



# **3G/4G Portable Router with Battery Powered**

## **User Guide of MT-MR1024**

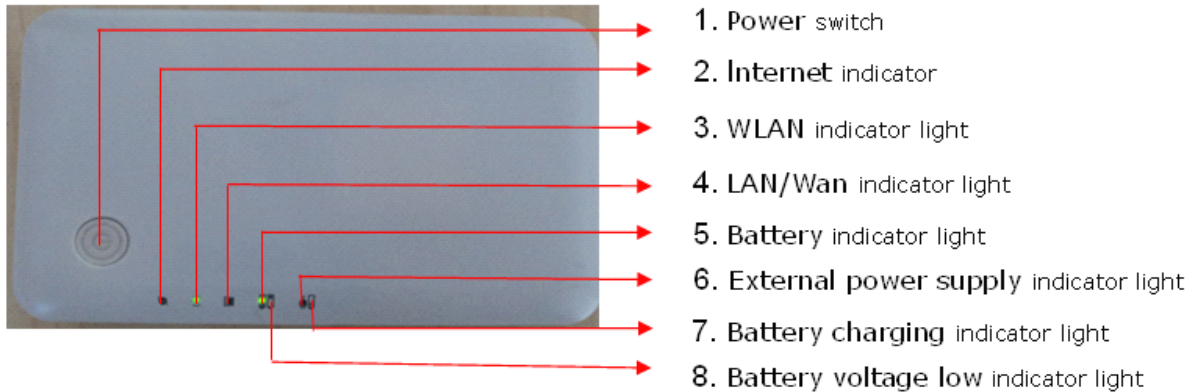
[www.mt-link.com](http://www.mt-link.com)

## Section one Hardware Installation

### 1.1 Panel Layout

#### 1.1.1 The Front Panel

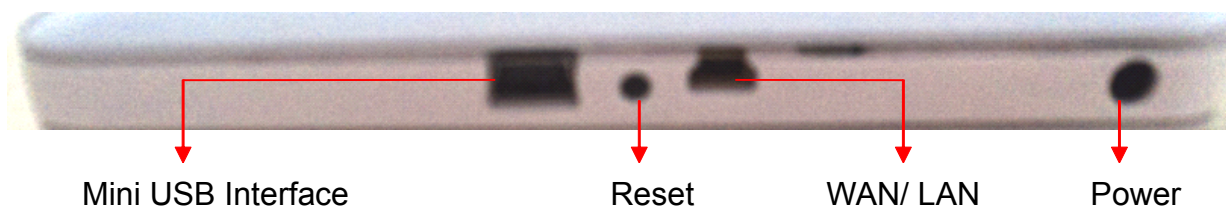
The front panel of the 3G/4G Portable Router consists of several LED indicators, which is designed to indicate connections from left to right. The table describes the LED on the front panel of the router.



LED indicators:

Led Name	Action	Description
External power supply	off	Power off
	on	power on
WLAN	off	Do not start wireless
	on	Have enabled the wireless function
Battery	off	Not Connected
	Green light	Normal Connected
	Red light	Battery voltage low
Internet	off	Internet not Connected
	On/ flashing	Internet normal Connected
WAN /LAN	off	there is no device connected to the corresponding port
	on	there is a device connected to the corresponding port
	flashing	there is an active device connected to the corresponding port
Battery Charge	off	Battery Charging off
	On	Battery Charging on

#### 1.1.2 The Rear Panel

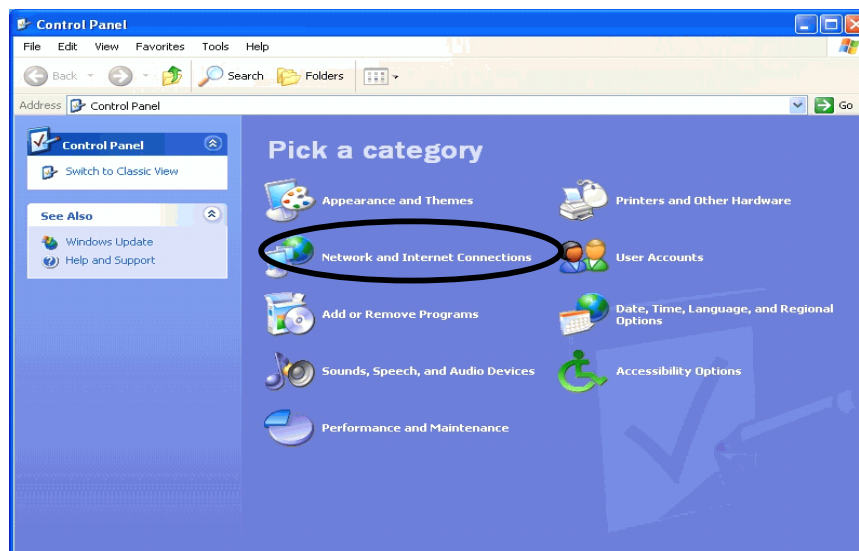


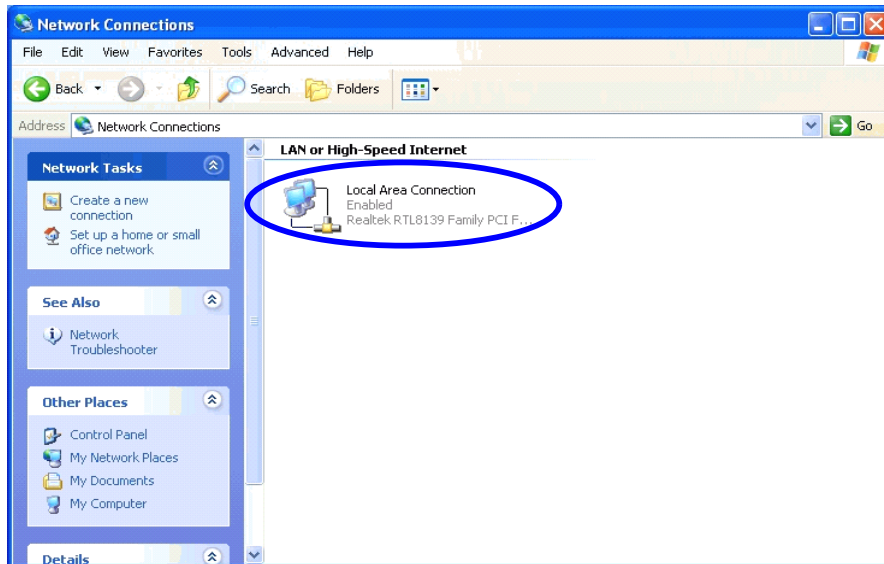
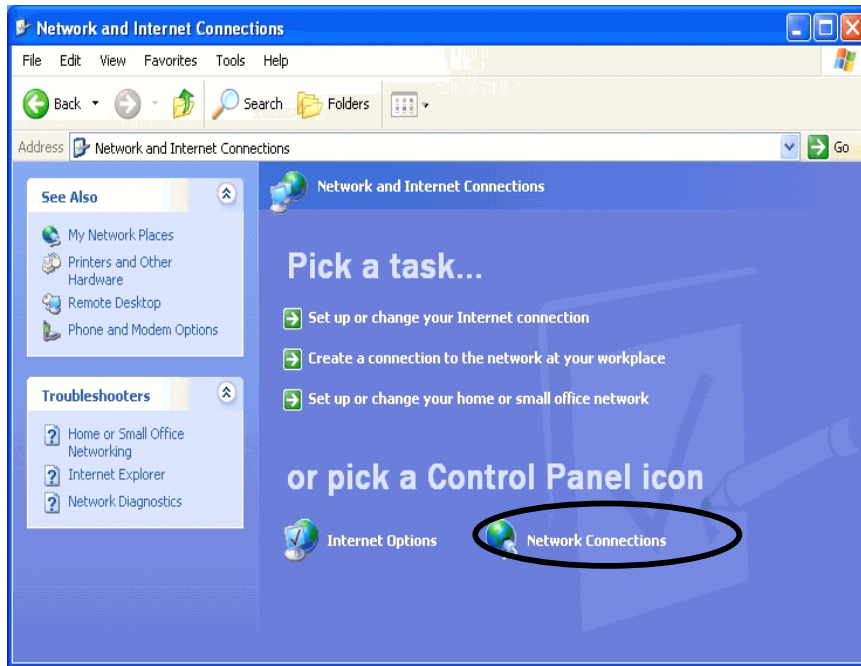
Power (Power Play Hole)	Plug the power jack . Note: Please use the random spin-off of power, if the use does not match the power supply, may result in damage to the router.
Reset	Factory Default Reset button
WAN/ LAN	WAN/LAN port. Connect xDSL Modem / Cable Modem or Ethernet/ Computer and hub / switch connected through these ports into the LAN.
Mini USB Interface	connect to 3G wireless network card(Built-in 3G Modem no this port)

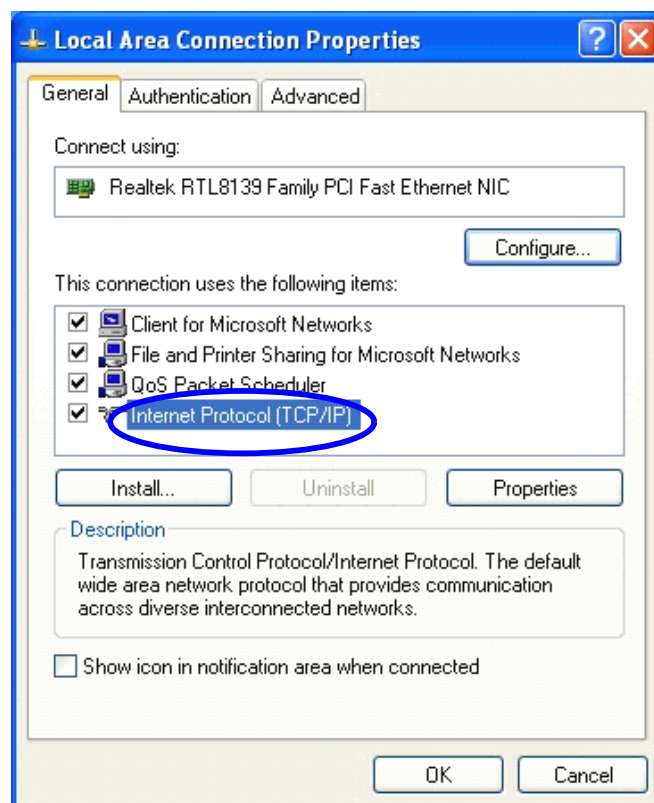
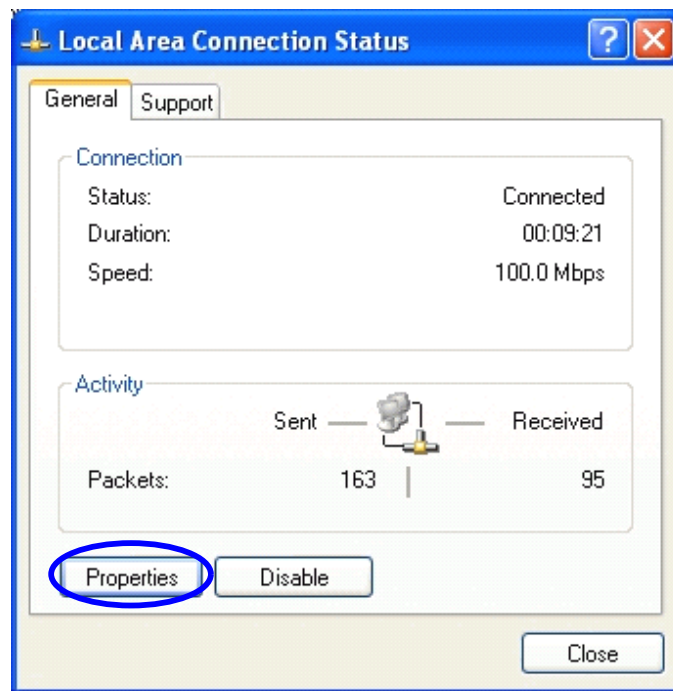
## **1.2. Installation Instructions**

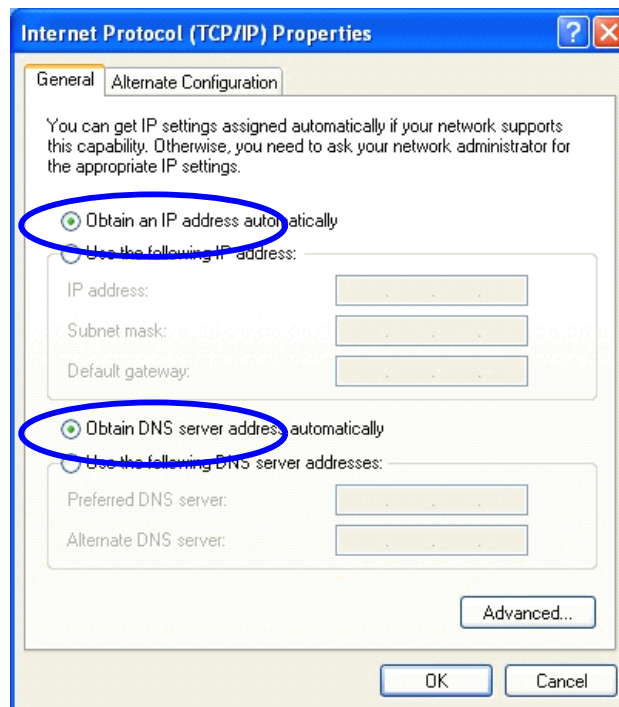
### **WINDOWS XP SETUP**

- (1) Install MT-MR1024
- (2) Start Windows XP and check LAN LED is on or off. If off, please confirm the connection of your computer and MT-MR1024
- (3) Click **“Start”->“Setting”->“Panel Control”**
- (4) Double click the **“Network and Internet Connections”** in **“control panel”**.
- (5) Click **“Network connection”->“local area connection”->“properties”-> “Internet protocol (TCP/IP) ” and “Properties”**.
- (6) Click **“General ”** ,Select **“Obtain an IP address automatically”** and **“Obtain DNS server address automatically”**
- (7) Click **“OK”**









(8) Click **“Start”->“Run”**

(9) Input **“cmd”**, Click **“OK”**

(10) Input **“ipconfig”** in the pop-up command window.

(11) Please make sure your IP is the same with below. If same then your configurations is successful, or please redo the above steps and restart your computer.

The IP address is **192.168.1.2**

The subnet mask is **255.255.255.0**

The default gateway is **192.168.1.1**

```
C:\Documents and Settings\Administrator>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection 2:

    Connection-specific DNS Suffix  . : 
    IP Address. . . . .               : 192.168.1.2
    Subnet Mask . . . . .             : 255.255.255.0
    Default Gateway . . . . .         : 192.168.1.1
```

(12) Input **“ping 192.168.1.1”**, then **“Enter”**.

(13) If you can see **“Reply from 192.168.1.1: bytes=32 time=2ms TTL=64”**,

(14) Then the connection between your computer and IP1107 is completed.

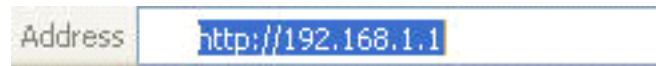
## 1.3 MT-1024 Setup

### 1.3.1 START INTERNET EXPLORER TO LOGIN

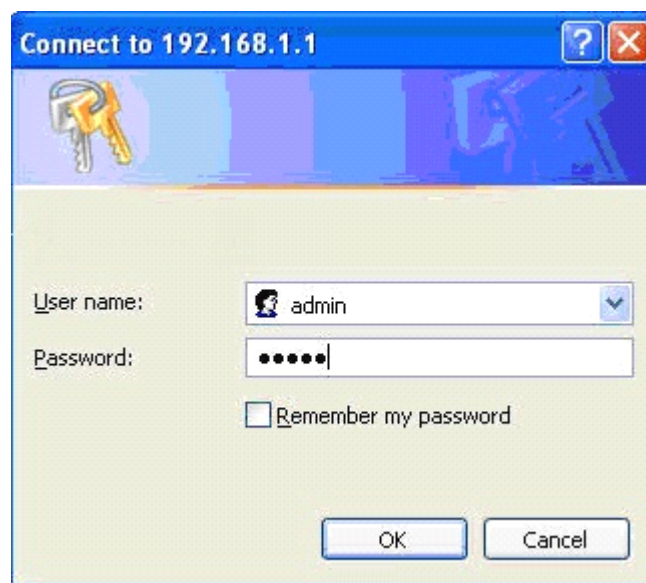
Run Internet Explorer (  , and click the “Stop (  ) button in Internet Explorer’s toolbar.

Input **http://192.168.1.1** in Internet Explorer’s address bar.

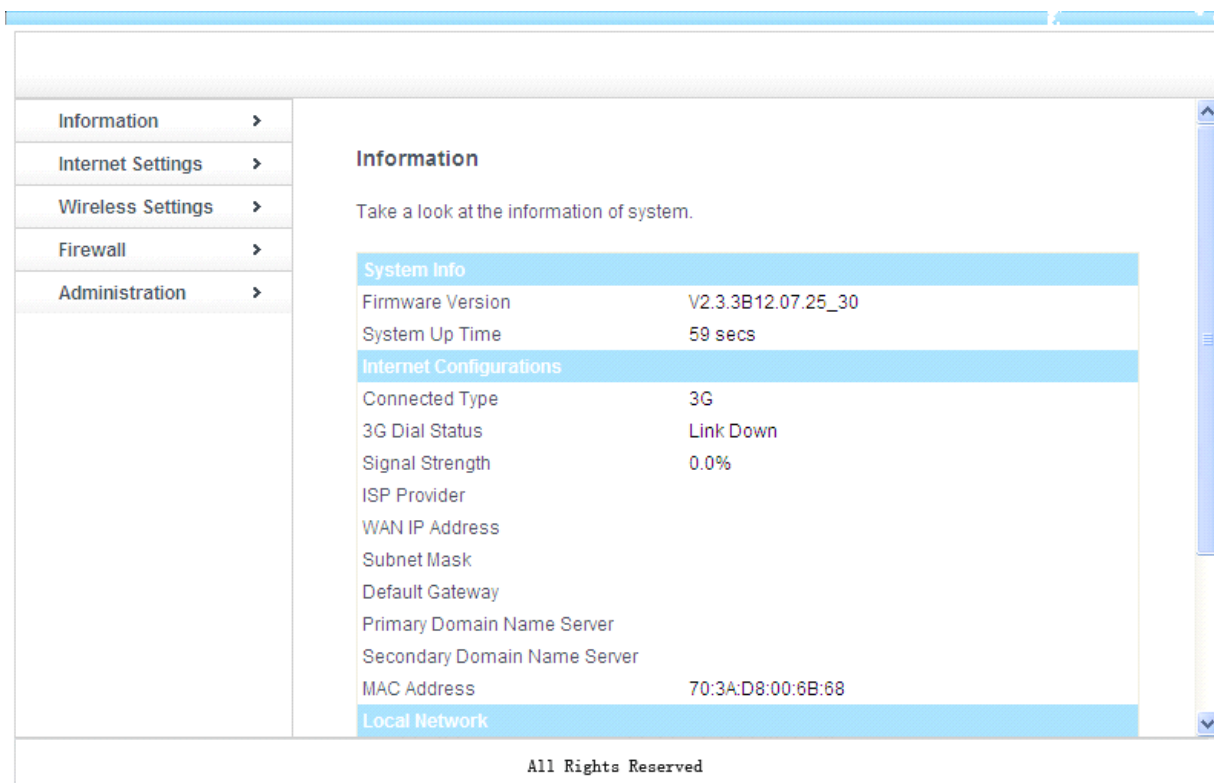
192.168.1.1 is Default IP address



Users will see the following login page, Enter **admin** for the User Name and Password, both in lower case letters. Then click the **OK** button or press the **Enter** key.



## Section Two Configuration Setup



Click Information, System Information/Connecting Information/Log will appear.

System Information: In this page is Take a look at the information of system.

Connecting Information: Take a look at the statistics.

Log: This page can be used to set remote log server and show the system log

## Section Three Detailed Configuration

### 3.1 Click Internet Setting



Information >	<h3>Wide Area Network (WAN) Settings</h3> <p>You may choose different connection type suitable for your environment. Besides, you may also configure parameters according to the selected connection type.</p> <div> <b>WAN Connection Type:</b> <div>3G</div> </div> <div> <b>3G Dial Configuration Setup</b> <p>Setup 3G dial parameters, automatically or manually.            (Auto: Based on the SIM information, system will set the parameters automatically; Manual: User has to set the parameters manually)</p> <div> <b>SIM PIN</b> <div>0000</div> </div> <div> <input checked="" type="radio"/> Auto           <input type="radio"/> Manual         </div> <div> <b>Dial Number</b> <div>#777</div> </div> <div> <b>User Name</b> <div>vwireless@ptcl.com</div> </div> <div> <b>Password</b> <div>ptcl</div> </div> <div> <b>APN</b> <div></div> </div> </div>
Internet Settings v	
WAN	
LAN	
DHCP Clients	
Advanced Routing	
QoS	
Wireless Settings >	
Firewall >	
Administration >	
All Rights Reserved	

You may choose different connection type depends on your environment. Besides, you may also configure parameters according to the selected connection type.

### 3.1.2 WAN

Information >	<h3>Wide Area Network (WAN) Settings</h3> <p>You may choose different connection type suitable for your environment. Besides, you may also configure parameters according to the selected connection type.</p> <div> <b>WAN Connection Type:</b> <div> <div>3G</div> <div>           STATIC (fixed IP)            DHCP (Auto config)            PPPoE (ADSL)  <b>3G</b>            Wifi Access            PPTP         </div> </div> </div> <div> <b>3G Dial Configuration Setup</b> <p>Setup 3G dial parameters, automatically or manually.            (Auto: Based on the SIM information, system will set the parameters automatically; Manual: User has to set the parameters manually)</p> <div> <b>SIM PIN</b> <div>0000</div> </div> <div> <input checked="" type="radio"/> Auto           <input type="radio"/> Manual         </div> <div> <b>Dial Number</b> <div>#777</div> </div> <div> <b>User Name</b> <div>vwireless@ptcl.com</div> </div> <div> <b>Password</b> <div>ptcl</div> </div> <div> <b>APN</b> <div></div> </div> </div>
Internet Settings v	
WAN	
LAN	
DHCP Clients	
Advanced Routing	
QoS	
Wireless Settings >	
Firewall >	
Administration >	
All Rights Reserved	

**WAN Connection Type:** Here you can select the access method to IP over Ethernet, WiFi access, PPPoE or 3G , by click the item value of WAN Access type.

### 3.1.2.1 3G Settings

**Wide Area Network (WAN) Settings**

You may choose different connection type suitable for your environment. Besides, you may also configure parameters according to the selected connection type.

**WAN Connection Type:** 3G

**3G Dial Configuration Setup**

Setup 3G dial parameters, automatically or manually.  
(Auto: Based on the SIM information, system will set the parameters automatically; Manual: User has to set the parameters manually)

SIM PIN: 0000

☒ Auto  
☐ Manual

Dial Number: #777

User Name: vwireless@ptcl.com

Password: ptcl

APN:

All Rights Reserved

**3G Connecting Mode:** under the automatic dialup mode, the router will dial up automatically and get connected to the Internet when connect to a 3G USB modem. Under the manual dialup mode, the dialup Internet access will not be launched until the user clicks 'Connect' on the status page.

The default APN settings is for PTCL users, PTCL users please just insert 3G USB modem onto router and auto internet connect within 60 sec.....

Other users please select “Manual” to type in dial number, user name, password and APN if have any.

**MAC Clone:** Enable the MAC copy and the MAC address of extranet network ports could be set.

### 3.1.2.2 STATIC Setting

The screenshot shows the 'Wide Area Network (WAN) Settings' page. On the left is a navigation menu with 'Internet Settings' expanded, showing options like WAN, LAN, DHCP Clients, Advanced Routing, QoS, Wireless Settings, Firewall, and Administration. The main content area is titled 'Wide Area Network (WAN) Settings' and includes a descriptive paragraph. Below this, the 'WAN Connection Type' is set to 'STATIC (fixed IP)'. Under the 'Static Mode' section, there are input fields for IP Address, Subnet Mask, Default Gateway, Primary DNS Server, and Secondary DNS Server. A 'MAC Clone' section has a 'Disable' dropdown. At the bottom are 'Apply' and 'Cancel' buttons. A footer note says 'All Rights Reserved'.

If there is a fixed-line of Internet access, user just need to complete the required information before connecting, the required information will supply by the ISP.

### 3.1.2.3 DHCP (Auto Config.)

This screenshot shows the same 'Wide Area Network (WAN) Settings' page, but with the 'WAN Connection Type' set to 'DHCP (Auto config)'. The 'DHCP Mode' section now contains a 'Hostname (optional)' input field. The 'MAC Clone' section remains with the 'Disable' dropdown. 'Apply' and 'Cancel' buttons are at the bottom. The navigation menu and footer are identical to the previous screenshot.

When using DHCP to obtain IP address, it is expected to fill in the network name, which is optional and can be blank.

### 3.1.2.4 WIFI Access Setting

Information >

**Internet Settings** ▾

WAN

LAN

DHCP Clients

Advanced Routing

QoS

Wireless Settings >

Firewall >

Administration >

#### Wide Area Network (WAN) Settings

You may choose different connection type suitable for your environment. Besides, you may also configure parameters according to the selected connection type.

WAN Connection Type: **Wifi Access** ▾

**Wifi Access**

SSID

BSSID

Channel **AUTO** ▾

Security Mode **Disable** ▾

No.	SSID	BSSID	Channel	Security	Encrypt	Signal(%)	Mode
-----	------	-------	---------	----------	---------	-----------	------

MAC Clone **Disable** ▾

You can click "scan" search to access SSID. Security Mode need to be connected to the same wireless router.

### 3.1.3 LAN

Information >

**Internet Settings** ▾

WAN

**LAN**

DHCP Clients

Advanced Routing

QoS

Wireless Settings >

Firewall >

Administration >

#### Local Area Network (LAN) Settings

You may enable/disable networking functions and configure their parameters as your wish.

**LAN Setup**

IP Address

Subnet Mask

MAC Address

DHCP Type **Server** ▾

Start IP Address

End IP Address

Lease Time

This page is used to configure the parameters for local area network which connects to the LAN port of your Access Point. Here you may change the setting for IP address, subnet mask, DHCP, etc..

**Subnet Mask** - An address code that determines the size of the network. Normally use 255.255.255.0 as the subnet mask.

**DHCP:** You can select None, Client, Serve. The router is set up by default as a DHCP (Dynamic Host Configuration Protocol) server, which provides the TCP/IP configuration for all the PCs that are connected to the router on the LAN.

**Start IP Address:** This field specifies the first of the addresses in the IP address pool

**End IP Address:** This field specifies the end of the addresses in the IP address pool

### **3.1.4 DHCP Clients**

#### **DHCP Client List**

You could monitor DHCP clients here.

DHCP Clients			
Hostname	MAC Address	IP Address	Expires in
XP-201205211006	A4:BA:DB:BB:76:D5	192.168.1.2	23:56:13

You could monitor DHCP clients here.

### **3.1.5 Advanced Routing**

You may add and remote custom Internet routing rules, and/or enable dynamic routing exchange protocol here.

#### Static Routing Settings

You may add and remote custom Internet routing rules, and/or enable dynamic routing exchange protocol here.

Add a routing rule

Destination

Range

Host ▼

Gateway

Interface

LAN ▼

Comment

Apply

Reset

Current Routing table in the system:

No.	Destination	Netmask	Gateway	Flags	Metric	Ref	Use	Interface	Comment
1	255.255.255.255	255.255.255.255	0.0.0.0	5	0	0	0	LAN (br0)	

### 3.1.6 QoS

#### Quality of Service Settings

You may setup rules to provide Quality of Service guarantees for specific applications.

##### QoS Setup

Upload bandWidth	<input type="text"/>	kbps
Download BandWidth	<input type="text"/>	kbps
start Ip	<input type="text"/>	
End Ip	<input type="text"/>	
Direction	<input type="text" value="download"/>	
Min Stream Rate	<input type="text"/>	kbps
Max Stream Rate	<input type="text"/>	kbps

Submit

##### Current Qos rules in system:

NO.	Upload bandWidth	Download BandWidth	start Ip	End Ip	Direction	Min Stream Rate	Max Stream Rate
<div>Delete SelectedReset</div>							

You may setup rules to provide Quality of Service guarantees for specific applications.

## 3.2 Wireless

### Basic Wireless Settings

You could configure the minimum number of Wireless settings for communication, such as Network Name (SSID) and Channel. The Access Point can be set simply with only the minimum setting items.

#### Wireless Network

Radio On/Off	<input type="text" value="OFF"/>
WIFI Power	<input type="text" value="Normal Pow"/>
Network Mode	<input type="text" value="11b/g/n mixed mode"/>
Network Name(SSID)	<input type="text" value="MT-Link"/> Hidden <input type="checkbox"/>
Broadcast Network Name (SSID)	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Frequency (Channel)	<input type="text" value="2462MHz (Channel 11)"/>

#### HT Physical Mode

Operating Mode	<input checked="" type="radio"/> Mixed Mode <input type="radio"/> Green Field
Channel BandWidth	<input type="radio"/> 20 <input checked="" type="radio"/> 20/40
Guard Interval	<input type="radio"/> Long <input checked="" type="radio"/> Auto

### 3.2.1 Basic

You could configure the minimum number of Wireless settings for communication, such as Network Name (SSID) and Channel. The Access Point can be set simply with only the minimum setting items

### 3.2.2 Advanced

#### Advanced Wireless Settings

Use the Advanced Setup page to make detailed settings for the Wireless. Advanced Setup includes items that are not available from the Basic Setup page, such as Beacon Interval, Control Tx Rates and Basic Data Rates.

Advanced Wireless	
BG Protection Mode	Auto <input type="button" value="v"/>
Beacon Interval	100 <input type="text"/> ms (range 20 - 999, default 100)
Data Beacon Rate (DTIM)	1 <input type="text"/> ms (range 1 - 255, default 1)
Fragment Threshold	2346 <input type="text"/> (range 256 - 2346, default 2346)
RTS Threshold	2347 <input type="text"/> (range 1 - 2347, default 2347)
TX Power	1 <input type="text"/> (range 1 - 100, default 100)
Short Preamble	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Short Slot	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Tx Burst	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Pkt_Aggregate	<input checked="" type="radio"/> Enable <input type="radio"/> Disable

All Rights Reserved

#### Wi-Fi Multimedia

WMM Capable	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
APSD Capable	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
WMM Parameters	<input type="button" value="WMM Configuration"/>

#### Multicast-to-Unicast Converter

Multicast-to-Unicast	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
----------------------	---

Use the Advanced Setup page to make detailed settings for the Wireless. Advanced Setup includes items that are not available from the Basic Setup page, such as Beacon Interval, Control Tx Rates and Basic Data Rates.

### 3.2.3 Security

#### Wireless Security/Encryption Settings

**Wireless Security/Encryption Settings**

Setup the wireless security and encryption to prevent from unauthorized access and monitoring.

Select SSID

SSID choice MT-Link

"MT-Link"

Security Mode Disable

Apply

Disable  
OPEN  
SHARED  
WEPAUTO  
WPA  
WPA-PSK  
WPA2  
WPA2-PSK  
WPAPSKWPA2PSK  
WPA1WPA2  
802.1X

Setup the wireless security and encryption to prevent from unauthorized access and monitoring.

Disable: direct connection without authentication.

Open: a handshake method of WEP encryption which encrypts through the WEP key.

SHARED: another handshake method of WEP encryption which also encrypts through the WEP key and its encryption type is the same as that of the Open Mode.

WEPAUTO: it can automatically select Open Mode or Shared Mode and its encryption type is the same as the first two.

WPA-KEY: (WPA Personal) Wi-Fi Protected Access with the pre-shared key (WPA is a solution to improve the safety of interoperable WLAN based on the standard, which could greatly enhance data protection and access control level of the wireless LAN system.).

WPA2-KEY: (WPA2 Personal) WPA2 with the pre-shared key, which can provide better safety than WEP or WPA

WPA: WPA that is authenticated by RADIUS server.



WPA2: WPA2 that is authenticated by RADIUS server.

When using OPEN, SHARED, WEPAUTO authentication, it is required to set the key: this router can be filled in 4 at most (ASCII or 16 hexadecimal with a length of 10-26) keys. Users can select one key as the current valid key (default key) from four groups of the pre-set keys.

**When using WPA-PSK, WPA2-PSK or WPAPSKWPA2PSK authentication, it is required to fill the information as follows:**

WPA Algorithms: users can select AES (Advanced Encryption Standard) mode, TKIP (Time Key Integrity Protocol) mode or a mixed-mode of the first two.

Access Password: the password used by WPA (8-63 characters in ASCII code)

Interval of the Private Key Update: to generate a valid date for the key that you set.

**When using WPA, WPA2 or WPAWPA2 authentication, it is required to fill the information in RADIUS server as follows:**

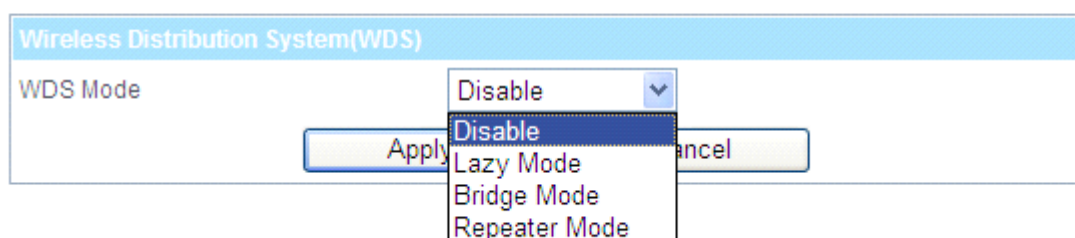
IP (IP address of RADIUS), port (monitoring port of RADIUS) and the shared key (the authentication key of RADIUS server)

### **3.2.4 WDS**

Wireless Distribution System uses wireless media to communicate with other AP, like the Ethernet does. To do this, you must set these AP in the same channel and set MAC address of other AP which you want to communicate with in the table and then enable the WDS

#### **Wireless Distribution System**

Wireless Distribution System Settings



**Wireless Distribution System (WDS) is used to expand coverage range of the existing wireless network. The router supports three modes: Lazy, Bridge and Repeater.**

Lazy Mode: in Lazy Mode, users do not need to fill BSSID of the other side. WDS connection of the AP is as passive connection and it is only required the other side to fill BSSID address of this AP. The effect is the same as that of Bridge Mode

Bridge Mode: in Bridge Mode, users are required to fill BSSID of AP of the other side. SSID of local AP is shielded, which is only as an extension form of SSID of Repeater Mode.

Repeater Mode: in Relay Mode, users are also required to fill BSSID of AP that needs to connect. The local AP is as the core while other AP is as an extension form of repeater.

Encryption Type: support three encryption types: WEP, TKIP and AES

Encryption Key: the encryption key between the input wireless devices

AP MAC Address: please enter the MAC address of wireless devices of the opposite side

### 3.2.5 WPS

You could setup security easily by choosing PIN or PBC method to do Wi-Fi Protected Setup.

#### Wi-Fi Protected Setup

You could setup security easily by choosing PIN or PBC method to do Wi-Fi Protected Setup.

WPS Config	
WPS:	<input checked="" type="button" value="Enable"/>
<input type="button" value="Apply"/>	

WPS Progress	
WPS mode	<input checked="" type="radio"/> PIN <input type="radio"/> PBC
PIN	<input type="text"/>
<input type="button" value="Apply"/>	

WPS Status	
WSC: Idle	
<div></div>	

Wi-Fi Protected Setup: is used to disable or enable the WPS function

Wi-Fi Protected Setup Mode: support two types of simple WPS settings: PBC (Push-Button Configuration) and the PIN code

Personal Identification Number (PIN): fill the personal identification number in the input box and click 'YES'. At the same time, use the same

PIN code to connect in the client ports (users could obtain personal identification number by clicking the 'Generate' button)

## WPS Status

The current state of Wi-Fi Protected setup: Idle means an idle status. Start WSC process means the process is activated and wait to connect.

Whether WPS would go into effect: 'YES' means going into effect while the others means not.

### 4.2.3 Station List

You could monitor stations which associated to this AP here.

#### Station List

You could monitor stations which associated to this AP here.

Wireless Network							
MAC Address	Aid	PSM	MimoPS	MCS	BW	SGI	STBC

## 3.3 Firewall

### 3.3.1 MAC/IP/Port Filtering

You may setup firewall rules to protect your network from virus, worm and malicious activity on the Internet.

## MAC/IP/Port Filtering Settings

You may setup firewall rules to protect your network from virus, worm and malicious activity on the Internet.

**Basic Settings**

MAC/IP/Port Filtering Disable ▾

Default Policy -- The packet that don't match with any rules would be: Accepted ▾

Apply Reset

**MAC/IP/Port Filter Settings**

MAC address

Dest IP Address

Source IP Address

Protocol

None ▾

Dest Port Range

-

Source Port Range

-

All Rights Reserved

### Basic Settings

Mac/IP/Port Filtering: select activating means enabling the filter function. Select disabling means disabling the filter function.

### MAC/IP/Port Filter Settings

MAC Address: the physical address of the matched data packets

Destination Address: destination IP address of the data packets

Source Address: IP address of data packet sender

Protocol: Protocol type of data packets

Destination Port Range: the data packets with their destination ports within the range will be matched

Source port range: the data packets with their source port within the range will be matched

Action Implementation: the data packets that satisfy all above characteristics will be received or discarded

Note: the remark contents of this rule added by users

### **3.3.2 Port Forwarding**

You may setup Virtual Servers to provide services on Internet.

#### **Virtual Server Settings**

You may setup Virtual Servers to provide services on Internet.

Virtual Server Settings

Virtual Server Settings

Disable ▾

IP Address

Port Range

Protocol

TCP&UDP ▾

Comment

Apply

Reset

Current Virtual Servers in system:

No.	IP Address	Port Range	Protocol	Comment
-----	------------	------------	----------	---------

Delete Selected

Reset

Server like a web server or mail server on the private local network behind your Gateway's NAT firewall.

**IP Address:** The IP Address of the PC running the service application

**Port Range -** The numbers of External Ports. You can type a service port or a range of service ports (the format is XXX – YYY, XXX is Start port, YYY is End port).

**Protocol -** The protocol used for this application, either **TCP**, **UDP**, or **TCP&UDP**.

Current Port Forward Table: port forward services already list.

### **3.3.3 DMZ**

The DMZ host feature allows one local host to be exposed to the Internet for a special-purpose service such as Internet gaming or videoconferencing. DMZ host forwards all the ports at the same time. Any PC whose port is being forwarded must have its DHCP client function disabled and should have a new static IP Address assigned to it because its IP Address may change when using the DHCP function.

**DMZ Settings:** Select **Enable**, DMZ can be edit..

**DMZ Host IP Address:** input IP Address. for example 192.168.2.34.

Click **Apply**, complete set DMZ.

## DMZ Settings

You may setup a De-militarized Zone(DMZ) to separate internal network and Internet.

DMZ Settings

DMZ Settings

DMZ IP Address

Disable

Apply

Reset

### **3.3.4 System Security**

You may configure the system firewall to protect AP/Router itself from attacking.

Remote management (via WAN)

Ping form WAN Filter

SPI Firewall

Deny

Disable

Disable

Apply

Reset

### **3.3.5 Content Filtering**

You can setup Content Filter to restrict the improper content access.

#### Webs URL Filter Settings

You can setup Content Filter to restrict the improper content access.

Current Webs URL Filters:

No

URL

Delete

Reset

Add a URL filter:

URL:

Add

Reset

**Add a URL filter:** URL filter is used to deny LAN users from accessing the internet. Block those URLs which contain keywords listed below. Select it,,you can edit URL, For example: xxx.com Click apply changes.

## **3.4 Administration**

### **3.4.1 Select Language**

#### **Language Settings/语言**

You may configure Language settings here.

Set the system language	
Select Language/语言	English ▼
<input type="button" value="Apply"/>	<input type="button" value="Cancel"/>

You may configure Language settings here.

### **3.4.2 Administrator Settings**

#### **Administrator Settings**

You may configure administrator account and password settings here.

Set the administrator account and password	
Administrator Settings	<input type="text" value="admin"/>
Password	<input type="password" value="•••••"/>
<input type="button" value="Apply"/>	<input type="button" value="Cancel"/>

You may configure administrator account and password settings here.

### **3.4.3 NTP**

You may configure NTP settings here.

## NTP Settings

You may configure NTP settings here.

Set the system time	
Current Time	Sat Jan 1 00:08:46 UTC 2000 <input type="button" value="Sync with host"/>
Time Zone:	(GMT+06:00) Bangladesh, Russia <input type="button" value="v"/>
	<input type="text"/>
NTP Server	ex: time.nist.gov ntp0.broad.mit.edu time.stdtime.gov.tw
NTP synchronization(hours)	<input type="text"/>
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>	

**Current time:** type the date and time.

**Time Zone:** Select your local time zone from this pull down list.

**NTP Server:** Select it; you can get the time from NTP

## 3.4.4 DDNS

### DDNS Settings

You may configure DNS settings here.

DDNS Service	
Dynamic DNS Provider	None <input type="button" value="v"/>
Account	<input type="text"/>
Password	<input type="text"/>
DDNS	<input type="text"/>
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>	

Dynamic DNS is a service, that provides you with a valid, unchanging, internet domain name (an URL) to go with that (possibly ever changing) IP-address. DDNS lets you assign a fixed host and domain name to a dynamic Internet IP Address. It is useful when you are hosting your own website, FTP server, or other server behind the router. Before using this feature, you need to sign up for DDNS service providers such as [www.oray.net](http://www.oray.net). The Dynamic DNS client service provider will give you a password or key.

To set up for DDNS, follow these instructions:



1. Type your **Dynamic DNS Provider**.
2. Type the Account for your DDNS account.
3. Type the **Password** for your DDNS account.
4. DDNS - the domain names are displayed here. Click **Apply Changes** to logout the DDNS service.

### **3.4.5 Upgrade Firmware**

This page allows you upgrade the Access Point firmware to new version. Please note, do not power off the device during the upload because it may crash the system

#### **Upgrade Firmware**

Upgrade the firmware to obtain new functionality. It takes about 3 minute to upload upgrade flash and be patient please. Caution! A corrupted image will hang up the system.

Update Firmware	
Location:	<input type="text"/> 浏览...
<input type="button" value="Apply"/>	

Upgrade the firmware to obtain new function. It takes about 3 minutes to upload upgrade flash and be patient please. Caution! A corrupted image will hang up the system.

### **3.4.6 Settings Management**

You might save system settings by exporting them to a configuration file, restore them by importing the file, or reset them to factory default.

#### **Settings Management**

You might save system settings by exporting them to a configuration file, restore them by importing the file, or reset them to factory default.

Settings file location	
Export Settings	<input type="button" value="Export"/>

Export Button	
Import Settings	<input type="text"/> 浏览...
<input type="button" value="Import"/>	<input type="button" value="Cancel"/>

Load Default Button	
Load Default Button	<input type="button" value="Load Default"/>

## Appendix 1 IE browser setup

1. Open the IE browser menu and select Tools → Internet Options ..., Figure 1

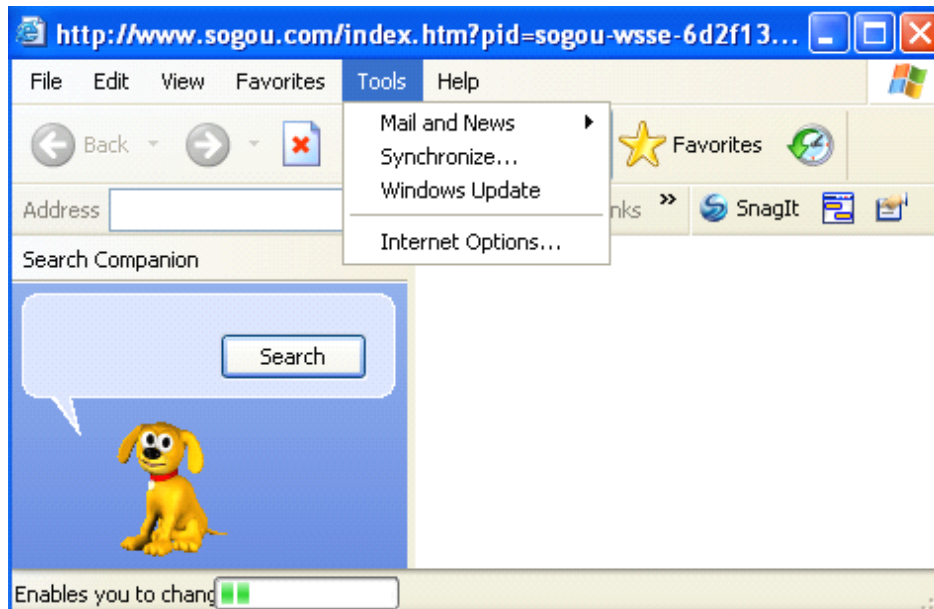


Figure 1

2. Interface in the Internet Options, select the link to the "dial-up and Virtual Private Network Settings" in the settings to delete all content (under the map of the content is empty), in Figure 2.

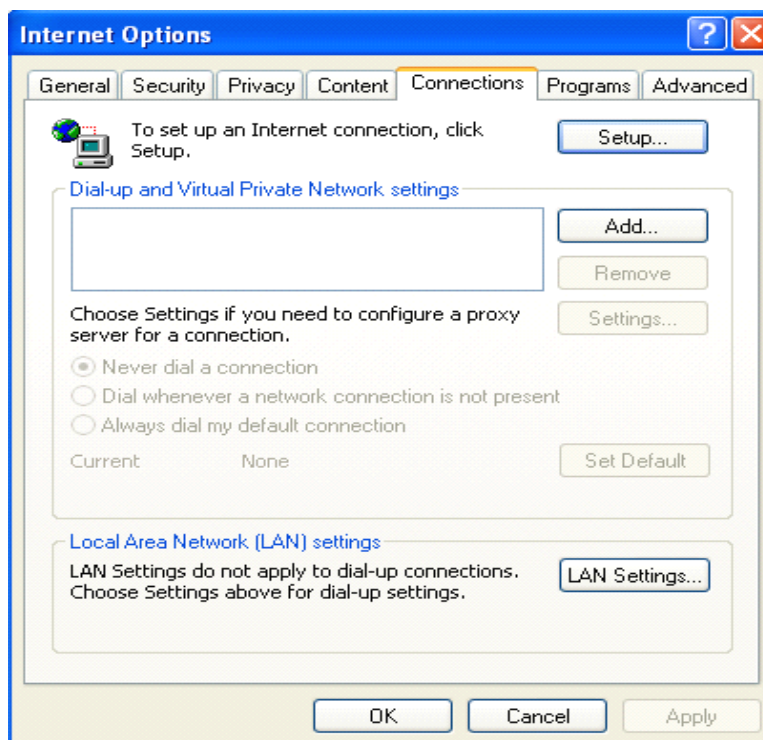


Figure 2.

3. Click on LAN Settings ... button, and in accordance with the interface shown in Figure 3 configuration. Then click OK button to return.

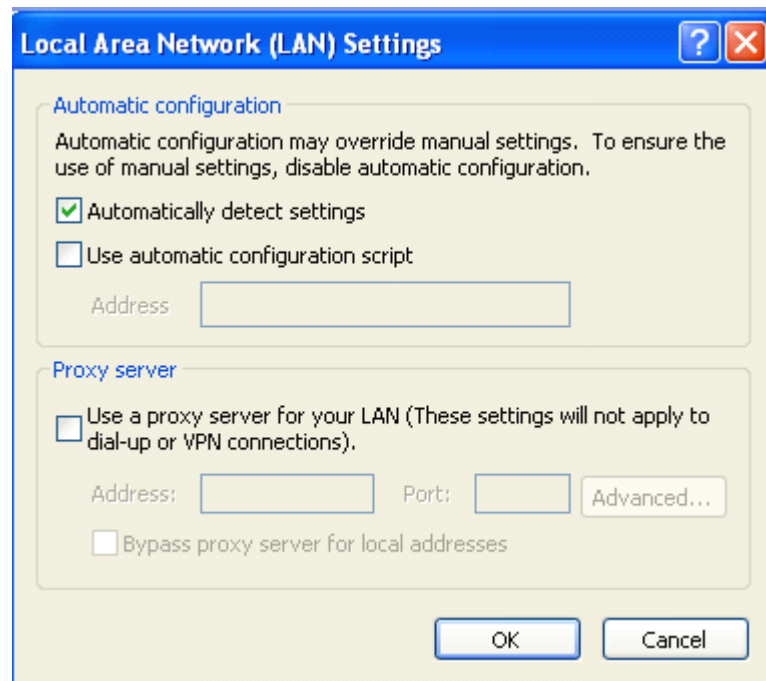


Figure 3

4. Back to IE browser interface, select the menu file to the drop-down menu in the work of the abolition of the off-line (click the ✓ will be removed in front), if that is not enabled, you do not set up. Figure 4.

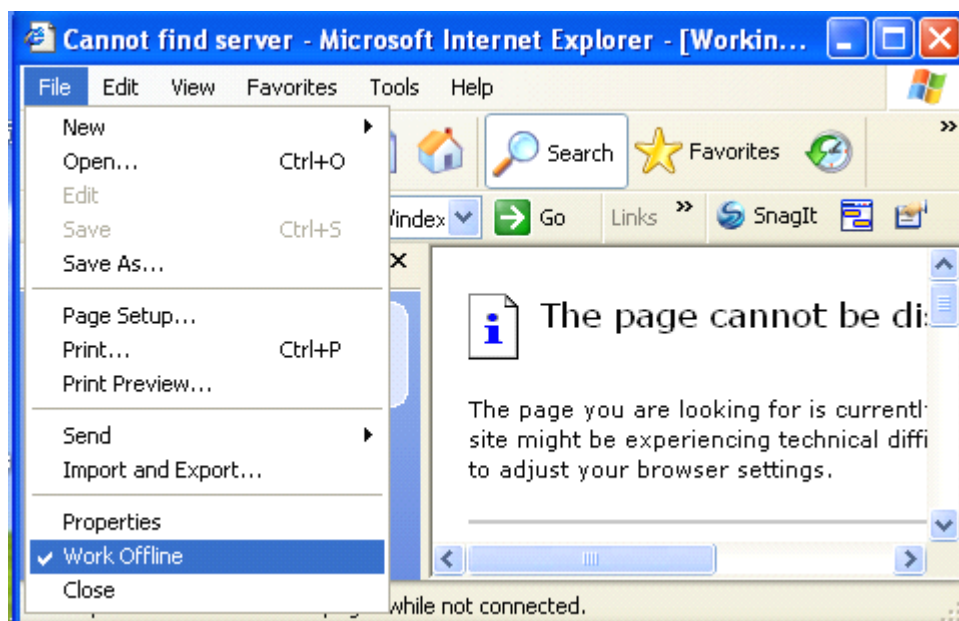


Figure 4

## Appendix 2

### 1) USB Modem

HSPA / WCDMA	Vodafone K3565-Z	
	Vodafone K3715	
	Vodafone K3765	
	Vodafone K3765-Z	
	Vodafone K4505	7/6/2010
	Huawei E122	5/8/2010
	Huawei E156	
	Huawei E160	
	Huawei E160E	
	Huawei E169	
	Huawei E169G	
	Huawei E172	
	Huawei E176G	
	Huawei E180	
	Huawei E220	
	Huawei E226	
	Huawei E270	
	Huawei E272	
	Huawei E630	
	Huawei E870	
	Huawei E1552	
	Huawei E1750	
	Huawei E1752	3/22/2010
	Huawei ET128-2	7/6/2010
	ZTE MF620	
	ZTE MF622	
	ZTE MF626	
	ZTE MF628	
	ZTE MF628+	
	ZTE MF636	
	ZTE MF637U	
	ZTE MF638	
	Option GI0225	
	Option ICON 7.2	
	Option ICON 505	3/22/2010
	NOKIA RD-10	
	Sony Ericsson MD300	
	Novatel Wireless MC930D	
	Novatel Wireless MC950D	
	Novatel Wireless XU950D	
	Novatel Wireless MC990D	
	Novatel Wireless U727	

	Sierra Wireless USB 306	
	Sierra Wireless USB 307	
	SIMCOM SIM5250	
	TCL / Alcatel One Touch X200	
CDMA2000 1xEV-DO	Huawei EC169	
	Huawei EC186	
	Huawei EC220	
	Huawei EC226	
	Huawei EC1260	4/20/2010
	Huawei EC1261	
	ZTE AC2710	
	ZTE AC5710	
	ZTE AC8710	
	ZTE AC2726	
	ZTE AC2736	
	ZTE AC2746	
	ZTE AC560	
	ZTE AC580	
	ZTE AC581	
	TCL / Alcatel One Touch X150	
	D-Link DWM-162-U5	
	Vtion E1916	
TD-SCDMA	Huawei ET128	
	ZTE MU350	
	ZTE MU351	
	Datang / Sierra Wireless AirCard901	

## 2) Mobile Phone

HSPA / WCDMA	NOKIA N95
	NOKIA N96
	Most NOKIA mobile phones
	Most Smart Phones