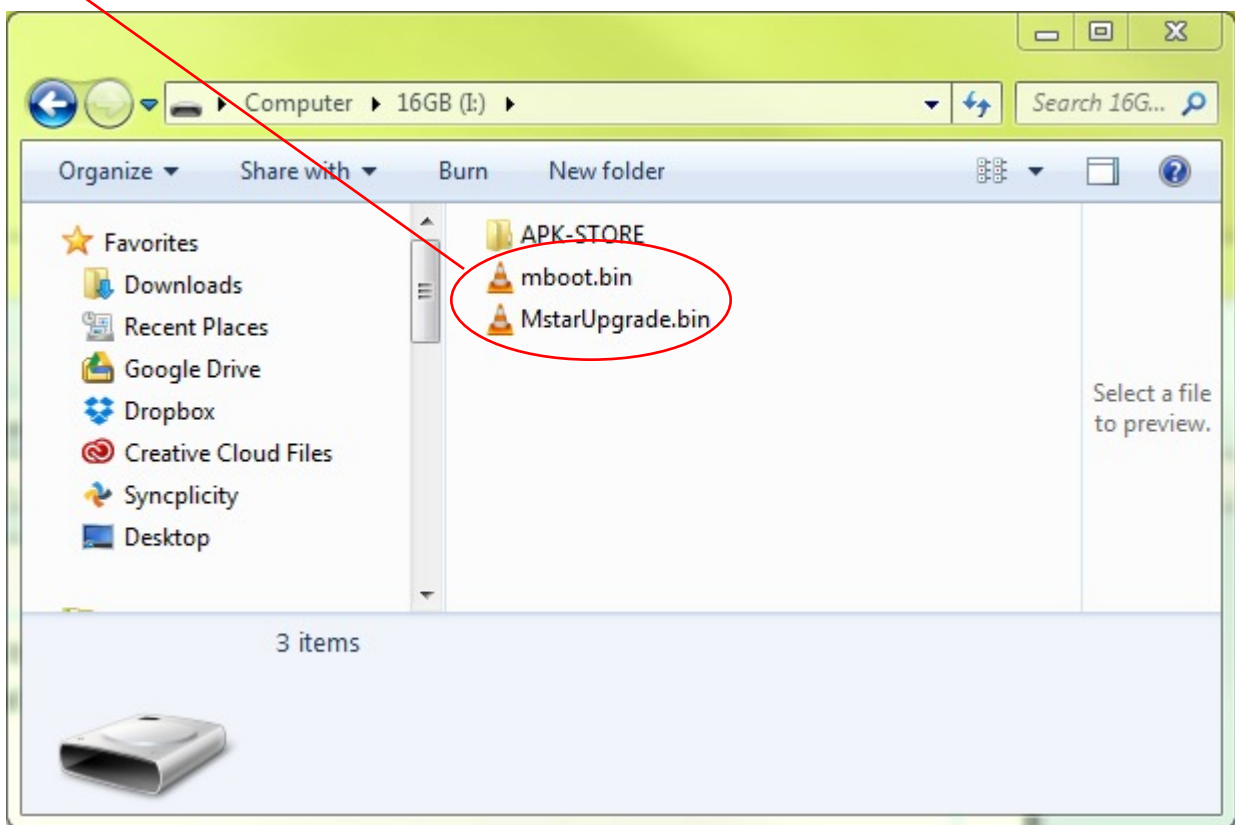
For Model Number: 70" ST-700, Generation 2

1. Prepare USB Thumb Drive with Setup Files

1.1 Unzip the **ST-700-FW-012916.zip** file

1.2 Place contents of extracted **ST-700-012916** folder onto the USB Drive.

NOTE: It is important that the **mstarupgrade.bin** and **mboot.bin** files are located on the root of the USB thumb drive. They can NOT be located inside of a folder on the USB drive.

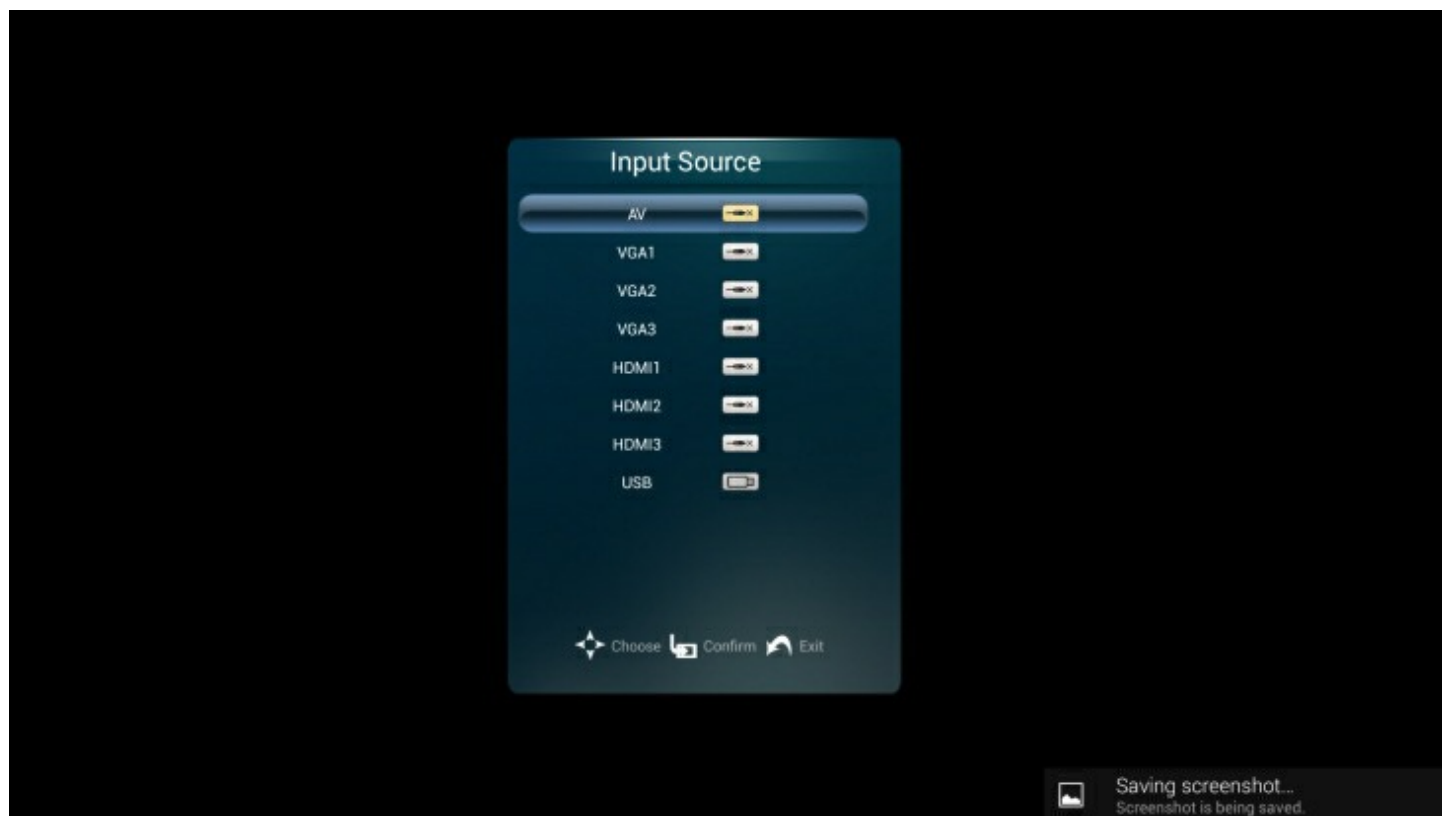


2. Turn on ST-700 and insert USB thumb drive in front USB port (note: must use port with Android label)



3. Update Main system firmware.

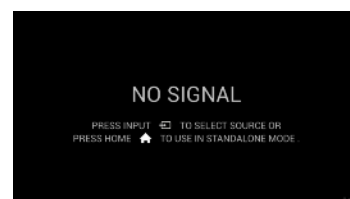
3.1 Press **Input** and then press Contact Recordex Technical Support for PIN CODE. on remote using number pad.



3.2 This will open a secret factory menu. Use arrow buttons on remote to select **Upgrade Main**, then press **OK/Enter** on remote, then select **Confirm** and press **OK/Enter** on remote again. Panel will apply changes and reboot.



NOTE: It may take up to 5 minutes for the panel to apply fw update. The power light will go from red to blue and blink blue during updates. The panel may reboot more than once. After it is finished updating it will go back to main input source screen.

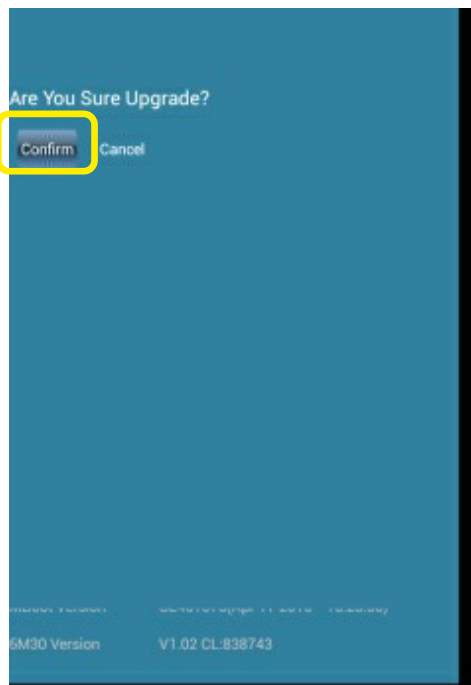


4. Update Mboot system firmware.

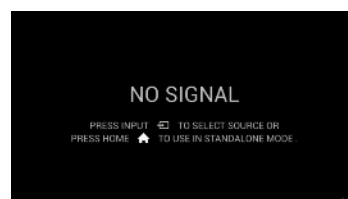
4.1 Press **Input** and then press Contact Recordex Technical Support for PIN CODE. on remote using number pad.



4.2 This will open a secret factory menu. Use arrow buttons on remote to select Upgrade **Mboot**, then press **OK/Enter** on remote, then select **Confirm** and press **OK/Enter** on remote again. Panel will apply changes and reboot.

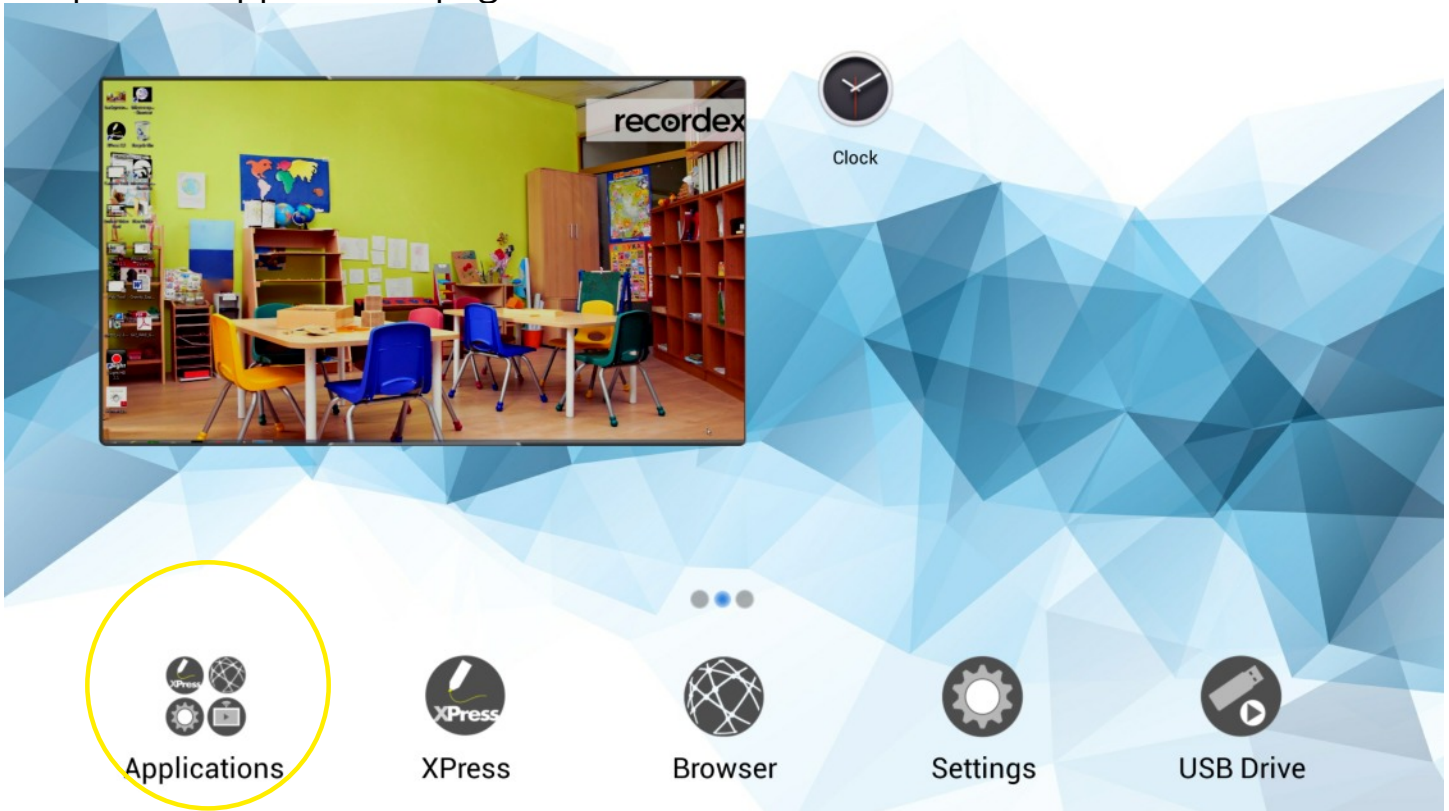


NOTE: It may take up to 2 minutes for the panel to apply fw update. The power light will go from red to blue and blink blue during updates. The panel may reboot more than once. After it is finished updating it will go back to main input source screen.



5. Install Apps

5.1 Press **Home** button to go to Home screen and then touch **Applications** icon to open the applications page.

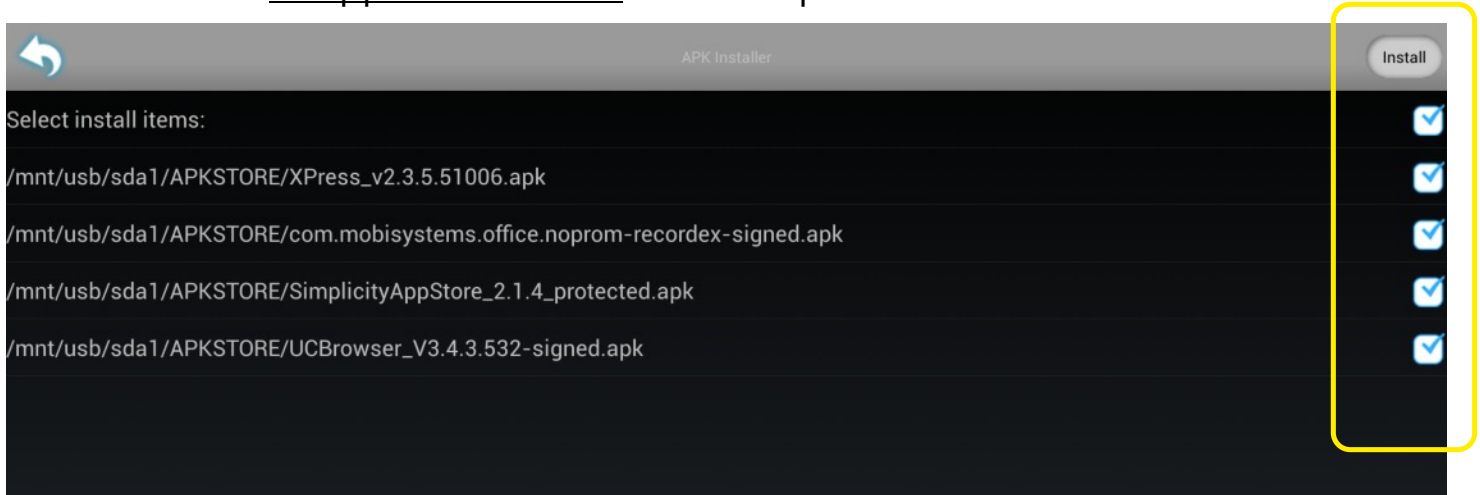


5.2 Open the **APK Installer** Application

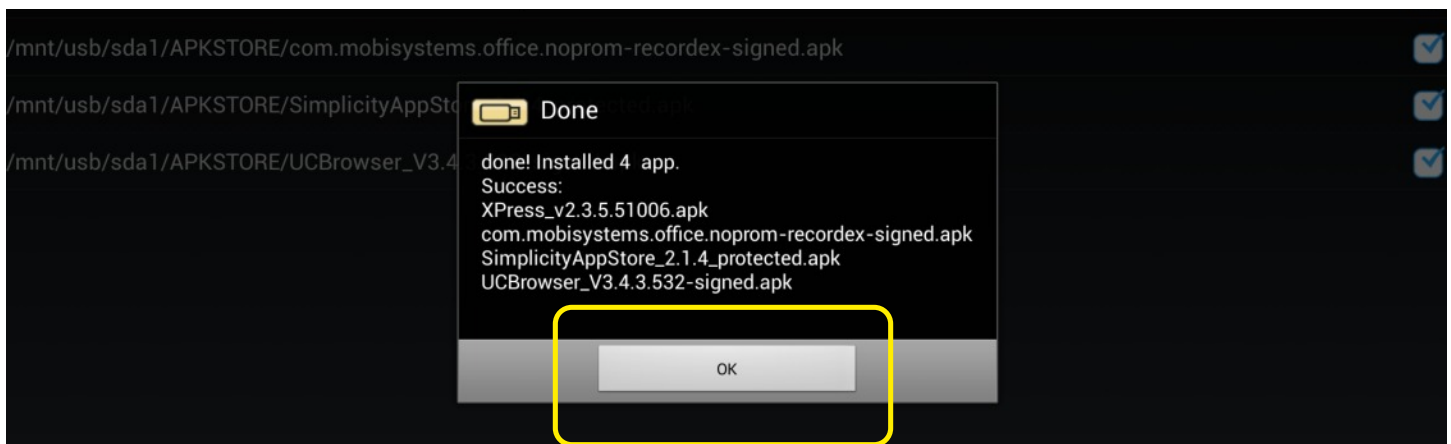


5. Install Apps – Continued

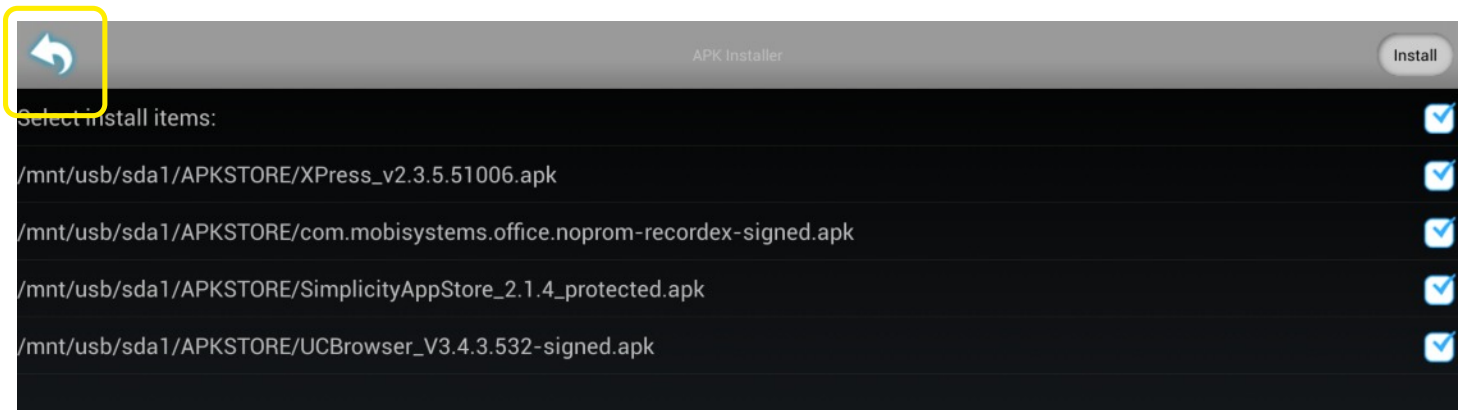
5.3 Make sure all apps are selected and then press **Install**.



5.4 Wait for apps to install. You will see success message showing 5 apps installed.



5.5 Press the back arrow button to exit APK Installer.

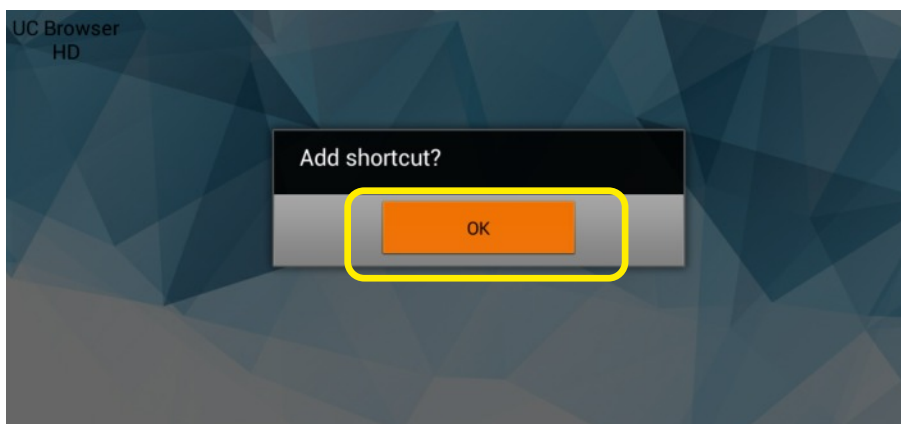


6. Create App Shortcuts

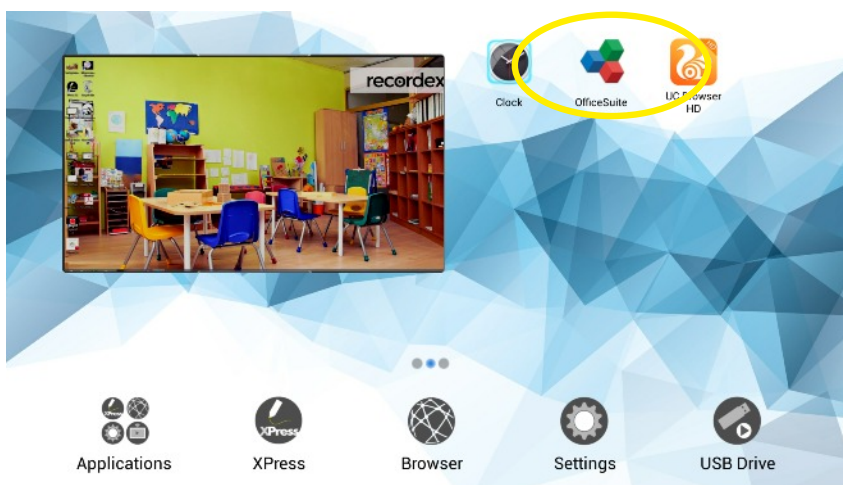
6.1 Use remote control arrow buttons to select/highlight the OfficeSuite app.



6.2 When app is highlighted press the **App Shortcut button (MEMC/APP)** on the remote and then select **OK** to add shortcut.



6.3 Go back to Home Screen and verify that App shortcuts are present.



END OF GUIDE.

END OF SECTION

Setup Instructions for SimplicityTouch IFP equipped with 802.11ac Internal Router

Topic Covered: Upgrade Firmware

Model Numbers Covered: 70" ST-700, Generation 2 (802.11ac); 65" ST-650U (802.11ac); 84" ST-840U (802.11ac)

Last Update: 07/24/15

e: support@recordexusa.com

TOOLS REQUIRED:

Windows PC to download and prepare files

USB Thumb Drive (minimum 1 GB)

ESTIMATED TIME REQUIRED:

Upgrade firmware	4 min
Upload saved settings	2 min
Reset Router	2 min
Total	8 min

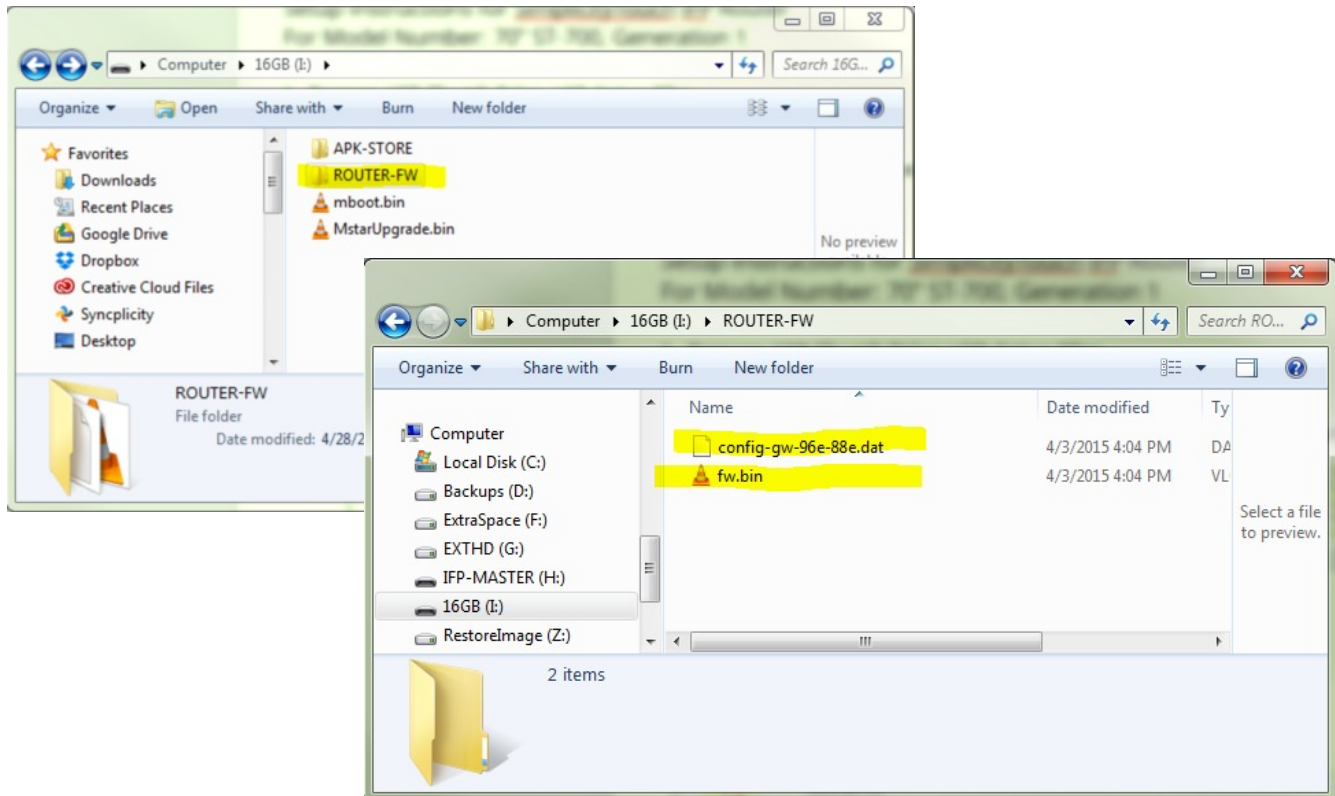
Setup Instructions for SimplicityTouch IFP Router

For Model Number: 70" ST-700, Generation 1

1. Prepare USB Thumb Drive with Setup Files

A) Unzip the STRouter-80211ac-SetupFile.zip folder

B) Place contents of STRouter-80211ac-SetupFile.zip folder onto the USB Drive.



2. Turn on IFP and insert USB thumb drive in front USB port (note: must use port with Android label)

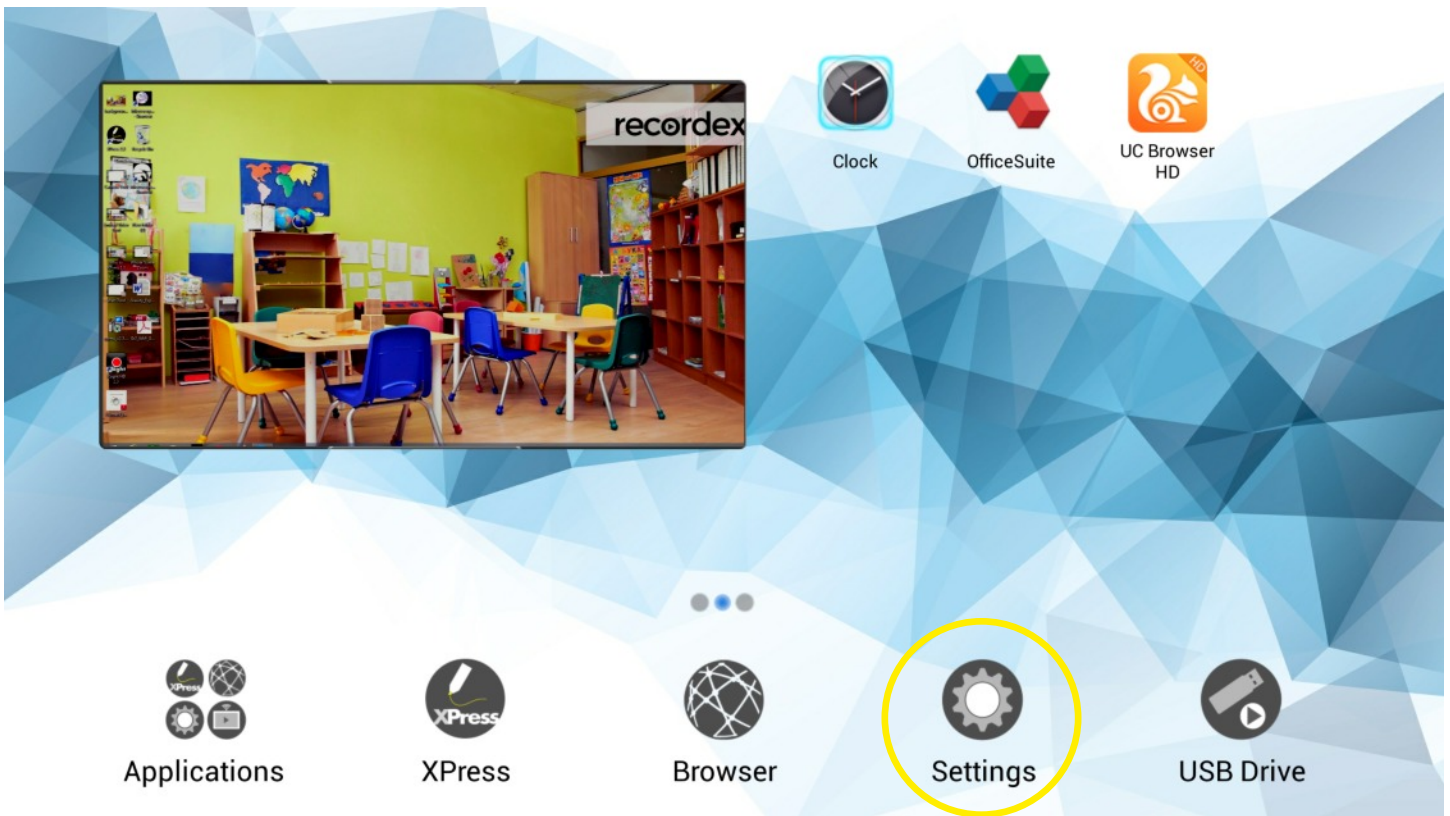


3. Update Router Firmware

3.1 Go to Home Screen

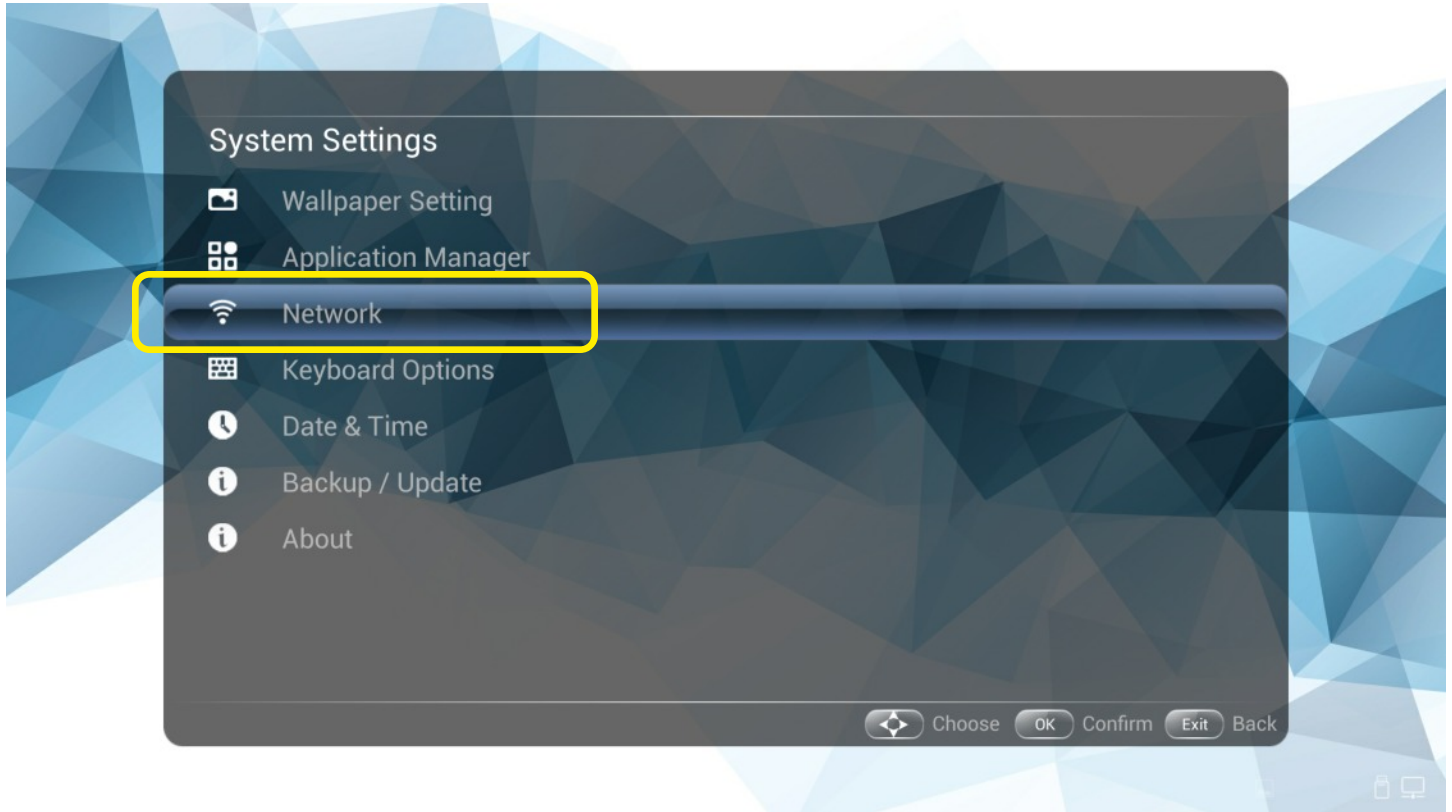


3.2 Open Settings

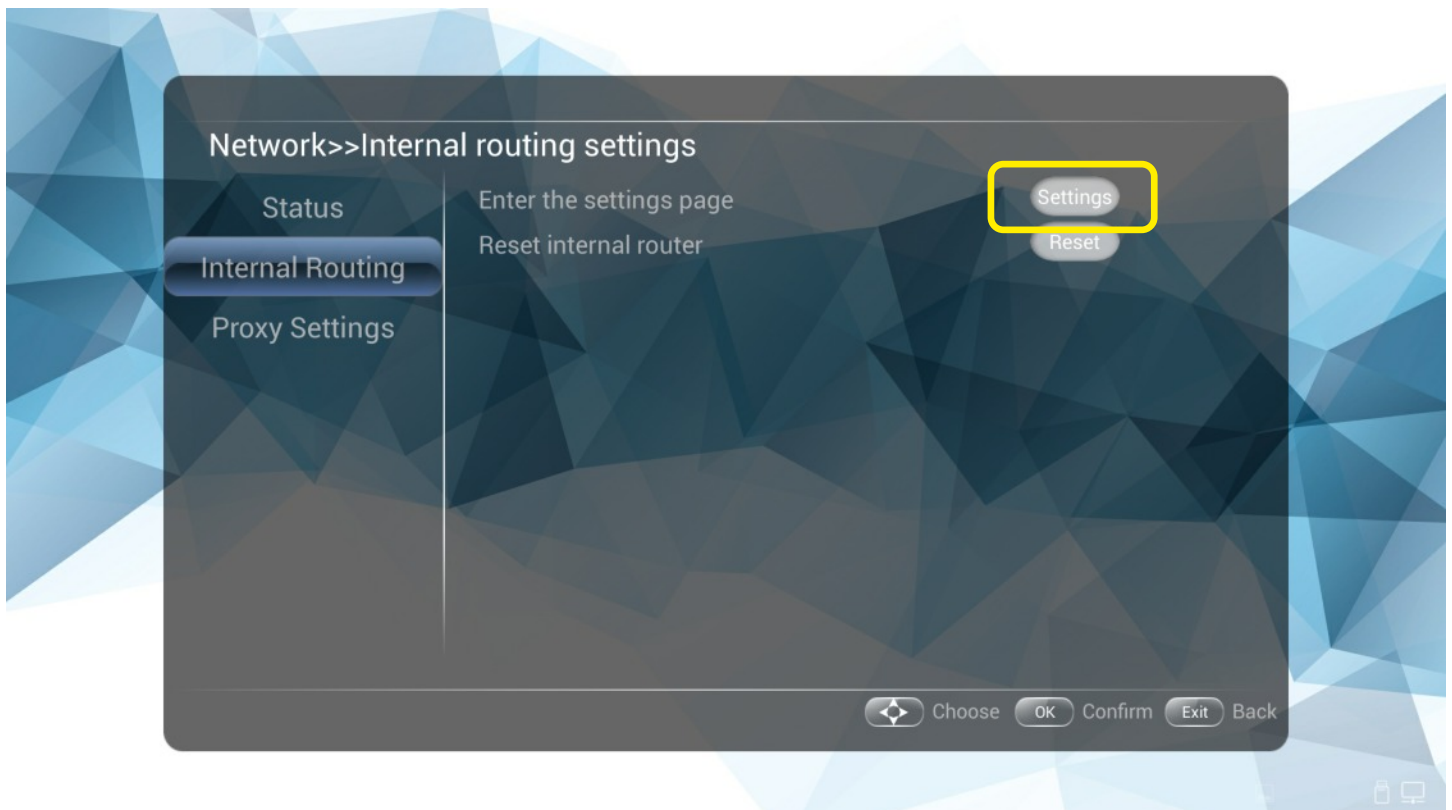


3. Update Router Firmware

3.3 Open **Network** settings

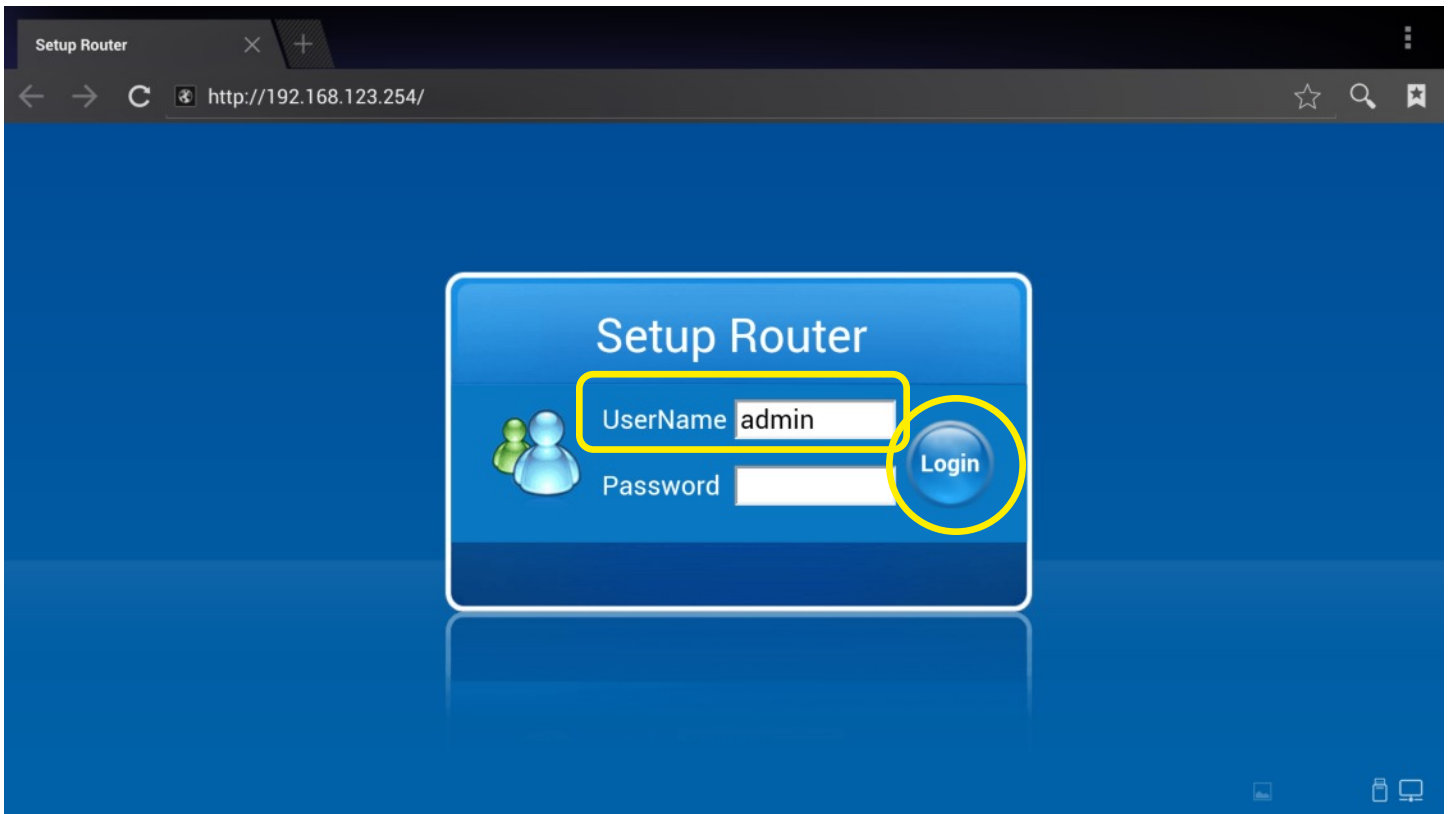


3.4 Open **Internal Routing Settings** Page

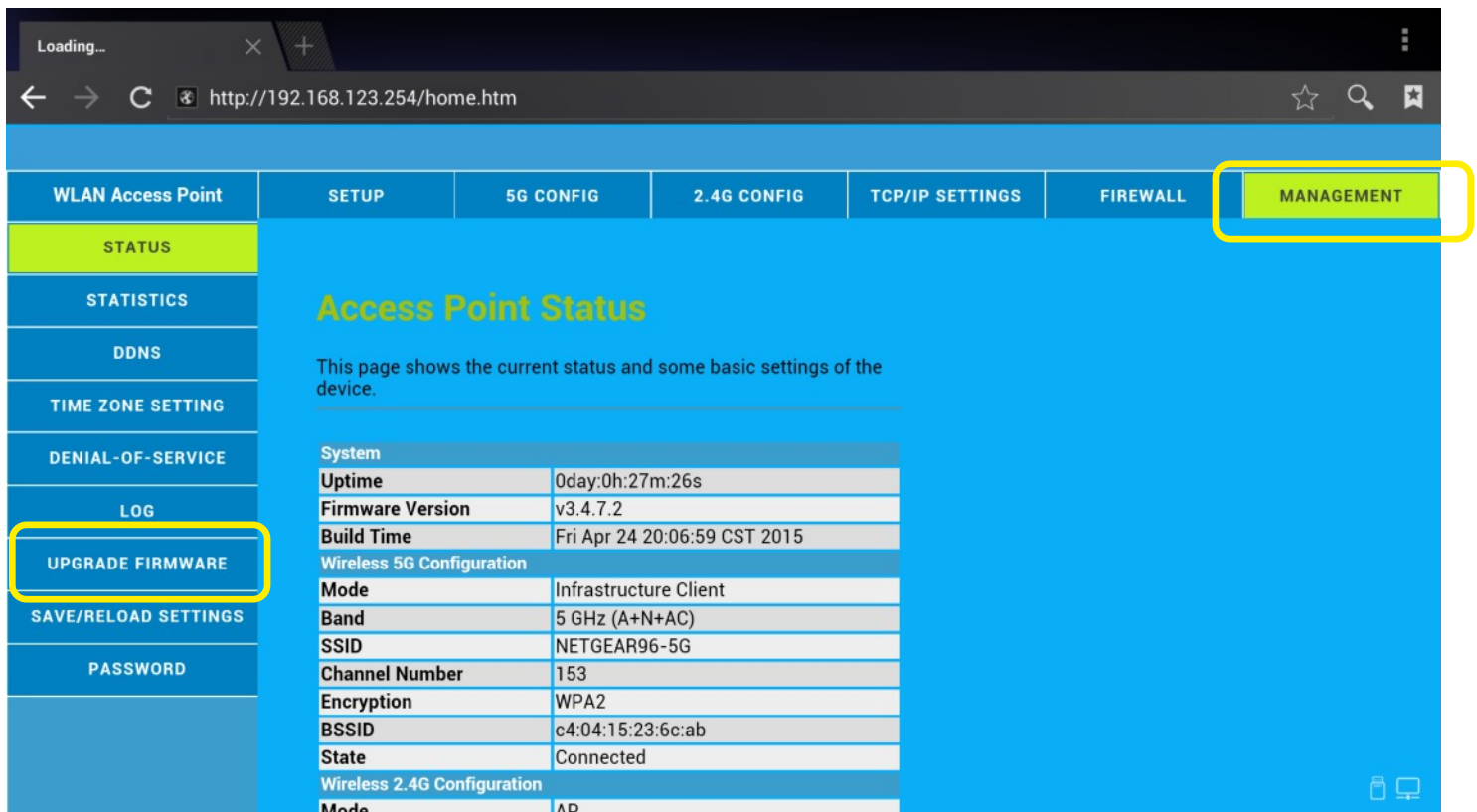


3. Update Router Firmware

3.5 Login to Router: UserName: admin Password: <leave blank>

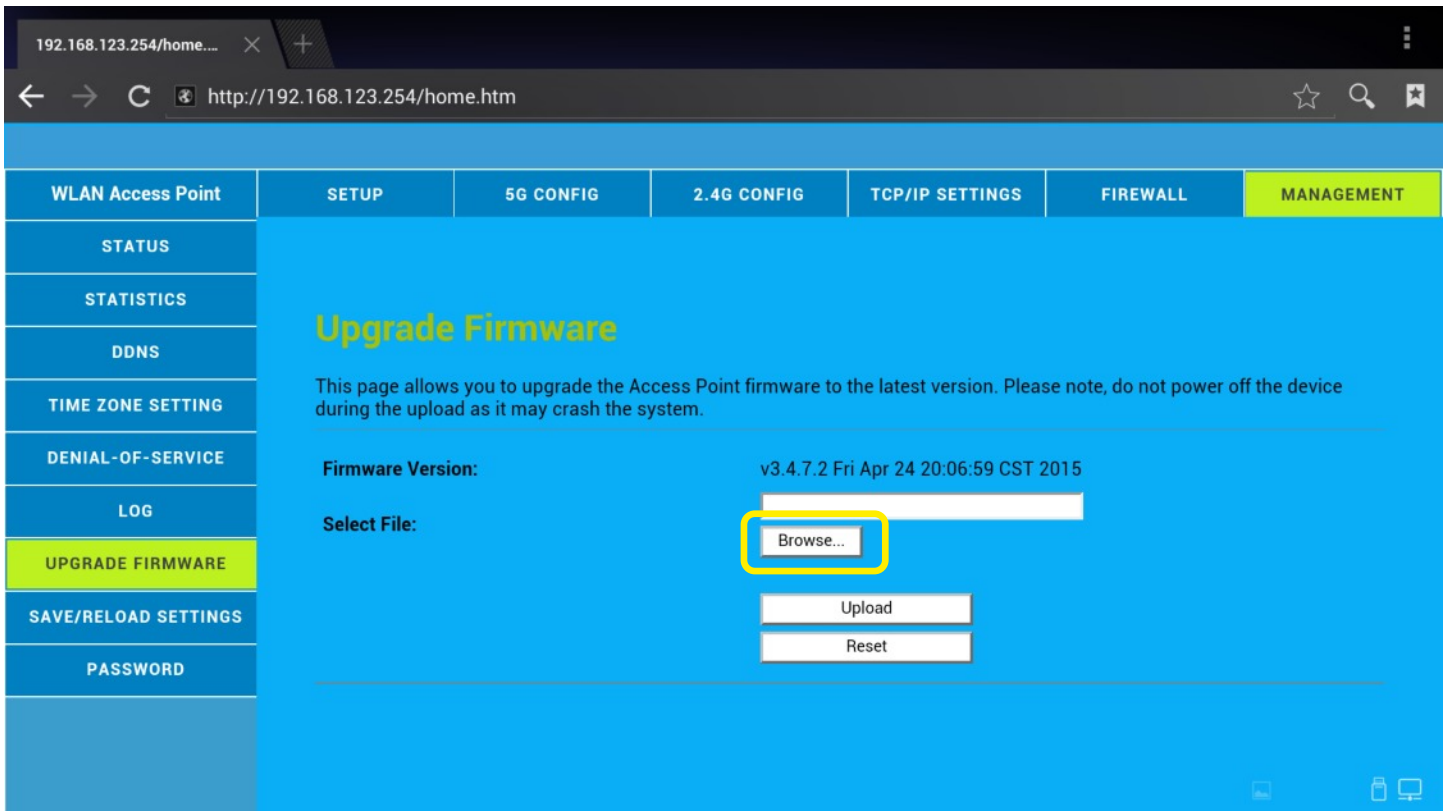


3.6 Select **Management** from **Top** menu at left of screen then select **Upgrade Firmware** from left menu.

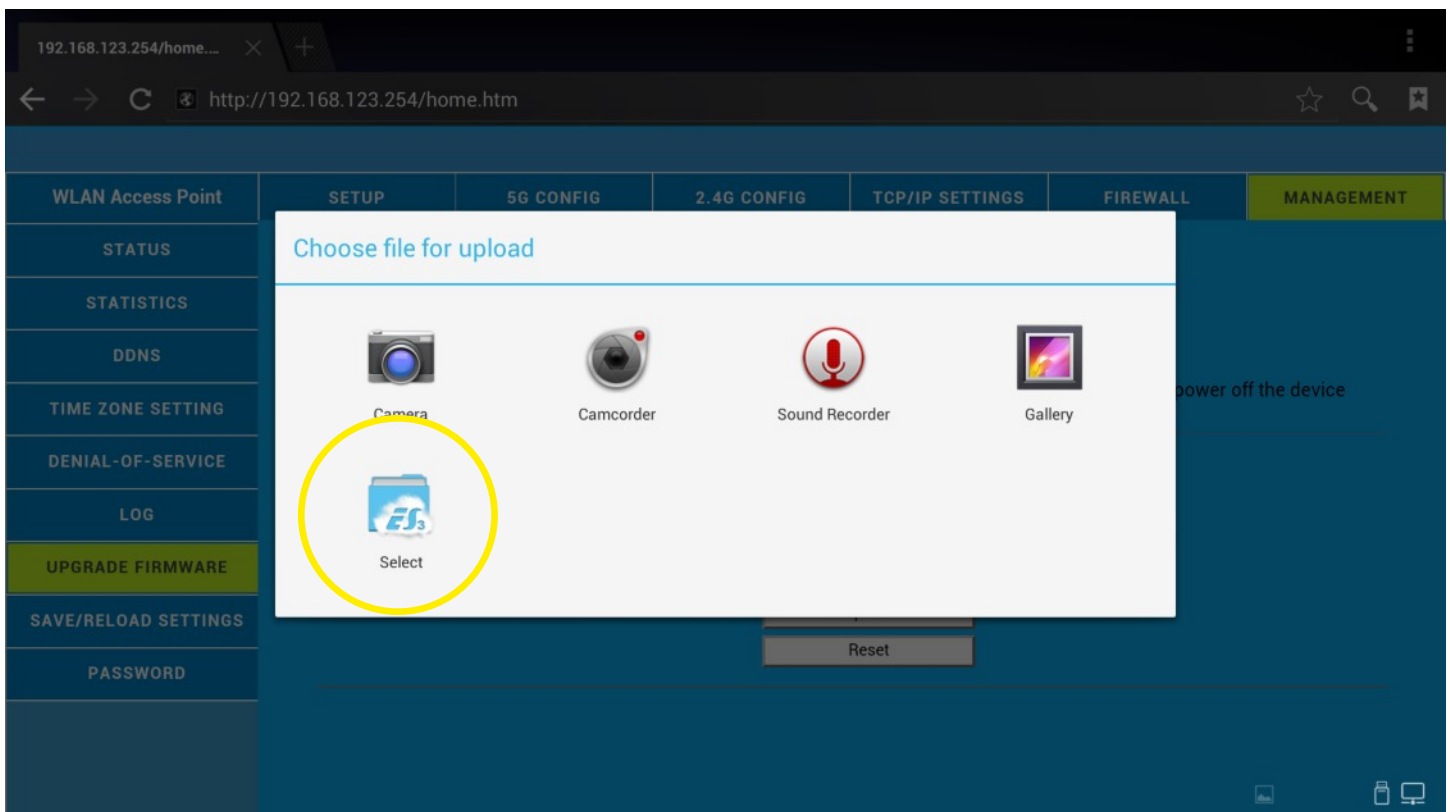


3. Update Router Firmware

3.7 Click **Browse** to select fw.bin file from USB drive.



3.8 Choose **Select** to open **ES** File Explore.



3. Update Router Firmware

3.9 Follow these steps:

Click here to move up one level.

Then select the USB drive it will be labeled:

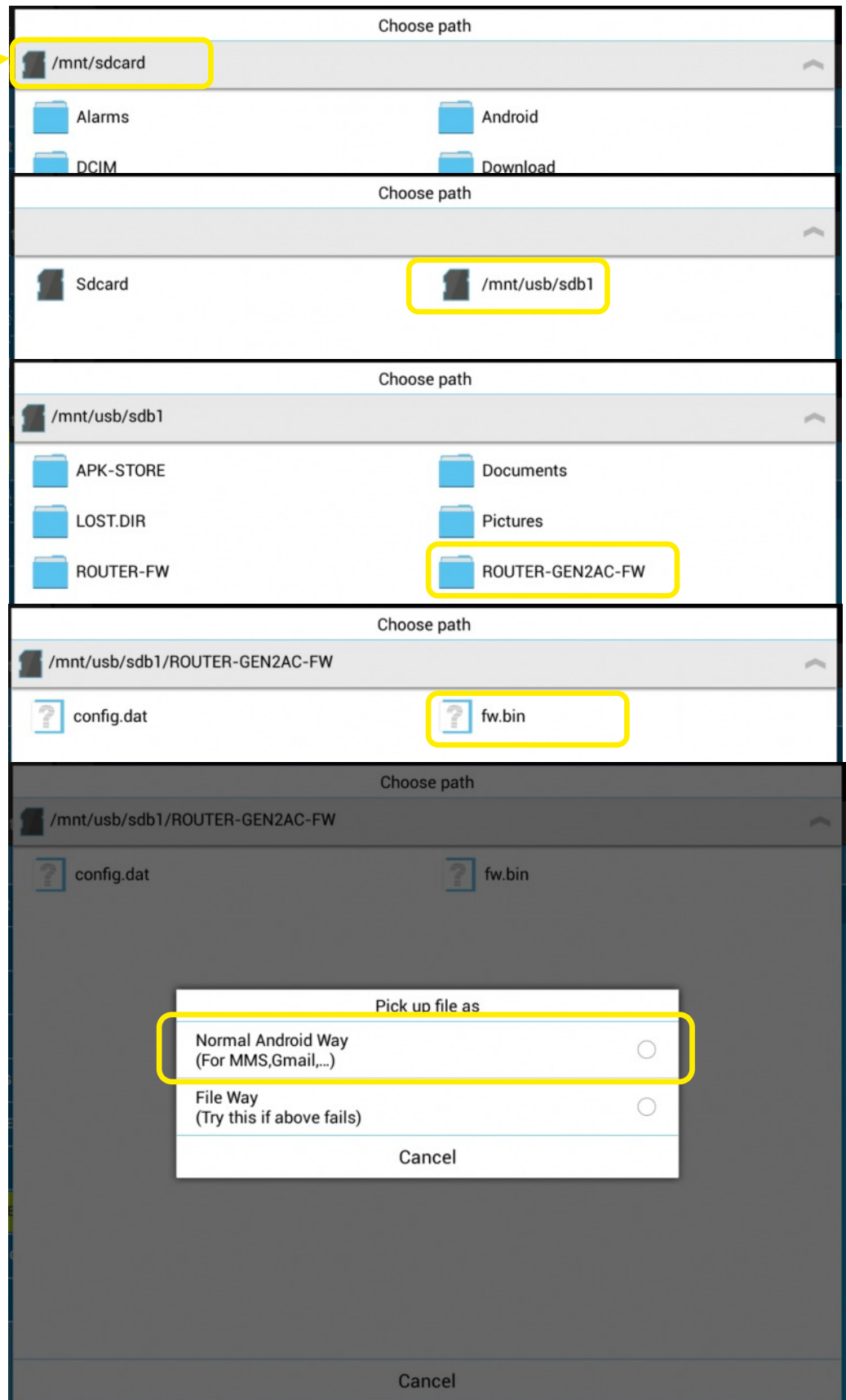
/mnt/usb/sda1 or

/mnt/usb/sdb1

Then choose folder containing the router firmware file (fw.bin)

Then select fw.bin.

Then select
"Normal Android Way..."



3. Update Router Firmware

3.10 With **fw.bin** file selected press **Upload**.

192.168.123.254/home... × +

← → C http://192.168.123.254/home.htm ☆ 🔍

WLAN Access Point	SETUP	5G CONFIG	2.4G CONFIG	TCP/IP SETTINGS	FIREWALL	MANAGEMENT
STATUS	<h2>Upgrade Firmware</h2> <p>This page allows you to upgrade the Access Point firmware to the latest version. Please note, do not power off the device during the upload as it may crash the system.</p> <p>Firmware Version: v3.4.7.2 Fri Apr 24 20:06:59 CST 2015</p> <p>Select File: <input type="text" value="fw.bin"/> <input type="button" value="Browse..."/></p> <div><input type="button" value="Upload"/> <input type="button" value="Reset"/></div>					
STATISTICS						
DDNS						
TIME ZONE SETTING						
DENIAL-OF-SERVICE						
LOG						
UPGRADE FIRMWARE						
SAVE/RELOAD SETTINGS						
PASSWORD						

Wait for firmware to finish uploading.

It will take about two minutes.

192.168.123.254/home... × +

← → C http://192.168.123.254/home.htm ☆ 🔍

WLAN Access Point	SETUP	5G CONFIG	2.4G CONFIG	TCP/IP SETTINGS	FIREWALL	MANAGEMENT
STATUS	<h2>Upgrade Firmware</h2> <p>This page allows you to upgrade the Access Point firmware to the latest version. Please note, do not power off the device during the upload as it may crash the system.</p> <p>Firmware Version: v3.4.7.2 Fri Apr 24 20:06:59 CST 2015</p> <p>Select File: <input type="text" value="fw.bin"/> <input type="button" value="Browse..."/></p> <div><input type="button" value="Upload"/> <input type="button" value="Reset"/></div> <div><p>Please wait</p><div></div></div>					
STATISTICS						
DDNS						
TIME ZONE SETTING						
DENIAL-OF-SERVICE						
LOG						
UPGRADE FIRMWARE						
SAVE/RELOAD SETTINGS						
PASSWORD						

!!! Important !!!
Do not turn off or reboot router during this process or router may be damaged.

192.168.123.254/home... × +

← → C http://192.168.123.254/home.htm ☆ 🔍

WLAN Access Point	SETUP	5G CONFIG	2.4G CONFIG	TCP/IP SETTINGS	FIREWALL	MANAGEMENT
STATUS	<p>Changed setting successfully!</p> <div><p>Do not turn off or reboot the Router during this time!</p><p>Please wait 100 seconds ...</p></div>					
STATISTICS						
DDNS						
TIME ZONE SETTING						

3. Update Router Firmware

3.11 After firmware is upgraded the page may refresh automatically. It is possible that it will display a “webpage not available” message. If this happens just refresh the page and then log back into the router using username admin and leaving password blank.

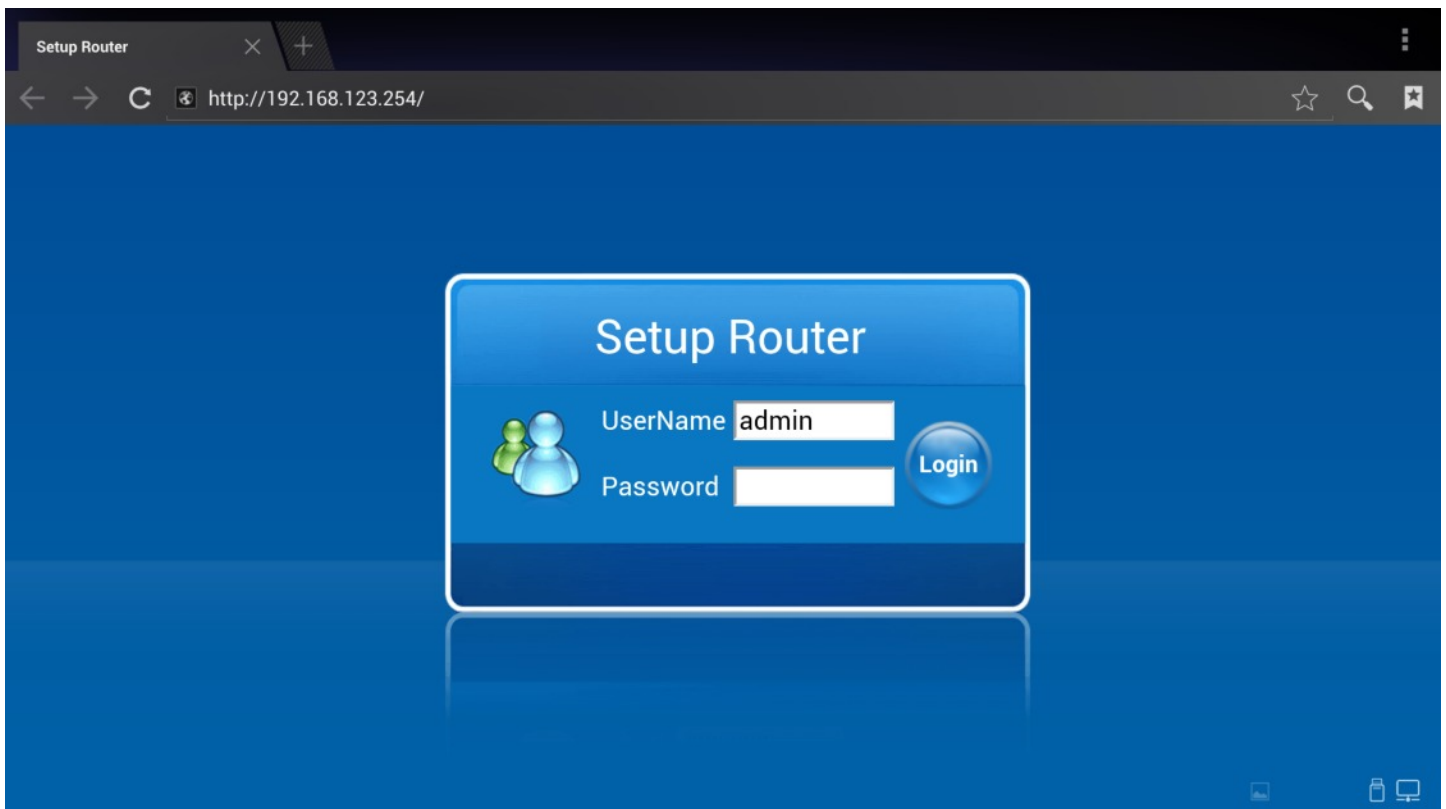


Webpage not available

The webpage at <http://192.168.123.254/> might be temporarily down or it may have moved permanently to a new web address.

Suggestions:

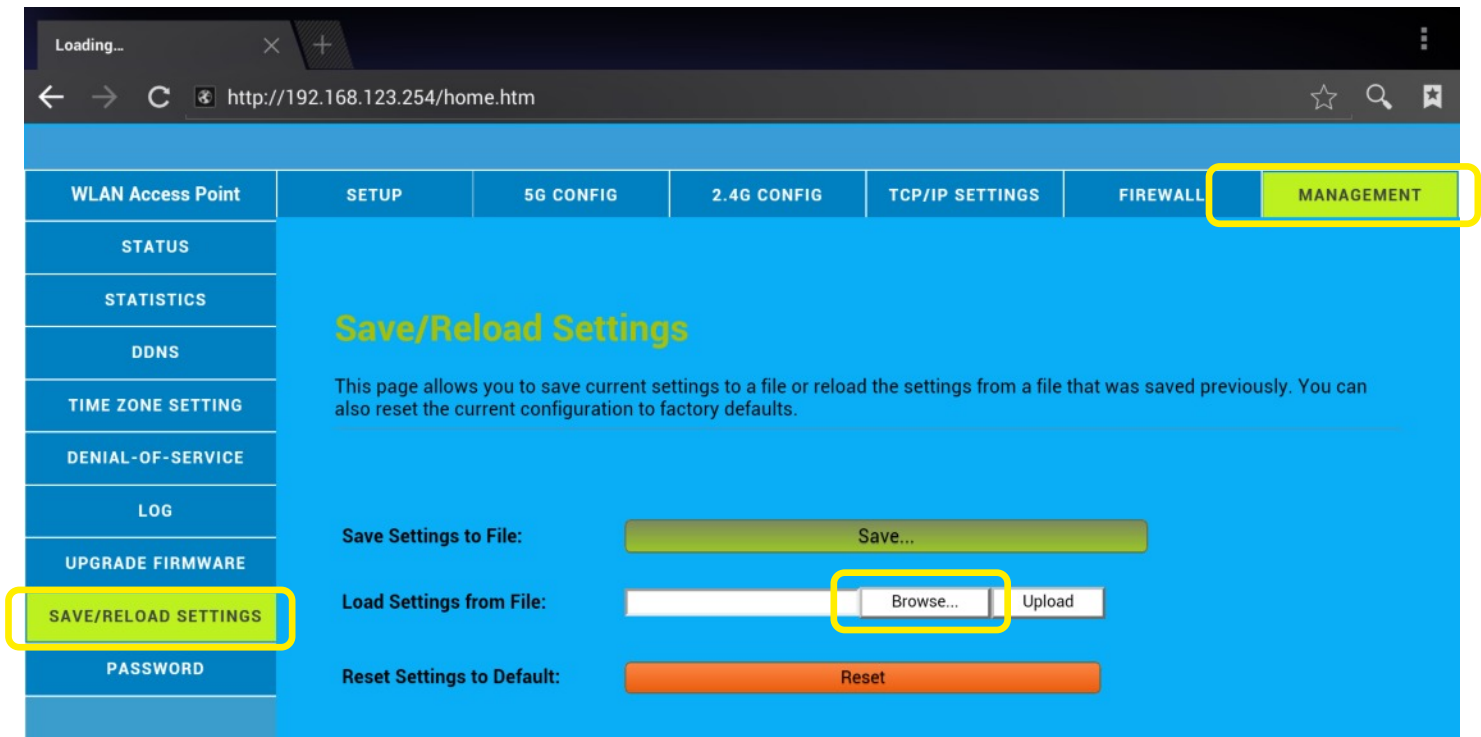
- Make sure you have a data connection
- Reload this webpage later
- Check the address you entered



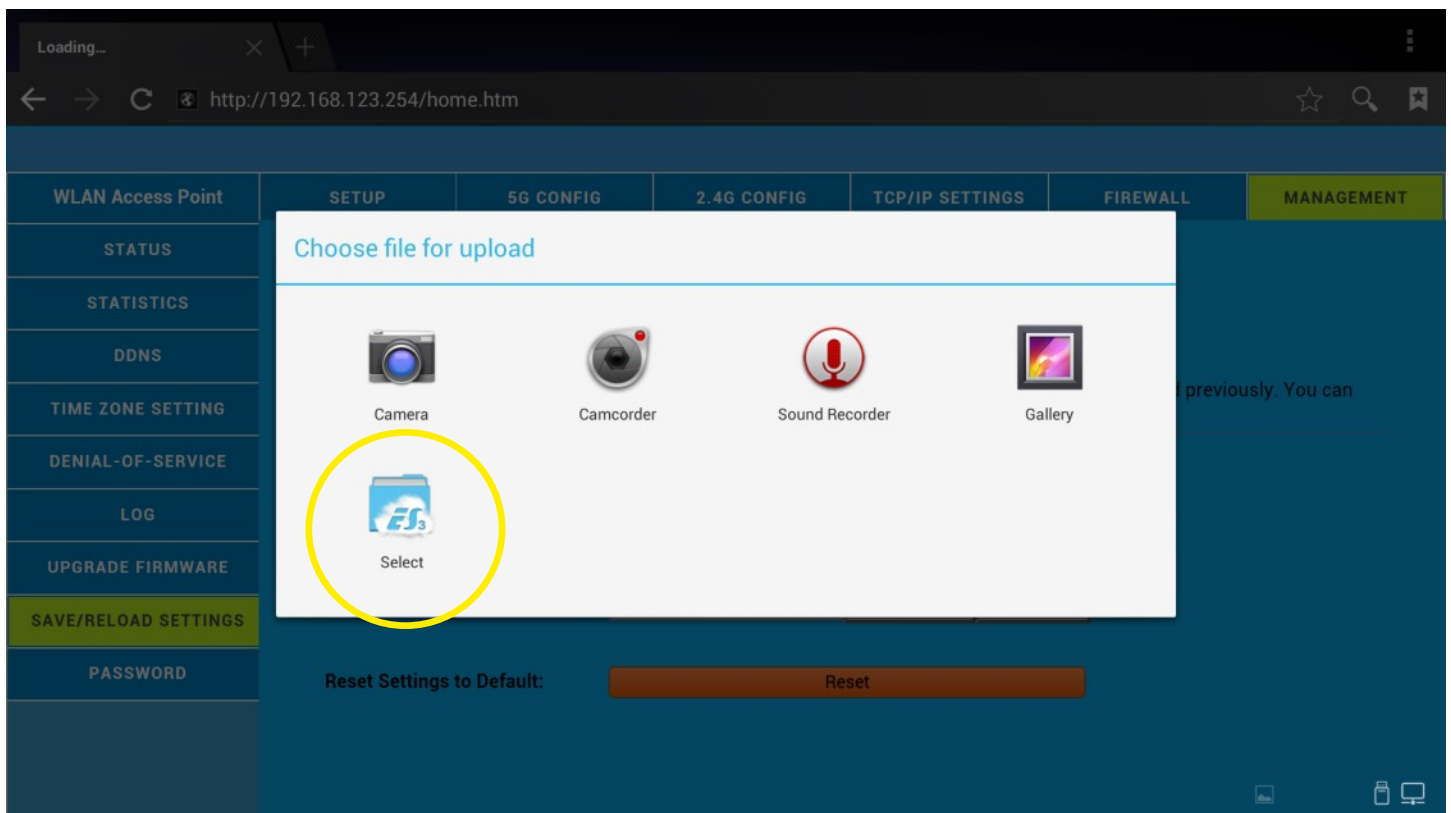
4. Update Default Settings For Router

Now that the router firmware has been updated it is necessary to update the router's default settings. This process is similar to updating the router firmware.

4.1 Select **Management** and then select **Save/Reload Settings** and then click on **Browse**.



4.2 Choose **Select** to open **ES** File Explore.



4. Update Default Settings For Router

4.3 Follow these steps:

Click here to move up one level.

Then select the USB drive it will be labeled:

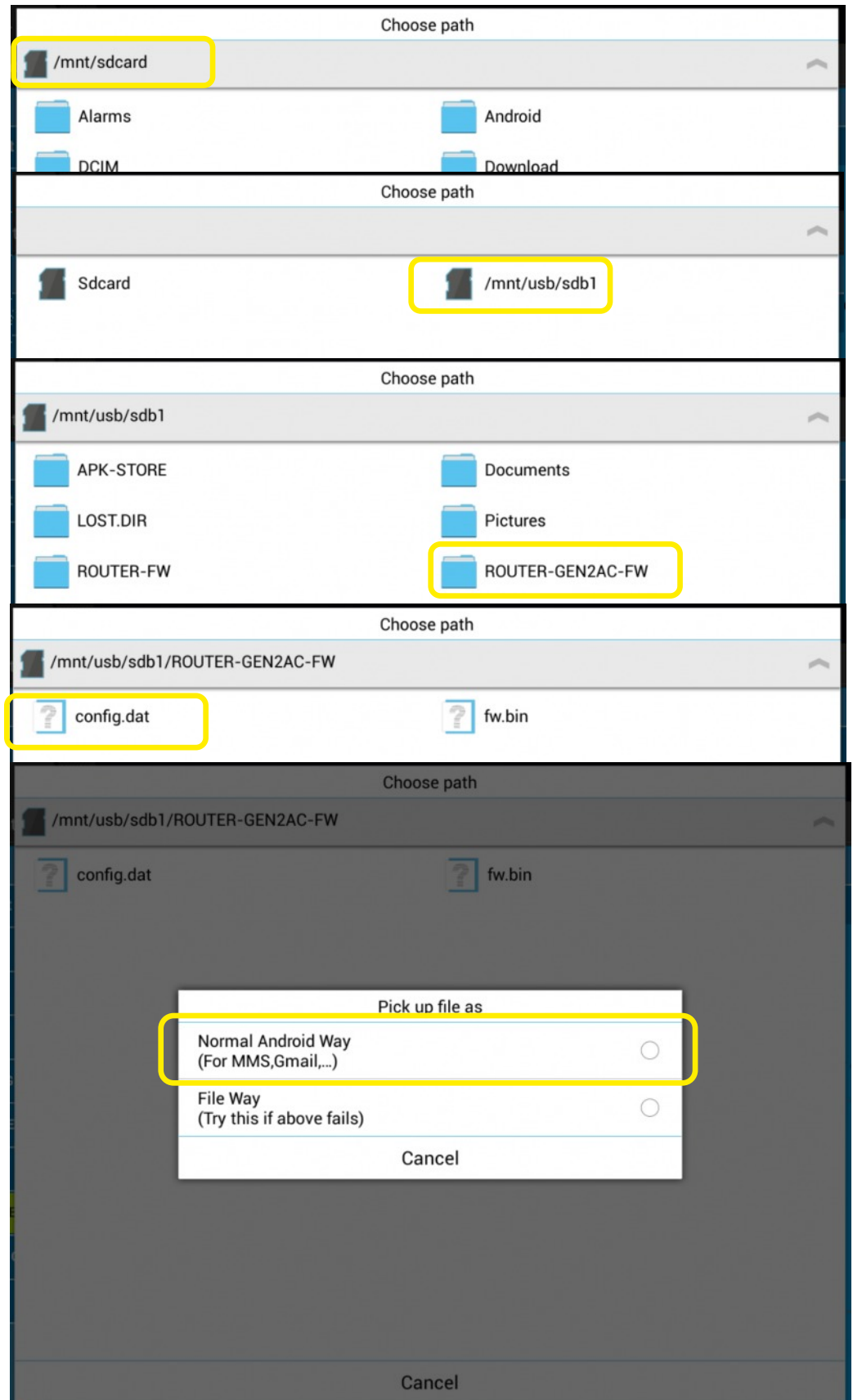
/mnt/usb/sda1 or

/mnt/usb/sdb1

Then choose folder containing the router firmware file (fw.bin)

Then select file config.dat.

Then select "Normal Android Way..."



4. Update Default Settings For Router

4.4 With **config-gw-96e-883.dat** file selected press **Upload**.

192.168.123.254/home... x +

← → ↻ http://192.168.123.254/home.htm ☆ 🔍 📖

WLAN Access Point	SETUP	5G CONFIG	2.4G CONFIG	TCP/IP SETTINGS	FIREWALL	MANAGEMENT
STATUS	<h3>Save/Reload Settings</h3> <p>This page allows you to save current settings to a file or reload the settings from a file that was saved previously. You can also reset the current configuration to factory defaults.</p> <p>Save Settings to File: <input type="button" value="Save..."/></p> <p>Load Settings from File: <input type="text" value="config.dat"/> <input type="button" value="Browse..."/> <input type="button" value="Upload"/></p> <p>Reset Settings to Default: <input type="button" value="Reset"/></p>					
STATISTICS						
DDNS						
TIME ZONE SETTING						
DENIAL-OF-SERVICE						
LOG						
UPGRADE FIRMWARE						
SAVE/RELOAD SETTINGS						
PASSWORD						

4.5 Wait for file to finish uploading. It will take about one minute.

!!! Important !!! Do not turn off or reboot router during this process or router may be damaged.

192.168.123.254/home... x +

← → ↻ http://192.168.123.254/home.htm ☆ 🔍 📖

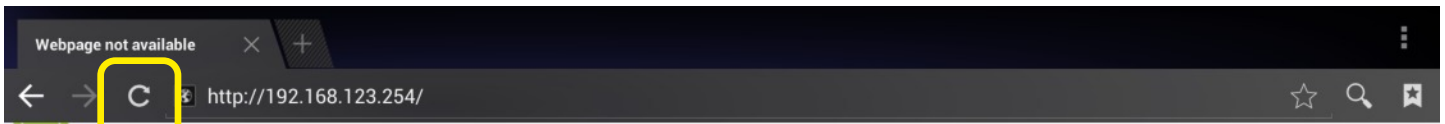
WLAN Access Point	SETUP	5G CONFIG	2.4G CONFIG	TCP/IP SETTINGS	FIREWALL	MANAGEMENT
STATUS	<div>Changed setting successfully!</div> <div>Do not turn off or reboot the Router during this time!</div> <div>Please wait 46 seconds ...</div>					
STATISTICS						
DDNS						
TIME ZONE SETTING						
DENIAL-OF-SERVICE						
LOG						
UPGRADE FIRMWARE						
SAVE/RELOAD SETTINGS						
PASSWORD						

5. Restore Factory Settings

This step makes the config-gw-96e-88e.dat file that was just uploaded the new factory default settings. This is an important step that should not be skipped.

5.1 If necessary refresh browser page and log back into the Router settings page.

Username: Admin Password: <leave blank>

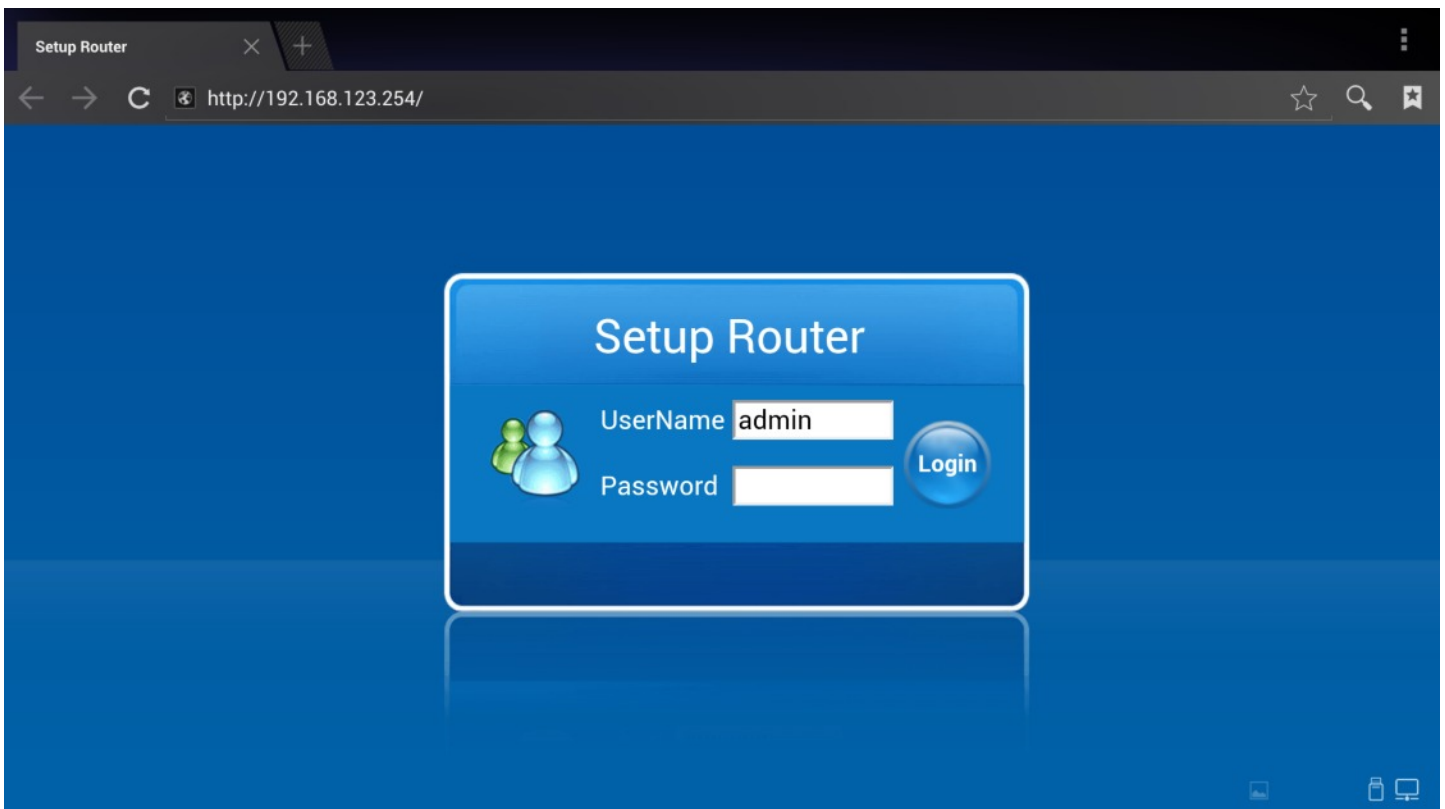


Webpage not available

The webpage at <http://192.168.123.254/> might be temporarily down or it may have moved permanently to a new web address.

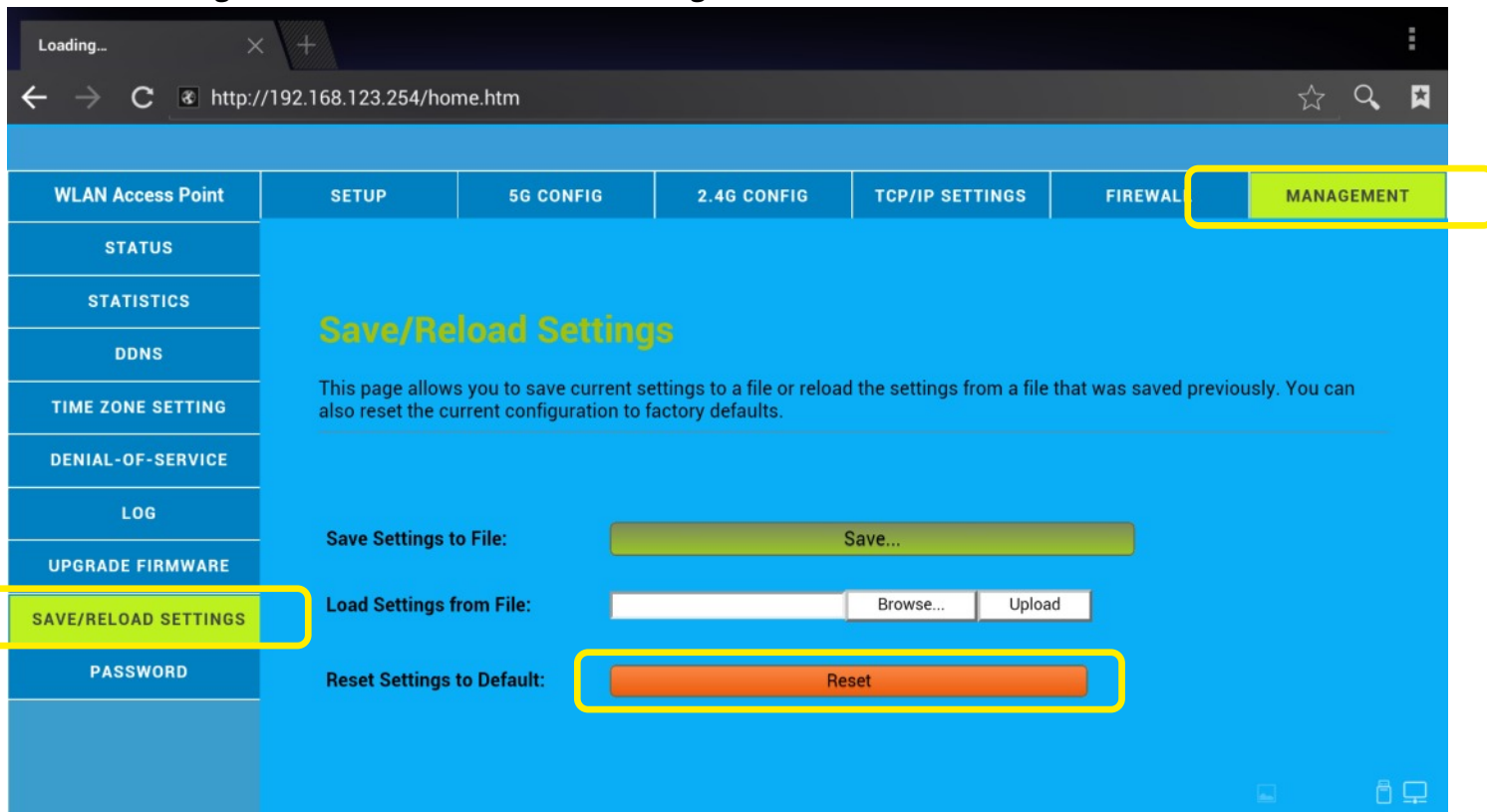
Suggestions:

- Make sure you have a data connection
- Reload this webpage later
- Check the address you entered



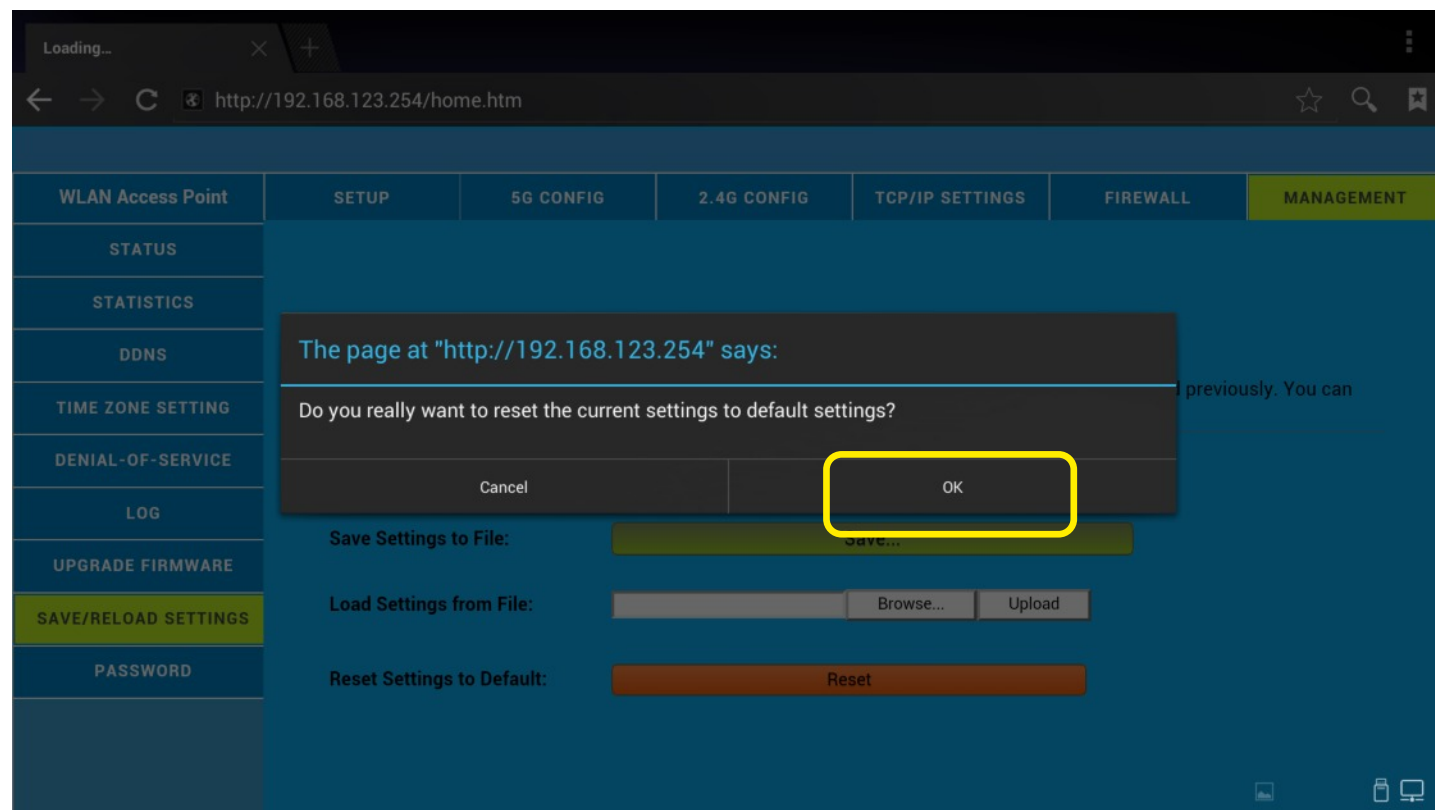
5. Restore Factory Settings

5.2 Select **Management** and then **Save/Reload Settings** and then **Reset**.



5.3 Press **OK** to restore factory settings.

!!! Important !!! Do not turn off or reboot router during this process or router may be damaged.



END OF GUIDE.

Setup Instructions for SimplicityTouch IFP equipped with Internal 802.11ac Router

Topic Covered: Connect to Wireless Network (WPA2)

Model Numbers Covered: 70" ST-700, Generation 2 (802.11ac); 65" ST-650U (802.11ac); 84" ST-840U (802.11ac)

Last Update: 07-24-15
e: support@recordexusa.com

TOOLS REQUIRED:

None.

ESTIMATED TIME REQUIRED:

Configure Router to work with Wireless Network	3 min
Connect to Wireless network	3 min
Total	6 min

Setup Instructions for SimplicityTouch IFP Router

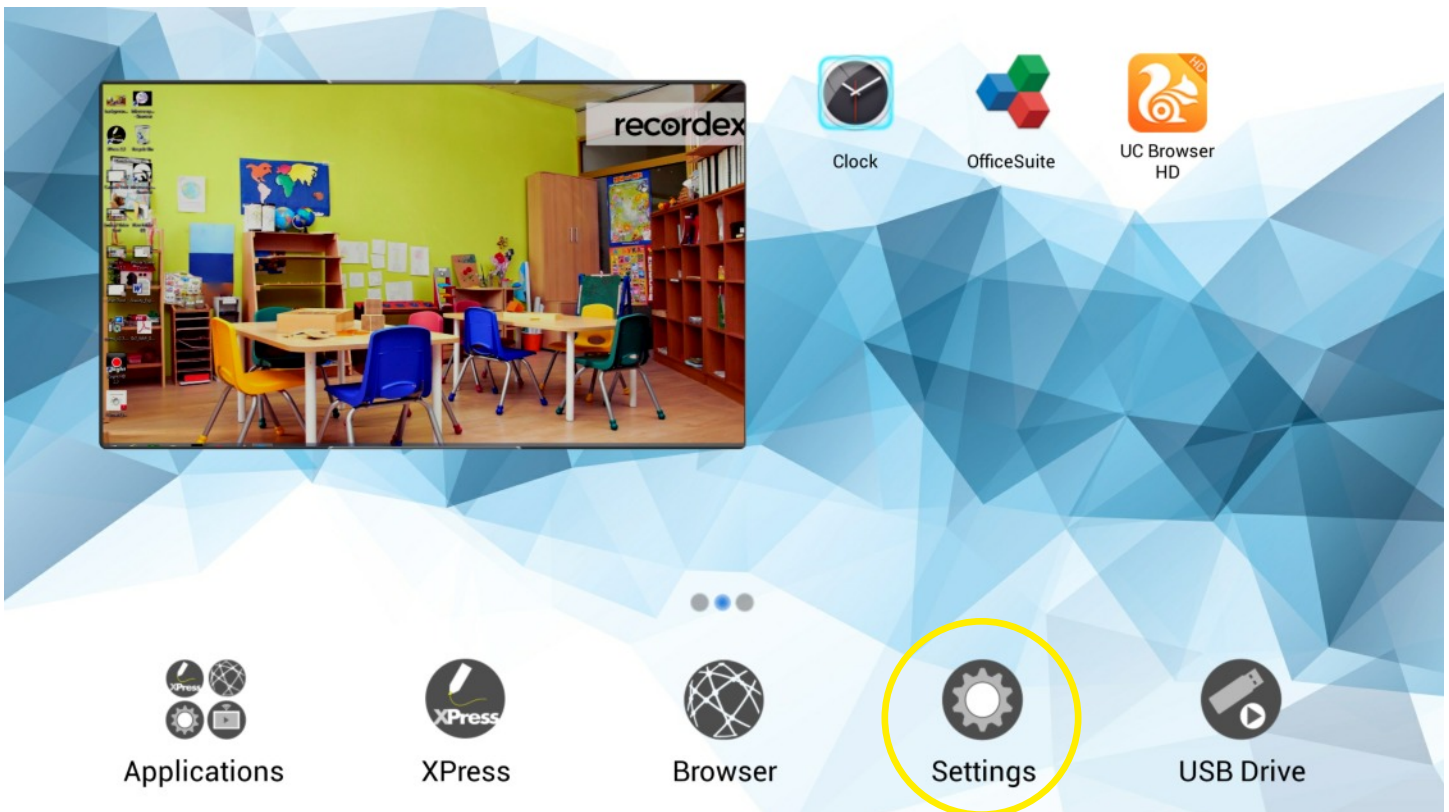
For Model Number: 70" ST-700, Generation 1

This guide will walk you through the steps necessary to configure the SimplicityTouch to connect to a wireless network that uses either no encryption or a pre-shared key (i.e. WPA2) encryption. Radius enterprise networks are covered in a separate guide.

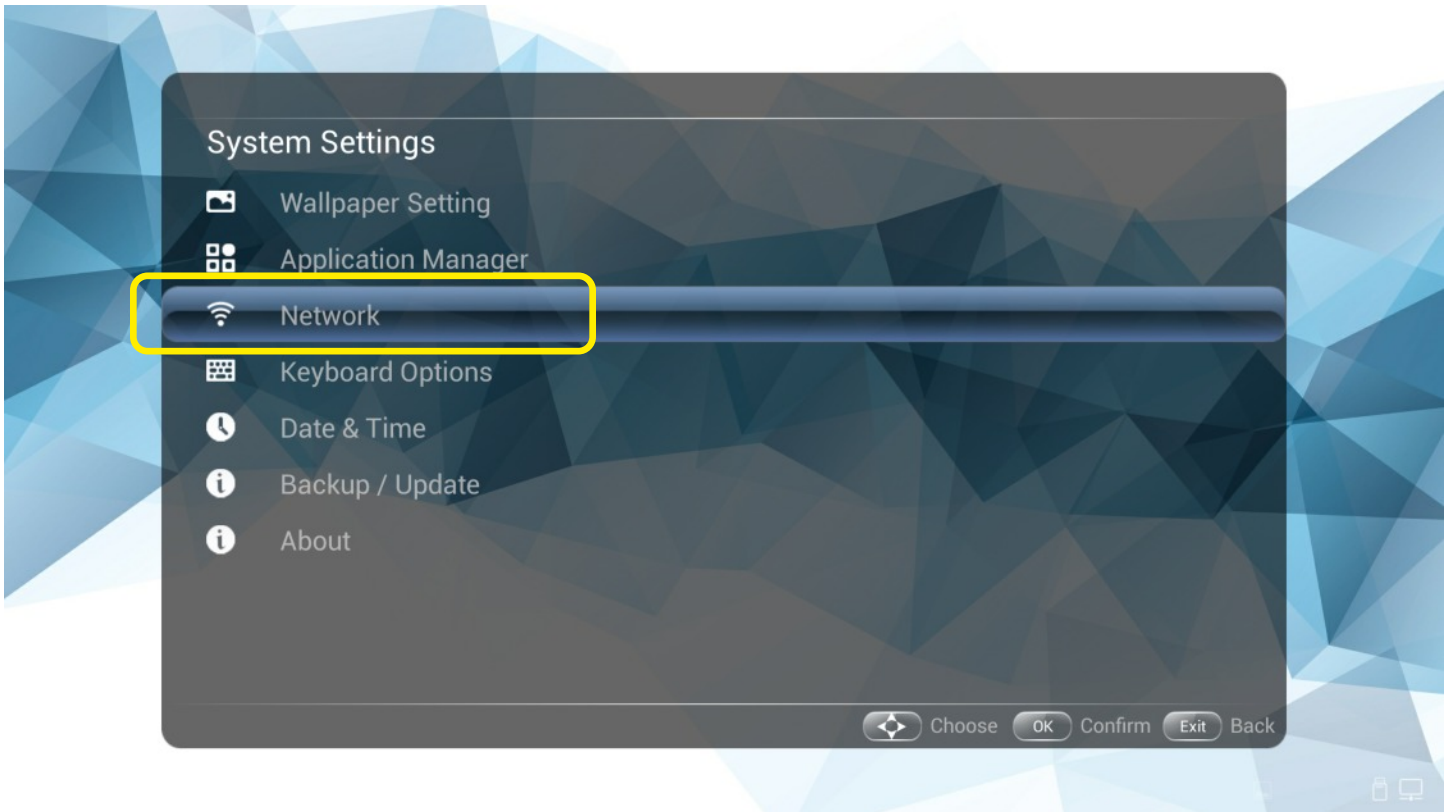
1. Go to **Home Screen**



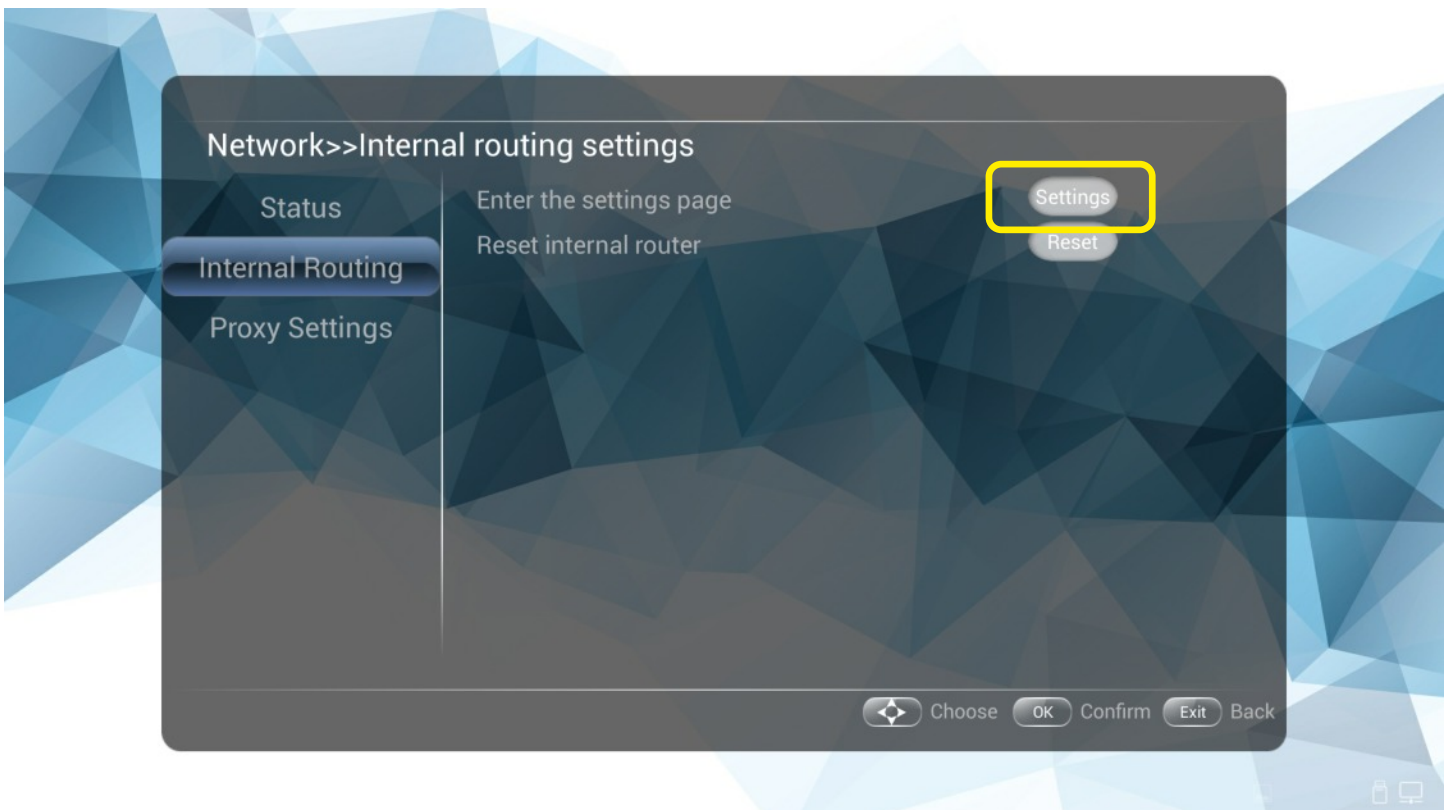
2. Open **Settings**



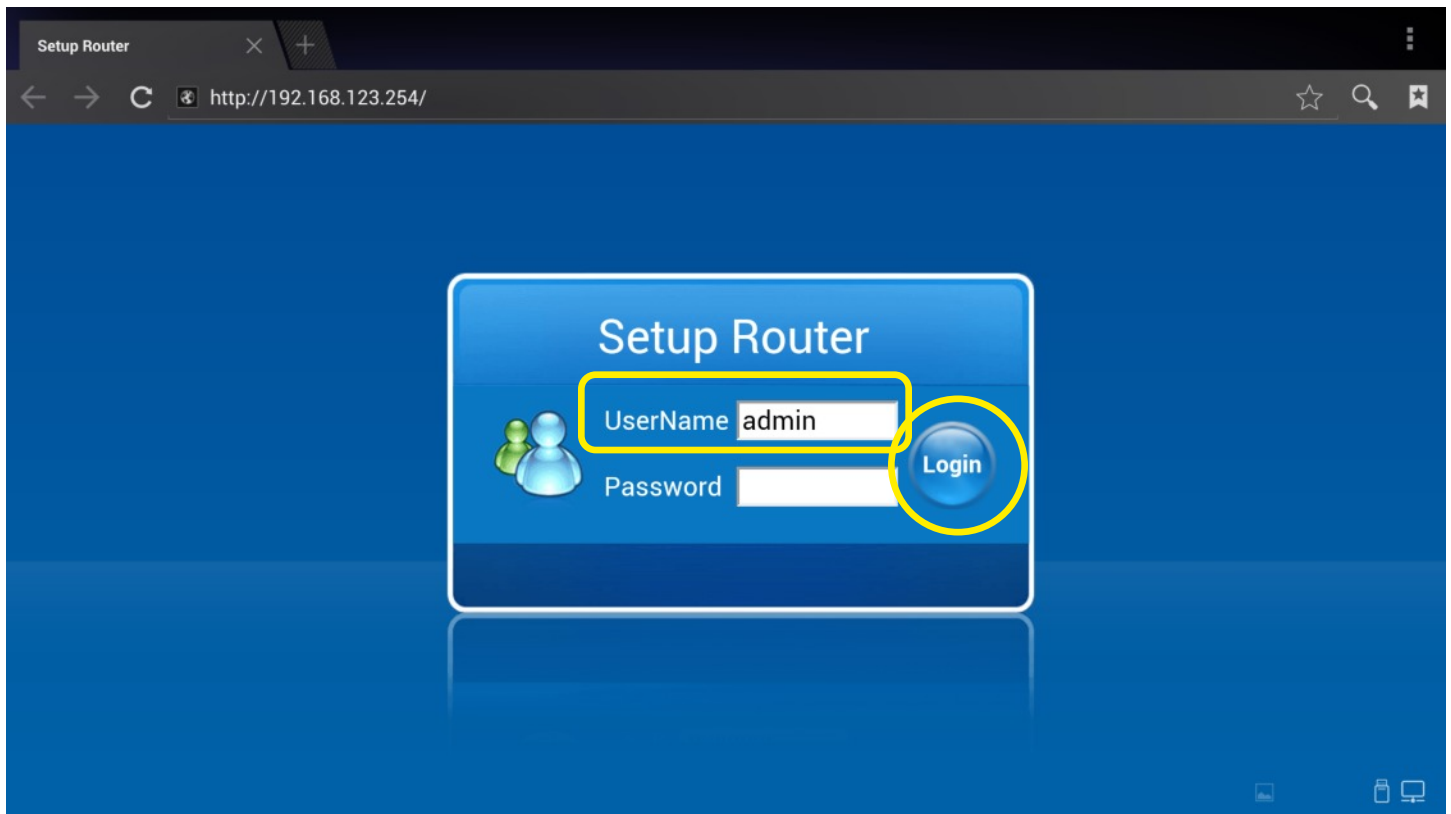
3. Open **Network** settings



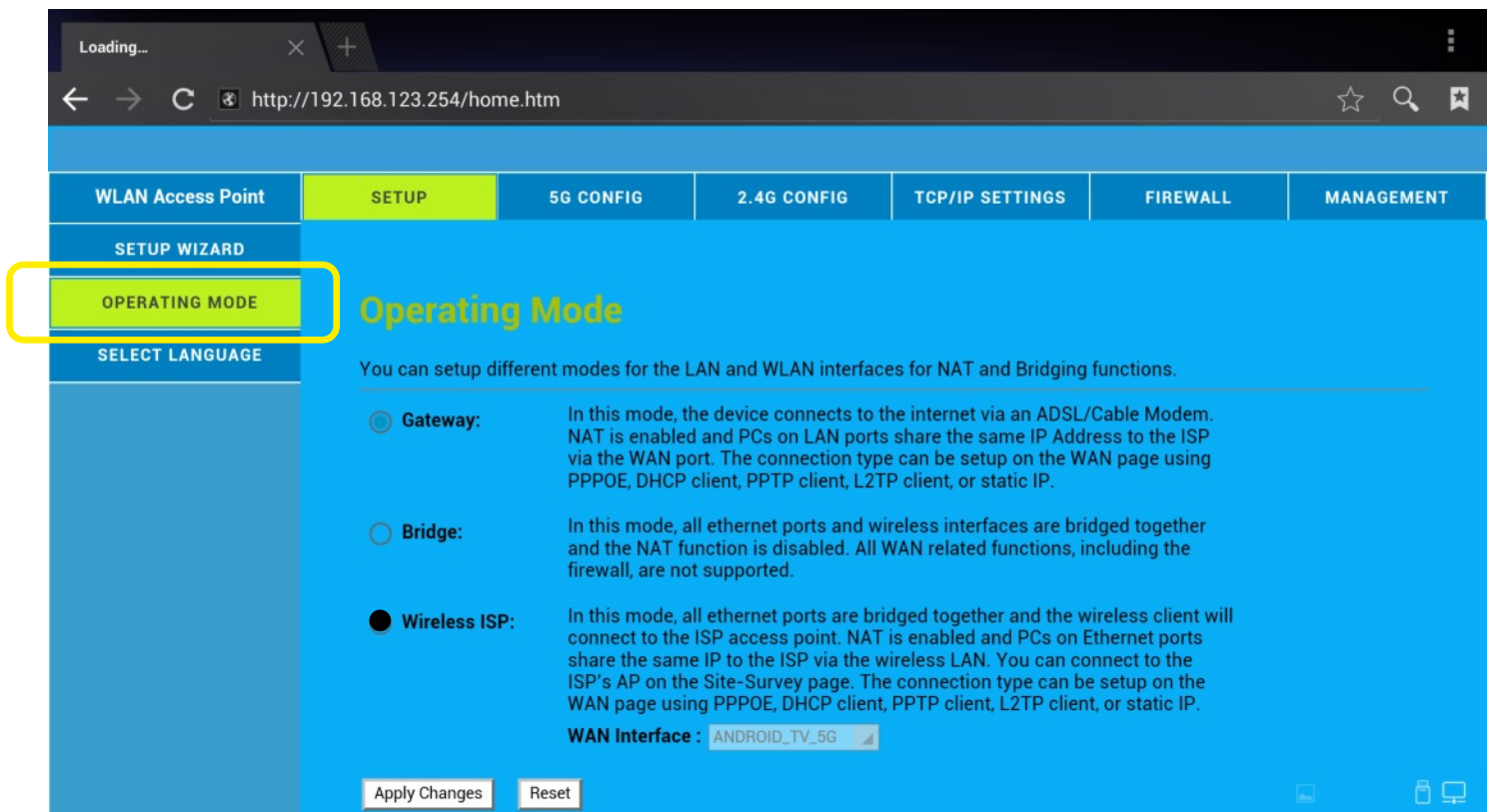
4. Open **Internal Routing Settings** Page



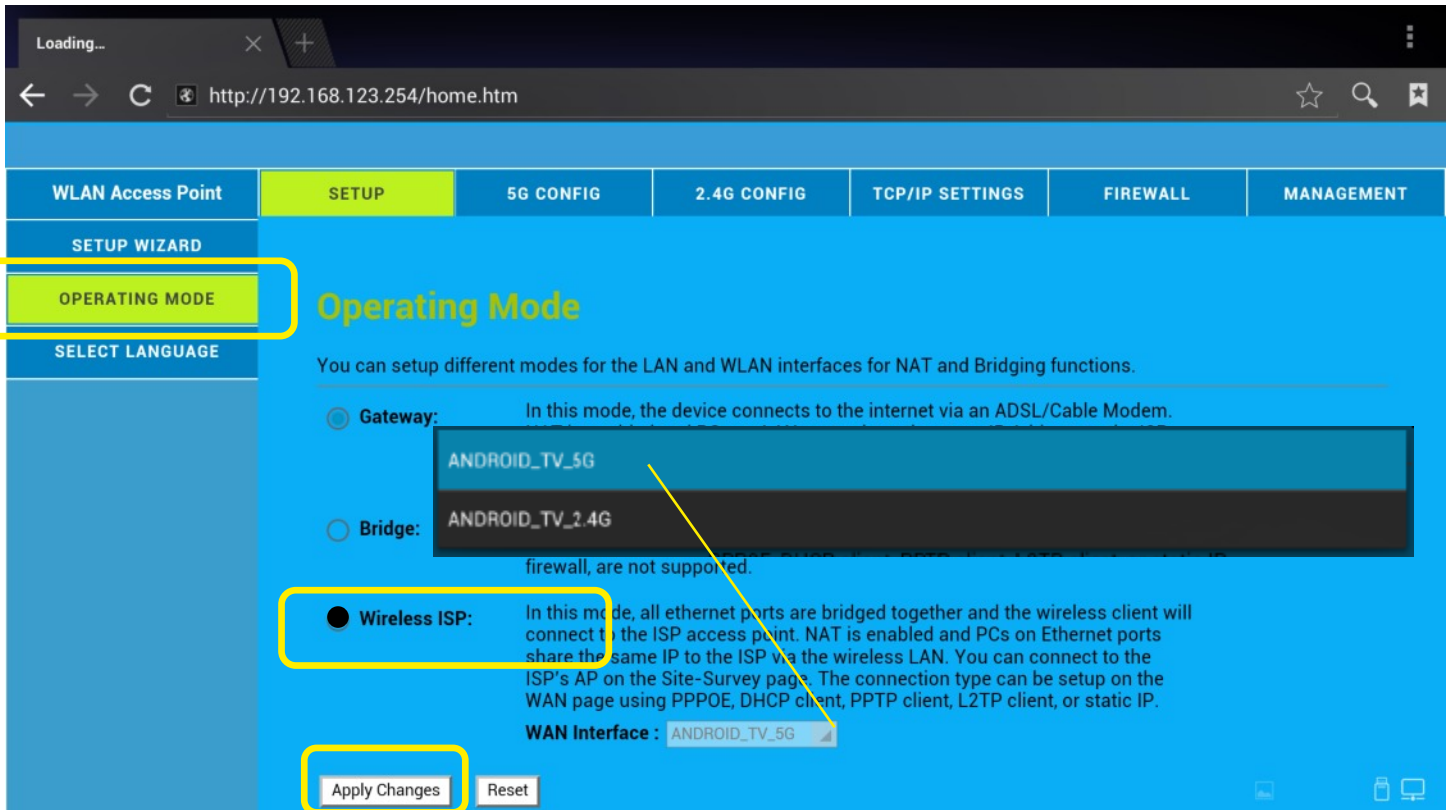
5. Login to Router: **UserName: admin** **Password: <leave blank>**



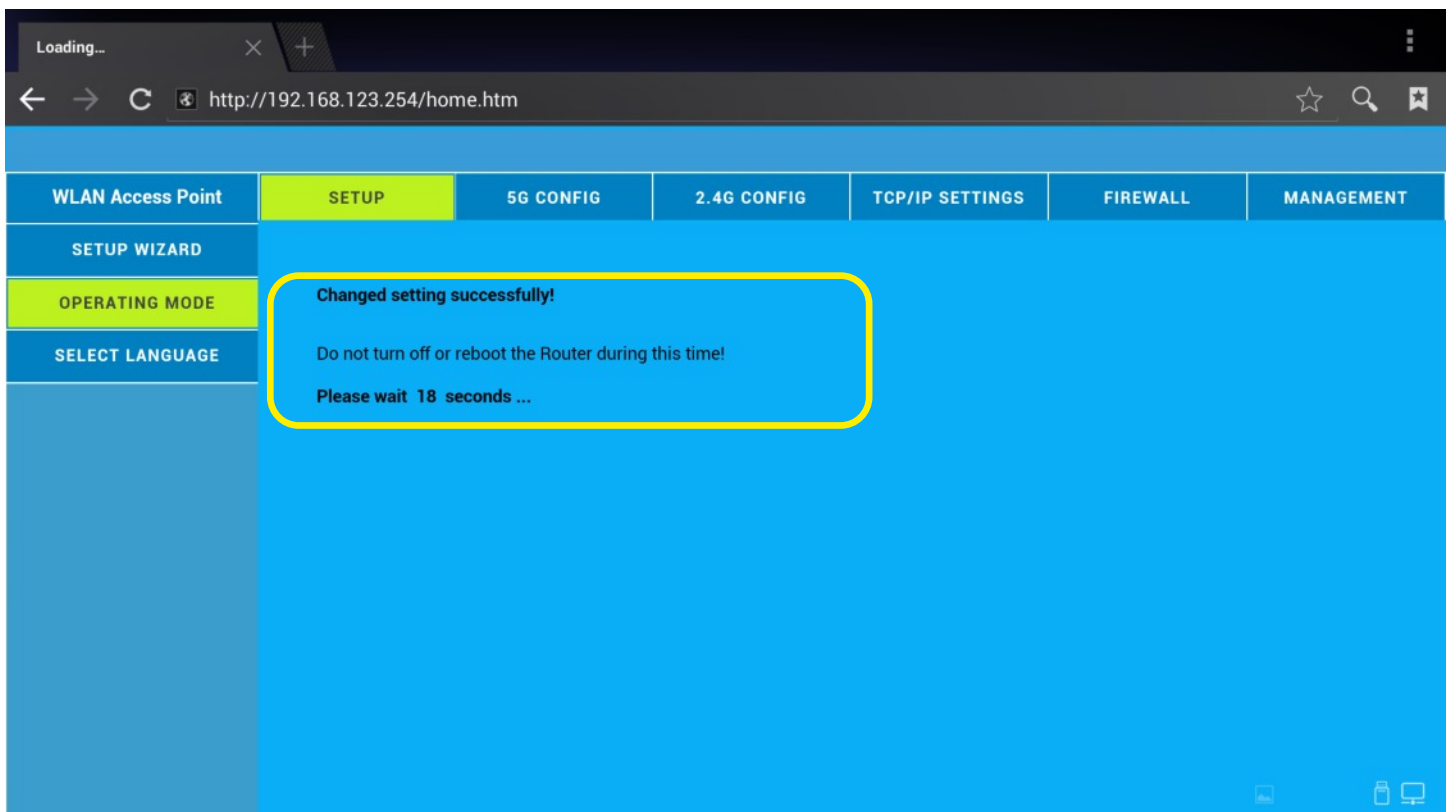
6. Select **Operating Mode** under the menu on left side of screen.



7. Select **Wireless ISP** mode and then chose 5G or 2.4G based on your network under WAN Interface & click **Apply Changes**.



8. Wait for settings to be applied. **!!! IMPORTANT !!!! Do not turn off or reboot the router during this time or it may damage the router.**



9. Select **5G CONFIG** or **2.4G CONFIG** and then select **Basic Settings** then change **Mode** to **Client**. Then scroll down and click **Apply Changes**.

NOTE: If you wish to use the SimplicityTouch as an access point through which other wireless devices can connect to your network then select AP mode. However, in most cases you will want to use the existing wireless infrastructure on your campus to handle all client access to the network. In other words your network admin will not want the SimplicityTouch to create an access point. Therefore, the most common configuration is to set the Mode to Client. In Client mode the SimplicityTouch will simply connect to your existing wireless network as a client. In client mode the SimplicityTouch SSID "Android_TV" is disabled but you are able to still connect the SimplicityTouch to your wireless network.

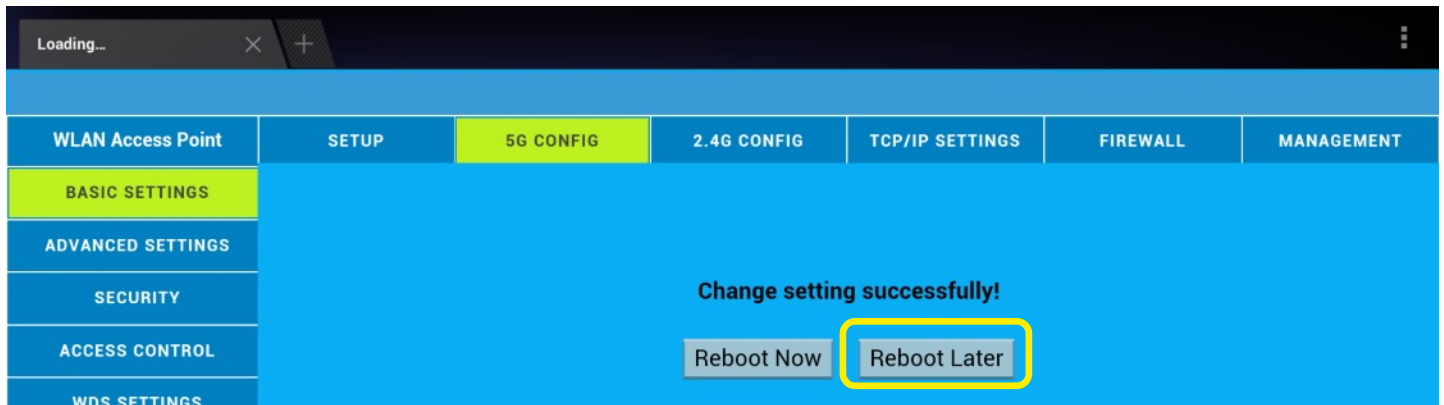
The screenshot shows a web browser window with the URL `http://192.168.123.254/home.htm`. The interface has a top navigation bar with tabs: **WLAN Access Point**, **SETUP**, **5G CONFIG** (highlighted with a yellow box), **2.4G CONFIG**, **TCP/IP SETTINGS**, **FIREWALL**, and **MANAGEMENT**. On the left, there is a sidebar menu with options: **BASIC SETTINGS** (highlighted), **ADVANCED SETTINGS**, **SECURITY**, **ACCESS CONTROL**, **WDS SETTINGS**, **SITE SURVEY**, **WPS**, **SCHEDULE**, and **802.1X CERT INSTALL**.

The main content area is titled **Wireless Basic Setting-5G**. It contains a description: "This page is used to configure the parameters for wireless LAN clients which may connect to your Access Point. Here you may change wireless encryption settings as well as wireless network parameters." Below this, there are several configuration options:

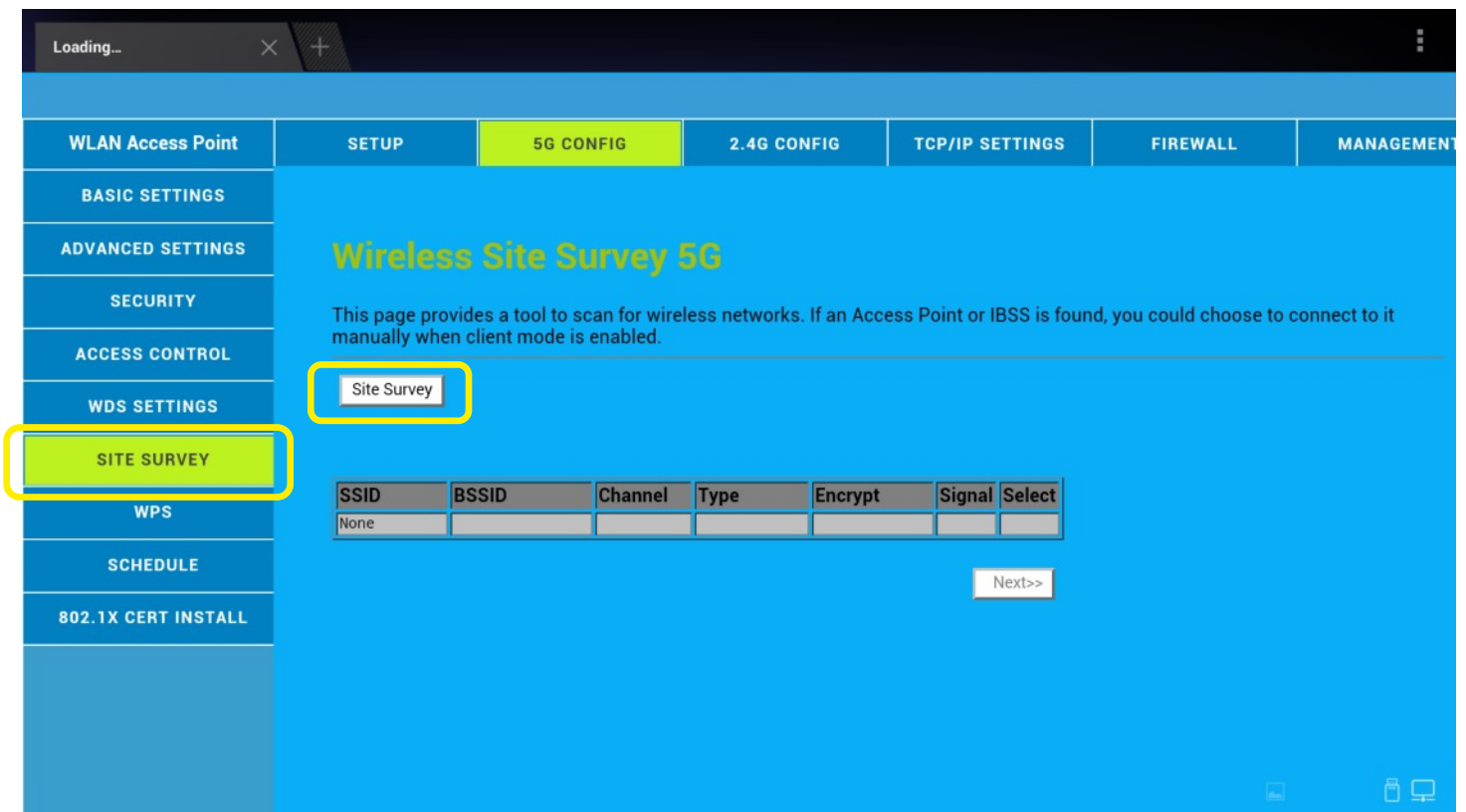
- ☐ **Disable Wireless LAN Interface**
- Band:** 5 GHz (A+N+AC)
- Mode:** CLIENT (highlighted with a yellow box). A dropdown menu is open, showing options: AP, Client (highlighted with a yellow box), WDS, and AP+WDS.
- Network Type:** Infrastructure
- SSID:** ANDROID_TV_5G
- Channel Width:** 80MHz
- Control Sideband:** Auto
- Channel Number:** Auto(DFS)
- Broadcast SSID:** Enabled
- WMM:** Enabled
- Data Rate:** Auto
- TX restrict:** 0 Mbps (0:no restrict)
- RX restrict:** 0 Mbps (0:no restrict)
- Associated Clients:** Show Active Clients
- ☐ **Enable Mac Clone (Single Ethernet Client)**
- ☒ **Enable Universal Repeater Mode (Acting as AP and client simultaneously)**
- SSID of Extended Interface:** RTK 11n AP RPT0
- ☐ **Enable Wireless Profile**
- Wireless Profile List:** A table with columns **SSID**, **Encrypt**, and **Select**. Below the table are buttons **Delete Selected** and **Delete All**.

At the bottom of the page, there are two buttons: **Apply Changes** (highlighted with a yellow box) and **Reset**.

10. After changes are applied choose **Reboot Later** and go to step 11.



11. Select **5G CONFIG** or **2.4G CONFIG** from the top menu then **Site Survey** from the left menu and then press **Site Survey** button to scan for available wireless networks.



12. **Select** your network from the list and press **Next**.

Loading...

WLAN Access Point

BASIC SETTINGS

ADVANCED SETTINGS

SECURITY

ACCESS CONTROL

WDS SETTINGS

SITE SURVEY

WPS

SCHEDULE

802.1X CERT INSTALL

SETUP

5G CONFIG

2.4G CONFIG

TCP/IP SETTINGS

FIREWALL

MANAGEMENT

Wireless Site Survey 5G

This page provides a tool to scan for wireless networks. If an Access Point or IBSS is found, you could choose to connect to it manually when client mode is enabled.

Site Survey

SSID	BSSID	Channel	Type	Encrypt	Signal	Select
YOUR SSID	c4:04:15:23:6c:ab	153 (A+N+AC)	AP	WPA2-PSK	40	<input checked="" type="radio"/>

Next>>

13. Select appropriate settings for your wireless network. Below is a table showing the most commonly selected settings, however, your network admin can provide you with the correct settings for your wireless network.

Wireless Network Setting	Options	Most Common Selection
Encryption	None, WEP, WPA, WPA2	WPA2
Authentication Mode	Enterprise (RADIUS)* Personal (Pre-Shared Key)	Personal (Pre-Shared Key).
WPA2 Cipher Suite	TKIP, AES	AES
Pre-Shared Key Format	Passphrase or Hex(64)	Passphrase
Pre-Shared Key	Set by network admin	Get the passphrase from your network admin

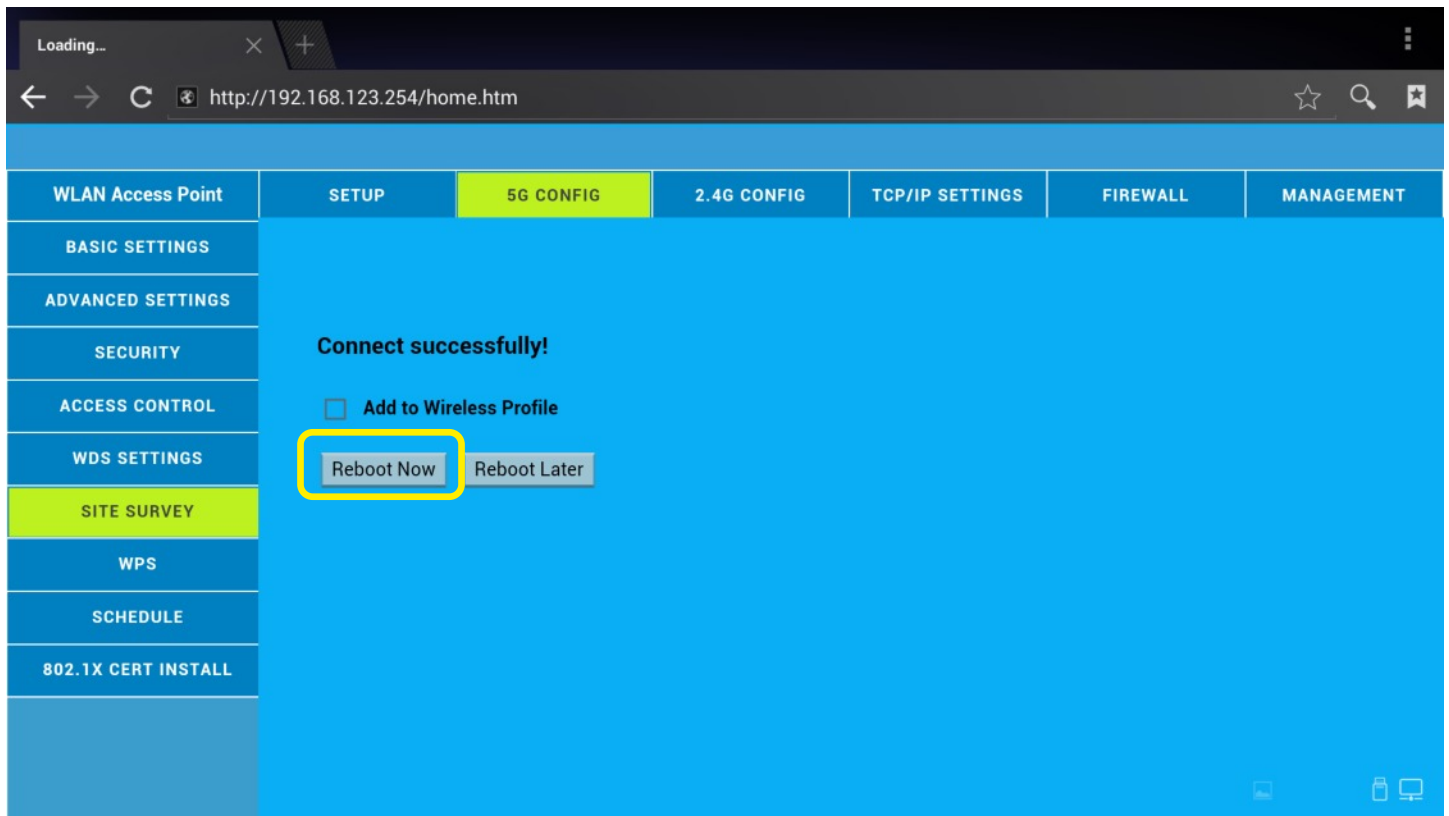
*If you are using RADIUS network then refer to separate setup guide for connecting to RADIUS network.

The screenshot shows the 'Wireless Site Survey 5G' configuration page. The left sidebar contains a menu with options: WLAN Access Point, BASIC SETTINGS, ADVANCED SETTINGS, SECURITY, ACCESS CONTROL, WDS SETTINGS, SITE SURVEY (highlighted), WPS, SCHEDULE, and 802.1X CERT INSTALL. The main content area has a title 'Wireless Site Survey 5G' and a description: 'This page provides a tool to scan for wireless networks. If an Access Point or IBSS is found, you could choose manually when client mode is enabled.' Below this, there are several configuration fields: 'Encryption' is set to 'WPA2'; 'Authentication Mode' has 'Personal (Pre-Shared Key)' selected; 'WPA2 Cipher Suite' has 'AES' selected; 'Pre-Shared Key Format' is set to 'Passphrase'; and 'Pre-Shared Key' is an empty text field. A yellow box highlights the 'Connect' button. A yellow arrow points from the 'Personal (Pre-Shared Key)' radio button to a dropdown menu showing 'NONE', 'WEP', 'WPA', and 'WPA2'. Another yellow arrow points from the 'Passphrase' dropdown to a text input field containing 'Passphrase'. A third yellow arrow points from the 'Pre-Shared Key' text field to a text input field containing 'Passphrase'. The bottom of the page has a 'Please wait' message.

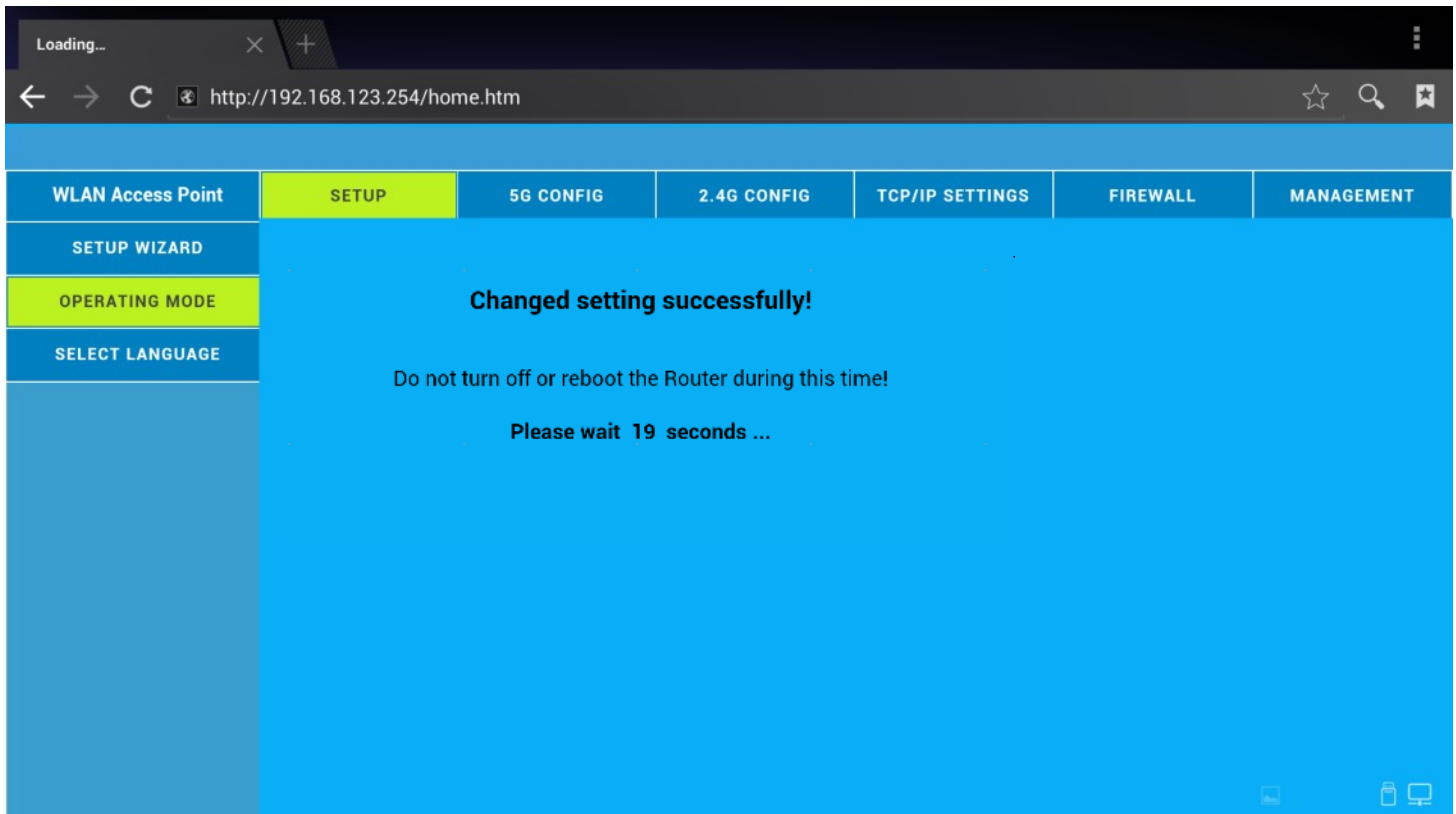
14. Wait while the panel connects to your wireless network.

The screenshot shows the 'Wireless Site Survey 5G' configuration page after the 'Connect' button was pressed. The page now displays 'Please wait' in the main content area. The browser address bar shows 'http://192.168.123.254/home.htm'. The left sidebar and top navigation bar are the same as in the previous screenshot.

15. If the information was entered correctly you should see Connect Successfully! Press **Reboot Now** to finalize the new settings and restart the router. (Note: It is recommended to reboot since this is usually required for the panel to be assigned an IP address by your network DHCP server.



15. Wait for the router to reboot. **!!! IMPORTANT !!! Do not turn off the router while it is rebooting.**



16. When the router reboots you can check the main router status page to see if the panel is connected to your wireless network and whether it has been assigned an IP address by your DHCP server.

The screenshot shows a web browser interface for a router. The address bar displays 'http://192.168.123.254/home.htm'. The navigation menu includes 'WLAN Access Point', 'SETUP', '5G CONFIG', '2.4G CONFIG', 'TCP/IP SETTINGS', 'FIREWALL', and 'MANAGEMENT'. The 'MANAGEMENT' tab is selected, and the 'STATUS' sub-tab is active. The main content area is titled 'Access Point Status' and contains a table of system and configuration details.

System	
Uptime	0day:0h:0m:52s
Firmware Version	v3.4.7.2
Build Time	Fri Apr 24 20:06:59 CST 2015

Wireless 5G Configuration	
Mode	Infrastructure Client
Band	5 GHz (A+N+AC)
SSID	YOUR SSID WILL SHOW HERE
Channel Number	153
Encryption	WPA2
BSSID	c4:04:15:23:6c:ab
State	Connected

TCP/IP Configuration	
Attain IP Protocol	Fixed IP
IP Address	192.168.123.254
Subnet Mask	255.255.255.0
Default Gateway	192.168.123.254
DHCP Server	Enabled
MAC Address	7c:b2:32:00:00:01

WAN Configuration	
Attain IP Protocol	DHCP
IP Address	192.168.1.30
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
MAC Address	7c:b2:32:00:00:02

If the panel failed to connect try the following:

- 1) **Repeat the process.** Often it is just a missed setting or a typo when entering the passphrase.
- 2) **Check antenna.** Make sure that the antenna is connected to the panel. The antennas attach to right side of panel near input ports.
- 3) **Check with network admin.** All the settings must be perfect in order to connect. Double check the network settings with your network administrator.

Setup Instructions for SimplicityTouch IFP equipped with Internal 802.11ac Router

Topic Covered: Connect to Wireless Network (RADIUS)

Model Numbers Covered: 70" ST-700, Generation 2 (802.11ac); 65" ST-650U (802.11ac); 84" ST-840U (802.11ac)

Last Update: 07-25-15
e: support@recordexusa.com

TOOLS REQUIRED:

None.

ESTIMATED TIME REQUIRED:

Configure Router to work with Wireless Network	3 min
Connect to Wireless network	3 min
Total	6 min

Setup Instructions for SimplicityTouch IFP Router

For Model Number: ST-700 (gen2/802.11ac); ST-650U; ST-840U

This guide will walk you through the steps necessary to configure the SimplicityTouch to connect to a wireless network that uses RADIUS enterprise encryption and security. Instructions for connecting to a WPA, WPA2 network is provided in a separate guide.

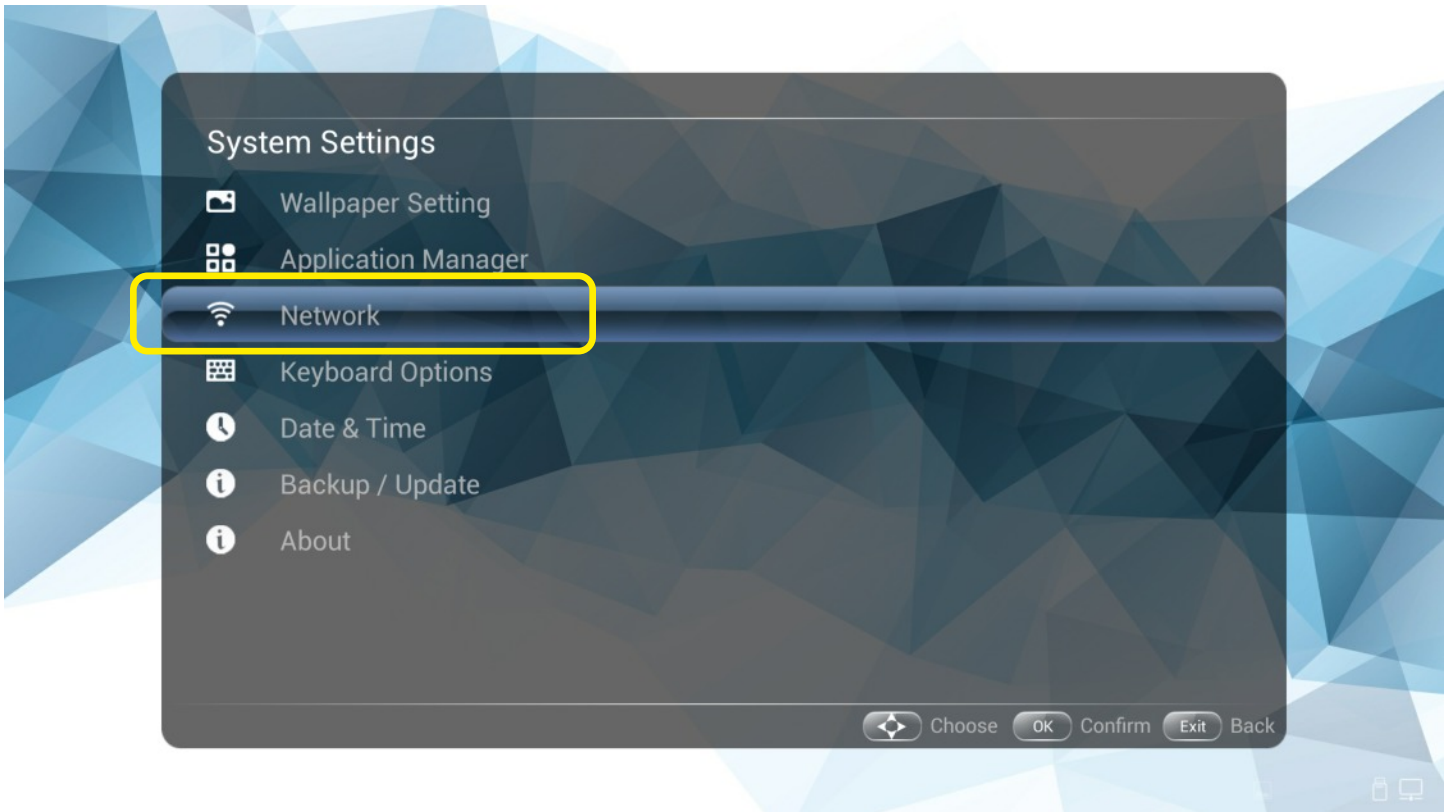
1. Go to **Home Screen**



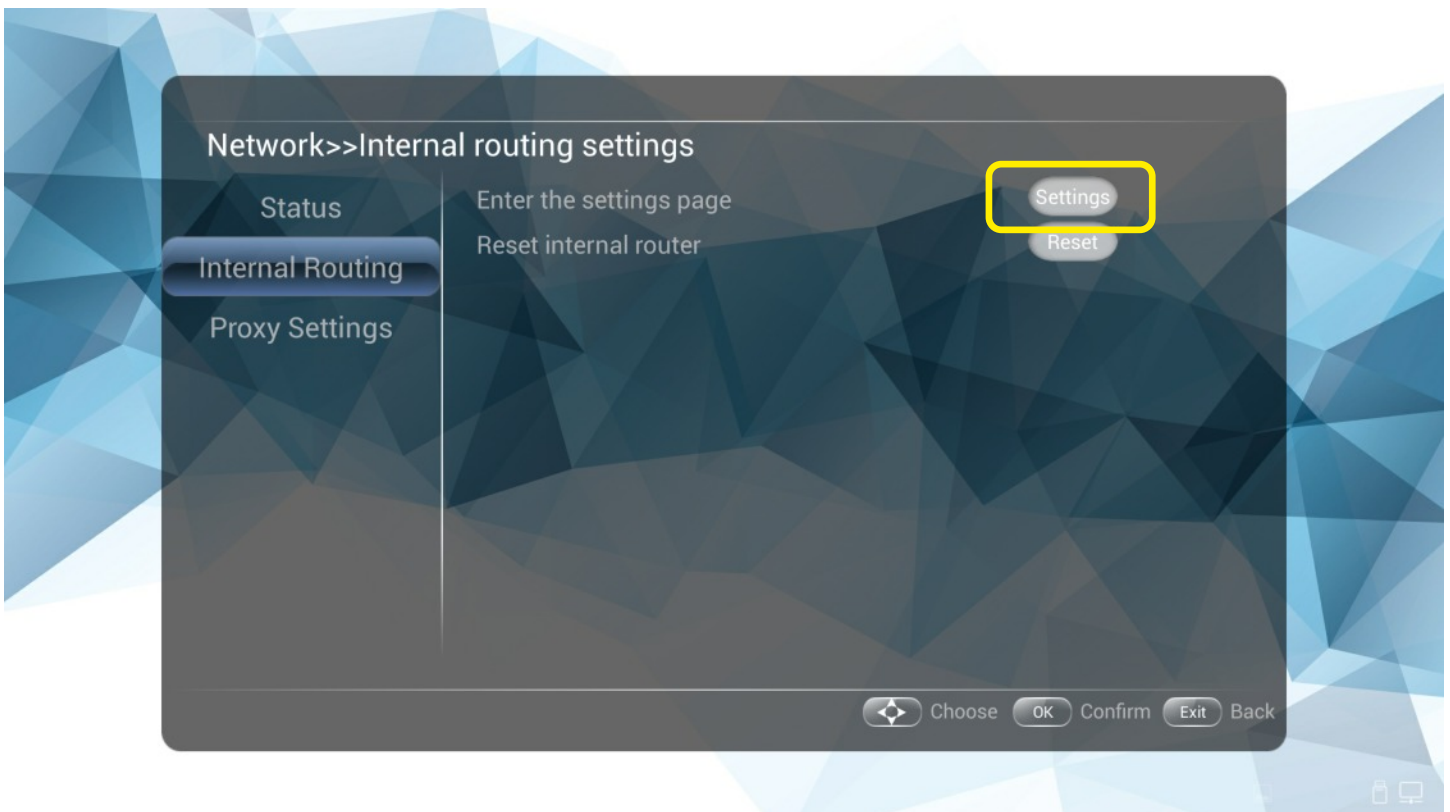
2. Open **Settings**



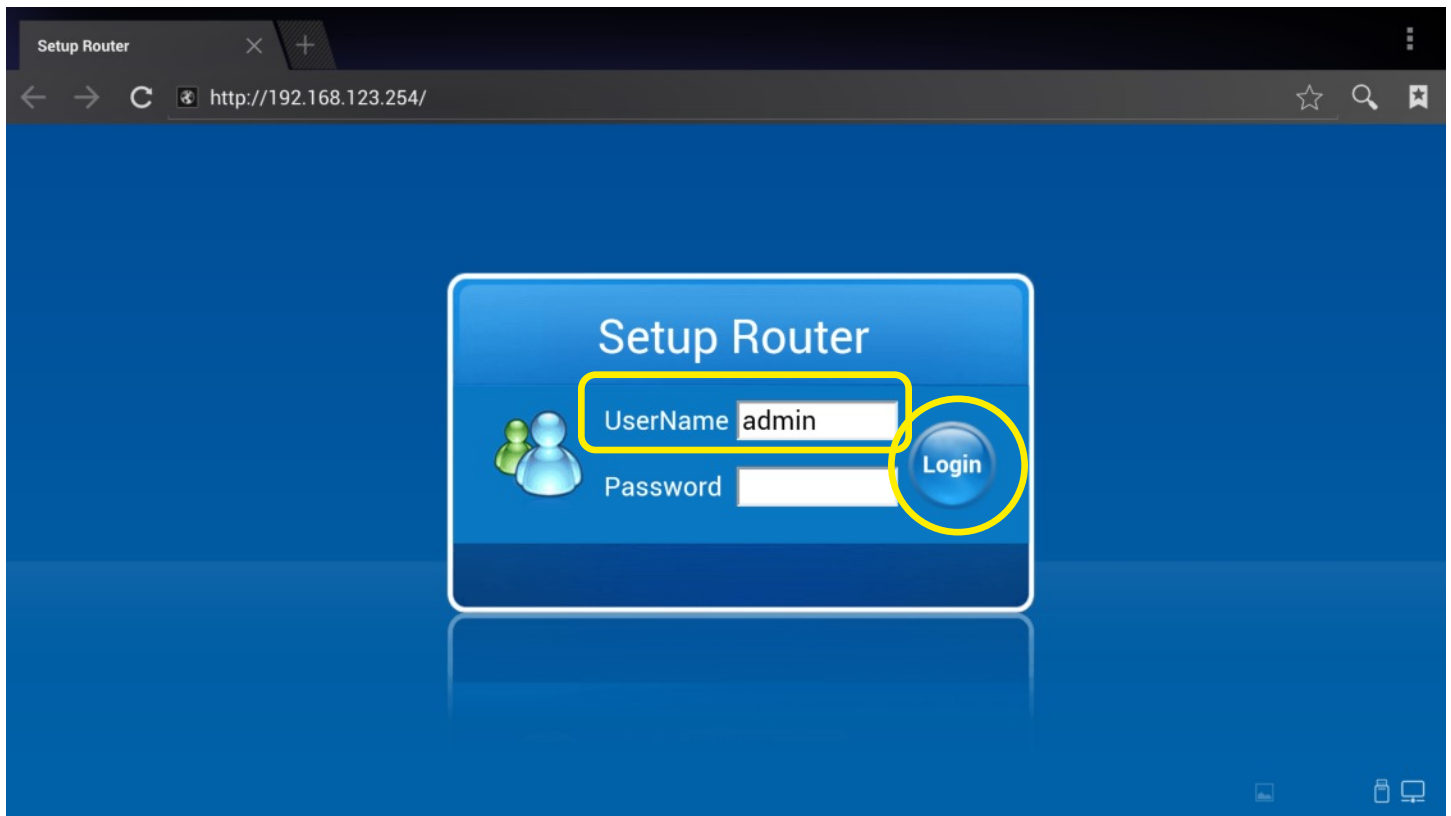
3. Open **Network** settings



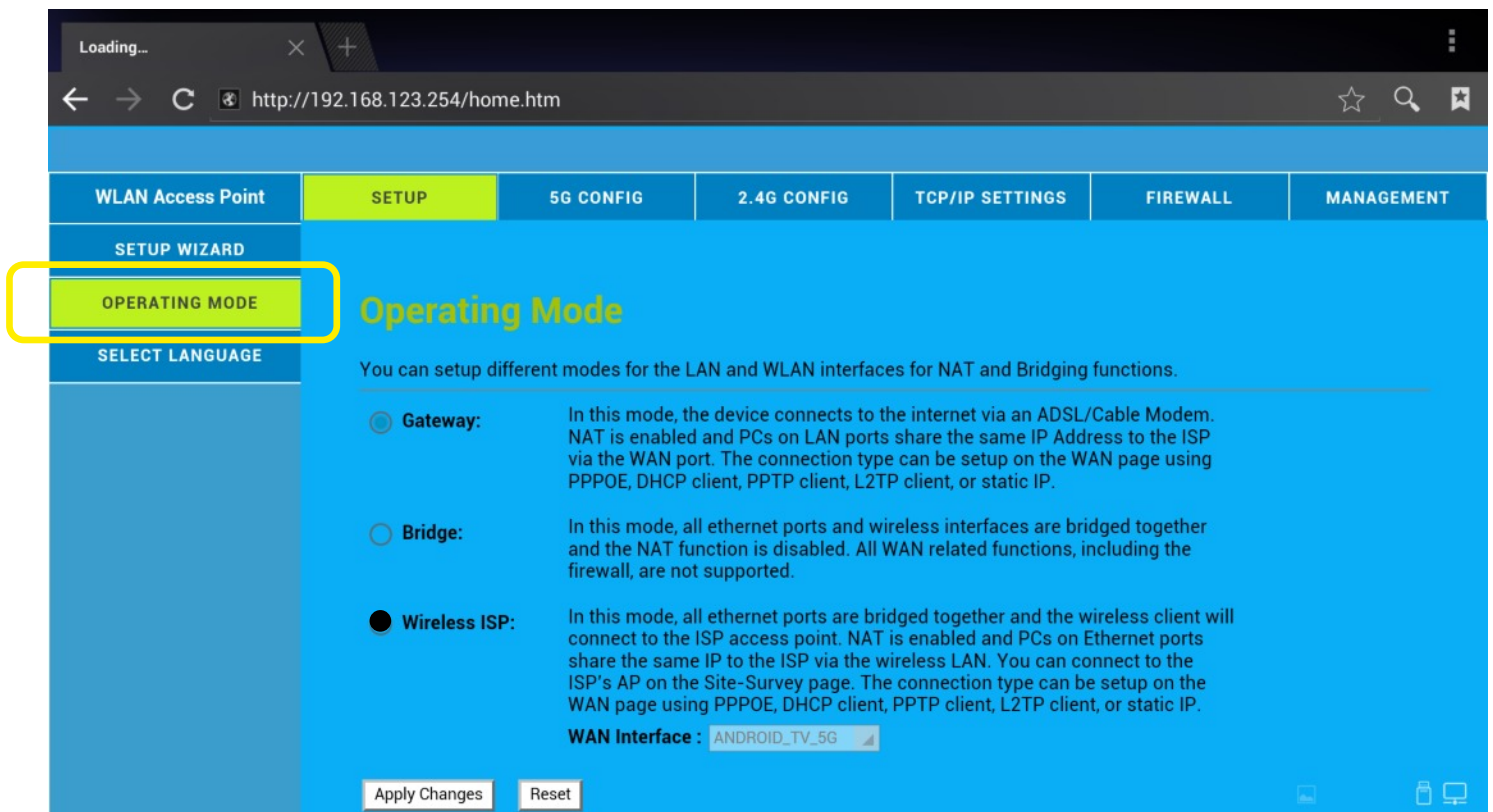
4. Open **Internal Routing Settings** Page



5. Login to Router: **UserName: admin Password: <leave blank>**



6. Select **Operating Mode** under the menu on left side of screen.



7. Select **Wireless ISP** mode and then chose 5G or 2.4G based on your network under WAN Interface & click **Apply Changes**.

Loading... [x](#) [+](#)

← → ↻ <http://192.168.123.254/home.htm> ☆ 🔍 📌

WLAN Access Point	SETUP	5G CONFIG	2.4G CONFIG	TCP/IP SETTINGS	FIREWALL	MANAGEMENT
SETUP WIZARD						
OPERATING MODE						
SELECT LANGUAGE						

Operating Mode

You can setup different modes for the LAN and WLAN interfaces for NAT and Bridging functions.

☒ **Gateway:** In this mode, the device connects to the internet via an ADSL/Cable Modem.

☐ **Bridge:** firewall, are not supported.

☒ **Wireless ISP:** In this mode, all ethernet ports are bridged together and the wireless client will connect to the ISP access point. NAT is enabled and PCs on Ethernet ports share the same IP to the ISP via the wireless LAN. You can connect to the ISP's AP on the Site-Survey page. The connection type can be setup on the WAN page using PPPoE, DHCP client, PPTP client, L2TP client, or static IP.

WAN Interface : ANDROID_TV_5G

8. Wait for settings to be applied. **!!! IMPORTANT !!!! Do not turn off or reboot the router during this time or it may damage the router.**

Loading... [x](#) [+](#)

← → ↻ <http://192.168.123.254/home.htm> ☆ 🔍 📌

WLAN Access Point	SETUP	5G CONFIG	2.4G CONFIG	TCP/IP SETTINGS	FIREWALL	MANAGEMENT
SETUP WIZARD						
OPERATING MODE						
SELECT LANGUAGE						

Changed setting successfully!
Do not turn off or reboot the Router during this time!
Please wait 18 seconds ...

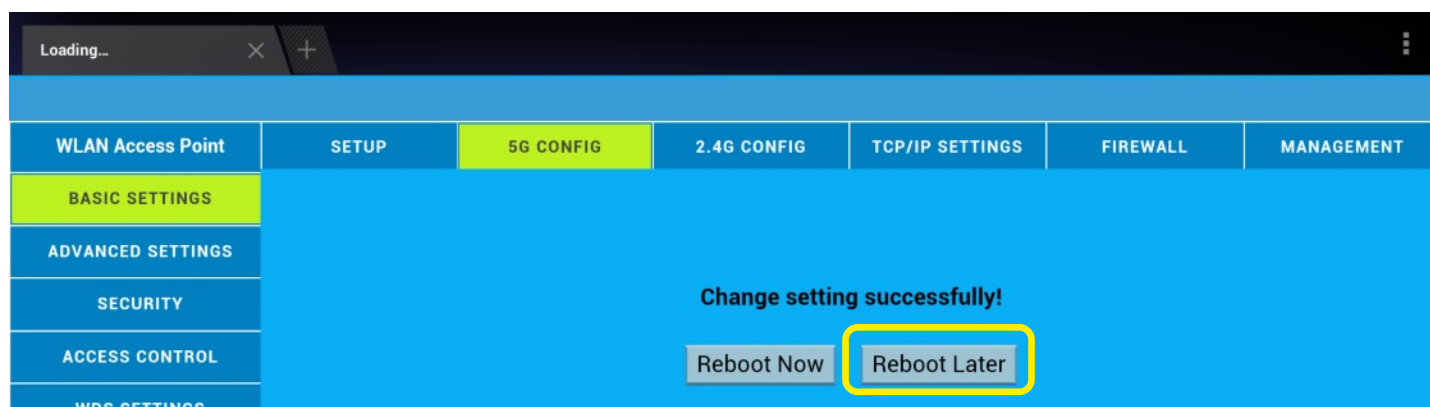
9. Select **5G CONFIG** or **2.4G CONFIG** and then select **Basic Settings** then change **Mode** to **Client**. Then scroll down and click **Apply Changes**.

NOTE: If you wish to use the SimplicityTouch as an access point through which other wireless devices can connect to your network then select AP mode. However, in most cases you will want to use the existing wireless infrastructure on your campus to handle all client access to the network. In other words your network admin will not want the SimplicityTouch to create an access point. Therefore, the most common configuration is to set the Mode to Client. In Client mode the SimplicityTouch will simply connect to your existing wireless network as a client. In client mode the SimplicityTouch SSID "Android_TV" is disabled but you are able to still connect the SimplicityTouch to your wireless network.

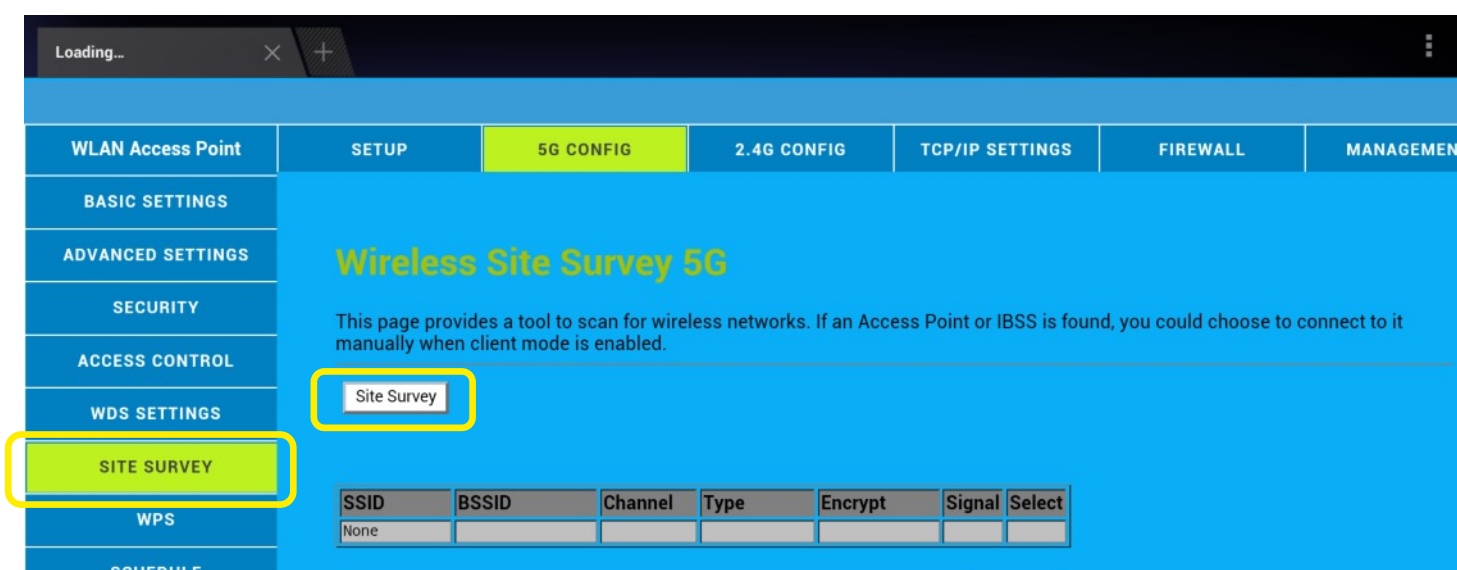
The screenshot shows a web browser interface for configuring a SimplicityTouch device. The browser address bar shows the URL `http://192.168.123.254/home.htm`. The interface has a sidebar on the left with navigation links: WLAN Access Point, BASIC SETTINGS (highlighted), ADVANCED SETTINGS, SECURITY, ACCESS CONTROL, WDS SETTINGS, SITE SURVEY, WPS, SCHEDULE, and 802.1X CERT INSTALL. The main content area is titled "Wireless Basic Setting-5G" and contains the following settings:

- ☐ Disable Wireless LAN Interface
- Band: 5 GHz (A+N+AC)
- Mode: CLIENT (highlighted with a yellow box, with a dropdown menu showing AP, Client, WDS, and AP+WDS)
- Network Type: Infrastructure
- SSID: ANDROID_TV_5G
- Channel Width: 80MHz
- Control Sideband: Auto
- Channel Number: Auto(DFS)
- Broadcast SSID: Enabled
- WMM: Enabled
- Data Rate: Auto
- TX restrict: 0 Mbps (0:no restrict)
- RX restrict: 0 Mbps (0:no restrict)
- Associated Clients: Show Active Clients
- ☐ Enable Mac Clone (Single Ethernet Client)
- ☒ Enable Universal Repeater Mode (Acting as AP and client simultaneously)
- SSID of Extended Interface: RTK 11n AP RPT0
- ☐ Enable Wireless Profile
- Wireless Profile List: A table with columns SSID, Encrypt, and Select.
- Buttons: Delete Selected, Delete All, Apply Changes (highlighted with a yellow box), and Reset.

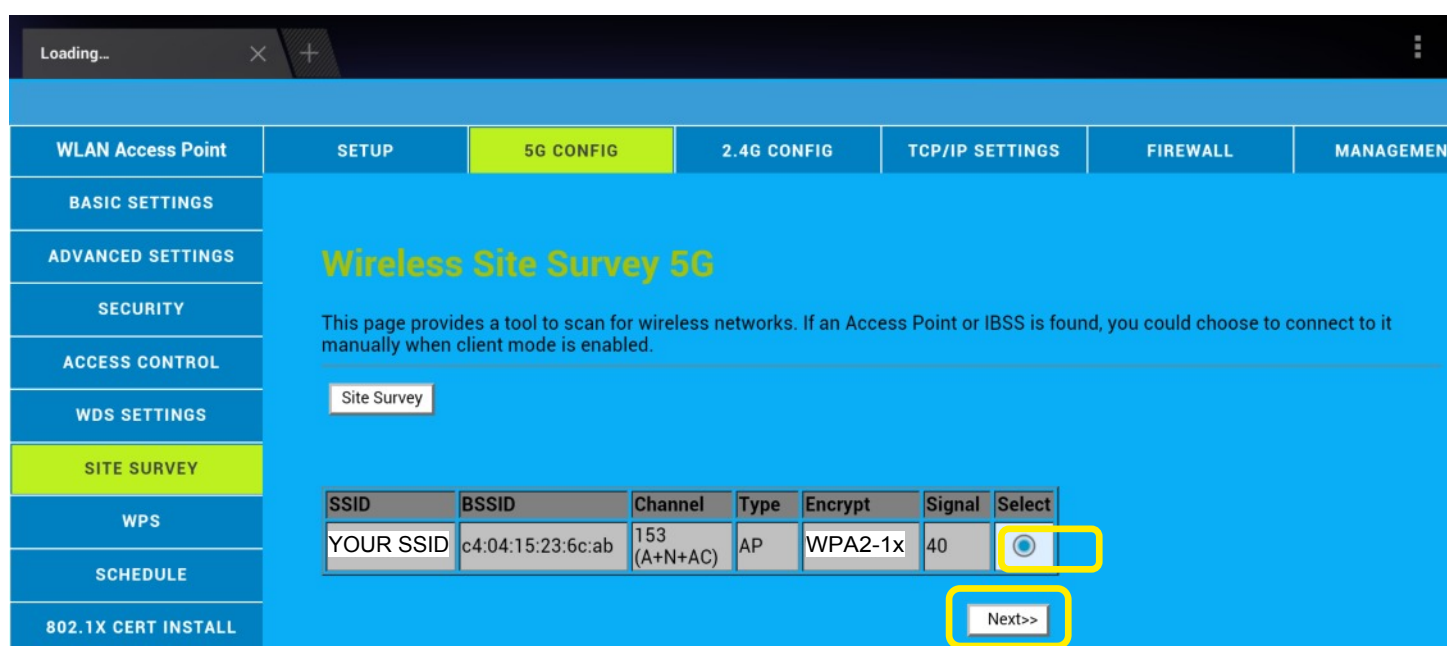
10. After changes are applied choose **Reboot Later** and go to step 11.



11. Select **5G CONFIG** or **2.4G CONFIG** from the top menu then **Site Survey** from the left menu and then press **Site Survey** button to scan for available wireless networks.



12. **Select** your network from the list and press **Next**.



13. Select appropriate settings for your wireless network. Then press **Connect**. Below is a table showing the most commonly selected settings, however, your network admin can provide you with the correct settings for your

Wireless Network Setting	Options	Most Common Selection for RADIUS
Encryption	None, WEP, WPA, WPA2	WPA2
Authentication Mode	Enterprise (RADIUS)* Personal (Pre-Shared Key)	Enterprise (RADIUS)
WPA2 Cipher Suite	TKIP, AES	AES
EAP Type	MD5, TLS, PEAP	PEAP
Inside Tunnel Type	MSCHAPV2	MSCHAPV2
EAP User ID	N/A	Assigned by network administrator
RADIUS User Name	N/A	Assigned by network administrator
RADIUS User Password	N/A	Assigned by network administrator
User Key Password (if any)	N/A	Assigned by network administrator

*If you are using Personal WPA2 Preshared key encryption for your network then refer to separate setup guide for connecting to WPA2 personal network.

Loading...

WLAN Access Point

SETUP

5G CONFIG

2.4G CONFIG

TCP/IP SETTINGS

FIREWALL

MANAGEMENT

BASIC SETTINGS

ADVANCED SETTINGS

SECURITY

ACCESS CONTROL

WDS SETTINGS

SITE SURVEY

WPS

SCHEDULE

802.1X CERT INSTALL

Wireless Site Survey 5G

This page provides a tool to scan for wireless networks. If an Access Point or IBSS is found, you could choose to connect to it manually when client mode is enabled.

Encryption:

WPA2

Authentication Mode:

Enterprise (RADIUS)

Personal (Pre-Shared Key)

WPA2 Cipher Suite:

TKIP

AES

EAP Type:

MD5

Inside Tunnel Type:

MSCHAPV2

EAP User ID:

user1@network

RADIUS User Name:

user1@network

RADIUS User Password

User Key Password (if any):

<<Back

Connect

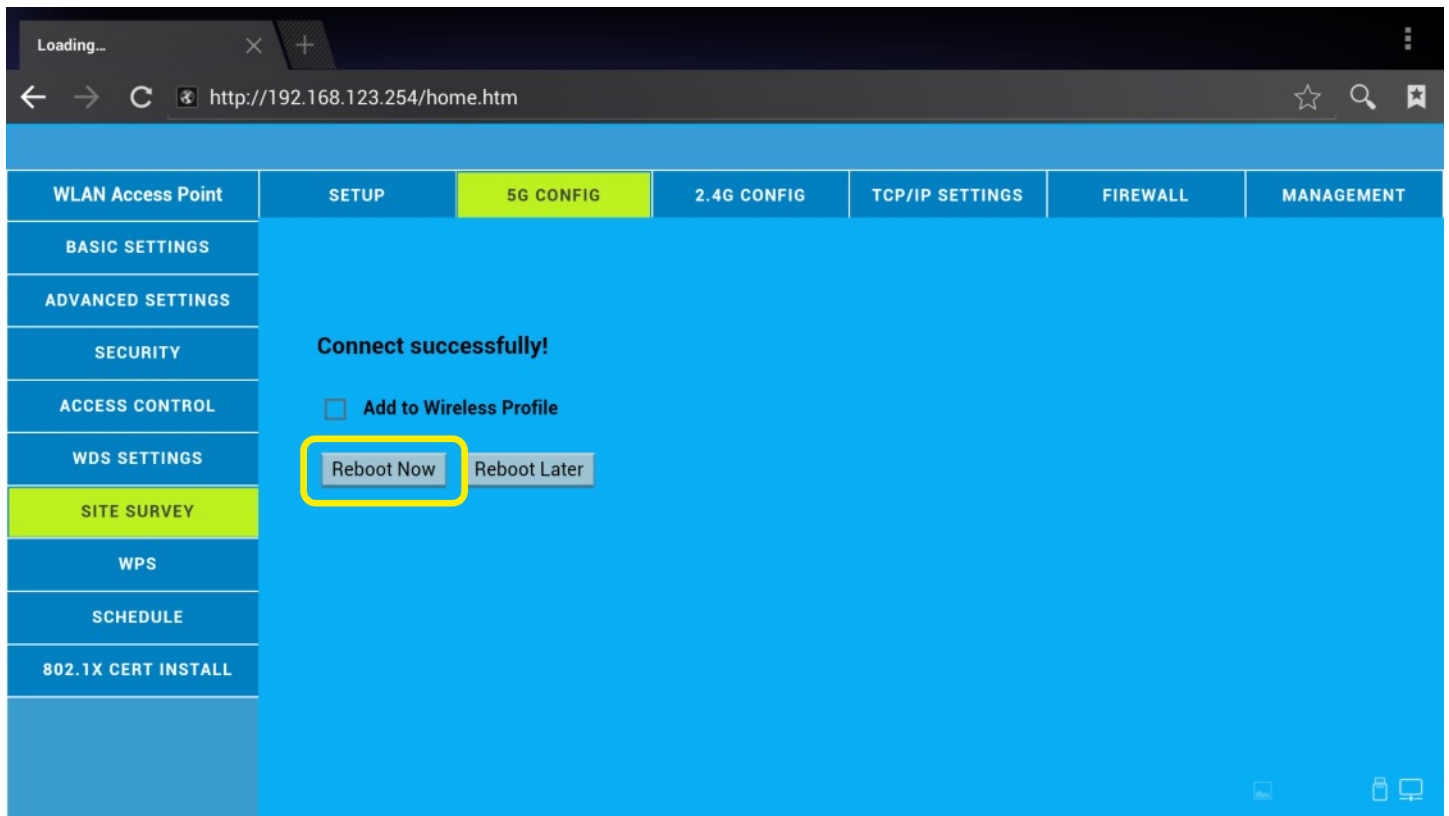
14. Wait while while the panel connects to your wireless network.

Wireless Site Survey

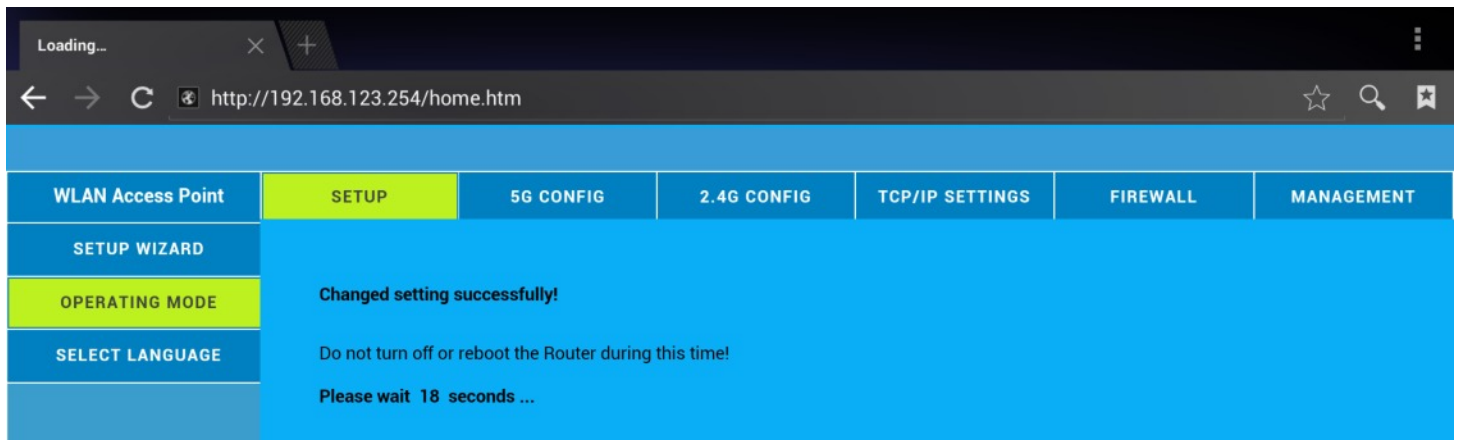
This page provides a tool to scan for wireless networks. If an Access Point or IBSS is found, you could choose to connect to it manually when client mode is enabled.

Please wait

15. If the information was entered correctly you should see Connect Successfully! Press **Reboot Now** to finalize the new settings and restart the router. (Note: It is recommended to reboot since this is usually required for the panel to be assigned an IP address by your network DHCP server.



15. Wait for the router to reboot. **!!! IMPORTANT !!! Do not turn off the router while it is rebooting.**



14. Wait while while the panel connects to your wireless network.

16. When the router reboots you can check the main router status page to see if the panel is connected to your wireless network and whether it has been assigned an IP address by your DHCP server.

The screenshot shows a web browser interface for a router's management page. The browser address bar shows 'http://192.168.123.254/home.htm'. The page has a navigation menu on the left with options like 'WLAN Access Point', 'SETUP', '5G CONFIG', '2.4G CONFIG', 'TCP/IP SETTINGS', 'FIREWALL', and 'MANAGEMENT'. The 'MANAGEMENT' tab is selected. The main content area is titled 'Access Point Status' and contains a table of system and configuration information. The table is divided into sections: System, Wireless 5G Configuration, TCP/IP Configuration, and WAN Configuration. The 'SSID' field in the Wireless 5G Configuration section is highlighted with a yellow box and contains the text 'YOUR SSID WILL SHOW HERE'. The 'IP Address' field in the WAN Configuration section is also highlighted with a yellow box and contains the value '192.168.1.30'.

System	
Uptime	0day:0h:0m:52s
Firmware Version	v3.4.7.2
Build Time	Fri Apr 24 20:06:59 CST 2015

Wireless 5G Configuration	
Mode	Infrastructure Client
Band	5 GHz (A+N+AC)
SSID	YOUR SSID WILL SHOW HERE
Channel Number	153
Encryption	WPA2
BSSID	c4:04:15:23:6c:ab
State	Connected

TCP/IP Configuration	
Attain IP Protocol	Fixed IP
IP Address	192.168.123.254
Subnet Mask	255.255.255.0
Default Gateway	192.168.123.254
DHCP Server	Enabled
MAC Address	7c:b2:32:00:00:01

WAN Configuration	
Attain IP Protocol	DHCP
IP Address	192.168.1.30
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
MAC Address	7c:b2:32:00:00:02

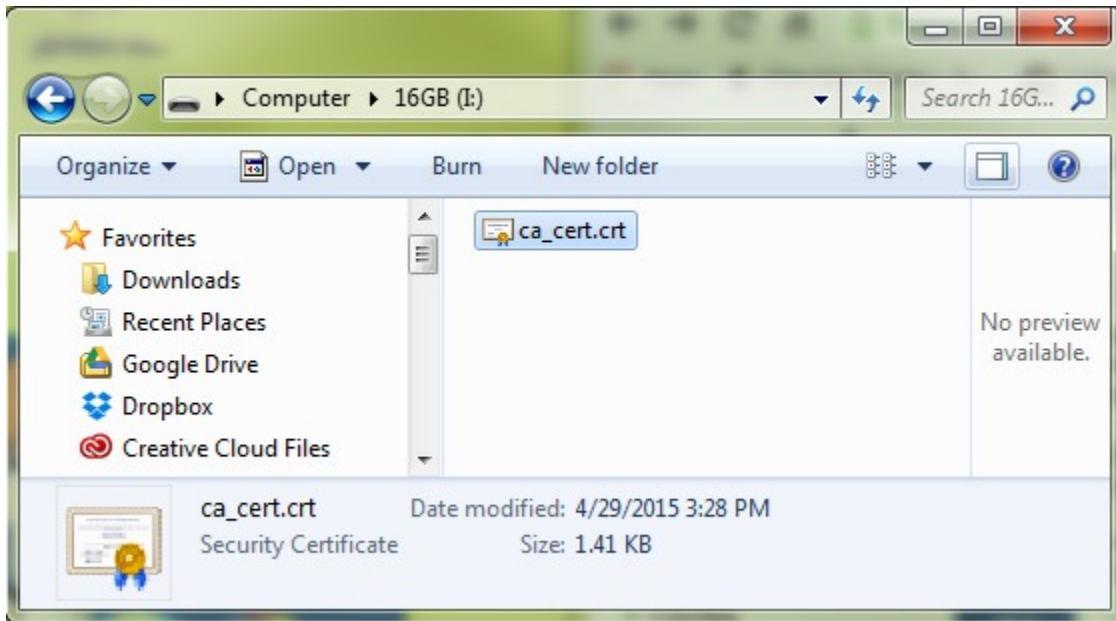
If the panel failed to connect try the following:

- 1) **Repeat the process.** Often it is just a missed setting or a typo when entering the radius user info
- 2) **Check antenna.** Make sure that the antenna is connected to the panel. It screws on to the above the inputs on the right side of the panel.
- 3) **Check with network admin.** All the settings must be perfect in order to connect. Double check the network settings with your network administrator.

ADDENDUM - Installing 802.1x certificate, if required by your network security.

You can install a user or root 802.1x security certificate as required by your network admin. Follow these steps to install a certificate.

1. Place the certificate file (*.crt) on a USB thumb drive.



2. Turn on ST-700 and insert USB thumb drive in front USB port (note: must use port with Android label)



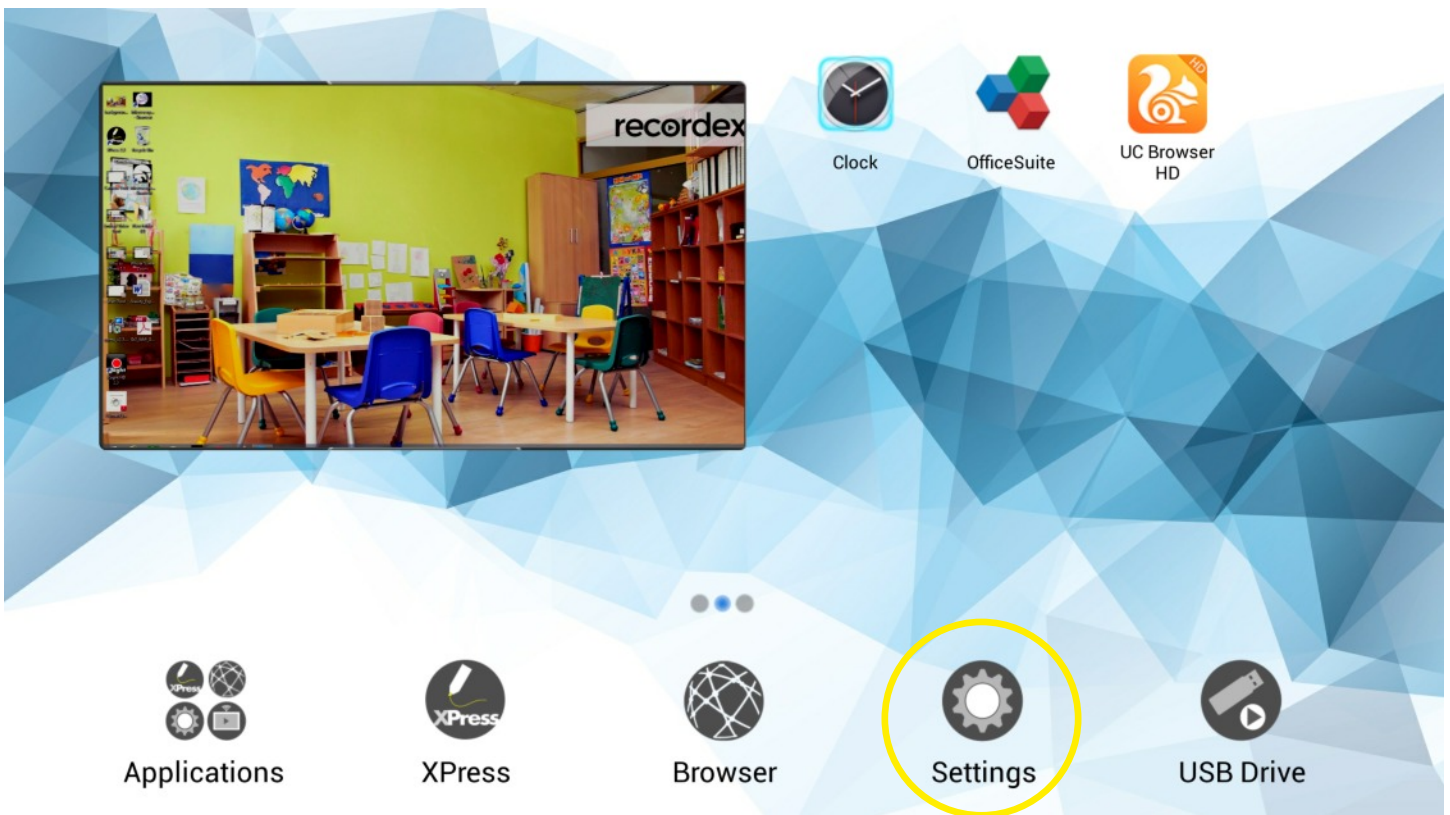
ADDENDUM - Installing 802.1x certificate, if required by your network security.

You can install a user or root 802.1x security certificate as required by your network admin. Follow these steps to install a certificate.

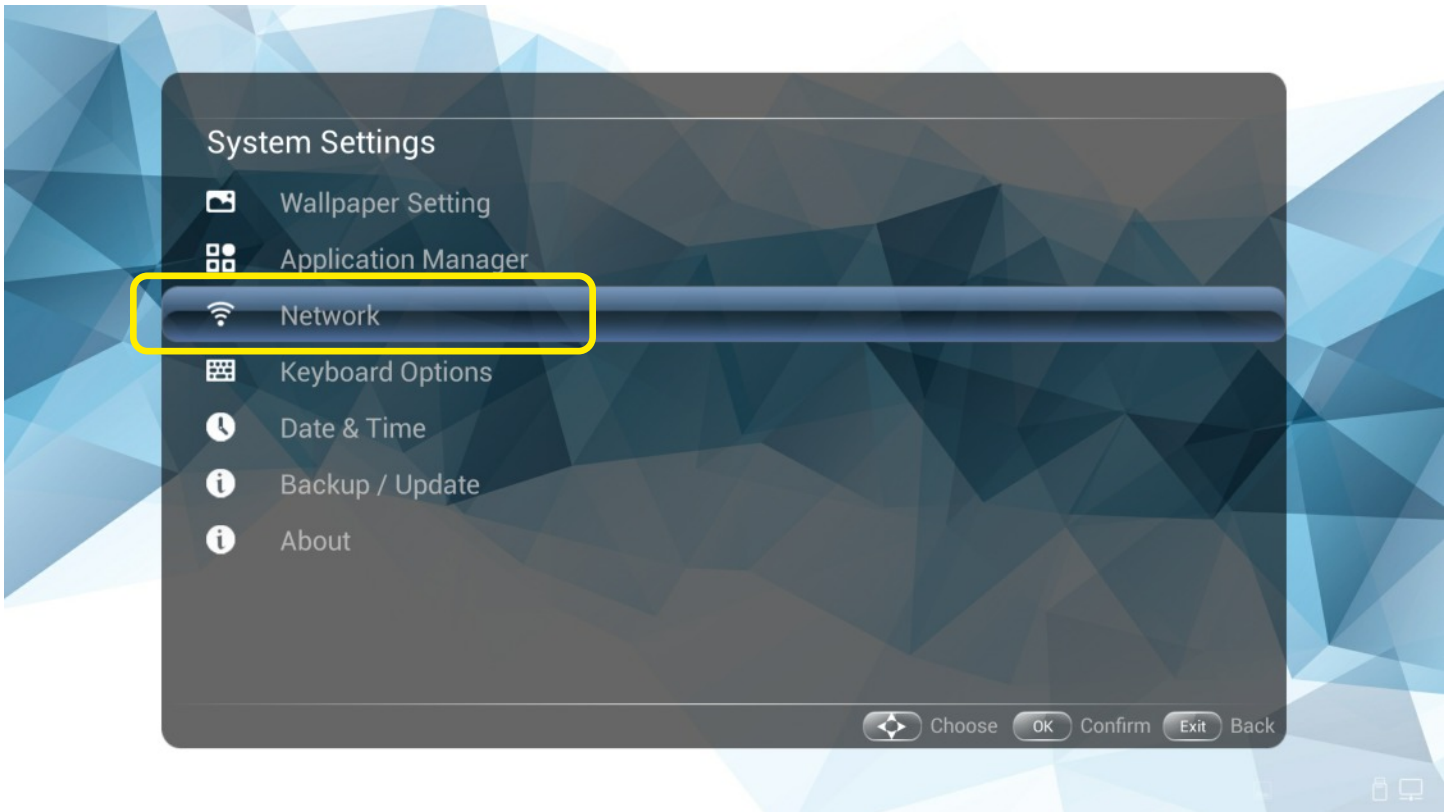
3. Go to **Home Screen**



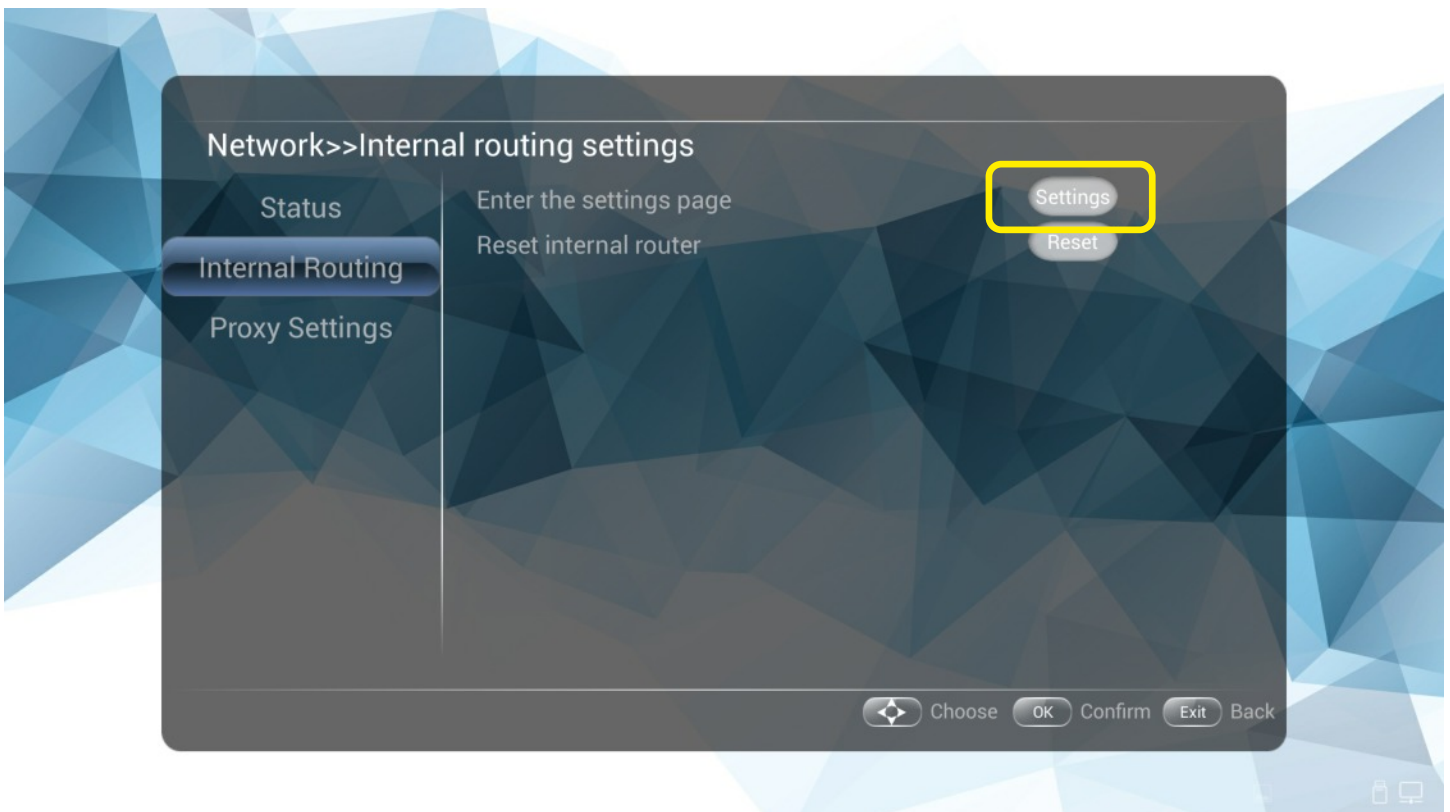
4. Open **Settings**



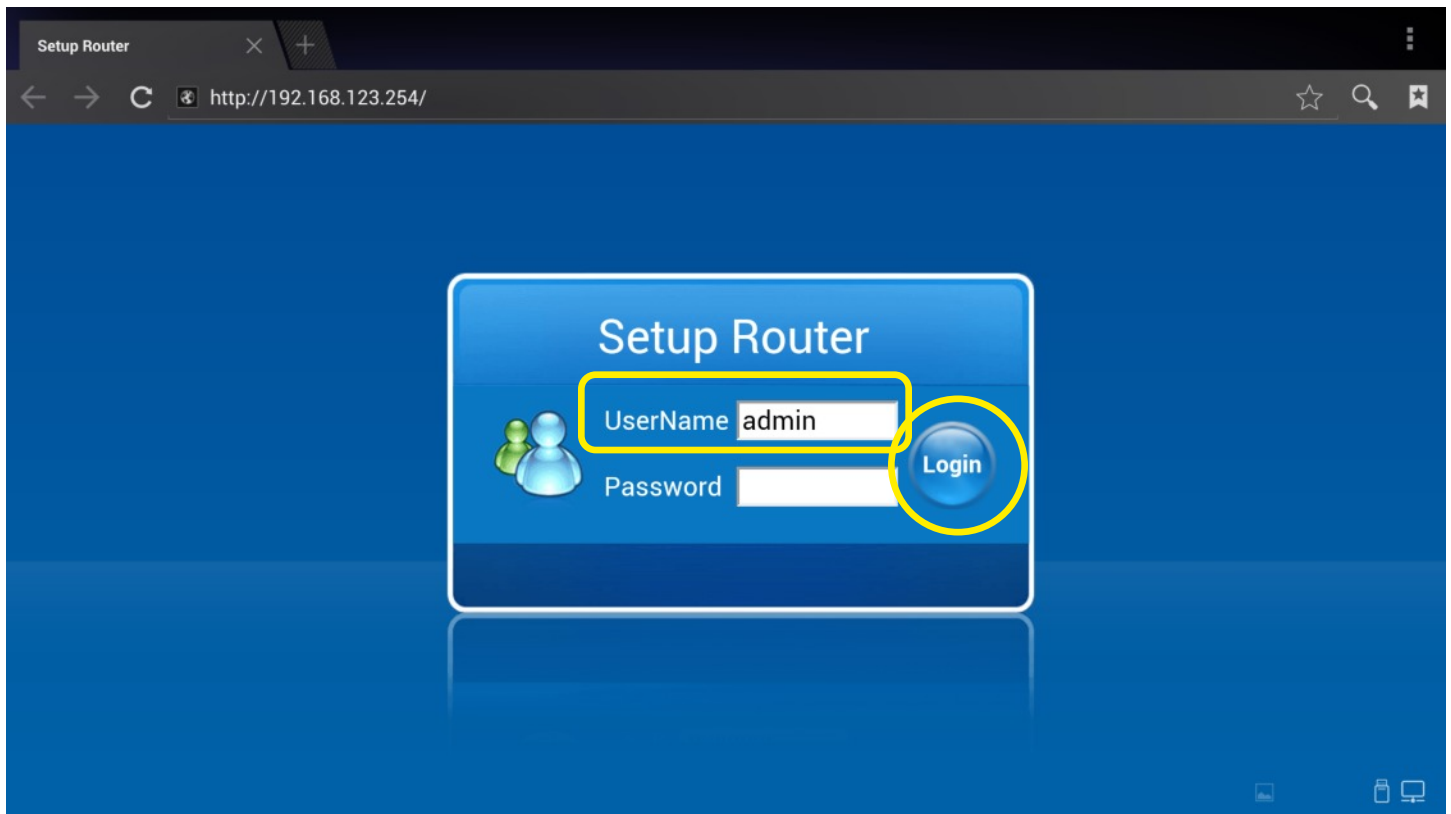
5. Open **Network** settings



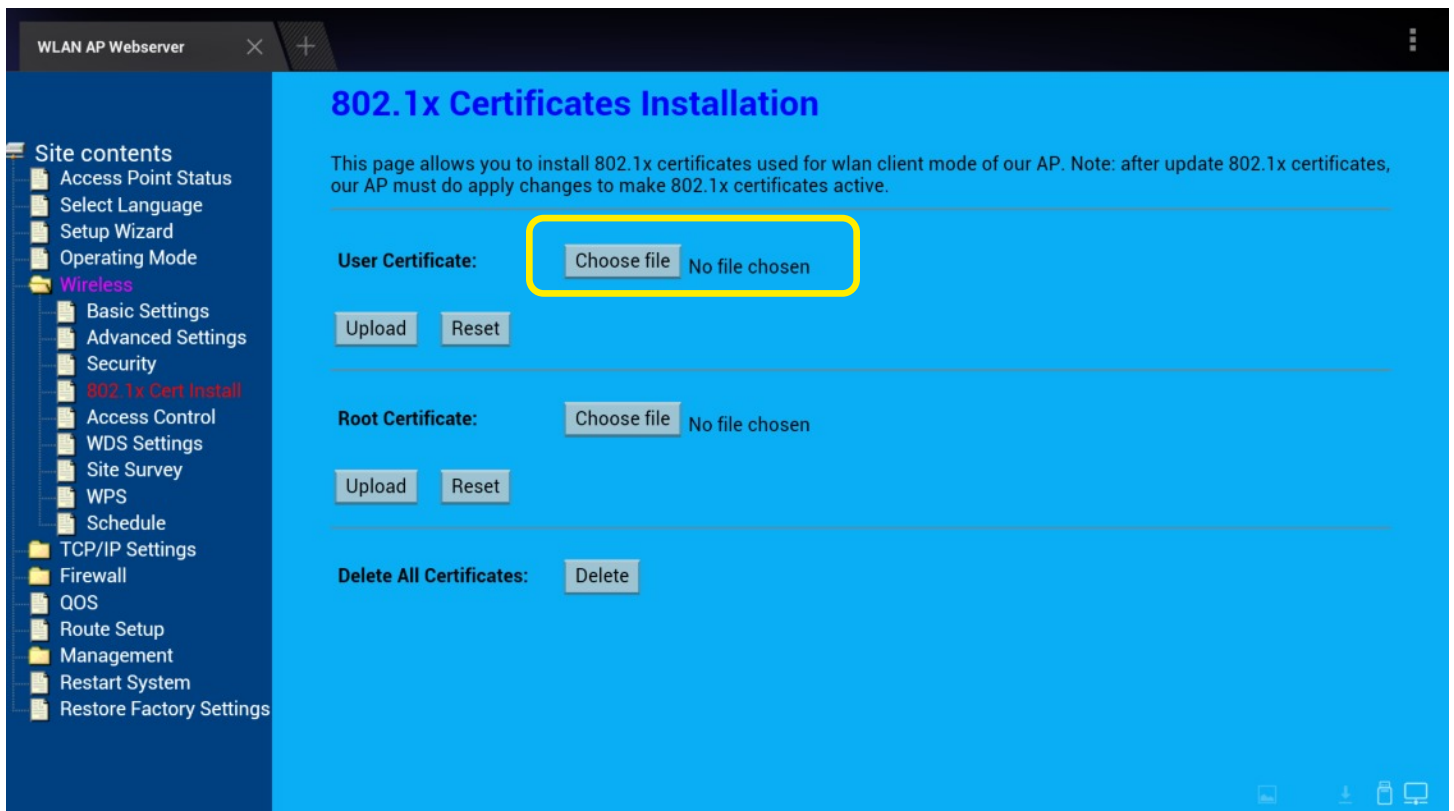
6. Open **Internal Routing Settings** Page



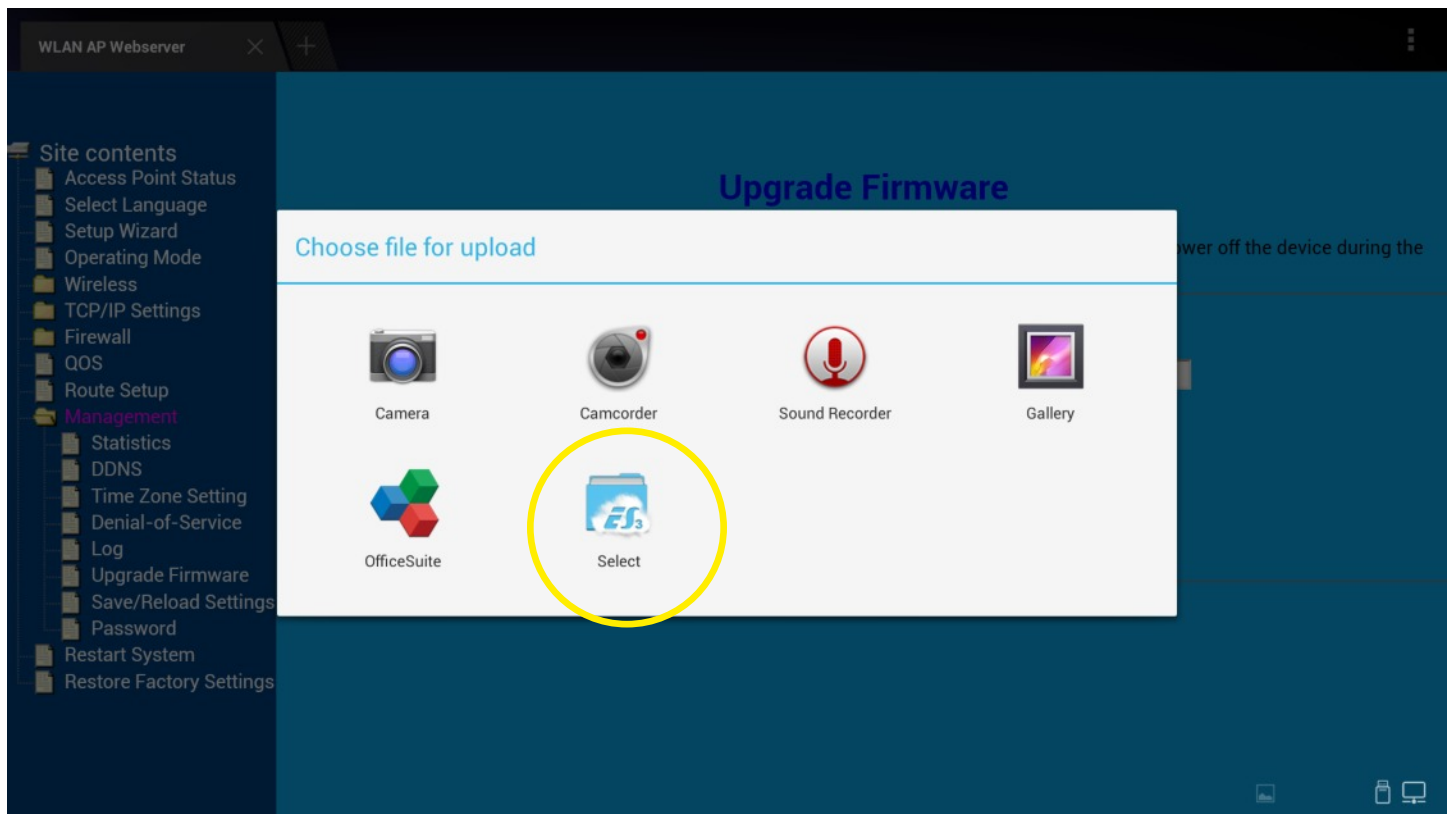
7. Login to Router: **UserName: admin Password: <leave blank>**



8. Select **Wireless** under the **Site contents** menu on left side of screen and then **802.1x Cert Install**. Then, click on **Choose File** for User or Root Certificate.



9. Select the certificate file (*.crt) from the USB thumb drive following these steps. Choose **Select** to open ES File Explorer.



10. Follow these steps:

Click here to move up one level.

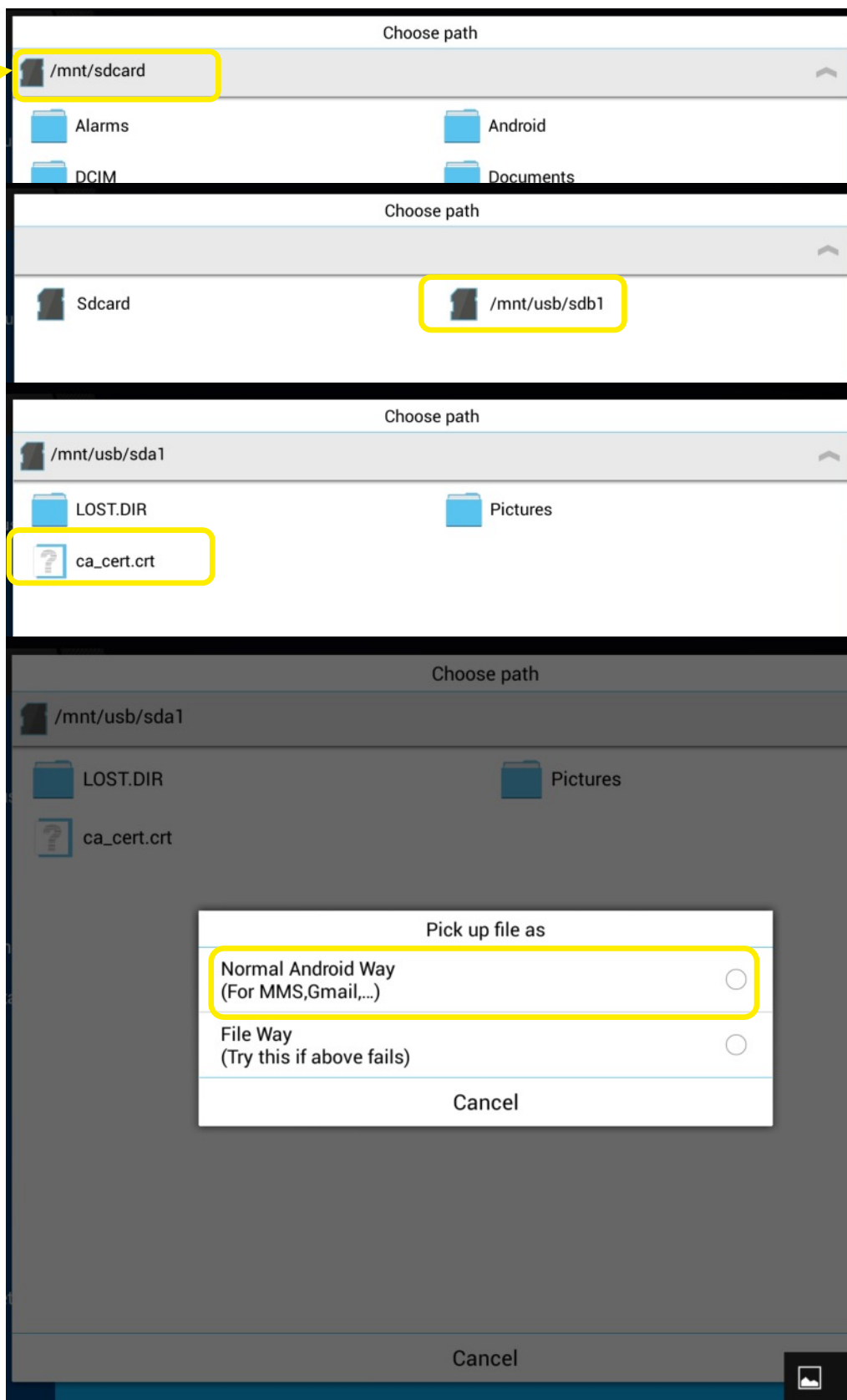
Then select the USB drive it will be labeled:

/mnt/usb/sda1 or

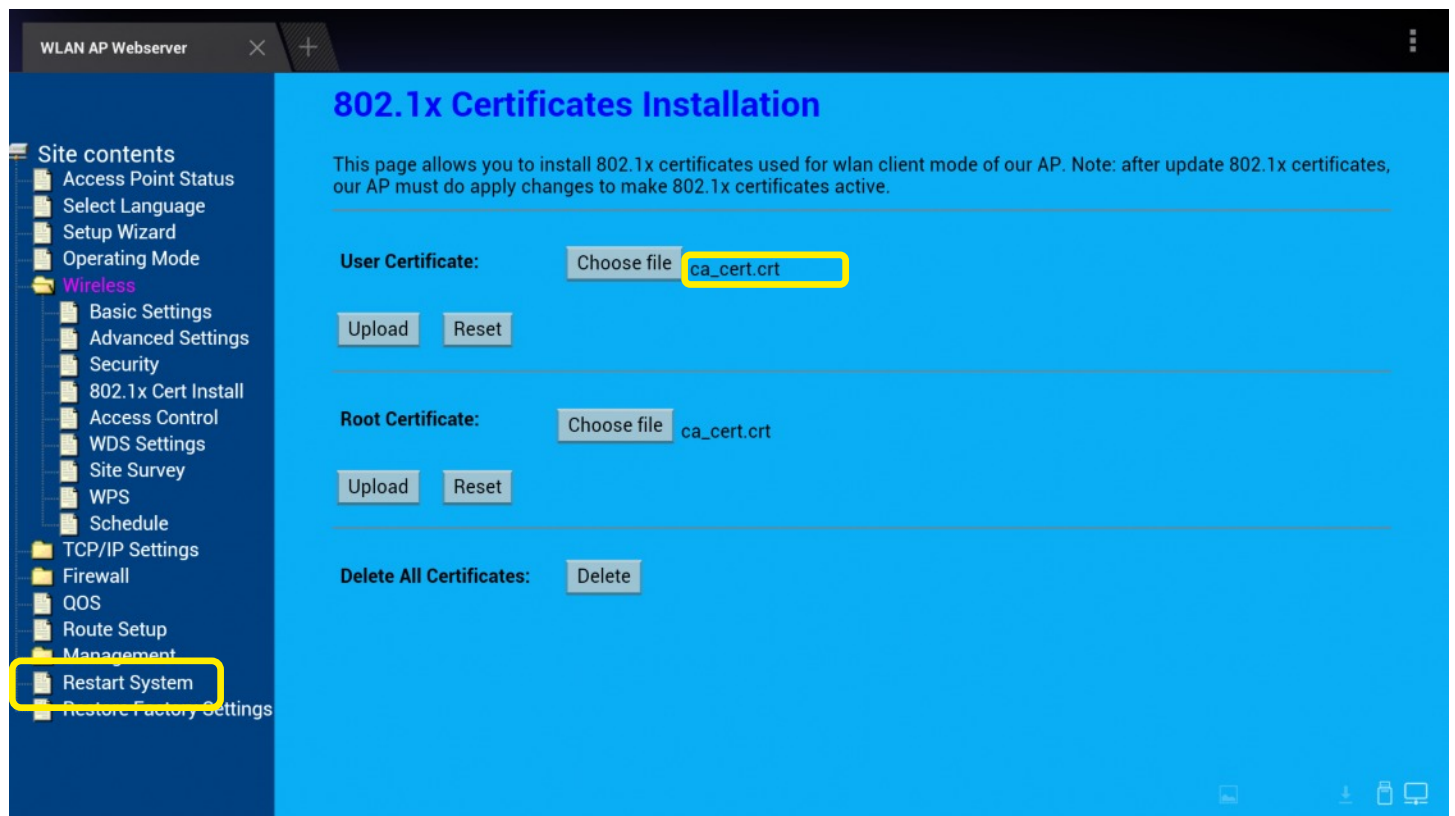
/mnt/usb/sdb1

Then select *.crt file.

Then select
"Normal Android Way..."



11. Note that *.crt file is listed next to Choose file. Next, click restart system to apply the certificate.



END OF GUIDE

Setup Instructions for SimplicityTouch IFP equipped with Internal 802.11ac Router

Topic Covered: DISABLE WIRELESS CONNECTION

Model Numbers Covered: 70" ST-700, Generation 2; 65" ST-650U; 84" ST-840U

Last Update: 07-25-15
e: support@recordexusa.com

TOOLS REQUIRED:

None.

ESTIMATED TIME REQUIRED:

Disable Wireless Network Feature

3 min

Setup Instructions for SimplicityTouch IFP Router

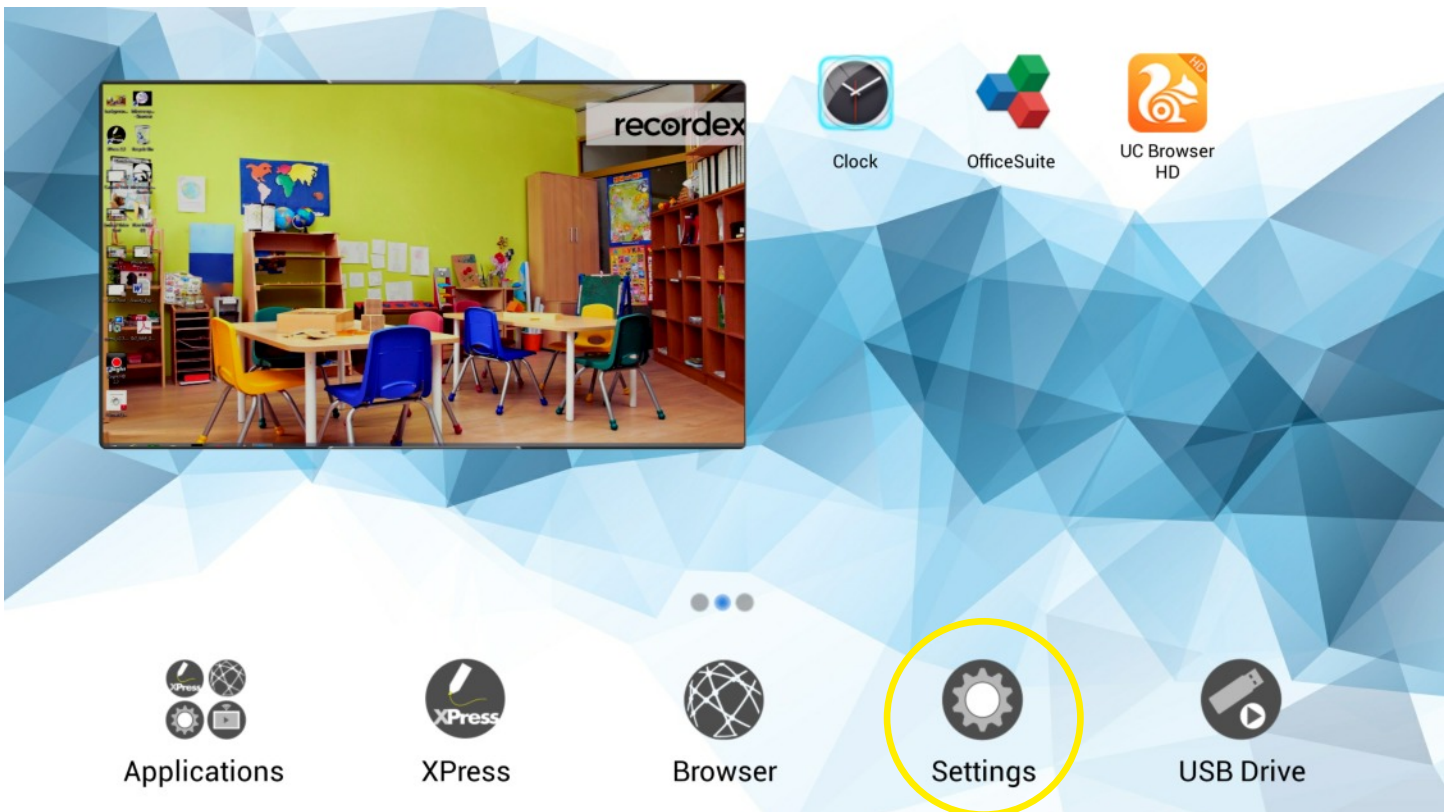
For Model Number: ST-700 (gen2); ST-650U; ST-840U

This guide will walk you through the steps necessary to disable the wireless networking features of the SimplicityTouch.

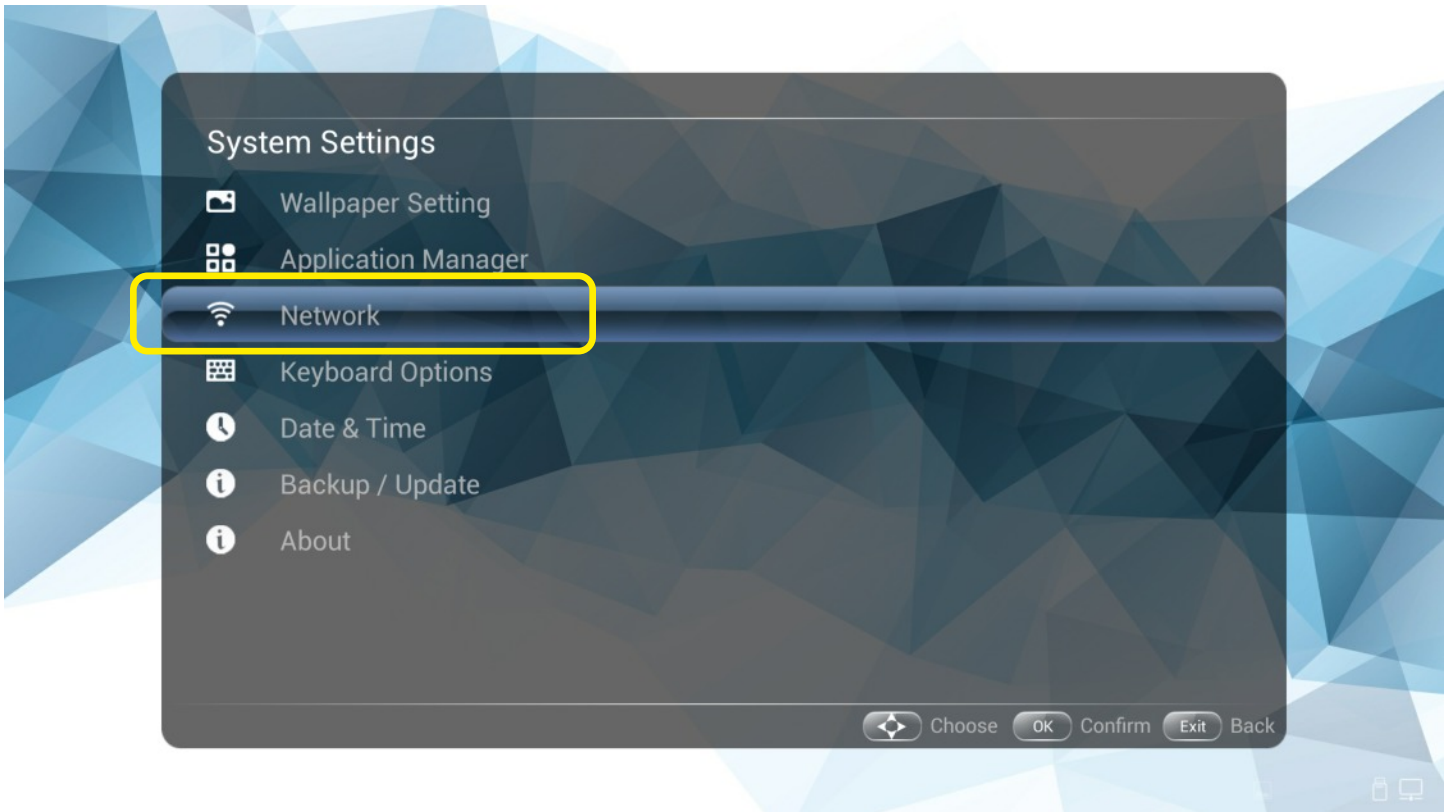
1. Go to **Home Screen**



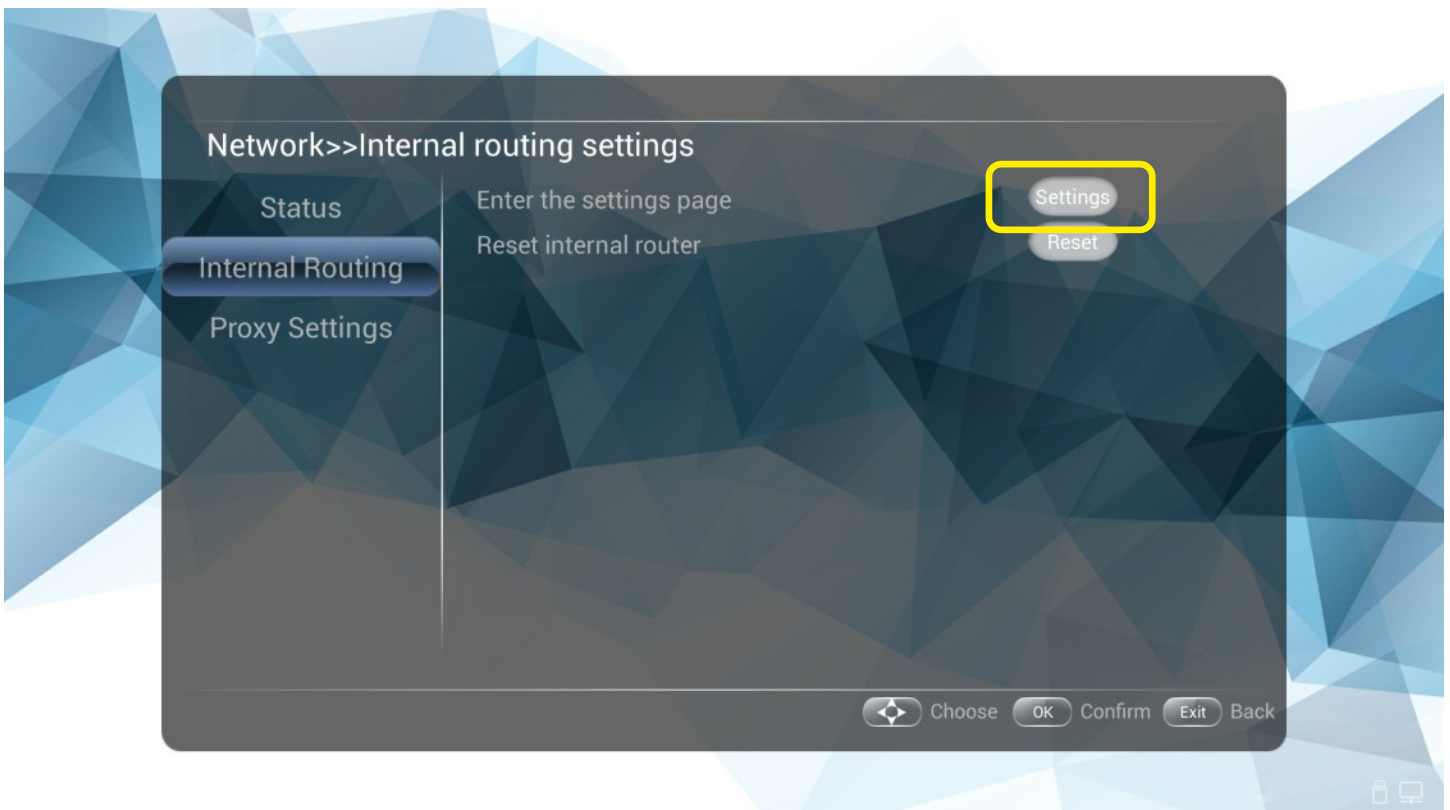
2. Open **Settings**



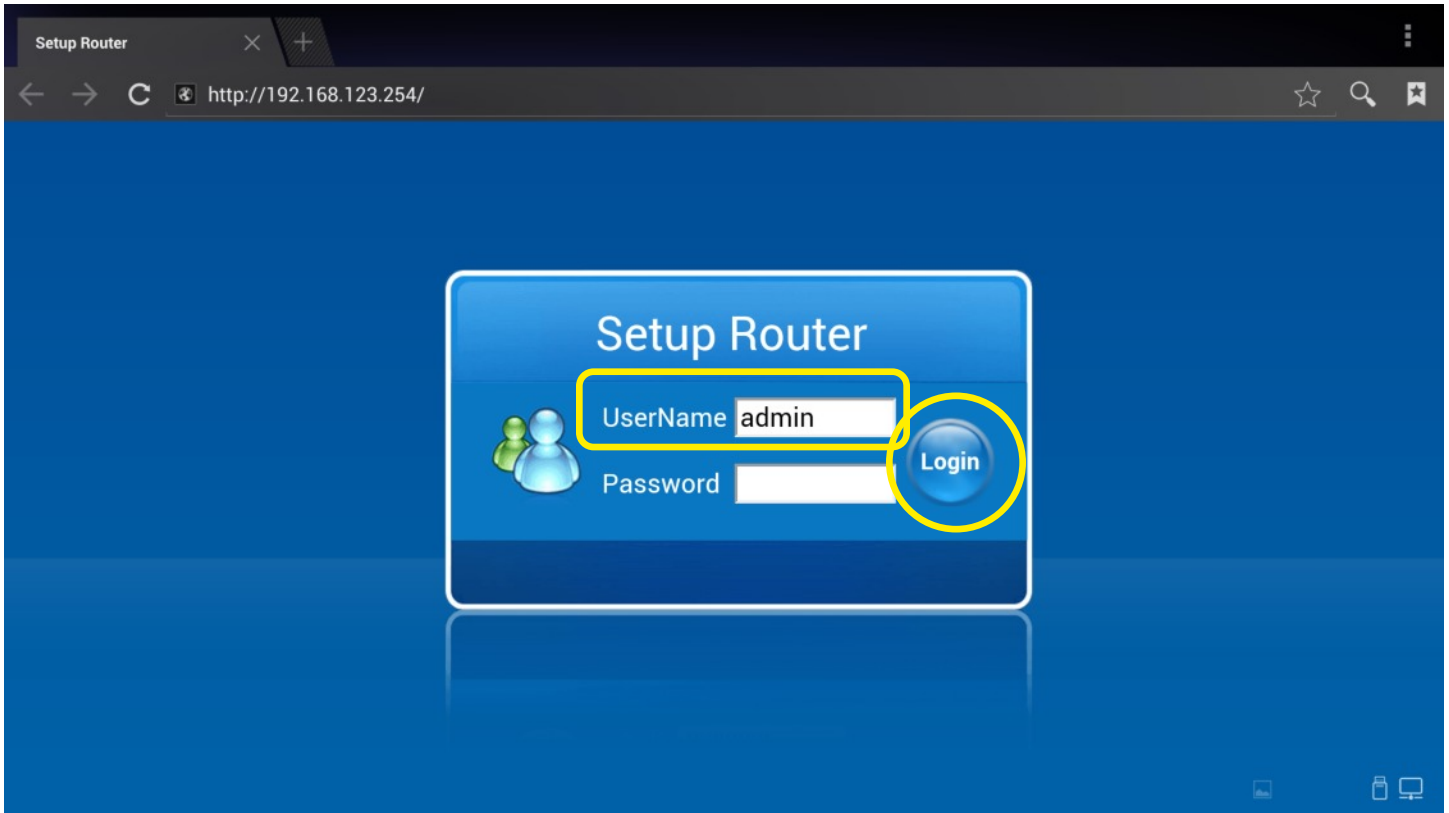
3. Open **Network** settings



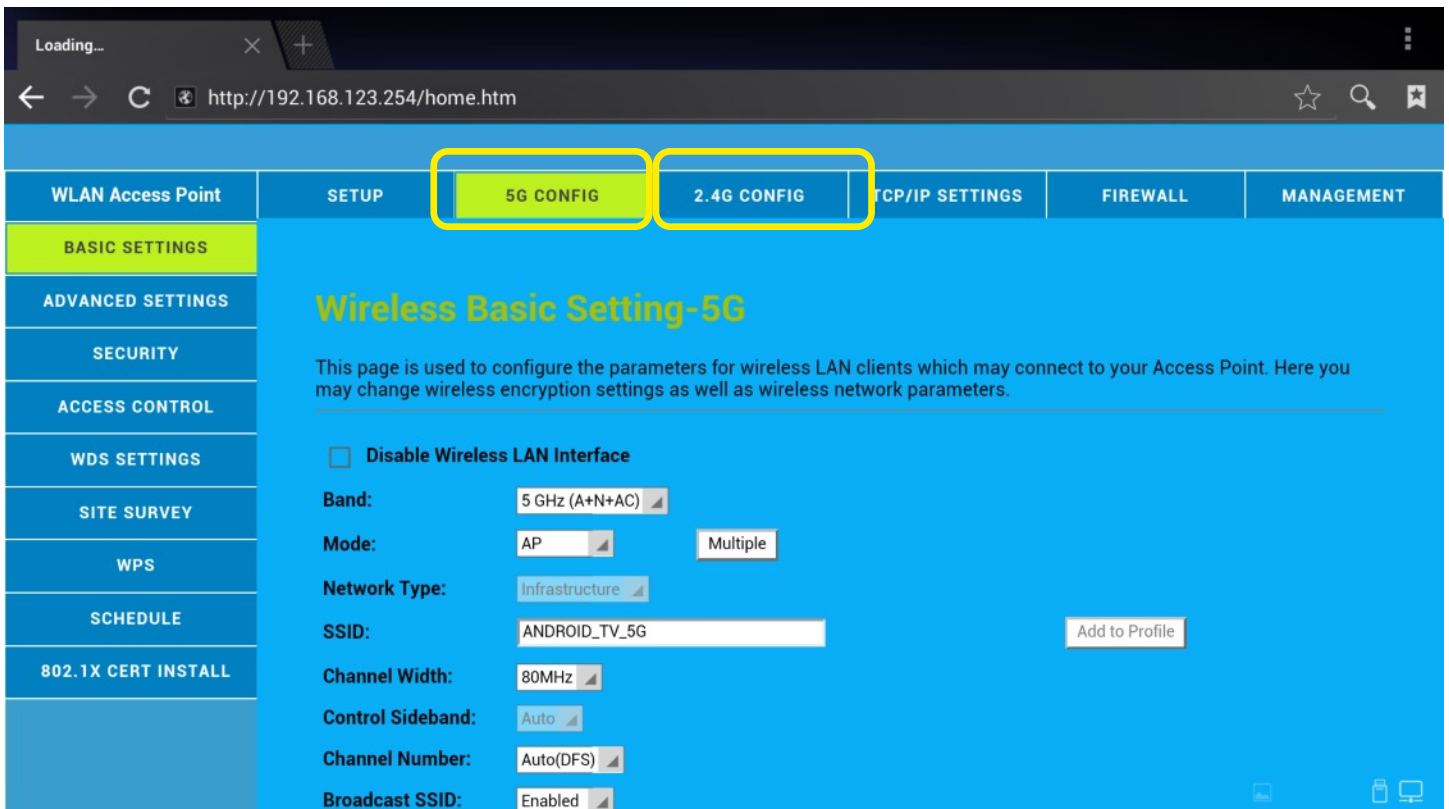
4. Open **Internal Routing Settings** Page



5. Login to Router: **UserName: admin Password: <leave blank>**



6. Select **5G CONFIG** and/or **2.4G CONFIG** from top menu. Note: You can disable neither, either or both radios.



7. Select **Wireless** under Site Contents and then select **Basic Settings** then check the box at top for “Disable Wireless LAN Interface”. Then scroll down and click **Apply Changes**.

Loading... http://192.168.123.254/home.htm

WLAN Access Point SETUP **5G CONFIG** 2.4G CONFIG TCP/IP SETTINGS FIREWALL MANAGEMENT

BASIC SETTINGS
ADVANCED SETTINGS
SECURITY
ACCESS CONTROL
WDS SETTINGS
SITE SURVEY
WPS
SCHEDULE
802.1X CERT INSTALL

Wireless Basic Setting-5G

This page is used to configure the parameters for wireless LAN clients which may connect to your Access Point. Here you may change wireless encryption settings as well as wireless network parameters.

☒ **Disable Wireless LAN Interface**

Band: 5 GHz (A+N+AC) Mode: CLIENT Multiple
Network Type: Infrastructure
SSID: ANDROID_TV_5G Add to Profile
Channel Width: 80MHz
Control Sideband: Auto
Channel Number: Auto(DFS)
Broadcast SSID: Enabled
WMM: Enabled
Data Rate: Auto
TX restrict: 0 Mbps (0:no restrict)
RX restrict: 0 Mbps (0:no restrict)
Associated Clients: Show Active Clients
☐ Enable Mac Clone (Single Ethernet Client)
☒ Enable Universal Repeater Mode (Acting as AP and client simultaneously)
SSID of Extended Interface: RTK 11n AP RPT0 Add to Profile
☐ Enable Wireless Profile
Wireless Profile List:
SSID Encrypt Select
Delete Selected Delete All
Apply Changes Reset

8. After changes are applied choose **Reboot Now**.

Access Point Status
Select Language
Setup Wizard
Operating Mode
Wireless
Basic Settings

Change setting successfully!

Reboot Now Reboot Later

Setup Instructions for SimplicityTouch IFP Network

Topic Covered: Connect Using Proxy Server

Model Numbers Covered: 70" ST-700, Generation 1

Last Update: 04-29-15
e: support@recordexusa.com

TOOLS REQUIRED:

None.

ESTIMATED TIME REQUIRED:

Configure to use Proxy	3 min
------------------------	-------

Setup Instructions for SimplicityTouch IFP –Configure for Proxy Server For Model Number: 70" ST-700, Generation 1

This guide will walk you through the steps necessary to configure the SimplicityTouch to connect to a proxy server.

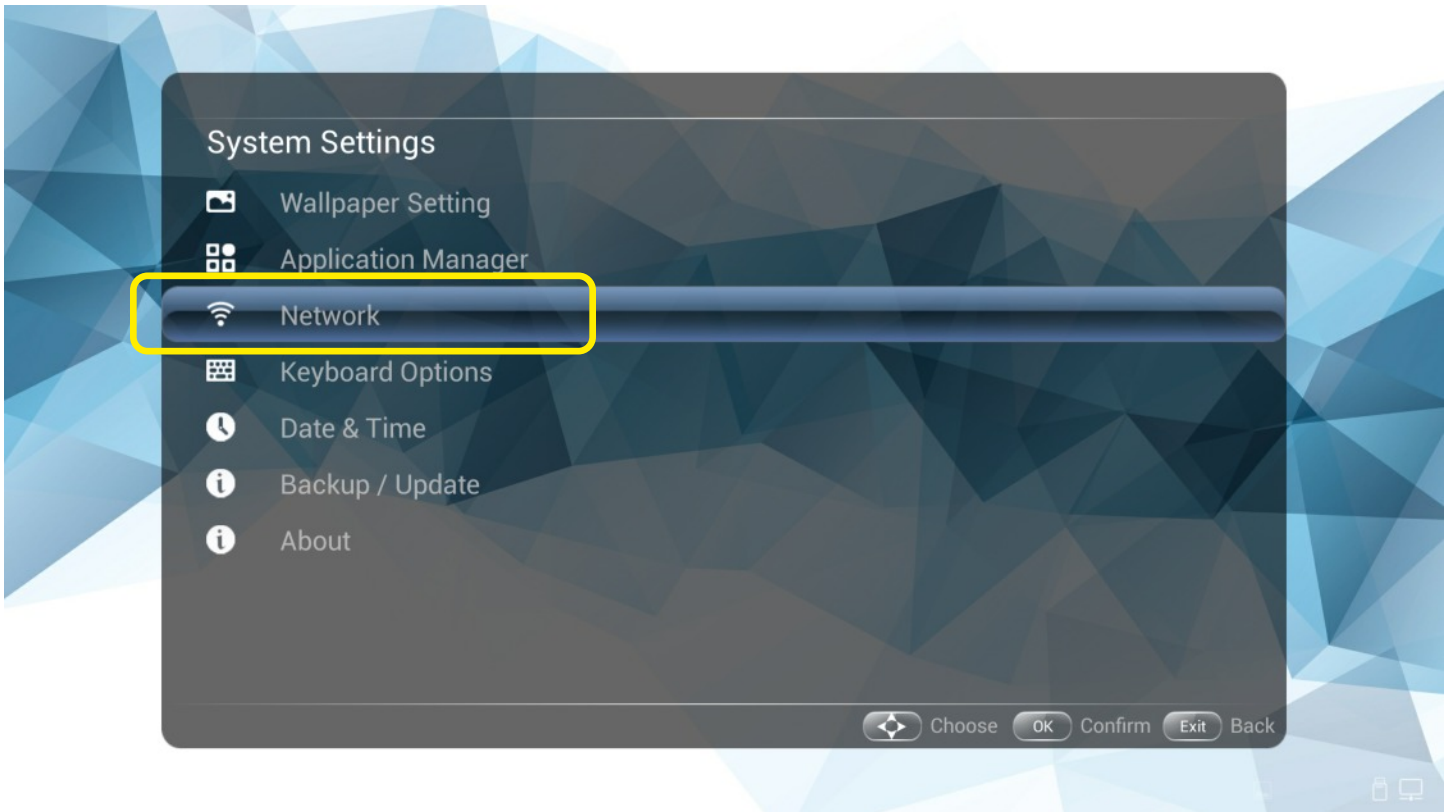
1. Go to **Home Screen**



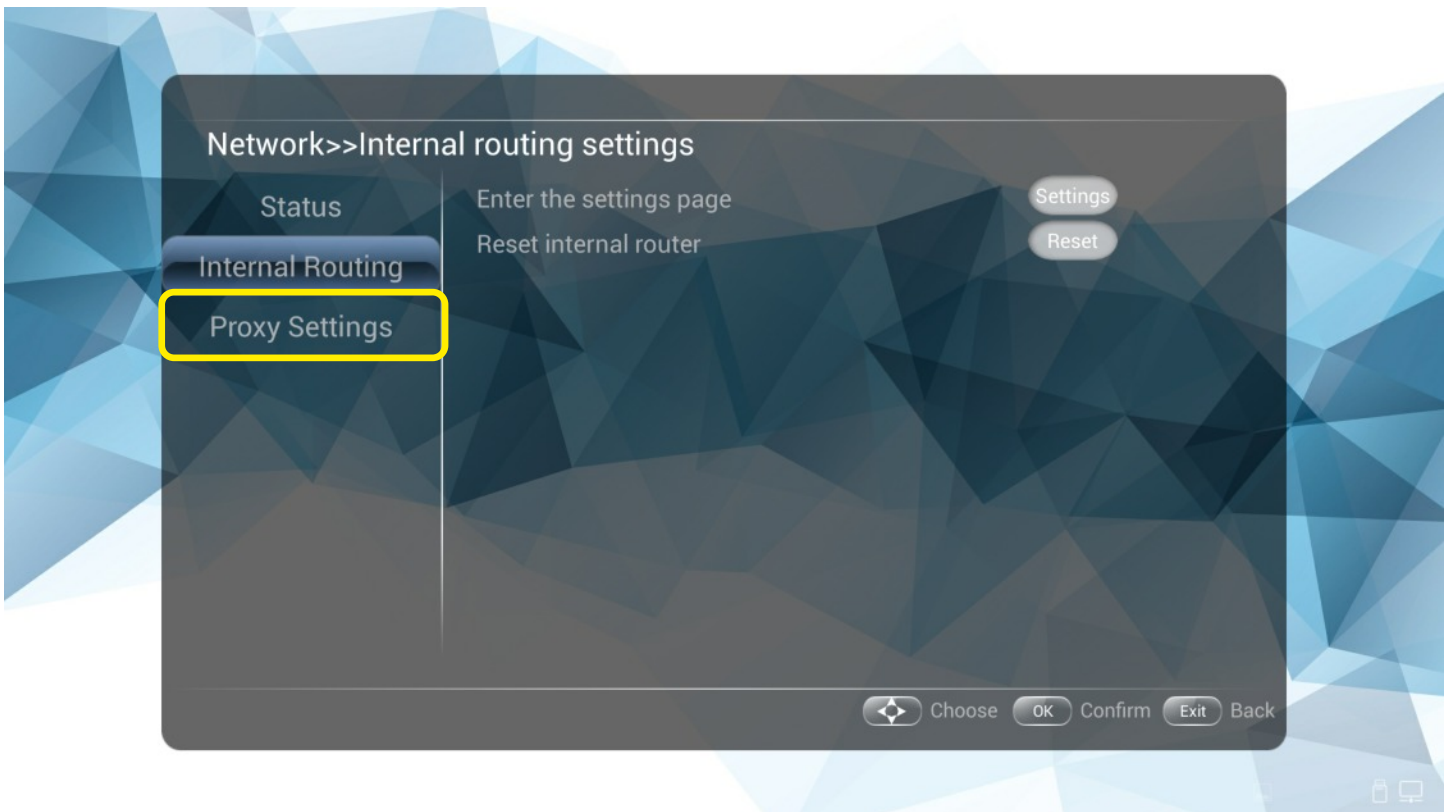
2. Open **Settings**



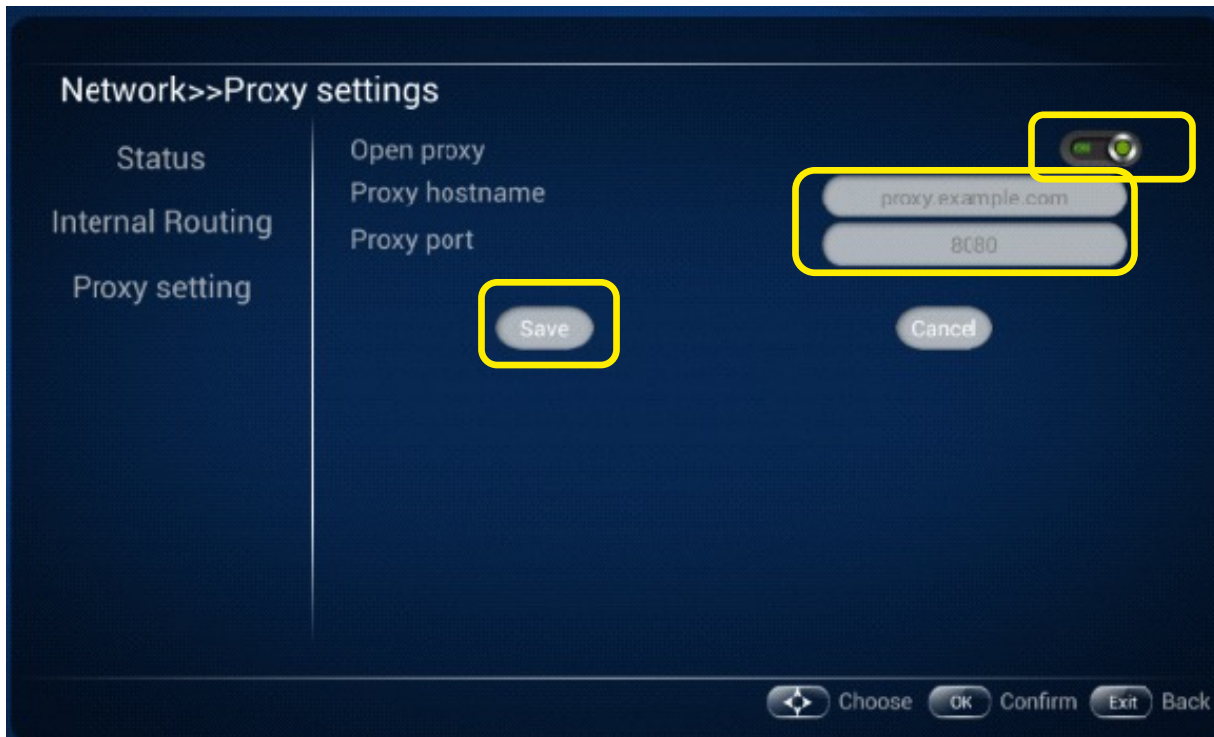
3. Open **Network** settings



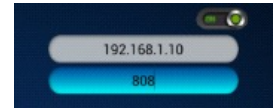
4. Open **Proxy Settings** Page.



5. Swipe switch to set **Open proxy** to **On**. Then enter the **proxy server and port** information and press **save**.

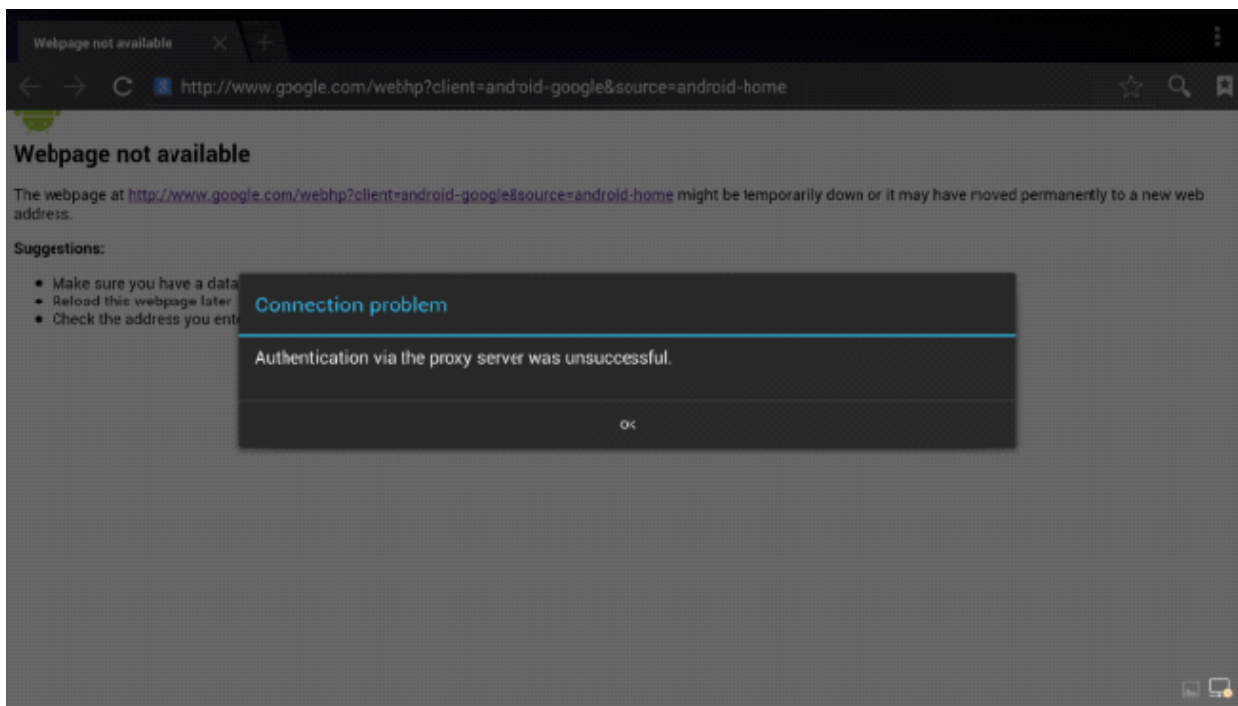


Sample settings.



6. If the proxy server is not found or if it is not configured properly then the following error message will be displayed when attempting to use the built in Android browser.

“Connection problem: Authentication via the proxy server was unsuccessful. [OK]”



END OF SECTION

TROUBLESHOOTING COMMON PANEL ISSUES

Model Numbers Covered: 70" ST-700, Generation 1

Last Update: 07-15-15

e: support@recordexusa.com

HOW TO TROUBLE SHOOT MOST COMMONLY ENCOUNTERED ISSUES:

1. Image from computer is not full screen on panel
 - 1.1 For optimum performance the output device (Mac/PC/AppleTV,etc) should be configured to output an HD resolution (1920x1080 recommended). If the device is not able to output at 1920x1080 then 1366x768 is next best option.
 - 1.2 After device output resolution is properly set then use the zoom button on the remote control to cycle through the aspect ratio options. The panel should be set on Just Scan or 16:9. One of these settings should cause the image to fill the screen.
 - 1.3 If the image is still slightly too large (i.e. it is extending slightly beyond the viewable screen area) then you will need to check the output device settings for an overscan option. For example, when initially configuring AppleTVs for use with the panel it is necessary to turn off overscan under display settings.

HOW TO TROUBLE SHOOT MOST COMMONLY ENCOUNTERED ISSUES:

2. Panel is not calibrated properly

2.1 Make sure that you have first properly fit the image to the panel. See topic one above.

2.2 After image is properly sized and fits and fills the screen to edges then calibrate the panel using the OSX Touchscreen application. Note: calibration is not required for Windows or Chrome OS.

2.3 To calibrate panel on OSX:

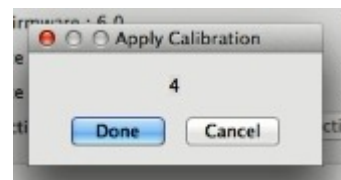
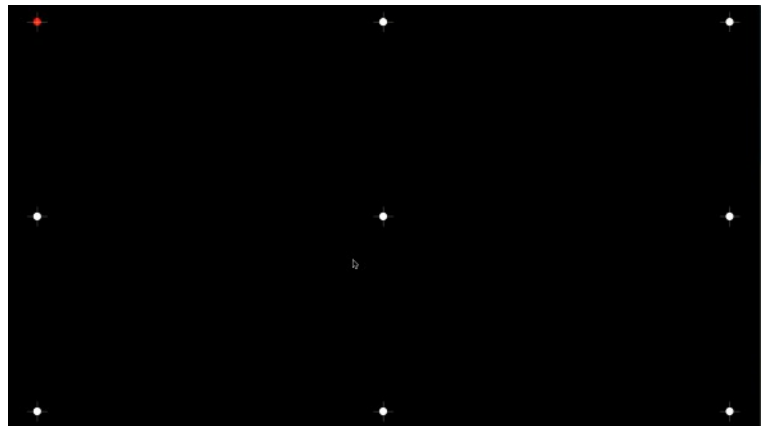
2.3.1 Make sure panel USB cable is conneted.

2.3.2 Open TouchScreen App



2.3.3 Click on Calibrate and then use finger or stylus to tap on the 9 dots. Click on the red dot.

2.3.4 When finished click Done to apply calibration.



HOW TO TROUBLE SHOOT MOST COMMONLY ENCOUNTERED ISSUES:

3. Intermittent or failed USB connection to panel: This is typically due to underpowered USB connection. Some computers are not able to adequately power an extra long USB cable. To remedy this problem try the following:

- 3.1 Try a shorter USB cable (i.e. 3' to 6' long)

- 3.1.1 If this works then you know it is a cable length/power issue.

- 3.1.2 If you require a longer USB length then try the following:

- 3.1.2.1 Try the long cable supplied with the panel in all the ports on the computer. Often one of the ports is higher powered than the others and it will work properly with the long cable.

- 3.1.2.2 Purchase a USB extender cable to use with the shorter cable that you tested in step 1.1. With this option you can reach lengths of 40'.

- 3.1.2.3 Use USB over CAT5/6 adapters. This will allow lengths of over 100'.

4. Intermittent Panel Rebooting

- 4.1 Sometimes this is caused from using the panel before it has actually finished booting up. Waiting 3-5 minutes before using the panel after it has booted up will often eliminate this issue.

- 4.2 If the problem persists then re-flash the firmware (see page 2-8 of this guide)

- 4.3 If problem persists then call for service.

SOFTWARE UPDATES & FACTORY REST

Model Numbers Covered: 70" ST-700, Generation 1

Last Update: 07-15-15

e: support@recordexusa.com

SOFTWARE UPDATES

1. How to update panel applications

1.1 If panel is connected to Internet

1.1.1 Go to Homescreen

1.1.2 Go to Applications

1.1.3 Click on SimplicityApp Store

1.1.4 Click Install button next to App to install update.

1.2 If panel is not connected to Internet

1.2.1 Create a new folder on a USB thumb drive. Name the folder ***SimplicityTouch Setup APK***

1.2.2 Copy the updated APK files (received from Recordex) into the SimplicityTouch Setup APK folder.

1.2.3 Insert USB drive into Panel USB port

1.2.4 Open the Home Screen and then Applications

1.2.5 Open SimplicityApp Store

1.2.6 Click on three dots at top right to select menu and tap on repository and select SD Card. This will read from the USB drive instead of the web server.

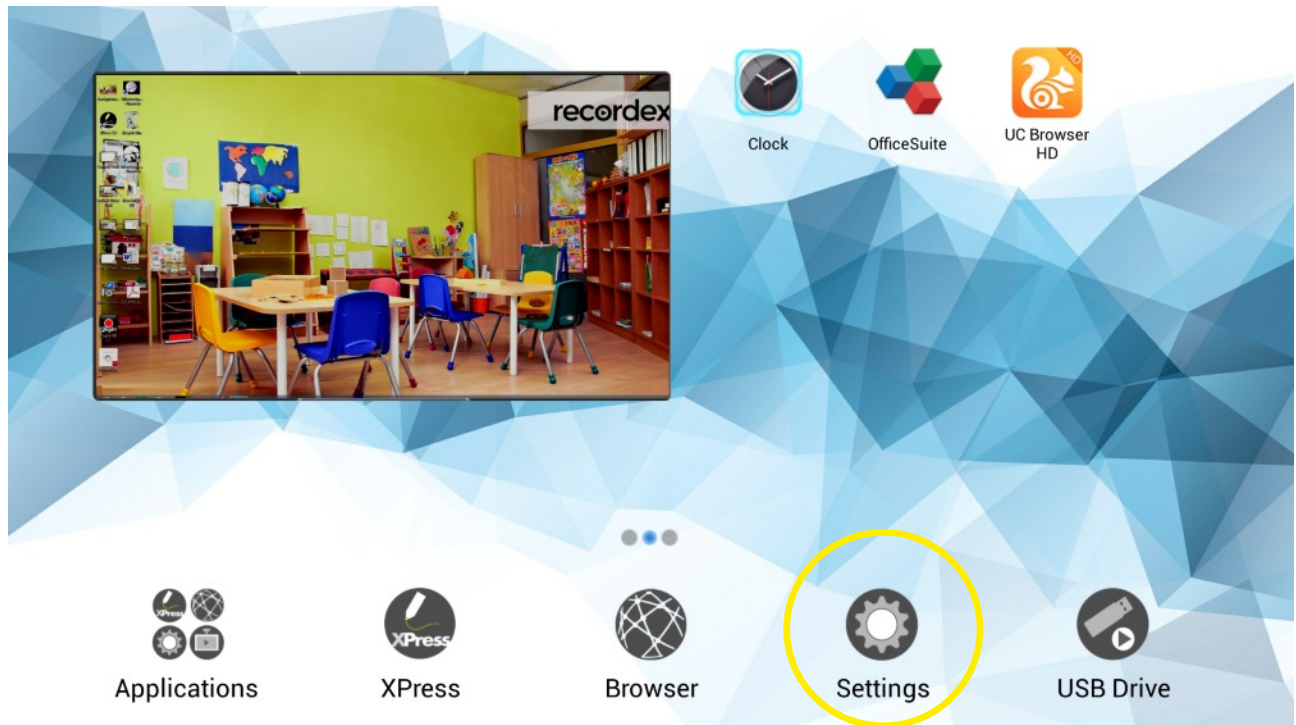
1.2.7 The SimplicityApp Store will show and Install button next to any application that can be updated. Click Install to update the App.

1.2.8 To recreate shortcuts see page 8 of this guide.

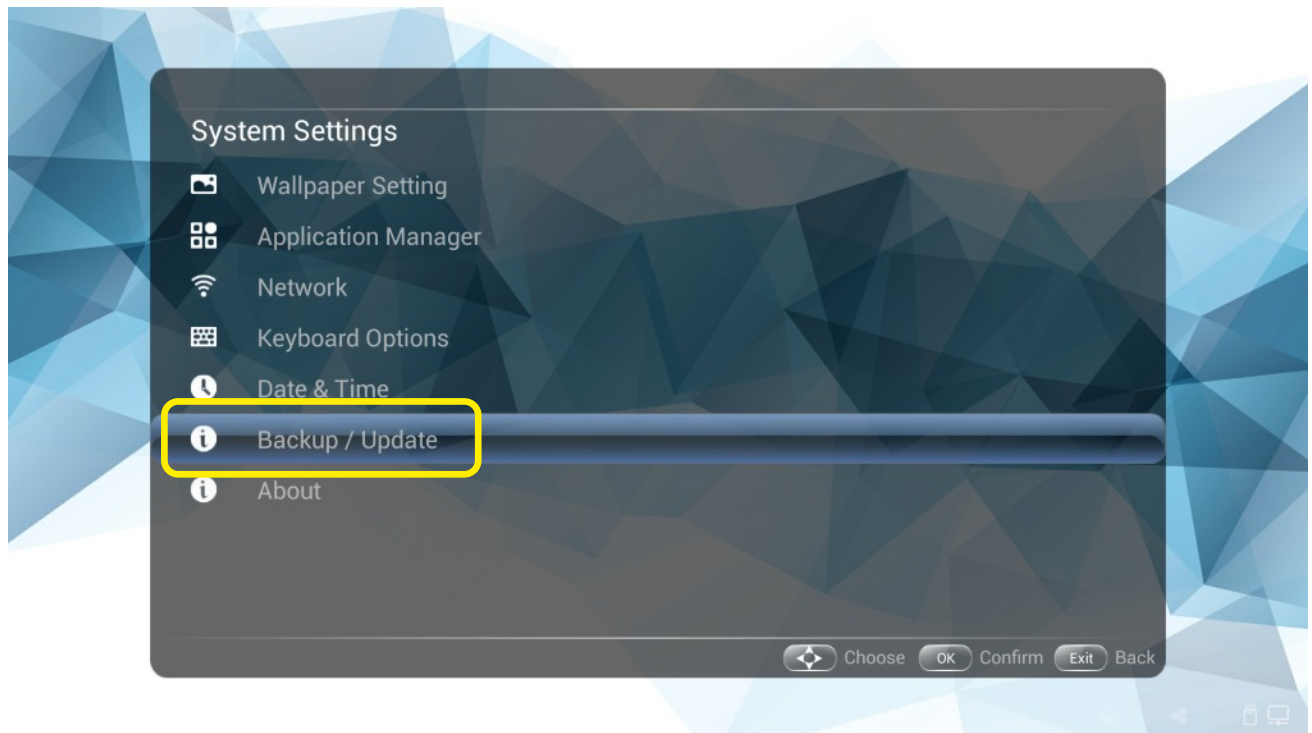
SOFTWARE UPDATES

2. How to restore panel to Factory Defaults

2.1 Go to the Home Screen and tap on Settings



2.2 Then tap on Backup/Update



SOFTWARE UPDATES

2.3 Tap on Restore Factory Defaults



2.4 Then follow steps on page 6-8 of this guide to reinstall apps.