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1 Getting to know your xDSL modem router

1.1 Welcome!

Thank you for purchasing an ASUS DSL-AC55U Wireless VDSL/ADSL Modem Router!

The ultra-thin and stylish DSL-AC55U features 2.4GHz and 5GHz dual bands for an unmatched concurrent wireless HD streaming; operates as a router on an ADSL or VDSL line; SMB server, UPnP AV server, and FTP server for 24/7 file sharing; and capability to handle 300,000 sessions. These features make this xDSL modem router a good choice for complete home networking.

1.2 Package contents

- VDSL/ADSL Wireless Modem Router
- Network cable (RJ-45 cable)
- Support CD (Manual, utility software)
- Splitter (varies with region)
- Power adapter
- Quick Start Guide
- DSL/phone cable (RJ-11 cable)
- Warranty card

NOTES:

- If any of the items are damaged or missing, contact ASUS for technical inquiries and support. Refer to the ASUS Support Hotline list at the back of this user manual.
- Keep the original packaging material in case you would need future warranty services such as repair or replacement.
1.3 Your xDSL modem router

1. **Power LED**
   - **Off**: No power.
   - **On**: Device is ready.
   - **Flashing slow**: Rescue mode
   - **Flashing quick**: WPS is processing.

2. **DSL LED**
   - **Off**: No DSL link or unable to establish DSL link.
   - **On**: DSL link is established.
   - **Flashing**: DSL is attempting to connect to a DSLAM.

3. **Ethernet WAN LED**
   - **Off**: No power or no physical connection.
   - **On**: Has physical connection to a wide area network (WAN).

4. **Internet LED**
   - **Off**: No power or no Internet connection.
   - **On**: Internet connection is established.

5. **LAN 1~4 LED**
   - **Off**: No power or no physical connection.
   - **On**: Has physical connection to an Ethernet network.

6. **2.4GHz LED**
   - **Off**: No 2.4GHz signal.
   - **On**: Wireless system is ready.
   - **Flashing**: Transmitting or receiving data via wireless connection.

7. **5GHz LED**
   - **Off**: No 5GHz signal.
   - **On**: Wireless system is ready.
   - **Flashing**: Transmitting or receiving data via wireless connection.
NOTES:

- Use only the adapter that came with your package. Using other adapters may damage the device.

- **Specifications:**
  - Power consumption in off mode: 0.21W
  - Power consumption in network standby mode: 4.21W
  - The average power consumption is determined at room temperatures with the following load:

<table>
<thead>
<tr>
<th>DC Power adapter</th>
<th>DC Output: +12V with max. 2A current</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>0~40°C</td>
</tr>
<tr>
<td></td>
<td>Storage</td>
</tr>
<tr>
<td></td>
<td>0~70°C</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>50~90%</td>
</tr>
<tr>
<td></td>
<td>Storage</td>
</tr>
<tr>
<td></td>
<td>20~90%</td>
</tr>
</tbody>
</table>
1.4 Positioning your xDSL modem router

For the best wireless signal transmission between the xDSL modem router and the network devices connected to it, ensure that you:

- Place the xDSL modem router in a centralized area for a maximum wireless coverage for the network devices.
- Keep the device away from metal obstructions and away from direct sunlight.
- To prevent signal interference or loss, keep the device away from 802.11g or 20MHz only Wi-Fi devices, 2.4GHz computer peripherals, Bluetooth devices, cordless phones, transformers, heavy-duty motors, fluorescent lights, microwave ovens, refrigerators, and other industrial equipment.
- Always update to the latest firmware. Visit the ASUS website at http://www.asus.com to get the latest firmware updates.
- To ensure the best wireless signal, orient the four detachable antennas as shown in the drawing below.
1.5 Setup Requirements

To set up your wireless network, you need a computer that meets the following system requirements:

- Ethernet RJ-45 (LAN) port (10Base-T/100Base-TX/1000Base-TX)
- IEEE 802.11a/b/g/n/ac wireless capability
- An installed TCP/IP service
- Web browser such as Internet Explorer, Firefox, Safari, or Google Chrome

NOTES:

- If your computer does not have built-in wireless capabilities, you may install an IEEE 802.11a/b/g/n/ac WLAN adapter to your computer to connect to the network.

- With its dual band technology, your ADSL/VDSL router supports 2.4GHz and 5GHz wireless signals simultaneously. This allows you to browse the Internet or access e-mail messages using the 2.4GHz band while streaming high-definition audio/video files such as movies or music using the 5GHz band.

- If you are using only one computer with a single band IEEE 802.11a/b/g/n/ac WLAN adapter, you will only be able to use the 2.4GHz band.

- If you are using only one computer with a dual band IEEE 802.11a/b/g/n/ac WLAN adapter, you will be able to use the 2.4GHz or 5GHz band.

- If you are using two computers with both IEEE 802.11a/b/g/n/ac WLAN adapters, you will be able to use both 2.4GHz and 5GHz bands simultaneously.

- The Ethernet RJ-45 cables that will be used to connect the network devices should not exceed 100 meters.
1.6 xDSL Modem Router Setup

IMPORTANT!

- Use a wired connection when setting up your xDSL modem router to avoid possible setup problems.

- Before setting up your ASUS xDSL modem router, do the following:
  - If you are replacing an existing xDSL modem router, disconnect it from your network.

1.6.1 Wired connection

NOTE: You can use either a straight-through cable or a crossover cable for wired connection.

To set up your xDSL modem router via wired connection:

1. Insert your xDSL modem router’s power adapter to the DC-IN port and plug it to a power outlet.

2. Connect one end of the RJ-11 cable to the DSL port of your xDSL modem router, and connect the other end to the DSL port of your splitter.

3. Using a network cable, connect your computer to your xDSL modem router’s LAN port.

IMPORTANT! After turning on your xDSL modem router, wait for about two to three minutes for it to boot up.
To set up your xDSL modem router via wireless connection:

1. Insert your xDSL modem router’s power adapter to the DC-IN port and plug it to a power outlet.

2. Connect one end of the RJ-11 cable to the DSL port of your xDSL modem router, and connect the other end to the DSL port of your splitter.

3. Install an IEEE 802.11a/b/g/n/ac WLAN adapter on your computer.

NOTES:

- For details on connecting to a wireless network, refer to the WLAN adapter’s user manual.

- To set up the security settings for your network, refer to the section Setting up the wireless security settings in Chapter 3 of this user manual.
2 Getting started

2.1 Logging into the Web GUI

Your ASUS Wireless xDSL Modem Router comes with an intuitive web graphical user interface (GUI) that allows you to easily configure its various features through a web browser such as Internet Explorer, Firefox, Safari, or Google Chrome.

NOTE: The features may vary with different firmware versions.

To log into the web GUI:

1. On your web browser, manually key in the xDSL modem router's default IP address: http://router.asus.com
2. On the login page, key in the default user name (admin) and password (admin).
3. You can now use the Web GUI to configure various settings of your ASUS XDSL modem router.

NOTE: If you are logging into the Web GUI for the first time, you will be directed to the Quick Internet Setup (QIS) page automatically.
2.2 Quick Internet Setup (QIS) Wizard with Auto-detection

The Quick Internet Setup (QIS) function guides you in quickly setting up your Internet connection.

**NOTE:** When setting the Internet connection for the first time, press the Reset button on your xDSL modem router to reset it to its factory default settings. For more details, refer to the section **Firmware Restoration** in Chapter 5 of this user manual.

To use QIS with auto-detection:

1. Log into the Web GUI. The QIS page launches automatically.

**NOTES:**

- By default, the login username and password for your xDSL modem router's Web GUI is **admin**. For details on changing your xDSL modem router's login username and password, refer to section **4.7.1 System**.

- The xDSL modem router's login username and password allows you to log into your xDSL modem router's Web GUI to configure your xDSL modem router's settings. The network name (SSID) and security key allows Wi-Fi devices to log in and connect to your wireless network.
2. Your xDSL modem router automatically configures the DSL Annex mode, Internet connection type, and VPI/VCI value and encapsulation modes. Key in the Internet account information from your Internet Service Provider (ISP).

**IMPORTANT!** Obtain the necessary information from your ISP to configure the Internet connection.

**NOTES:**

- The auto-detection of your ISP connection type takes place when you configure your xDSL modem router for the first time or when your device is reset to its default settings.
- By default, the QIS Wizard is for DSL setup. If you want to configure DSL-AC55U as a wireless router, refer to the section **Internet Connection** in Chapter 4 of this user manual.
3. If QIS failed to detect your Internet connection type, follow the steps below to manually configure your connection settings:
   a) Select the Annex mode that your DSL service uses.

NOTES:

- Annex A or Annex B mode has multiple modes: Annex A/I/J/L/M or Annex B/J. If your ISP DSLAM offers both Annex A and Annex M mode, QIS automatically set the Annex mode to Annex A/I/J/L/M mode and completes the DSL line setting.
- If you want to configure your ASUS xDSL modem router to a specific Annex mode, refer to the section **DSL Setting** in Chapter 4 of this user guide.
b) Select your **Country** and **Internet Service Provider (ISP)**.

c) Assign the wireless network name (SSID) and security key for your wireless connection. Click **Apply** when done.
d) A summary page appears to show the current settings for your network. Click **Next** to save your network settings and go to the Network Map page.

![Completed Network Configuration Summary](image)

### 2.3 Connecting to your wireless network

After setting up your xDSL modem router via QIS, you can connect your computer or other smart devices to your wireless network.

**To connect to your network:**

1. On your computer, click the network icon in the notification area to display the available wireless networks.
2. Select the wireless network that you want to connect to, then click **Connect**.
3. You may need to key in the network security key for a secured wireless network, then click **OK**.
4. Wait while your computer establishes connection to the wireless network successfully. The connection status is displayed and the network icon displays the connected status.
NOTES:

- Refer to the next chapters for more details on configuring your wireless network’s settings.
- Refer to your device’s user manual for more details on connecting it to your wireless network.

3 Configuring the General settings

3.1 Using the Network Map

Network Map allows you to configure your network’s security settings, manage your network clients, and monitor your USB device.
3.1.1 Setting up the wireless security settings

To protect your wireless network from unauthorized access, you need to configure its security settings.

**To set up the wireless security settings:**

1. From the navigation panel, go to **General > Network Map**.
2. On the Network Map screen and under **System status**, you can configure the wireless security settings such as SSID, security level, and encryption settings.

**NOTE:** You can set up different wireless security settings for 2.4GHz and 5GHz bands.

### 2.4GHz security settings

![System Status](image)

- **Wireless name (SSID)**
- **Authentication Method**
- **WEP Encryption**

3. On the **Wireless name (SSID)** field, key in a unique name for your wireless network.

4. From the **Authentication Method** dropdown list, select the encryption method for your wireless network.

### 5GHz security settings

![System Status](image)

- **Wireless name (SSID)**
- **Authentication Method**
- **WEP Encryption**

2.4GHz security settings  5GHz security settings
IMPORTANT! The IEEE 802.11n/ac standard prohibits using High Throughput with WEP or WPA-TKIP as the unicast cipher. If you use these encryption methods, your data rate will drop to IEEE 802.11g 54Mbps connection.

5. Key in your **WPA-PSK key** (security passkey).
6. Click **Apply** when done.

### 3.1.2 Managing your network clients

To manage your network clients:

1. From the navigation panel, go to **General > Network Map** tab.
2. On the Network Map screen, select the **Client Status** icon to display your network client’s information.
3.1.3 Monitoring your USB device

ASUS DSL-AC55U provides two USB 2.0 ports for connecting USB devices or USB printer to allow you to share files and printer with clients in your network.

NOTES:

- **USB External HDD/Flash disk:**
  - Your xDSL modem router works with most USB HDDs/Flash disks up to 3TB and supports read-write access for FAT16, FAT32, EXT2, EXT3, and NTFS.
  - To safely remove the USB disk, go to the Network Map page’s upper right corner, click the USB icon and click Eject USB disk.
  - For the list of file system and hard disk partitions that your xDSL modem router supports, visit [http://event.asus.com/networks/disksupport](http://event.asus.com/networks/disksupport)
NOTES:

- **Network Printer Server:**
  
  - Network printer utility is supported on Windows® XP/Vista/7/8/8.1. To install the utility on Mac OS, please go to USB Application > Network Printer Server, click Download Now!, then select Use LPR protocol for sharing.
  
  - For the list of printers that your xDSL modem router supports, visit [http://event.asus.com/networks/printersupport](http://event.asus.com/networks/printersupport)

**IMPORTANT!** You first need to create a share account and its permission /access rights to allow other network clients to access the USB device via an FTP site/third-party FTP client utility, Servers Center, Samba, or AiCloud. For more details, refer to the section 3.5 Using the USB Application and 3.6 Using AiCloud in this user manual.

**To monitor your USB device:**

1. From the navigation panel, go to General > Network Map.
2. On the Network Map screen, select the USB Disk Status icon to display your USB device’s information.
3. On the AiDisk Wizard field, click GO to set up an FTP server for Internet file sharing.

**NOTES:**

- For more details, refer to the section 3.5.2 Using Servers Center in this user manual.

- The xDSL modem router works with most USB HDDs/Flash disks (up to 3TB size) and supports read-write access for FAT16, FAT32, EXT2, EXT3, and NTFS.
Safely removing the USB disk

IMPORTANT: Incorrect removal of the USB disk may cause data corruption.

To safely remove the USB disk:
1. From the navigation panel, go to General > Network Map.
2. In the upper right corner, click $\text{Eject USB disk}$. When the USB disk is ejected successfully, the USB status shows Unmounted.
3.2 Creating a Guest Network

The Guest Network provides temporary visitors with Internet connectivity via access to separate SSIDs or networks without providing access to your private network.

**NOTE:** ASUS DSL-AC55U supports up to four SSIDs (including the main SSID).

**To create a guest network:**

1. From the navigation panel, go to General > Guest Network.
2. On the Guest Network screen, select 2.4GHz or 5GHz frequency band for the guest network that you want to create.
3. Click **Enable**.
4. To configure additional options, click the network name (SSID) that you want to modify.

5. Assign a wireless name for your temporary network on the **Network Name (SSID)** field.

6. Select an **Authentication Method**.

7. Specify the **Access time** or choose **Limitless**.

8. Select **Disable** or **Enable** on the **Access Intranet** item.

9. When done, click **Apply**.
3.3 Using the Traffic Manager

3.3.1 Managing QoS (Quality of Service) Bandwidth

Quality of Service (QoS) allows you to set the bandwidth priority and manage network traffic.

To set up bandwidth priority:
1. From the navigation panel, go to General > Traffic Manager > QoS tab.
2. Click ON to enable QoS. Fill in the upload and download bandwidth fields.

**NOTE:** Get the bandwidth information from your ISP.

3. Click Save.

**NOTE:** The User Specify Rule List is for advanced settings. If you want to prioritize specific network applications and network services, select **User-defined QoS rules** or **User-defined Priority** from the drop-down list on the upper-right corner.
4. On the **user-defined QoS rules** page, there are four default online service types – web surf, HTTPS and file transfers. Select your preferred service, fill in the **Source IP or MAC, Destination Port, Protocol, Transferred** and **Priority**, then click **Apply**. The information will be configured in the QoS rules screen.

**NOTES**

- To fill in the source IP or MAC, you can:
  
  a) Enter a specific IP address, such as "192.168.122.1".
  
  b) Enter IP addresses within one subnet or within the same IP pool, such as “192.168.123.*”, or “192.168.*.*”
  
  c) Enter all IP addresses as “*.*.*.*” or leave the field blank.
  
  d) The format for the MAC address is six groups of two hexadecimal digits, separated by colons (:) in transmission order (e.g. 12:34:56:aa:bc:ef)

**NOTES:**

- For source or destination port range, you can either:
  
  a) Enter a specific port, such as “95”.
  
  b) Enter ports within a range, such as “103:315”, “>100”, or “<65535”.

- The **Transferred** column contains information about the upstream and downstream traffic (outgoing and incoming network traffic) for one section. In this column, you can set the network traffic limit (in KB) for a specific service to generate specific priorities for the service assigned to a specific port. For example, if two network clients, PC 1 and PC 2, are both accessing the Internet (set at port 80), but PC 1 exceeds the network traffic limit due to some downloading tasks, PC 1 will have a lower priority. If you do not want to set the traffic limit, leave it blank.
5. On the **User-defined Priority** page, you can prioritize the network applications or devices into five levels from the **user-defined QoS rules**’ dropdown list. Based on priority level, you can use the following methods to send data packets:

- Change the order of upstream network packets that are sent to the Internet.
- Under **Upload Bandwidth** table, set **Minimum Reserved Bandwidth** and **Maximum Bandwidth Limit** for multiple network applications with different priority levels. The percentages indicate the upload bandwidth rates that are available for specified network applications.

**NOTES:**

- Low-priority packets are disregarded to ensure the transmission of high-priority packets.
- Under **Download Bandwidth** table, set **Maximum Bandwidth Limit** for multiple network applications in corresponding order. The higher priority upstream packet will cause the higher priority downstream packet.
- If there are no packets being sent from high-priority applications, the full transmission rate of the Internet connection is available for low-priority packets.

6. Set the highest priority packet. To ensure a smooth online gaming experience, you can set ACK, SYN, and ICMP as the highest priority packet.

**NOTE:** Ensure to enable QoS first and set up the upload and download rate limits.
3.3.2 Monitoring Traffic

The traffic monitor function allows you to access the bandwidth usage and speed of your Internet, wired, and wireless networks. It allows you to monitor network traffic even on a daily basis.

NOTE: Packets from the Internet are evenly transmitted to the wired and wireless devices.
3.3.3 Spectrum

DSL Spectrum provide information on the connection quality. The graph to signal-to-noise ratio shows the classic SNR (Signal-to-Noise Ratio), which can be useful in identifying the stability of the DSL connection. Transmission/Reception graph shows how many bits per carrier are transmitted/received.
3.4 Setting up Parental Control

Parental Control allows you to control the Internet access time. Users can set the time limit for a client’s network usage.

To use the parental control function:

1. From the navigation panel, go to General > Parental control.
2. Click Enable to activate Parental Control.
3. Select the client whose network usage you want to control. You may also key in the client’s MAC address in the Client MAC Address column.

NOTE: Ensure that the client name does not contain special characters or spaces as this may cause the router to function abnormally.

4. Click to add or delete the client’s profile.
3.5 Using the USB Application

The USB Applications function provides AiDisk, Servers Center, Media Server, Network Printer Server, and Download Master submenus.

**IMPORTANT!** To use the server functions, you need to insert a USB storage device, such as a USB hard disk or USB flash drive, in the USB 2.0 port on the rear panel of your xDSL modem router. Ensure that the USB storage device is formatted and partitioned properly. Refer to the ASUS website at [http://event.asus.com/2009/networks/disksupport/](http://event.asus.com/2009/networks/disksupport/) for the file system support table.

3.5.1 Using AiDisk

AiDisk allows you to share files stored on a connected USB device through the Internet. AiDisk also assists you with setting up ASUS DDNS and an FTP server.

**To use AiDisk:**

1. From the navigation panel, go to **General > USB application**, then click the **AiDisk** icon.
2. From the Welcome to AiDisk wizard screen, click **Go**.
3. Select the access rights that you want to assign to the clients accessing your shared data.

4. Create your domain name via the ASUS DDNS services, read the Terms of Service and then select **I will use the service and accept the Terms of service** and key in your domain name. When done, click **Next**.

You can also select **Skip ASUS DDNS settings** then click **Next** to skip the DDNS setting.

5. Click **Finish** to complete the setting.

6. To access the FTP site that you created, launch a web browser or a third-party FTP client utility and key in the ftp link (**ftp://<domain name>.asuscomm.com**) you have previously created.
3.5.2 Using Servers Center

Servers Center allows you to share the media files from the USB disk via a Media Server directory, Samba share service, or FTP share service. You can also configure other settings for the USB disk in the Servers Center.

Using Media Server

Your xDSL modem router allows DLNA-supported devices to access multimedia files from the USB disk connected to your xDSL modem router.

NOTE: Before using the DLNA Media Server function, connect your device to the DSL-AC55U’s network.
To launch the Media Server setting page, go to **General > USB application > Servers Center > Media Servers** tab. Refer to the following for the descriptions of the fields:

- **Enable DLNA Media Server**: Select ON/OFF to enable/disable the DLNA Media Server.
- **Enable iTunes Server**: Select ON/OFF to enable/disable the iTunes Server.
- **Media server directory**: Select your media server directory and click **Apply** to share files from the USB disk to media devices in the network.
- **Media Server Status**: Displays the status of the media server.

**Using Network Place (Samba) Share service**

Network Place (Samba) Share allows you to set up the accounts and permissions for the Samba service.

To use Samba share:

1. From the navigation panel, go to **General > USB application > Servers Center**.

**NOTE**: Network Place (Samba) Share is enabled by default.
2. Follow the steps below to add, delete, or modify an account.

**To create a new account:**

a) Click to add new account.

b) In the **Account** and **Password** fields, key in the name and password of your network client. Retype the password to confirm. Click **Add** to add the account to the list.

![Add new account](image)

**To delete an existing account:**

a) Select the account that you want to delete.

b) Click .

c) When prompted, click **Delete** to confirm the account deletion.

**To add a folder:**

a) Click .

b) Enter the folder name, and click **Add**. The folder that you created will be added to the folder list.

![Add new folder in sda](image)
3. From the list of folders, select the type of access permission that you want to assign for specific folders:
   - **R/W**: Select this option to assign read/write access.
   - **R**: Select this option to assign read-only access.
   - **No**: Select this option if you do not want to share a specific file folder.

4. Click **Apply** to apply the changes.

**Using the FTP Share service**

FTP share enables an FTP server to share files from USB disk to other devices via your local area network or via the Internet.

**IMPORTANT:**

- Ensure that you safely remove the USB disk. Incorrect removal of the USB disk may cause data corruption.
- To safely remove the USB disk, refer to the section **Safely removing the USB disk** under **3.1.3 Monitoring your USB device**.
To use FTP Share service:

**NOTE:** Ensure that you have set up your FTP server through AiDisk. For more details, refer to the section 3.5.1 Using AiDisk.

1. From the navigation panel, click **General > USB application > Servers Center > FTP Share** tab.

2. From the list of folders, select the type of access rights that you want to assign for specific folders:
   - **R/W**: Select to assign read/write access for a specific folder.
   - **W**: Select to assign write only access for a specific folder.
   - **R**: Select to assign read only access for a specific folder.
   - **No**: Select this option if you do not want to share a specific folder.

3. Click **Apply** to confirm the changes.

4. To access the FTP server, key in the ftp link `ftp://<hostname>.asuscomm.com` and your user name and password on a web browser or a third-party FTP utility.
3.6 Using AiCloud

AiCloud is a cloud service application that allows you to save, sync, share, and access your files.

To use AiCloud:

1. From Google Play Store or Apple Store, download and install the ASUS AiCloud app to your smart device.

2. Connect your smart device to your network. Follow the instructions to complete the AiCloud setup process.
3.6.1 Cloud Disk

To create a cloud disk:
1. Insert a USB storage device into the xDSL modem router.
2. Turn on Cloud Disk.
3. Go to https://www.asusnetwork.net and enter the router login account and password. For better user experience, we recommend that you use Google Chrome or Firefox.
4. You can now start accessing Cloud Disk files on devices connected to the network.

**NOTE:** When accessing the devices that are connected to the network, you need to enter the device's user name and password manually, which will not be saved by AiCloud for security reason.
3.6.2 Smart Access

The Smart Access function allows you to easily access your home network via your router’s domain name.

NOTES:

- You can create a domain name for your router with ASUS DDNS. For more details, refer to section 4.3.6 DDNS.

- By default, AiCloud provides a secure HTTPS connection. Key in https://[yourASUSDDNSname].asuscomm.com for a very secure Cloud Disk and Smart Access usage.
3.6.3 Smart Sync

To use Smart Sync:
1. Launch AiCloud, click **Smart Sync > Go**.
2. Select **ON** to enable Smart Sync.
3. Click **Add new account**.
4. Enter your ASUS WebStorage account password and select the directory that you want to sync with WebStorage.
5. Click **Apply**.
4 Configuring the Advanced Settings

4.1 Wireless

4.1.1 General

The General tab allows you to configure the basic wireless settings.

To configure the basic wireless settings:

1. From the navigation panel, go to Advanced Settings > Wireless > General tab.

2. Select 2.4GHz or 5GHz as the frequency band for your wireless network.

3. Assign a unique name containing up to 32 characters for your SSID (Service Set Identifier) or network name to identify your wireless network. Wi-Fi devices can identify and connect to the wireless network via your assigned SSID. The SSIDs on the information banner are updated once new SSIDs are saved to the settings.

NOTE: You can assign unique SSIDs for the 2.4 GHz and 5GHz frequency bands.
4. In the **Hide SSID** field, select **Yes** to prevent wireless devices from detecting your SSID. When this function is enabled, you would need to enter the SSID manually on the wireless device to access the wireless network.

5. Select any of these wireless mode options to determine the types of wireless devices that can connect to your xDSL modem router:

   - **Auto**: Select **Auto** to allow 802.11ac, 802.11n, 802.11g, and 802.11b devices to connect to the xDSL modem router.
   
   - **Legacy**: Select **Legacy** to allow 802.11b/g/n devices to connect to the xDSL modem router. Hardware that supports 802.11n natively, however, will only run at a maximum speed of 54Mbps.
   
   - **N only**: Select **N only** to maximize wireless N performance. This setting prevents 802.11g and 802.11b devices from connecting to the xDSL modem router.

6. Select the operating channel for your xDSL modem router. Select **Auto** to allow the xDSL modem router to automatically select the channel that has the least amount of interference.

7. Select any of these channel bandwidth to accommodate higher transmission speeds:
   
   - **40MHz**: Select this bandwidth to maximize the wireless throughput.
   
   - **20/40MHz**: This is the default bandwidth.
   
   - **20MHz**: Select this bandwidth if you encounter some issues with your wireless connection.

8. Select any of these authentication methods:

   - **Open System**: This option provides no security.
   
   - **WPA/WPA2 Personal/WPA Auto-Personal**: This option provides strong security. You can use either WPA (with TKIP) or WPA2 (with AES). If you select this option, you must use TKIP + AES encryption and enter the WPA passphrase (network key).
• **WPA/WPA2 Enterprise/WPA Auto-Enterprise**: This option provides very strong security. It is with integrated EAP server or an external RADIUS back-end authentication server.

**NOTE**: Your xDSL modem router supports the maximum transmission rate of 54Mbps when the **Wireless Mode** is set to **Auto** and **encryption method** is **WEP** or **TKIP**.

9. Select any of these WEP (Wired Equivalent Privacy) Encryption options for the data transmitted over your wireless network:
   - **Off**: Disables WEP encryption
   - **64-bit**: Enables weak WEP encryption
   - **128-bit**: Enables improved WEP encryption.

10. When done, click **Apply**.
4.1.2 WPS

WPS (Wi-Fi Protected Setup) is a wireless security standard that allows you to easily connect devices to a wireless network. You can configure the WPS function via the PIN code or WPS button.

**NOTE**: Ensure that the devices support WPS.

To enable WPS on your wireless network:

1. From the navigation panel, go to **Advanced Settings > Wireless > WPS** tab.
2. In the **Enable WPS** field, move the slider to **ON**.
3. WPS uses 2.4GHz by default. If you want to change the frequency to 5GHz, turn **OFF** the WPS function, click **Switch Frequency** in the **Current Frequency** field, and turn WPS **ON** again.

**NOTE**: WPS supports authentication using Open System, WPA-Personal, and WPA2-Personal. WPS does not support a wireless network that uses a Shared Key, WPA-Enterprise, and WPA2-Enterprise encryption method.
4. In the WPS Method field, select **PBC** or **PIN Code**. If you select **PBC**, go to step 5. If you select **PIN Code**, go to step 6.

5. To set up WPS using the router’s WPS button, follow these steps:
   a. Click **Start WPS** or press the WPS button found at the rear of the xDSL modem router.
   b. Press the WPS button on your wireless device. This is normally identified by the WPS logo.

   **NOTE:** Check your wireless device or its user manual for the location of the WPS button.

   c. The xDSL modem router will scan for any available WPS devices. If the xDSL modem router does not find any WPS devices, it will switch to standby mode.

6. To set up WPS using the Client’s PIN code, follow these steps:
   a. Locate the WPS PIN code on your wireless device’s user manual or on the device itself.
   b. Key in the Client PIN code on the text box.
   c. Click **Start WPS** to put your xDSL modem router into WPS survey mode. The router’s LED indicators quickly flash three times until the WPS setup is completed.
4.1.3 Bridge

Bridge or WDS (Wireless Distribution System) allows your ASUS Wireless xDSL Modem Router to connect to another wireless access point exclusively, preventing other wireless devices or stations to access your ASUS xDSL modem router. It can also be considered as a wireless repeater where your ASUS Wireless xDSL Modem Router communicates with another access point and other wireless devices.

To set up the wireless bridge:
1. From the navigation panel, go to Advanced Settings > Wireless > Bridge tab.
3. In the AP Mode field, select any of these options:
   - AP Only: Disables the Wireless Bridge function.
   - WDS Only: Enables the Wireless Bridge feature but prevents other wireless devices/stations from connecting to the router.
• **Hybrid**: Enables the Wireless Bridge feature and allows other wireless devices/stations to connect to the router.

**NOTE**: In Hybrid mode, wireless devices connected to the ASUS Wireless xDSL Modem Router will only receive half the connection speed of the Access Point.

4. In the **Connect to APs in list** field, select **Yes** if you want to connect to an Access Point listed in the Remote AP List.

5. On the Remote AP List, key in a MAC address and click the **Add** button to enter the MAC address of other available Access Points.

**NOTE**: Any Access Point added to the list should be on the same Control Channel as the ASUS xDSL modem router.

6. Click **Apply**.
4.1.4 Wireless MAC Filter

Wireless MAC filter provides control over packets transmitted to a specified MAC (Media Access Control) address on your wireless network.

To set up the Wireless MAC filter:
1. From the navigation panel, go to Advanced Settings > Wireless > Wireless MAC Filter tab.
2. Enable the Mac Filter Mode, then in the MAC Filter Mode dropdown list, select either Accept or Reject.
   • Select Accept to allow devices in the MAC filter list to access the wireless network.
   • Select Reject to prevent devices in the MAC filter list to access to the wireless network.
3. On the MAC filter list, click the Add button and key in the MAC address of the wireless device.
4. Click Apply.
4.1.5 RADIUS Setting

RADIUS (Remote Authentication Dial In User Service) Setting provides an extra layer of security when you choose WPA-Enterprise, WPA2-Enterprise, or Radius with 802.1x as your Authentication Mode.

To set up wireless RADIUS settings:

1. Ensure that the xDSL modem router’s authentication mode is set to WPA-Enterprise, WPA2-Enterprise, or Radius with 802.1x.

   **NOTE:** Please refer to section 4.1.1 General for configuring your xDSL modem router’s Authentication Mode.

2. From the navigation panel, go to Advanced Settings > Wireless > RADIUS Setting.

3. Select the frequency band.

4. In the Server IP Address field, key in your RADIUS server’s IP Address.

5. In the Connection Secret field, assign the password to access your RADIUS server.

6. Click Apply.
4.1.6 Professional

The Professional screen provides advanced configuration options.

**NOTE:** We recommend that you use the default values on this page.

In the **Professional Settings** screen, you can configure the following:

- **Band:** Select the frequency band that the professional settings will be applied to.
- **Enable Radio:** Select **Yes** to enable wireless networking. Select **No** to disable wireless networking.
- **Enable Wireless Scheduler:** You can set the time range when wireless networking is enabled during the week.
- **Date to Enable Radio:** You can specify which days of the week wireless networking is enabled.
- **Time of Day to Enable Radio:** You can specify a time range when wireless networking is enabled during the week.
• **Set AP isolated**: The Set AP isolated item prevents wireless devices on your network from communicating with each other. This feature is useful if many guests frequently join or leave your network. Select **Yes** to enable this feature or select **No** to disable.

• **Roaming Assistant**: In network configurations that involve multiple Access Points or wireless repeaters, wireless clients sometimes cannot connect automatically to the first available AP because they are still connected to the main wireless router. Enable this setting so that the client will disconnect from the main wireless router if the signal strength is under a specific threshold and connect to a stronger signal.

• **Enable IGMP Snooping**: Select **Enable** as the default value to help improve the speed of transmission.

• **Multicast rate (Mbps)**: Select the multicast transmission rate or click **Disable** to switch off simultaneous single transmission.

• **RTS Threshold**: Select a lower value for RTS (Request to Send) Threshold to improve wireless communication in a busy or noisy wireless network with high network traffic and numerous wireless devices.

• **DTIM Interval**: DTIM (Delivery Traffic Indication Message) Interval or Data Beacon Rate is the time interval before a signal is sent to a wireless device in sleep mode indicating that a data packet is awaiting delivery. The default value is three milliseconds.

• **Beacon Interval**: Beacon Interval is the time between one DTIM and the next. The default value is 100 milliseconds. Lower the Beacon Interval value for an unstable wireless connection or for roaming devices.

• **Enable TX Bursting**: Enable TX Bursting improves transmission speed between the xDSL modem router and 802.11g devices.

• **Enable Packet Aggregation**: The default value is enabling the process of joining multiple packets together into a single transmission unit.
• **Enable WMM APSD**: Enable WMM APSD (Wi-Fi Multimedia Automatic Power Save Delivery) to improve power management between wireless devices. Select **Disable** to switch off WMM APSD.

• **Enable WMM DLS**: Select **Enable** to set WMM Direct Link Setup.

• **TX Power adjustment**: TX Power adjustment refers to the milliWatts (mW) needed to power the radio signal output of the xDSL modem router. Enter a value between 0 to 100.

**NOTE**: Increasing the TX Power adjustment values may affect the stability of the wireless network.

### 4.2 LAN

#### 4.2.1 LAN IP

The LAN IP screen allows you to modify the LAN IP settings of your xDSL modem router.

**NOTE**: Any changes to the LAN IP address will be reflected on your DHCP settings.

![LAN IP screen](image)

**To modify the LAN IP settings:**

1. From the navigation panel, go to **Advanced Settings** > **LAN** > **LAN IP** tab.
2. Modify the **IP address** and **Subnet Mask**.
3. When done, click **Apply**.
4.2.2 DHCP Server

Your xDSL modem router uses DHCP to assign IP addresses automatically on your network. You can specify the IP address range and lease time for the clients on your network.

To configure the DHCP server:

1. From the navigation panel, go to Advanced Settings > LAN > DHCP Server tab.
2. In the Enable the DHCP Server field, tick Yes.
3. In the IP Pool Starting Address field, key in the starting IP address.
4. In the IP Pool Ending Address field, key in the ending IP address.
5. In the Lease Time field, specify in seconds when an assigned IP address will expire. Once it reaches this time limit, the DHCP server will then assign a new IP address.
NOTES:

• We recommend that you use an IP address format of 192.168.1.xxx (where xxx can be any number between 2 and 254) when specifying an IP address range.

• An IP Pool Starting Address should not be greater than the IP Pool Ending Address.

6. In the **DNS and WINS Server Settings** section, key in your DNS Server and WINS Server IP address if needed.

7. Your xDSL modem router can also manually assign IP addresses to devices on the network. Up to 32 MAC Addresses can be added to the DHCP list for manual assignment.
4.2.3 Route

If your network makes use of more than one xDSL modem router, you can configure a routing table to share the same Internet service.

**NOTE:** We recommend that you do not change the default route settings unless you have advanced knowledge of routing tables.

To configure the LAN Routing table:

1. From the navigation panel, go to Advanced Settings > LAN > Route tab.
2. On the Enable static routes field, choose Yes.
3. On the Static Route List, enter the network information of other access points or nodes. Click the Add or Delete button to add or remove a device on the list.
4. Click Apply.
4.2.4 IPTV

The xDSL modem router supports connection to IPTV services through an ISP or a LAN. The IPTV tab provides the configuration settings needed to set up IPTV, VoIP, multicasting, and UDP for your service. Contact your ISP for specific information regarding your service.
4.3 WAN

4.3.1 Internet Connection

The Internet Connection screen allows you to configure the settings of various WAN connection types.

To configure the WAN connection settings:

1. From the navigation panel, go to Advanced Settings > WAN > Internet Connection tab.

2. Configure the following settings below. When done, click Save.

- **WAN Transfer Mode**
  - Choose your Internet Service Provider type. The choices are **VDSL WAN (PTM)**, **ADSL WAN (ATM)**, **Ethernet WAN**. Consult your ISP if the router is unable to obtain a valid IP address or if you are unsure the WAN connection type.

- **Service Unit**: To set the value of transmission via Internet or bridge.
- **Enable**: Select **Yes** to enable the Internet access. Select **No** to disable the Internet access.

- **Basic Config**
  - **IP version**: Select your IP version type. The choices are **IPv4**, **IPv4/IPv6**, and **IPv6**.
  - **WAN Connection Type**: Select the correct connection type based on your ISP service type. The choices are **Automatic IP**, **Static IP**, and **PPPoE**.
  - **Enable UPnP**: UPnP (Universal Plug and Play) allows several devices (such as routers, televisions, stereo systems, game consoles, and cellular phone) to be controlled via an IP-based network with or without a central control through a gateway. UPnP connects PCs of all form factors, providing a seamless network for remote configuration and data transfer. Using UPnP, a new network device is discovered automatically. Once connected to the network, devices can be remotely configured to support P2P applications, interactive gaming, video conferencing, and web or proxy servers. Unlike Port forwarding, which involves manually configuring port settings, UPnP automatically configures the router to accept incoming connections and direct requests to a specific PC on the local network.

- **IPv4 Setting**
  - **Connect to DNS Server automatically**: Allows this router to get the DNS IP address from the ISP automatically. A DNS is a host on the Internet that translates Internet names to numeric IP addresses.
  - **Enable NAT**: NAT (Network Address Translation) is a system where one public IP (WAN IP) is used to provide Internet access to network clients with a private IP address in a LAN. The private IP address of each network client is saved in a NAT table and is used to route incoming data packets.
• **Special Requirement from ISP**

  • **Host Name**: This field allows you to provide a host name for your router. It is usually a special requirement from your ISP. If your ISP assigned a host name to your computer, enter the host name here.

  • **MAC Address**: MAC (Media Access Control) address is a unique identifier for your networking device. Some ISPs monitor the MAC address of networking devices that connect to their service and reject any unrecognized device that attempt to connect. To avoid connection issues due to an unregistered MAC address, you can:
    - Contact your ISP and update the MAC address associated with your ISP service.
    - Clone or change the MAC address of the ASUS wireless router to match the MAC address of the previous networking device recognized by the ISP.

**4.3.2 Dual WAN**

DSL-AC55U provides Dual WAN support. Select **Failover mode** to use a secondary WAN for backup network access.
4.3.3 Port Trigger

Port range triggering opens a predetermined incoming port for a limited period of time whenever a client on the local area network makes an outgoing connection to a specified port. Port triggering is used in the following scenarios:

- More than one local client needs port forwarding for the same application at a different time.
- An application requires specific incoming ports that are different from the outgoing ports.

To set up Port Trigger:

1. From the navigation panel, go to Advanced Settings > WAN > Port Trigger tab.
2. Configure the following settings below. When done, click Apply.
   - **Enable Port Trigger**: Choose Yes to enable Port Trigger.
   - **Well-Known Applications**: Select popular games and web services to add to the Port Trigger List.
   - **Description**: Enter a short name or description for the service.
• **Trigger Port**: Specify a trigger port to open the incoming port.

• **Protocol**: Select the protocol, TCP, or UDP.

• **Incoming Port**: Specify an incoming port to receive inbound data from the Internet.

• **Protocol**: Select the protocol, TCP, or UDP.

**NOTES:**

• When connecting to an IRC server, a client PC makes an outgoing connection using the trigger port range 66660-7000. The IRC server responds by verifying the username and creating a new connection to the client PC using an incoming port.

• If Port Trigger is disabled, the router drops the connection because it is unable to determine which PC is requesting for IRC access. When Port Trigger is enabled, the router assigns an incoming port to receive the inbound data. This incoming port closes once a specific time period has elapsed because the router is unsure when the application has been terminated.

• Port triggering only allows one client in the network to use a particular service and a specific incoming port at the same time.

• You cannot use the same application to trigger a port in more than one PC at the same time. The router will only forward the port back to the last computer to send the router a request/trigger.
4.3.4 Virtual Server/Port Forwarding

Port forwarding is a method to direct network traffic from the Internet to a specific port or a specific range of ports to a device or number of devices on your local network. Setting up Port Forwarding on your router allows PCs outside the network to access specific services provided by a PC in your network.

**NOTE:** When port forwarding is enabled, the ASUS router blocks unsolicited inbound traffic from the Internet and only allows replies from outbound requests from the LAN. The network client does not have access to the Internet directly, and vice versa.

To set up Port Forwarding:

1. From the navigation panel, go to **Advanced Settings > WAN > Virtual Server / Port Forwarding** tab.
2. Configure the following settings below. When done, click **Apply**.

- **Enable Port Forwarding**: Choose **Yes** to enable Port Forwarding.

- **Famous Server List**: Determine which type of service you want to access.

- **Famous Game List**: This item lists ports required for popular online games to work correctly.

- **FTP Server Port**: Avoid assigning the port range 20:21 for your FTP server as this would conflict with the router’s native FTP server assignment.

- **Service Name**: Enter a service name.

- **Port Range**: If you want to specify a Port Range for clients on the same network, enter the Service Name, the Port Range (e.g. 10200:10300), the LAN IP address, and leave the Local Port empty. Port range accepts various formats such as Port Range (300:350), individual ports (566,789) or Mix (1015:1024,3021).

**NOTES:**

- When your network’s firewall is disabled and you set 80 as the HTTP server’s port range for your WAN setup, then your http server/web server would be in conflict with the router’s web user interface.

- A network makes use of ports in order to exchange data, with each port assigned a port number and a specific task. For example, port 80 is used for HTTP. A specific port can only be used by one application or service at a time. Hence, two PCs attempting to access data through the same port at the same time would fail. For example, you cannot set up Port Forwarding for port 100 for two PCs at the same time.
- **Local IP**: Key in the client’s LAN IP address.

**NOTE**: Use a static IP address for the local client to make port forwarding work properly. Refer to section 4.2 LAN for information.

- **Local Port**: Enter a specific port to receive forwarded packets. Leave this field blank if you want the incoming packets to be redirected to the specified port range.

- **Protocol**: Select the protocol. If you are unsure, select **BOTH**.

**To check if Port Forwarding has been configured successfully:**

- Ensure that your server or application is set up and running.

- You will need a client outside your LAN but has Internet access (referred to as “Internet client”). This client should not be connected to the ASUS router.

- On the Internet client, use the router’s WAN IP to access the server. If port forwarding has been successful, you should be able to access the files or applications.

**Differences between port trigger and port forwarding:**

- Port triggering will work even without setting up a specific LAN IP address. Unlike port forwarding, which requires a static LAN IP address, port triggering allows dynamic port forwarding using the router. Predetermined port ranges are configured to accept incoming connections for a limited period of time. Port triggering allows multiple computers to run applications that would normally require manually forwarding the same ports to each PC on the network.

- Port triggering is more secure than port forwarding since the incoming ports are not open all the time. They are opened only when an application is making an outgoing connection through the trigger port.
4.3.5 DMZ

Virtual DMZ exposes one client to the Internet, allowing this client to receive all inbound packets directed to your Local Area Network.

Inbound traffic from the Internet is usually discarded and routed to a specific client only if port forwarding or a port trigger has been configured on the network. In a DMZ configuration, one network client receives all inbound packets.

Setting up DMZ on a network is useful when you need incoming ports open or you want to host a domain, web, or e-mail server.

**Caution:** Opening all the ports on a client to the Internet makes the network vulnerable to outside attacks. Please be aware of the security risks involved in using DMZ.

To set up DMZ:

1. From the navigation panel, go to Advanced Settings > WAN > DMZ tab.
2. Configure the setting below. When done, click **Apply**.
   - **IP address of Exposed Station:** Key in the client’s LAN IP address that will provide the DMZ service and be exposed on the Internet. Ensure that the server client has a static IP address.
To remove DMZ:
1. Delete the client’s LAN IP address from the IP Address of Exposed Station text box.
2. When done, click Apply.

4.3.6 DDNS

Setting up DDNS (Dynamic DNS) allows you to access the router from outside your network through the provided ASUS DDNS Service or another DDNS service.

To set up DDNS:
1. From the navigation panel, go to Advanced Settings > WAN > DDNS tab.
2. Configure the following settings below. When done, click Apply.
   - **Enable the DDNS Client:** Enable DDNS to access the ASUS router via the DNS name rather than WAN IP address.
   - **Server and Host Name:** Choose ASUS DDNS or other DDNS. If you want to use ASUS DDNS, fill in the Host Name in the format of xxx.asuscomm.com (xxx is your host name).
   - If you want to use a different DDNS service, click FREE TRIAL and register online first. Fill in the User Name or E-mail Address and Password or DDNS Key fields.
NOTES:

DDNS service will not work under these conditions:

- When the xDSL modem router is using a private WAN IP address (192.168.x.x, 10.x.x.x, or 172.16.x.x), as indicated by a yellow text.
- The router may be on a network that uses multiple NAT tables.

4.3.7 NAT Passthrough

NAT Passthrough allows a Virtual Private Network (VPN) connection to pass through the router to the network clients. **PPTP Passthrough**, **L2TP Passthrough**, **IPsec Passthrough**, **RTSP Passthrough**, **H.323 Passthrough**, and **SIP Passthrough** are enabled by default.

To enable / disable the NAT Passthrough settings, go to the Advanced Settings > WAN > NAT Passthrough tab. When done, click **Apply**.
4.4 IPv6

This xDSL modem router supports IPv6 addressing, a system that supports more IP addresses. This standard is not yet widely available. Contact your ISP if your Internet service supports IPv6.

To set up IPv6:

1. From the navigation panel, go to **Advanced Settings > IPv6**.
2. Select your **Connection Type**. The configuration options vary depending on your selected connection type.
3. Enter your IPv6 LAN and DNS settings.
4. Click **Apply**.

**NOTE**: Please refer to your ISP regarding specific IPv6 information for your Internet service.
4.5 VPN Server

VPN (Virtual Private Network) provides a secure communication to a remote computer or remote network using a public network such as the Internet.

**NOTE:** Before setting up a VPN connection, you would need the IP address or domain name of the VPN server you are trying to access.

To set up access to a VPN server:

1. From the navigation panel, go to **Advanced Settings > VPN Server**.
2. On the Enable VPN Server field, select **Yes**.
3. On the Network Place (Samba) Support field, select **Yes**.
4. Enter the user name and password for accessing the VPN server. Click the **Add/Remove** button.
5. Click **Apply**.

**NOTE:** For advanced VPN server settings, click the **VPN Server** tab to configure broadcast support, authentication, MPPE Encryption, and Client IP address range.
4.6 Firewall

The xDSL modem router can serve as a hardware firewall for your network.

NOTE: The Firewall feature is enabled by default.

4.6.1 General

To set up basic Firewall settings:

1. From the navigation panel, go to Advanced Settings > Firewall > General tab.
2. On the Enable Firewall field, select Yes.
3. On the Enable DoS protection, select Yes to protect your network from DoS (Denial of Service) attacks though this may affect your router’s performance.
4. You can also monitor packets exchanged between the LAN and WAN connection. On the Logged packets type, select Dropped, Accepted, or Both.
5. Click Apply.
4.6.2 URL Filter

You can specify keywords or web addresses to prevent access to specific URLs.

**NOTE:** The URL Filter is based on a DNS query. If a network client has already accessed a website such as http://www.abcxxx.com, then the website will not be blocked (a DNS cache in the system stores previously visited websites). To resolve this issue, clear the DNS cache before setting up the URL Filter.

![URL Filter Configuration](image)

To set up a URL filter:

1. From the navigation panel, go to Advanced Settings > Firewall > URL Filter tab.
2. On the Enable URL Filter field, select **Enabled**.
3. Enter a URL and click the **+** button.
4. Click **Apply**.
4.6.3 Keyword Filter

Keyword filter blocks access to webpages containing specified keywords.

To set up a keyword filter:

1. From the navigation panel, go to Advanced Settings > Firewall > Keyword Filter tab.
2. On the Enable Keyword Filter field, select Enabled.
3. Enter a word or phrase and click the button.
4. Click Apply.

NOTES:

- The Keyword Filter is based on a DNS query. If a network client has already accessed a website such as http://www.abcxxx.com, then the website will not be blocked (a DNS cache in the system stores previously visited websites). To resolve this issue, clear the DNS cache before setting up the Keyword Filter.

- Web pages compressed using HTTP compression cannot be filtered. HTTPS pages also cannot be blocked using a keyword filter.
4.6.4 Network Services Filter

The Network Services Filter blocks LAN to WAN packet exchanges and restricts network clients from accessing specific web services such as Telnet or FTP.

To set up a Network Service filter:

1. From the navigation panel, go to Advanced Settings > Firewall > Network Service Filter tab.
2. On the Enable Network Services Filter field, select Yes.
3. Select the Filter table type. Black List blocks the specified network services. White List limits access to only the specified network services.
4. Specify the day and time when the filters will be active.
5. To specify a Network Service to filter, enter the Source IP, Destination IP, Port Range, and Protocol. Click the button.
6. Click Apply.
4.7 Administration

4.7.1 System

The System page allows you to configure your xDSL modem router settings.

To set up the System settings:

1. From the navigation panel, go to Advanced Settings > Administration > System tab.

2. You can configure the following settings:
   - **Change router login password**: You can change the password and login name for the xDSL modem router by entering a new name and password.
   - **WPS button behavior**: The physical WPS button on the xDSL modem router can be used to activate WPS.
   - **Time Zone**: Select the time zone for your network.
   - **NTP Server**: The xDSL modem router can access a NTP (Network time Protocol) server in order to synchronize the time.
• Enable Telnet: Click Yes to enable Telnet services on the network. Click No to disable Telnet.

• Authentication Method: You can select HTTP, HTTPS, or both protocols to secure router access.

• Enable Web Access from WAN: Select Yes to allow devices outside the network to access the xDSL modem router GUI settings. Select No to prevent access.

3. Click Apply.

4.7.2 Firmware Upgrade

NOTE: Download the latest firmware from the ASUS website at http://www.asus.com

To upgrade the firmware:

1. From the navigation panel, go to Advanced Settings > Administration > Firmware Upgrade tab.

2. In the New Firmware File field, click Browse to locate the downloaded file.

3. Click Upload.
NOTES:

• When the upgrade process is complete, wait for some time for the system to reboot.

• If the upgrade process fails, the xDSL modem router automatically enters rescue mode and the power LED indicator on the front panel starts flashing slowly. To recover or restore the system, refer to section 5.2 Firmware Restoration.

4.7.3 Restore/Save/Upload Setting

To restore/save/upload xDSL modem router settings:

1. From the navigation panel, go to Advanced Settings > Administration > Restore/Save/Upload Setting tab.

2. Select the tasks that you want to do:
   • To restore to the default factory settings, click **Restore**, and click **OK** in the confirmation message.
   • To save the current system settings, click **Save**, navigate to the folder where you intend to save the file and click **Save**.
• To restore from a saved system settings file, click Browse to locate your file, then click Upload.

**NOTE**: If issues occur, upload the latest firmware version and configure new settings. Do not restore the router to its default settings.

### 4.7.4 DSL Setting

This page allows you to configure your DSL settings.

**IMPORTANT!** Please contact your ISP to obtain your DSL settings before doing any changes.

You can configure the following settings:

- **DSL Modulation**: This device supports VDSL2, ADSL2+, ADSL2, G.DMT, T1.413 and G.lite. The system Auto Sync-Up by default.
• **Annex Mode**: This device supports different DSL Variant (Annex) – Annex A, Annex I, Annex A/L, Annex M, A/J/J/L/M (multiple-mode), Annex B, Annex B/J (multiple-mode). Contact your ISP to find out the DSL variant (annex) that is used on your DSL line.

• **Dynamic Line Adjustment (ADSL)**: This function allows the system to monitor and maintain the stability of the ADSL line. This function is enabled by default, and the system adopts corresponding changes based on the current ADSL line condition.

• **Stability Adjustment (ADSL)**: It allows you to configure the Signal-to-Noise Ratio Offset. Set the value for this item based on the following conditions:
  - **Normal DSL connection**: Set the value from 1 dB ~ 10 dB for maximum performance.
  - **Unstable or no ADSL connection**: Set the value to a negative dB such as -1 dB.
  - **Persistent issue with unstable or no ADSL connection**: Set the value from -2 dB ~ -10 dB for maximum stability.

• **Rx AGC GAIN Adjustment (ADSL)**: Allows you to configure Rx AGC GAIN (Auto Gain Control) for your ADSL line. You can set this item to any of these modes:
  - **Stable**: Select this mode to get a stable ADSL connection.
  - **High Performance**: Select this mode to improve the current downstream speed.
  - **Default**: Select this mode for your xDSL modem router to automatically assign the suitable mode for your ADSL line.

• **Stability Adjustment (VDSL)**: It allows you to configure the target SNRM (Signal-to-Noise Ratio Margin) for your VDSL connection. When configuring this item, you may consider the following scenarios:
  - For maximum downstream performance, set this item to a value lower than the original (such as from 8 dB to 7 dB or lower).

**IMPORTANT!** Setting a low value may weaken your xDSL modem router defense against line noise, and may result to VDSL sync loss or failure.

  - For a more stable VDSL connection, set this item to a higher value such as 9 dB ~ 30 dB.
- **Tx Power Control (VDSL):** It allows you to configure the Tx Power for VDSL to improve the downstream speed. A low Tx Power value increases the downstream speed but affects the upstream speed, and vice versa.

- **Rx AGC GAIN Adjustment (VDSL):** Allows you to configure Rx AGC GAIN (Auto Gain Control) for your VDSL line. You can set this item to any of these modes:
  - **Stable:** Select this mode to get a stable VDSL connection.
  - **High Performance:** Select this mode to improve the current downstream speed.
  - **Default:** Select this mode for your xDSL modem router to automatically assign the suitable mode for your VDSL line.

- **UPBO/Upstream Power Back Off (VDSL):** This item allows you to enable or disable UPBO (Upstream Power Back Off) for VDSL. DSLAM (Digital Subscriber Line Access Multiplexer) uses UPBO to reduce the Tx Power of your xDSL modem router. In some cases, UPBO control from DSLAM may lead to sync issue, such as Tx Power is too low to sync at minimum rate. Disable this item to prevent any DSLAM-related sync issues.

- **Seamless Rate Adaptation:** This item allows you to enable SRA (Seamless Rate Adaptation) for consistent data transfer rates and preventing dropped connections. You may disable this item when your connection is very stable and there is a decrease in download or upload speed.

- **Bitswap:** This item allows you to enable Bitswap, which adjusts bits allocated for bins/channels. Busy or congested bins/channels are assigned fewer bits while available channels are allocated more bits to handle.

- **VDSL Profile:** This item allows you to configure the VDSL Profile. The default value is 30a multi mode.

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**NOTE:** For some ISPs with non-standard 30a multi mode VDSL DSLAM sync setting, such as for ISP services in Germany, set the VDSL Profile to 17a multi mode to sync up the VDSL line.
4.7.5 Feedback

DSL feedback is used to diagnose problems and help to improve the user experience of ASUS xDSL modem router. Complete the form, and it will be send to ASUS Support Team.
4.8 System Log

System Log contains your recorded network activities.

NOTE: System log resets when the router is rebooted or powered off.

To view your system log:

1. From the navigation panel, go to Advanced Settings > System Log.

2. You can view your network activities in any of these tabs:
   - General Log
   - DHCP Leases
   - Wireless Log
   - Port Forwarding
   - DSL Log
5 Utilities

NOTES:

- Install the xDSL modem router's utilities from the bundled support CD.
- If Autorun is disabled, run setup.exe from the root directory of the support CD.
- The utilities are not supported on MAC OS.

5.1 Device Discovery

Device Discovery is an ASUS WLAN utility that detects an ASUS Wireless xDSL Modem Router device, and allows you to configure the wireless networking settings.

To launch the Device Discovery utility:

- From your computer’s desktop, click Start > All Programs > ASUS Utility > Device Discovery.

NOTE: When you set the router to Access Point mode, you need to use Device Discovery to get the router's IP address.
5.2 Firmware Restoration

Firmware Restoration is used on an ASUS Wireless xDSL Modem Router that failed during its firmware upgrading process. It uploads the firmware that you specify. The process takes about three to four minutes.

**IMPORTANT:** Launch the rescue mode on the router before using the Firmware Restoration utility.

**NOTE:** This feature is not supported on MAC OS.

To launch the rescue mode and use the Firmware Restoration utility:

1. Unplug the xDSL modem router from the power source.
2. Hold the Reset button at the rear panel and simultaneously replug the xDSL modem router into the power source. Release the Reset button when the Power LED at the front panel flashes slowly, which indicates that the xDSL modem router is in the rescue mode.
3. Set a static IP on your computer and use the following to set up your TCP/IP settings:
   **IP address**: 192.168.1.x
   **Subnet mask**: 255.255.255.0

4. From your computer’s desktop, click **Start > All Programs > ASUS Utility DSL-AC55U xDSL modem router > Firmware Restoration**.

5. Specify a firmware file, then click **Upload**.

**NOTE**: This is not a firmware upgrade utility and cannot be used on a working ASUS XDSL modem router. Normal firmware upgrades must be done through the web interface. Refer to **Chapter 4: Configuring the Advanced Settings** for more details.

### 5.3 Setting up your printer server

#### 5.3.1 ASUS EZ Printer Sharing

ASUS EZ Printing Sharing utility allows you to connect a USB printer to your xDSL modem router’s USB port and set up the print server. This allows your network clients to print and scan files wirelessly.
NOTE: The print server function is supported on Windows® XP, Windows® Vista, and Windows® 7.

To set up the EZ Printer sharing mode:
1. From the navigation panel, go to General > USB Application > Network Printer Server.
2. Click Download Now! to download the network printer utility.

NOTE: Network printer utility is supported on Windows® XP, Windows® Vista, and Windows® 7 only. To install the utility on Mac OS, select Use LPR protocol for sharing printer.

3. Unzip the downloaded file and click the Printer icon to run the network printer setup program.
4. Follow the onscreen instructions to set up your hardware, then click **Next**.

5. Wait a few minutes for the initial setup to finish. Click **Next**.
6. Click **Finish** to complete the installation.
7. Follow the Windows® OS instructions to install the printer driver.

8. After the printer’s driver installation is complete, network clients can now use the printer.
5.3.2 Using LPR to Share Printer

You can share your printer with computers running on Windows® and MAC operating system using LPR/LPD (Line Printer Remote/Line Printer Daemon).

Sharing your LPR printer
To share your LPR printer:

1. From the Windows® desktop, click **Start > Devices and Printers > Add a printer** to run the **Add Printer Wizard**.

2. Select **Add a local printer** and then click **Next**.
3. Select **Create a new port** then set **Type of Port** to **Standard TCP/IP Port**. Click **New Port**.

4. In the **Hostname or IP address** field, key in the IP address of the xDSL modem router then click **Next**.
5. Select **Custom** then click **Settings**.

6. Set **Protocol** to **LPR**. In the **Queue Name** field, key in **LPRServer** then click **OK** to continue.
7. Click **Next** to finish setting up the standard TCP/IP port.

8. Install the printer driver from the vendor-model list. If your printer is not in the list, click **Have Disk** to manually install the printer drivers from a CD-ROM or file.
9. Click **Next** to accept the default name for the printer.

10. Click **Finish** to complete the installation.
5.4 Download Master

Download Master is a utility that helps you download files even while your laptops or other devices are switched off.

**NOTE:** You need a USB device connected to the xDSL modem router to use Download Master.

To use Download Master:

1. Click **General > USB application > Download Master** to download and install the utility automatically.

   **NOTE:** If you have more than one USB drive, select the USB device you want to download the files to.

2. After the download process is finished, click the Download Master icon to start using the utility.

3. Click **Add** to add a download task.

4. Select a download type such as BitTorrent, HTTP, or FTP. Provide a torrent file or a URL to begin downloading.

   **NOTE:** For details on Bit Torrent, refer to section **5.4.1 Configuring the Bit Torrent download settings.**
5. Use the navigation panel to configure the advanced settings.

5.4.1 Configuring Bit Torrent download settings

To configure BitTorrent download settings:

1. From Download Master’s navigation panel, click Bit Torrent to launch the Bit Torrent Setting page.

2. Select a specific port for your download task.

3. To prevent network congestion, you can limit the maximum upload and download speeds under Speed Limits.

4. You can limit the maximum number of allowed peers and enable or disable file encryption during downloads.
5.4.2 NZB settings

You can set up a USENET server to download NZB files. After entering USENET settings, **Apply**.
6 Troubleshooting

This chapter provides solutions for issues you may encounter with your router. If you encounter problems that are not mentioned in this chapter, visit the ASUS support site at: http://support.asus.com/ for more product information and contact details of ASUS Technical Support.

6.1 Basic Troubleshooting

If you are having problems with your router, try these basic steps in this section before looking for further solutions.

Upgrade Firmware to the latest version.

1. Launch the Web GUI. Go to Advanced Settings > Administration > Firmware Upgrade tab. Click Check to verify if the latest firmware is available.

2. If the latest firmware is available, visit the ASUS global website at http://www.asus.com/Networks/Wireless_Routers/DSLAC55U/#download to download the latest firmware.

3. From the Firmware Upgrade page, click Browse to locate the firmware file.

4. Click Upload to upgrade the firmware.
Restart your network in the following sequence:
1. Turn off the modem.
2. Unplug the modem.
3. Turn off the router and computers.
4. Plug in the modem.
5. Turn on the modem and then wait for 2 minutes.
6. Turn on the router and then wait for 2 minutes.
7. Turn on computers.

Check if your Ethernet cables are plugged properly.
• When the Ethernet cable connecting the router with the modem is plugged in properly, the WAN LED will be on.
• When the Ethernet cable connecting your powered-on computer with the router is plugged in properly, the corresponding LAN LED will be on.

Check if the wireless setting on your computer matches that of your computer.
• When you connect your computer to the router wirelessly, ensure that the SSID (wireless network name), encryption method, and password are correct.

Check if your network settings are correct.
• Each client on the network should have a valid IP address. ASUS recommends that you use the xDSL modem router’s DHCP server to assign IP addresses to computers on your network.
• Some cable modem service providers require you to use the MAC address of the computer initially registered on the account. You can view the MAC address in the web GUI, **Network Map > Clients** page, and hover the mouse pointer over your device in **Client Status**.
6.2 Frequently Asked Questions (FAQs)

I cannot access the router GUI using a web browser

- If your computer is wired, check the Ethernet cable connection and LED status as described in the previous section.

- Ensure that you are using the correct login information. The default factory login name and password is “admin/admin”. Ensure that the Caps Lock key is disabled when you enter the login information.

- Delete the cookies and files in your web browser. For Internet Explorer 8, follow these steps:
  1. Launch Internet Explorer 8, then click Tools > Internet Options.
  2. In the General tab, under Browsing history, click Delete…, select Temporary Internet Files and Cookies then click Delete.

NOTES:

- The commands for deleting cookies and files vary with web browsers.

- Disable proxy server settings, cancel the dial-up connection, and set the TCP/IP settings to obtain IP addresses automatically. For more details, refer to Chapter 1 of this user manual.

- Ensure that you use CAT5e or CAT6 ethernet cables.
The client cannot establish a wireless connection with the router.

**NOTE:** If you are having issues connecting to 5GHz network, make sure that your wireless device supports 5GHz or features dual band capabilities.

- **Out of Range:**
  - Move the router closer to the wireless client.
  - Try to adjust antennas of the router to the best direction as described in section 1.4 Positioning your xDSL modem router.

- **DHCP server has been disabled:**
  1. Launch the web GUI. Go to **General > Network Map > Clients** and search for the device that you want to connect to the router.
  2. If you cannot find the device in the **Network Map**, go to **Advanced Settings > LAN > DHCP Server, Basic Config list**, select **Yes** on the **Enable the DHCP Server**.
• SSID has been hidden. If your device can find SSIDs from other routers but cannot find your router’s SSID, go to Advanced Settings > Wireless > General, select No on Hide SSID, and select Auto on Control Channel.

• If you are using a wireless LAN adapter, check if the wireless channel in use conforms to the channels available in your country/area. If not, adjust the channel, channel bandwidth, and wireless mode.

• If you still cannot connect to the router wirelessly, you can reset your router to factory default settings. In the router GUI, click Administration > Restore/Save/Upload Setting and click Restore.
**Internet is not accessible.**

- Check if your router can connect to your ISP’s WAN IP address. To do this, launch the web GUI and go to **General > Network Map**, and check the **Internet Status**.

- If your router cannot connect to your ISP’s WAN IP address, try restarting your network as described in the section **Restart your network in following sequence** under **Basic Troubleshooting**.

- The device has been blocked via the Parental Control function. Go to **General > Parental Control** and see if the device is in the list. If the device is listed under **Client Name**, remove the device using the **Delete** button or adjust the Time Management Settings.

- If there is still no Internet access, try to reboot your computer and verify the network’s IP address and gateway address.
• Check the status indicators on the ADSL modem and the xDSL modem router. If the WAN LED on the xDSL modem router is not ON, check if all cables are plugged properly.

**You forgot the SSID (network name) or network password**

• Setup a new SSID and encryption key via a wired connection (Ethernet cable). Launch the web GUI, go to **Network Map**, click the router icon, enter a new SSID and encryption key, and then click **Apply**.

• Reset your router to the default settings. Launch the web GUI, go to **Administration > Restore/Save/Upload Setting**, and click **Restore**. The default login account and password are both “admin”.

**How to restore the system to its default settings?**

• Go to **Administration > Restore/Save/Upload Setting**, and click **Restore**.

The following are the factory default settings:

- **User Name:** admin
- **Password:** admin
- **Enable DHCP:** Yes (if WAN cable is plugged in)
- **IP address:** [http://router.asus.com](http://router.asus.com)
- **Domain Name:** (Blank)
- **Subnet Mask:** 255.255.255.0
- **DNS Server 1:** 192.168.1.1
- **DNS Server 2:** (Blank)
- **SSID (2.4GHz):** ASUS
- **SSID (5GHz):** ASUS_5G

**Firmware upgrade failed.**

Launch the rescue mode and run the Firmware Restoration utility. Refer to section **5.2 Firmware Restoration** on how to use the Firmware Restoration utility.
Cannot access Web GUI

Before configuring your xDSL modem router, do the steps described in this section for your host computer and network clients.

A. Disable the proxy server, if enabled.

Windows® 7

1. Click **Start > Internet Explorer** to launch the browser.

2. Click **Tools > Internet options > Connections tab > LAN settings.**

3. From the Local Area Network (LAN) Settings screen, untick **Use a proxy server for your LAN.**

4. Click **OK** when done.
MAC OS

1. From your Safari browser, click Safari > Preferences > Advanced > Change Settings...
2. From the Network screen, deselect FTP Proxy and Web Proxy (HTTP).
3. Click Apply Now when done.

NOTE: Refer to your browser's help feature for details on disabling the proxy server.

B. Set the TCP/IP settings to automatically obtain an IP address.

Windows® 7

1. Click Start > Control Panel > Network and Internet > Network and Sharing Center > Manage network connections.
3. To obtain the IPv4 IP settings automatically, tick **Obtain an IP address automatically**.

To obtain the IPv6 IP settings automatically, tick **Obtain an IPv6 address automatically**.

4. Click **OK** when done.

### MAC OS

1. Click the Apple icon 🍎 located on the top left of your screen.

2. Click **System Preferences > Network > Configure...**

3. From the **TCP/IP** tab, select **Using DHCP** in the **Configure IPv4** dropdown list.

4. Click **Apply Now** when done.

**NOTE:** Refer to your operating system’s help and support feature for details on configuring your computer’s TCP/IP settings.
C. Disable the dial-up connection, if enabled.

Windows® 7

1. Click Start > Internet Explorer to launch the browser.
2. Click Tools > Internet options > Connections tab.
3. Tick Never dial a connection.
4. Click OK when done.

NOTE: Refer to your browser’s help feature for details on disabling the dial-up connection.
Notices

ASUS Recycling/Takeback Services

ASUS recycling and takeback programs come from our commitment to the highest standards for protecting our environment. We believe in providing solutions for you to be able to responsibly recycle our products, batteries, other components, as well as the packaging materials. Please go to http://csr.asus.com/english/Takeback.htm for the detailed recycling information in different regions.

REACH

Complying with the REACH (Registration, Evaluation, Authorisation, and Restriction of Chemicals) regulatory framework, we published the chemical substances in our products at ASUS REACH website at http://csr.asus.com/english/index.aspx

Federal Communications Commission Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

• This device may not cause harmful interference.
• 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 or more 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.

**IMPORTANT!** This device within the 5.15 ~ 5.25 GHz is restricted to indoor operations to reduce any potential for harmful interference to co-channel MSS operations.

**CAUTION:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

**Prohibition of Co-location**

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.
Safety Information

To maintain compliance with FCC’s RF exposure guidelines, this equipment should be installed and operated with minimum distance 20cm between the radiator and your body. Use on the supplied antenna.

Declaration of Conformity for R&TTE directive 1999/5/EC

Essential requirements – Article 3
Protection requirements for health and safety – Article 3.1a
Testing for electric safety according to EN 60950-1 has been conducted. These are considered relevant and sufficient.

Protection requirements for electromagnetic compatibility – Article 3.1b
Testing for electromagnetic compatibility according to EN 301 489-1 and EN 301 489-17 has been conducted. These are considered relevant and sufficient.

Effective use of the radio spectrum – Article 3.2
Testing for radio test suites according to EN 300 328 & EN 301 893 have been conducted. These are considered relevant and sufficient.

Operate the device in 5150-5250 MHz frequency band for indoor use only.

CE Mark Warning

This is a Class B product, in a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

This equipment may be operated in AT, BE, CY, CZ, DK, EE, FI, FR, DE, GR, HU, IE, IT, LU, MT, NL, PL, PT, SK, SL, ES, SE, GB, IS, LI, NO, CH, BG, RO, RT.
Canada, Industry Canada (IC) Notices

This Class B digital apparatus complies with Canadian ICES-003 and RSS-210.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Radio Frequency (RF) Exposure Information

The radiated output power of the ASUS Wireless Device is below the Industry Canada (IC) radio frequency exposure limits. The ASUS Wireless Device should be used in such a manner such that the potential for human contact during normal operation is minimized.

This device has been evaluated for and shown compliant with the IC Specific Absorption Rate (“SAR”) limits when installed in specific host products operated in portable exposure conditions (antennas are less than 20 centimeters of a person’s body).

This device has been certified for use in Canada. Status of the listing in the Industry Canada’s REL (Radio Equipment List) can be found at the following web address: http://www.ic.gc.ca/app/sitt/reltel/srch/nwRdSrch.do?lang=eng

Additional Canadian information on RF exposure also can be found at the following web: http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf08792.html

Canada, avis d’Industry Canada (IC)

Cet appareil numérique de classe B est conforme aux normes
canadiennes ICES-003 et RSS-210.
Son fonctionnement est soumis aux deux conditions suivantes:
(1) cet appareil ne doit pas causer d’interférence et (2) cet appareil
doit accepter toute interférence, notamment les interférences qui
peuvent a ecter son fonctionnement.

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ASUS Contact information

ASUSTeK COMPUTER INC. (Asia Pacific)
Address 15 Li-Te Road, Peitou, Taipei, Taiwan 11259
Website www.asus.com.tw

Technical Support
Telephone +886228943447
Support Fax +886228907698
Online support support.asus.com

ASUS COMPUTER INTERNATIONAL (America)
Address 800 Corporate Way, Fremont, CA 94539, USA
Telephone +15107393777
Fax +15106084555
Website usa.asus.com
Online support support.asus.com

ASUS COMPUTER GmbH (Germany and Austria)
Address Harkort Str. 21-23, D-40880 Ratingen, Germany
Support Fax +49-2102-959931
Website asus.com/de
Online contact eu-rma.asus.com/sales

Technical Support
Telephone (Component) +49-2102-5789555
Telephone Germany
(System/Notebook/Eee/LCD) +49-2102-5789557
Telephone Austria
(System/Notebook/Eee/LCD) +43-820-240513
Support Fax +49-2102-959911
Online support support.asus.com
<table>
<thead>
<tr>
<th>Region</th>
<th>Country</th>
<th>Hotline Number</th>
<th>Service Hours</th>
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<tbody>
<tr>
<td>Cyprus</td>
<td></td>
<td>800-92491</td>
<td>09:00-13:00; 14:00-18:00 Mon-Fri</td>
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<tr>
<td>France</td>
<td></td>
<td>0032-170949400</td>
<td>09:00-18:00 Mon-Fri</td>
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<tr>
<td>Germany</td>
<td></td>
<td>0049-1805010920</td>
<td>09:00-18:00 Mon-Fri</td>
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<td>0049-1805010923</td>
<td>09:00-18:00 Mon-Fri</td>
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<td></td>
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<td>(component support)</td>
<td>10:00-17:00 Mon-Fri</td>
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<tr>
<td></td>
<td></td>
<td>0049-2102959911</td>
<td>(Fax)</td>
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<tr>
<td>Hungary</td>
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<td>0036-15054561</td>
<td>09:00-17:30 Mon-Fri</td>
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<tr>
<td>Italy</td>
<td></td>
<td>199-400089</td>
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<td>Greece</td>
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<td>00800-44142044</td>
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<td>Austria</td>
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<td>0043-820240513</td>
<td>09:00-18:00 Mon-Fri</td>
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<tr>
<td>Netherlands/Luxembourg</td>
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<td>0031-591570290</td>
<td>09:00-17:00 Mon-Fri</td>
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<td>Belgium</td>
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<td>0032-78150231</td>
<td>09:00-17:00 Mon-Fri</td>
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<td>Norway</td>
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<td>0047-2316-2682</td>
<td>09:00-18:00 Mon-Fri</td>
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<tr>
<td>Sweden</td>
<td></td>
<td>+46-858769407</td>
<td>09:00-18:00 Mon-Fri</td>
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<td>Finland</td>
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<td>00358-969379690</td>
<td>10:00-19:00 Mon-Fri</td>
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<td>Denmark</td>
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<td>0045-38322943</td>
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<td>Poland</td>
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<td>0048-225718040</td>
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<td>Spain</td>
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<td>0034-902889688</td>
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<tr>
<td>United Kingdom</td>
<td></td>
<td>+44-1442265548</td>
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<tr>
<td>Ireland</td>
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<td>0035-31890719918</td>
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<td>Russia and CIS</td>
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<td>008-800-100-ASUS</td>
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<td>Ukraine</td>
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**Europe**
## Networks Global Hotline Information

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<th>Region</th>
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<td>Australia</td>
<td>1300-278788</td>
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<td>New Zealand</td>
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<td>Japan</td>
<td>0800-1232787</td>
<td>09:00-18:00 Mon-Fri</td>
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<td>0081-570783886</td>
<td>09:00-18:00 Mon-Fri</td>
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<td>( Non-Toll Free )</td>
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<td>Korea</td>
<td>0082-215666868</td>
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<td>Thailand</td>
<td>0066-24011717</td>
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<td>( Repair Status Only )</td>
<td>11:00-13:00 Sat</td>
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<td>1800-18550163</td>
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<td>India</td>
<td>1800-2090365</td>
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<td>09:00-21:00 Mon-Sat</td>
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<td>Indonesia</td>
<td>0062-2129495000</td>
<td>09:30-17:00 Mon-Fri</td>
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<td>500128 (Local Only)</td>
<td>9:30 – 12:00 Sat</td>
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<td>1900-555581</td>
<td>08:00-12:00</td>
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<td>Americas</td>
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<td>Mexico</td>
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<td>08:00-20:00 CST Mon-Fri</td>
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<td>08:00-15:00 CST Sat</td>
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<td>800-2787349</td>
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<td>Saudi Arabia</td>
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<td>*6557/00972-39142800</td>
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<td>00359-29889170</td>
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<td>Baltic Countries</td>
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<td>Latvia</td>
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<td>Lithuania-Vilnius</td>
<td>00370-522101160</td>
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