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## **WRT3061 User Manual**

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## Table of Contents

1.	Introduction.....	3
1.1	Interfaces .....	4
1.2	Installation.....	5
1.2.1	Battery Installation.....	5
1.2.2	Router Installation.....	6
1.3	LED Specifications .....	7
2.	Getting Start .....	9
2.1	Insert the SIM Card .....	9
2.2	Download APP .....	9
2.3	Power On.....	9
2.4	Connect To the Router .....	10
2.5	Power Off .....	11
3.	Router Web/UI pages.....	12
3.1	Home Status .....	13
3.2	Fail Over and Load Balance.....	14
3.3	Administrator .....	17
3.3.1	Firmware Upgrade .....	17
4.	WDL Spot Pro APP .....	19
5.	Available functions in different power source.....	22
6.	Diagnostics.....	23
6.1	Download live log locally .....	23
7.	Regulatory Statements .....	25
7.1	FCC .....	25
7.2	Battery .....	26
7.3	Power Adapter.....	26

# 1. Introduction

The WRT3061 LTE Broadband Router is designed to provide you an easy and secure wireless network with advanced data services and rich features. This document walks you through the Device appearance, Getting Start and UI Settings of this router



Figure 1 WRT3061

## 1.1 Interfaces

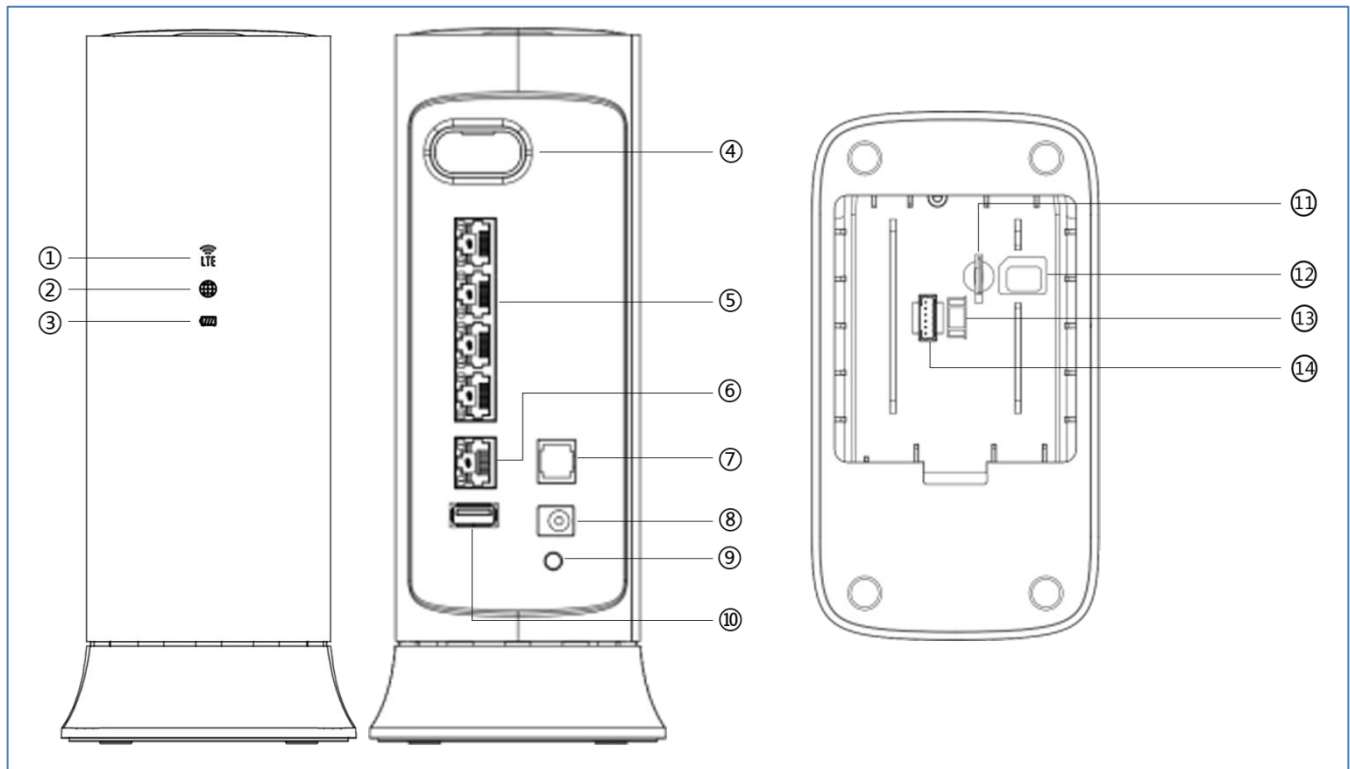


Figure 2 Interfaces

- ① LED indicator of LTE status
- ② LED indicator of Internet status
- ③ LED indicator of power status
- ④ External antenna (Reserved not used for trail)
- ⑤ Four local Ethernet ports for connecting the local computers
- ⑥ Internet port for connecting to a cable or ADSL modem
- ⑦ RJ11 analog phone port
- ⑧ Power adapter port
- ⑨ Factory default reset button
- ⑩ USB2.0 port for USB flash drives or USB hard disks
- ⑪ Micro SIM card slot for subscribed SIM card
- ⑫ Indication of inserting Micro SIM card
- ⑬ Indication of connecting battery cable
- ⑭ Battery cable slot

## 1.2 Installation

### 1.2.1 Battery Installation



Push-and-pull on the holder of battery door as arrow shows on picture then you can open the door.



Put the battery proper in the battery room.



Please close the door before power on the router.

## 1.2.2 Router Installation

Follow the illustration and steps before to install your router.

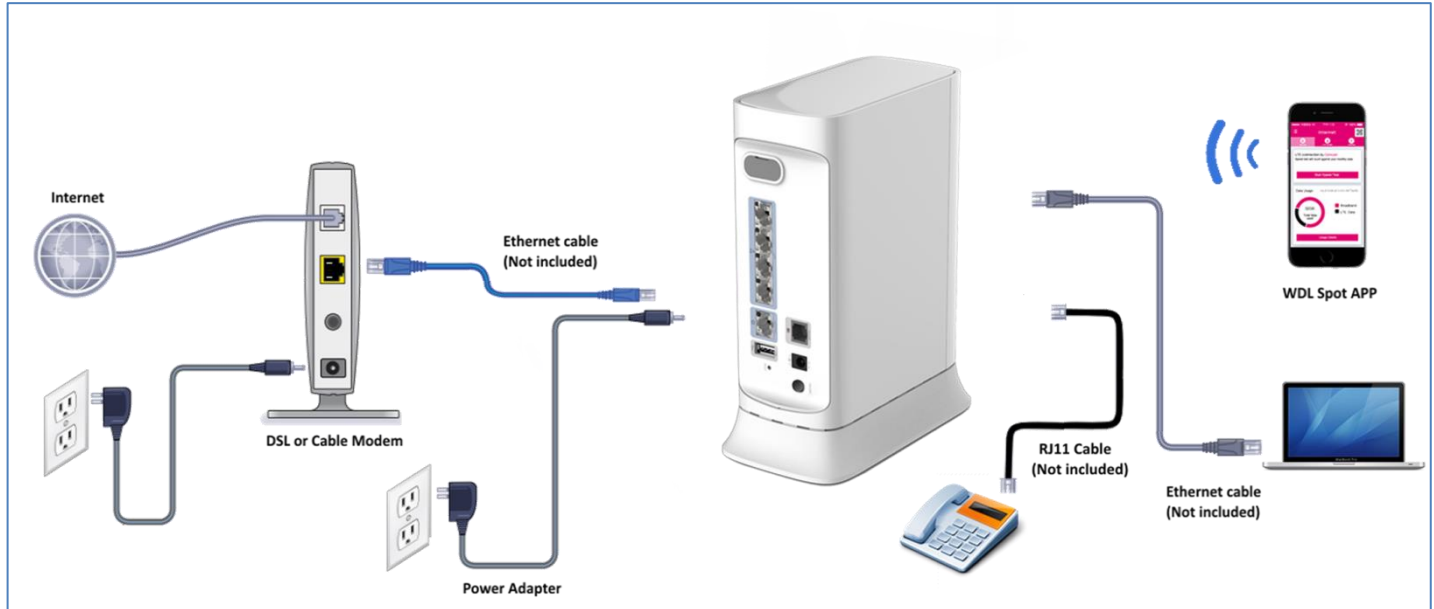


Figure 3 Installation

### 1. Prepare your modem.

Power on your modem, if it's not power on. Then cable the modem to the router's Internet port.

### 2. Prepare the router.

Connect the battery with connector if it's not present and insert SIM card after hear one "click" sound.

Connect the power adapter to the router and plug the power adapter into an electrical outlet.

### 3. Power on the router.

Press power switch in the back panel. The Battery & Power LED lights blink green. Wait for all LEDs to light solid.

### 4. Connect a computer.

Use an Ethernet cable to connect your computer to the Ethernet port on the router. You can also use WiFi to connect. To connect with WiFi, use the WiFi network name and password on the product label




### 5. Log in to the router.

Launch a web browser and enter **192.168.29.1** in the address field of the web browser . When prompted, enter **admin** for the user name and **admin** for the password.

### 1.3 LED Specifications

There are three LEDs in the front of this LTE router, each LED indicate different system status with different colors. When all LED is solid GREEN, system is in normal operation mode.

For more detail, you can refer to table below

LED	Activity	Description
LTE 	OFF	LTE service is not connected.
	Solid GREEN	LTE connected and signal level good.
	Solid AMBER	Signal level not good enough (weak signal )
	Solid RED	1. LTE is not functional. 2. SIM card is not provision. 3. SIM card is not inserted.
	Flash GREEN, AMBER, RED	System in battery mode and LED flashing every 5 seconds.
Internet LED 	OFF	Internet service is not available
	Solid GREEN	Internet connection is successful thru Ethernet
	Solid BLUE	Internet connection is successful thru LTE
	Solid RED	Reserved
	Flash BLUE	System in battery mode and LED flashing every 5 seconds.
BATTERY & POWER 	OFF	AC and battery OFF.
	Solid GREEN	System is completely power on. (Battery or AC Power)
	Solid AMBER	System is completely power on and battery level is lower than 20% capacity if battery connected.
	Solid RED	System is completely power on and battery need to be replaced.
	Flash GREEN, AMBER, RED	System in battery mode and LED flashing every 5 seconds.

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## 2. Getting Start

### 2.1 Insert the SIM Card

If your router did not come with a SIM already installed, then gently insert an active SIM card into the SIM card slot inside the battery room (see Figure 3). You should hear a “click” sound when the SIM card has been inserted properly.

### 2.2 Download APP

“WDL Spot Pro” App is available on both Apple Store and Google Play. Scan the QR-Code below to download App accordingly.



### 2.3 Power On

The output of attached power supply is DC 12V 3.5A. The input of the power supply is full range (100-240V, 50/60Hz).

Step 1: Connect the attached power supply to the power jack (DC IN).

Step 2: Connect the other end of the power supply to a power outlet.

Step 3: Just press the ON/OFF push button(refer Figure 2)

## 2.4 Connect To the Router

The WRT3061 is preset with a unique wireless network name (SSID) and password for wireless access. The information is on the label on the bottom of your router.



Figure 4 Logins and Access Information

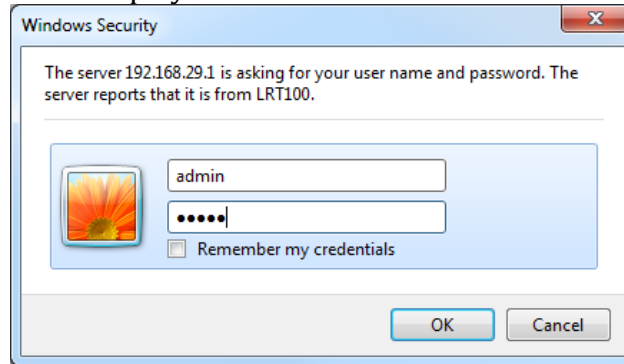
### Connect Router thru PC

Step 1: Scan WiFi SSID (ex: WDL00C8) of the router and enter the WiFi Password (ex: 1234567890) as the label.

Step 2: Launch your Internet browser

- Launch your browser from a computer that is connected to the router.
- Type **http://192.168.29.1**.

The login screen displays as below



- Enter “**admin**” for the router user name and default password “**admin**” for the router, both in lowercase letters if you never change it.

### Connect Router thru Phone App

Step 1: Open your phone WiFi setting and scan WiFi SSID (ex: WDL00C8) then enter the WiFi Password (ex: 1234567890) as the information on the bottom label (as Figure 5)

Step 2: Launch “WDL Spot Pro” App

- Upon the login page pop-up, follow the APP instruction to use the APP.

Note: The default login credential is identical as web browser login credential. If you never change it, please enter “**admin**” for the router user name and default password “**admin**” for the router, both in lowercase letters.

## 2.5 Power Off

To power off the router, you have to press and hold the “ON OFF” push button for 3 seconds.

## 3.Router Web/UI pages

The router home page contains overall features of this router. You can click any of the icons in the home page to check detail status or change any settings of this router.

- **Home Status** – This type contains “System”, “Broadband”, “LTE”, “Clients”, “Wi-Fi”, “Battery” and “Phone” of router current status.
- **Network** – This type contains “WAN”, “LTE Setup”, “LAN”, “Load Balance”, “DDNS” and “Data Usage” settings
- **WiFi** – This type contains “WiFi Setup”, “WiFi Advance”, “WPS”, “WiFi MAC Filter”, “WiFi Range Extension”, “WiFi Guest Network” settings.
- **Security** – This type contains “Firewall”, “Port Mapping”, “Parental Control” and “DMZ” settings of the router security.
- **USB Application** – This type contains “Samba”, “Ftp”, and “Media Server” settings of the router.
- **Administration** – This type contains “Password”, “Internet Time”, “Remote Management”, “Reboot”, “Power Off”, “Firmware Upgrade”, “Factory Default”, “Backup & Restore” and “Power Saving” setting of the router.
- **Diagnostics** – This type contains “Ping” and “Trace Route” tools for test your router internet connectivity.

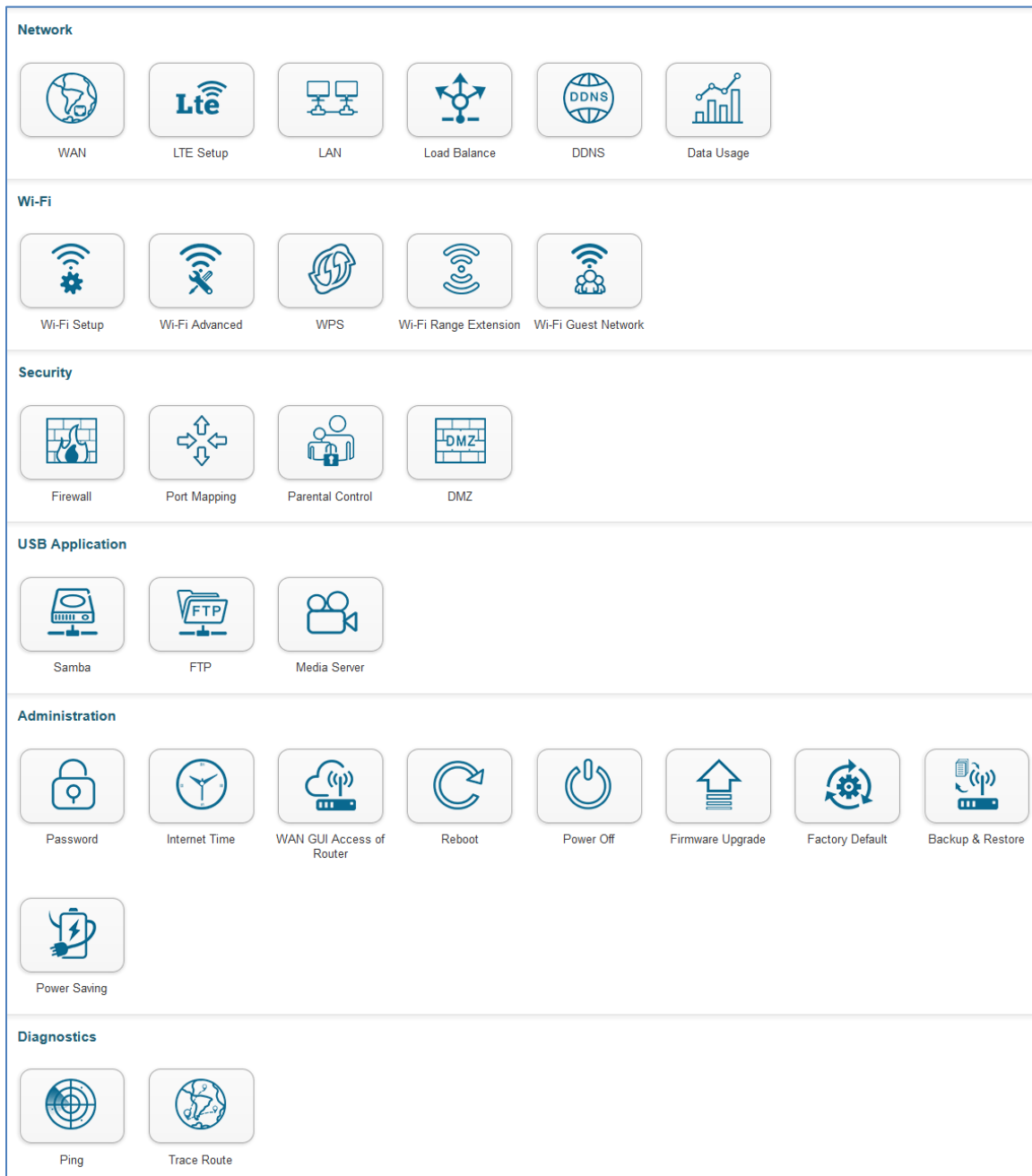


Figure 5 Web/UI Main Page Dashboard

### 3.1 Home Status

WRT3061 dynamically update the “System”, “Broadband”, “LTE”, “Clients”, “Wi-Fi”, “Battery” and “Phone” Status into Web GUI, and select corresponding icon to display the status details. Refer the figure 7 System Information page described System information.

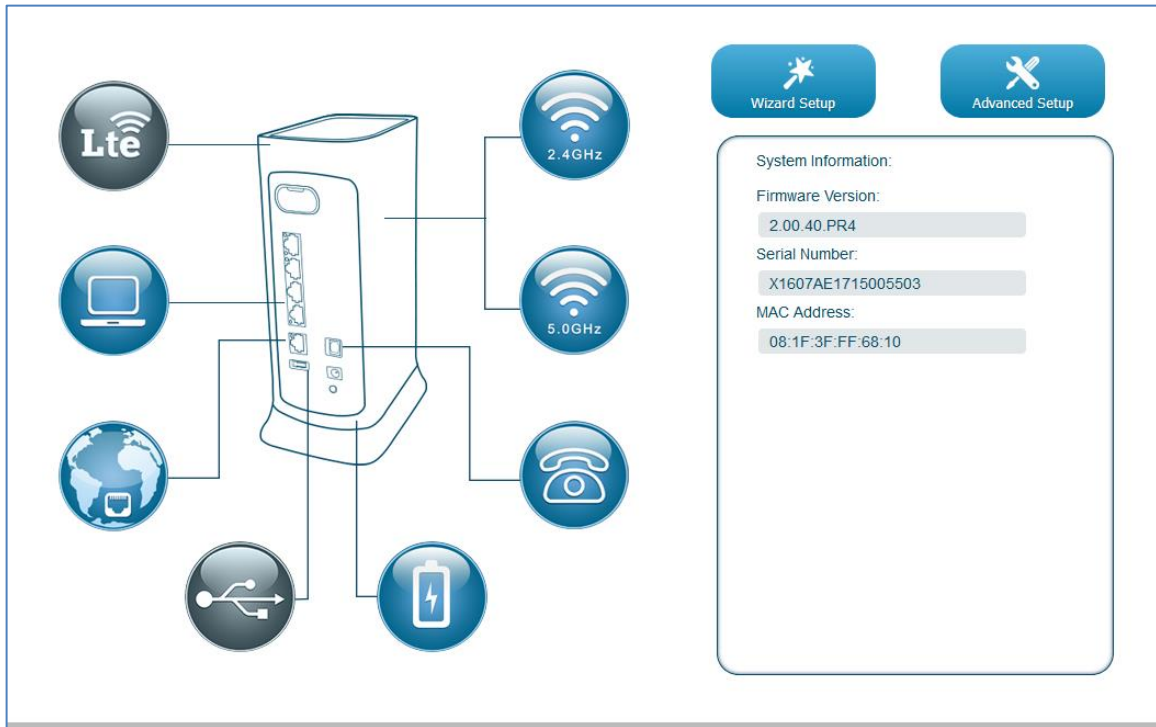


Figure 6 System Information

### 3.2 Fail Over and Load Balance

The load balance function has 2 modes - failover and load balance. The function works when router have at least 2 WAN ports could access internet, for example: Ethernet WAN and LTE are both available to access the internet.

- **Failover Mode:**

The traffic pass through Ethernet broadband port, if Ethernet cable plug out or Ethernet broadband can't access internet, the system WILL switch to LTE automatically. When Ethernet broadband recovered and able to access internet, the all router traffic will route to Ethernet broadband port again.

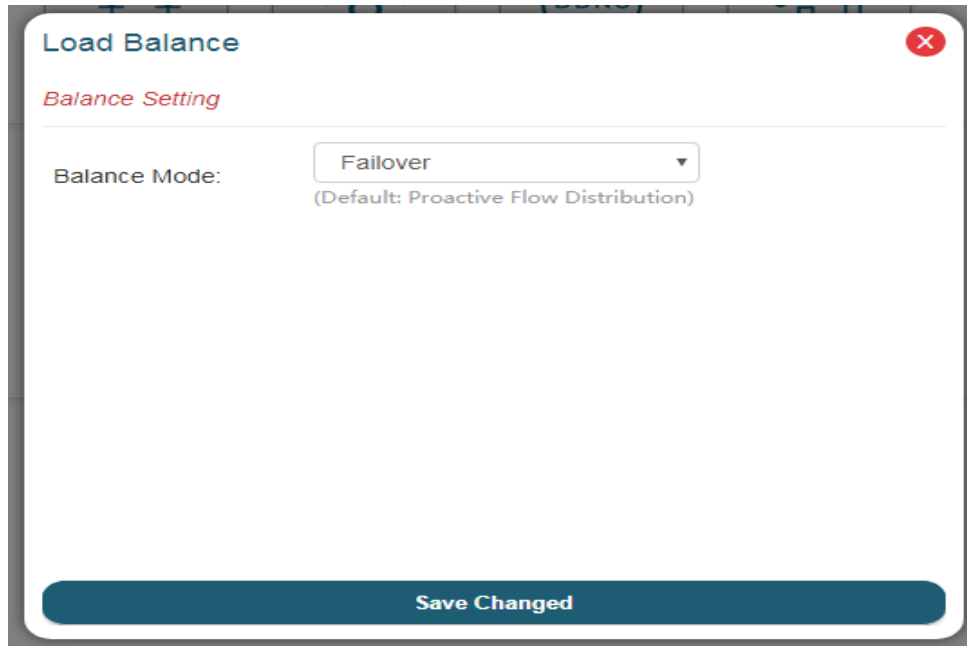


Figure 7 Failover Mode

- **Load Balance:**

You can set different weights to different interfaces. If broadband weight is 4, LTE weight is 1. There are approximate 75% connections will route to Ethernet broadband port, and 25% connections pass LTE.

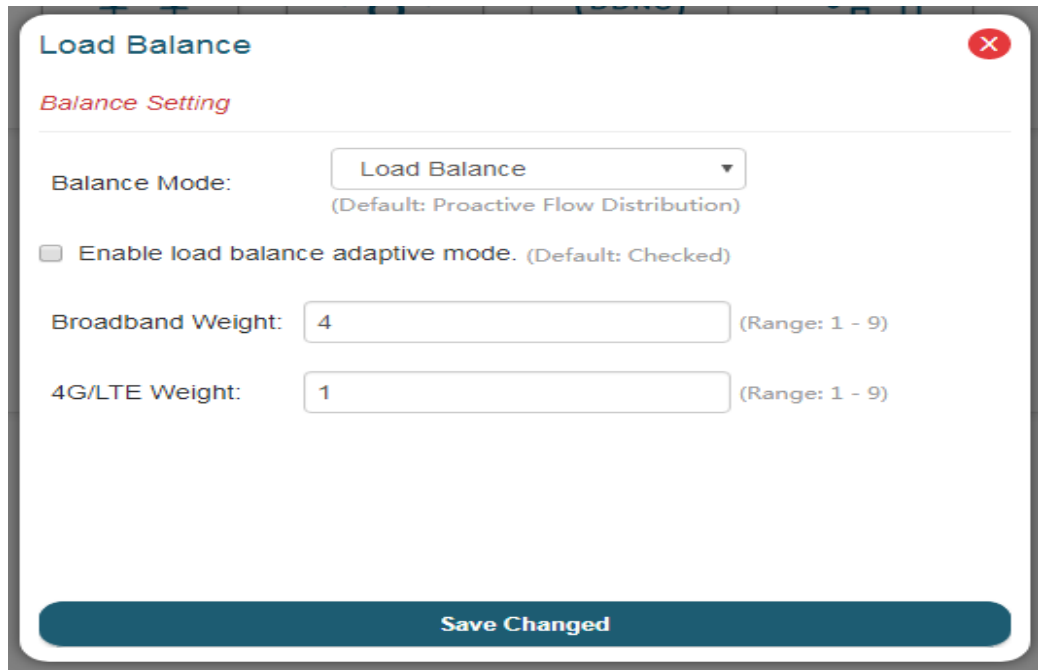
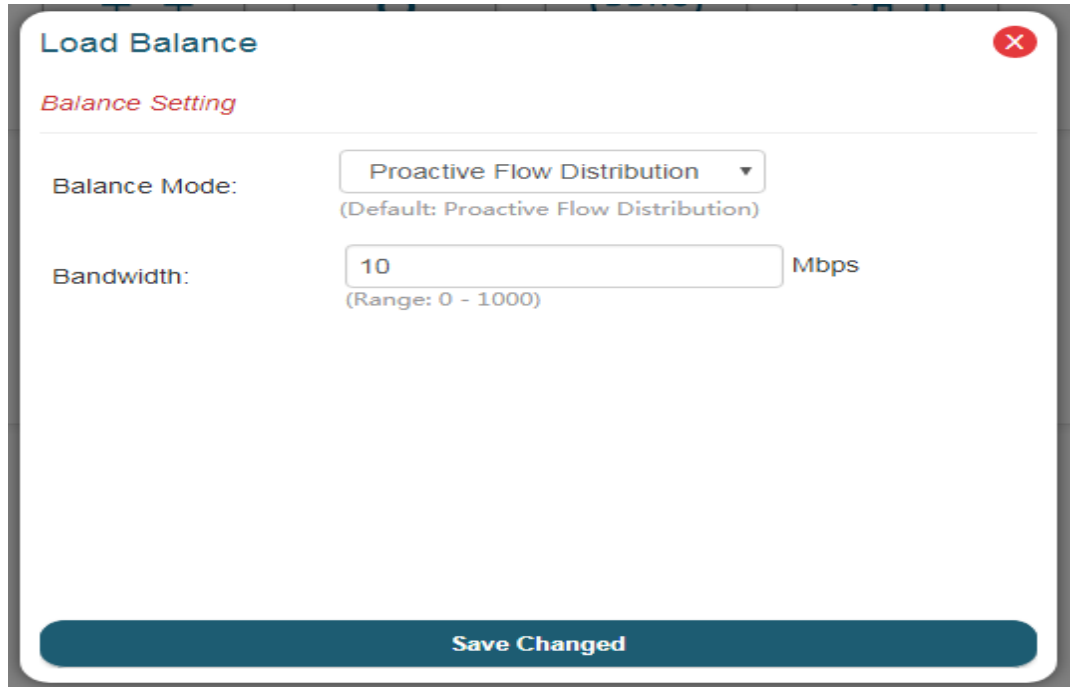


Figure 8 Load Balance Mode

- **Proactive Flow Distribution:**

You can set a bandwidth as router’s threshold, when current traffic less than threshold, current mode is “Failover”. If current traffic more than threshold, current mode would be changed to “Load Balance”, but when traffic down to 80% of threshold, current mode would be switch back “Failover”.





The screenshot shows a 'Load Balance' configuration window with a red close button in the top right corner. Below the title is a section titled 'Balance Setting'. The 'Balance Mode' is set to 'Proactive Flow Distribution' with a dropdown arrow and a note '(Default: Proactive Flow Distribution)'. The 'Bandwidth' is set to '10' with a text input field, a 'Mbps' label, and a note '(Range: 0 - 1000)'. At the bottom of the window is a dark blue button labeled 'Save Changed'.

Figure 10 Proactive Flow Distribution Mode

## 3.3 Administrator

### 3.3.1 Firmware Upgrade

You can refer to steps below to upgrade firmware of your router.

Step 1: Download new firmware (e.g. WRT3061-Firmware-v1.00.00.bin) to your PC.

Step 2: Connect your PC to WRT3061 (see [Connect To the Router](#)).

Step 3: Click "Firmware Upgrade" in Figure 11.

Step 4: Click "Select" to select the firmware (e.g. WRT3061-Firmware-v1.00.00.bin) from your PC.

Step 5: Click "Upgrade Firmware" and Confirm the upgrade process.

**Note: Do not power off during firmware upgrade.**

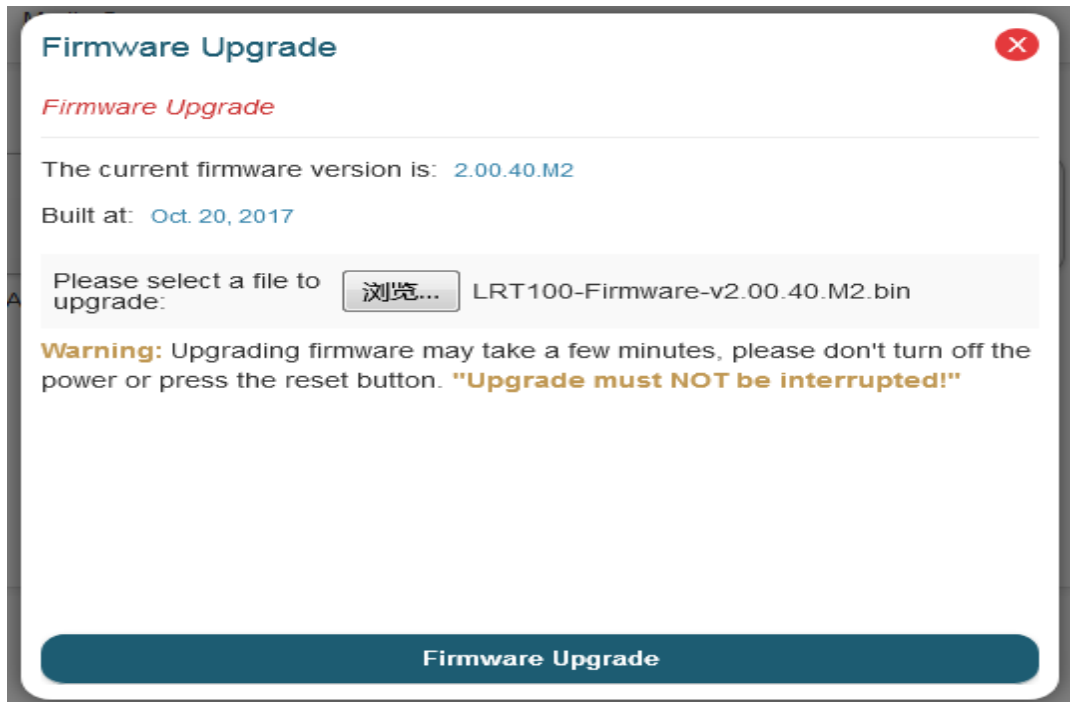


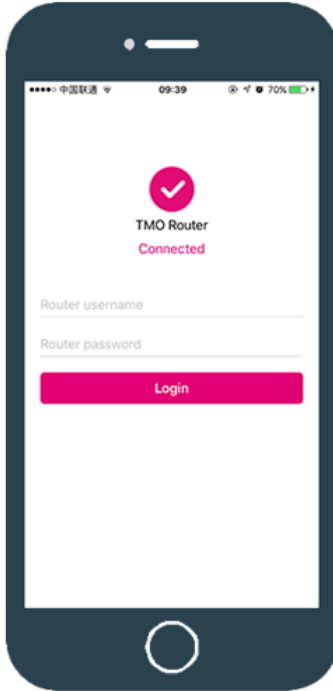
Figure 9 Firmware Upgrade

After firmware upgrade, you can re-connect the router and check the firmware version under the System Status.

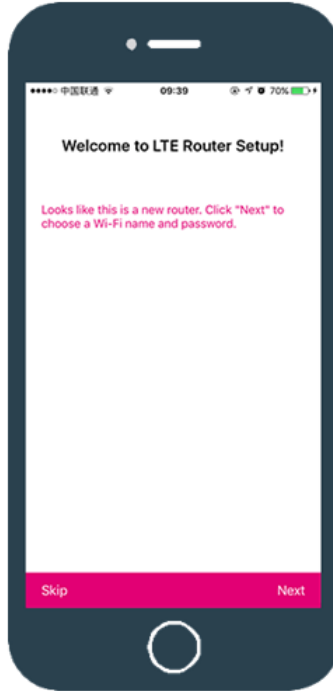
## 4. WDL Spot Pro APP

The “WDL Spot Pro” App for this router provide you an easy status check and simple setting features. After connected your phone to your router, then you are able to use the WDL Spot Pro App to use following functions.

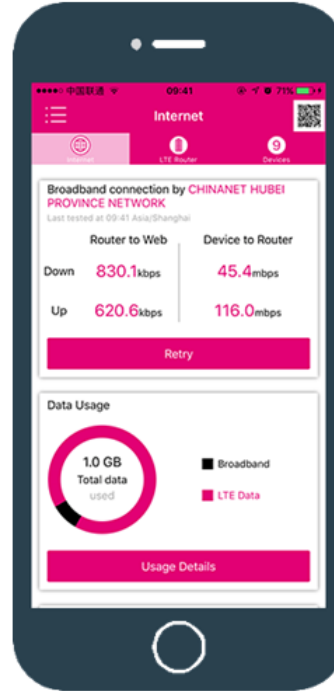
- **Internet Status** – It contains “ISP Info”, “Speed Test”, “Data Usage” and “LTE Uptime”.
- **LTE Router Info** – It contains “Wi-Fi Configuration” and “Battery Status”.
- **Device Info** – It contains “Device List” and “Device Type” information for the devices which connected to the router.
- **SIM Info** – It contains “ICCID”, “IMSI” information and SIM connection status of the inserted SIM card
- **Router Info** – It contains “Manufacturer”, “Manufacturer OUI”, “Model Name”, “Firmware Version”, “Serial Number”, “MAC Address”, “Uptime” and “IMEI” information of the router
- **VoIP Info** – It contains “IMEI”, “Phone Number” information and “Register Status” of the VoIP.
- **Settings** – It contains “URE”, “Notification”, “Password”, “Reboot”, “Factory Reset” and “Power Off” setting
  - **WiFi** – Provides “URE” settings
  - **Notification** – It will notify you once the battery capacity is lower than 10%.
  - **Password** – Can set router login password.
  - **Reboot** – Provides router reboot thru this App.
  - **Factory Reset** – Provides router reset to factory default setting thru this App.
  - **Power off** – Provides shutdown the router thru this App



Login



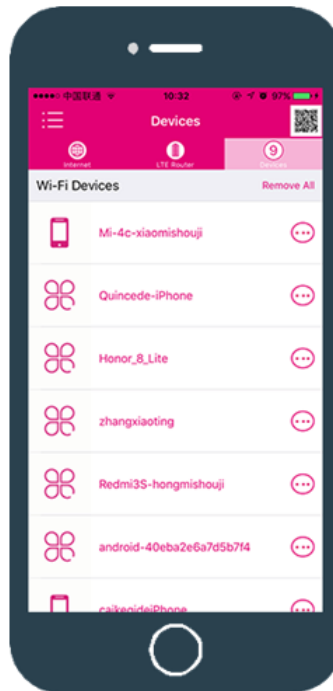
Configuration Wizard



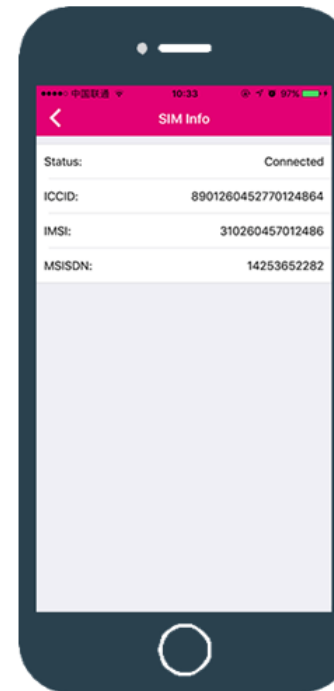
Internet



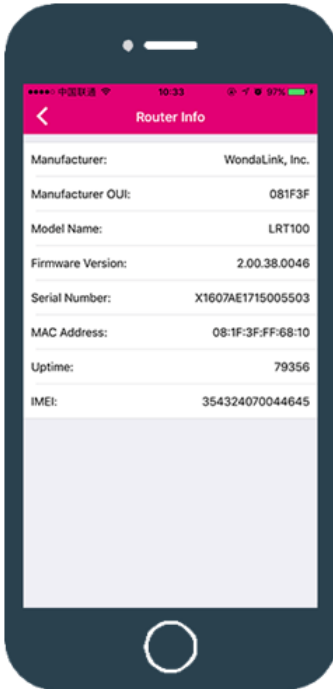
LTE Router



Devices



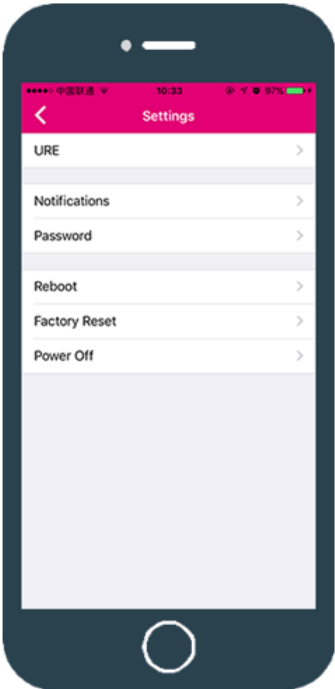
SIM Info



Router Info



VoIP



Settings

## 5. Available functions in different power source

Functions	AC Power Mode	Battery Mode
4G/LTE	Active	Active
2.4GHz WiFi	Active	Active
5GHz WiFi	Active	Inactive
Internet Ethernet Port	Active	Inactive
LAN Ethernet Ports	Active	Inactive
External USB Port	Active	Inactive
RJ11 Port	Active	Inactive
LED	Solid (Except router boot-up)	5 seconds blinking

## 6. Diagnostics

### 6.1 Download live log locally

There is a hidden page of router to support diagnostic.

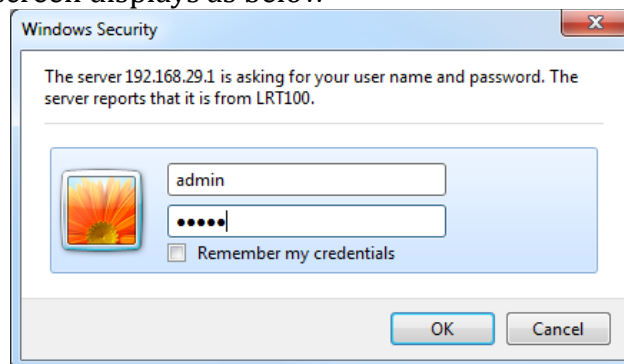
#### Connect Router thru PC

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Step 2: Launch your Internet browser

- Launch your browser from a computer that is connected to the router.
- Type **http://192.168.29.1**.

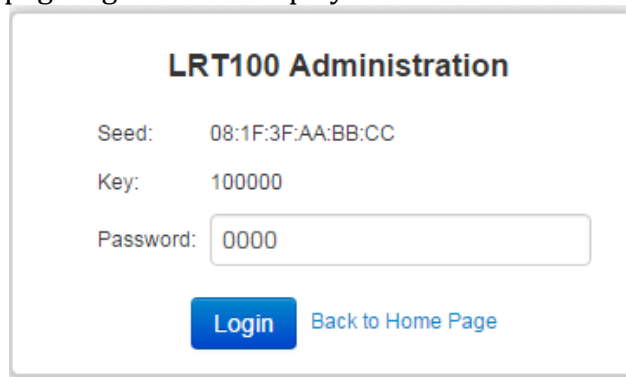
The login screen displays as below



- Enter “**admin**” for the router user name and default password “**admin**” for the router, both in lowercase letters if you never change it.

Step 3: Type **http://192.168.29.1/mtadmin/mt\_admin\_zone.html**

- The hidden page login screen displays as below



- Type the default password “**0000**” on the page then please use mouse to click the “**Login**” button to enter the hidden page

Step 4: Click the “**Download Live Log**” button of the figure 11 below

- The live log file called “**spiderx\_logs.tgz**” will be generated automatically in the internet browser download folder.
- Please send this log file to WDL engineer team for further analysis.

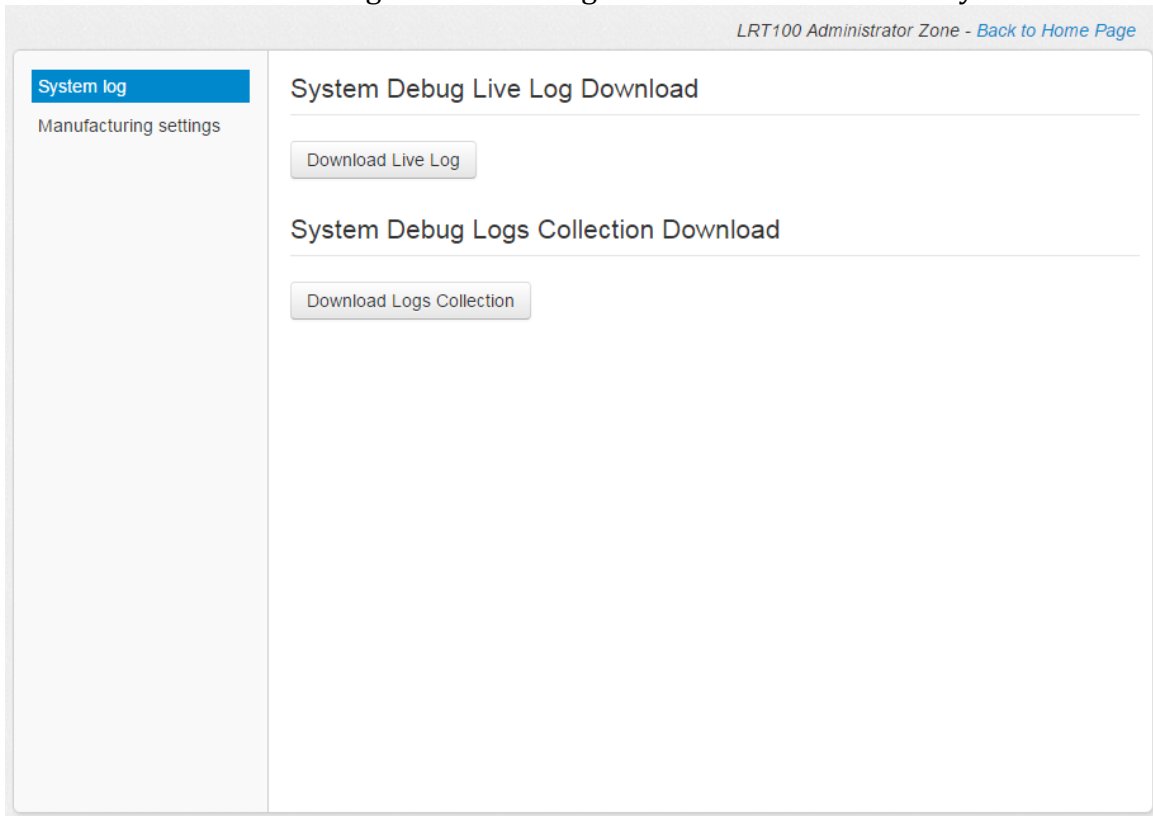


Figure 10 Hidden Page



## 7. Regulatory Statements

### 7.1 FCC

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

#### **FCC Caution:**

- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

## Radiation Exposure Statement:

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This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Note: The country code selection is for non-US model only and is not available to all US model. Per FCC regulation, all WiFi product marketed in US must fixed to US operation channels only.

## **7.2 Battery**

CAUTION: RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

## **7.3 Power Adapter**

SUPPLIED BY AN UL LISTED POWER SUPPLY FOR USE AT TMA 40 DEGREE C , OUTPUT 12V 3.5A , LPS AND ONLY USED AT ALTITUDE NOT EXCEEDING 2000M