



Managing Services

CHAPTERS

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This guide applies to:

TL-R470T+ v6 or above, TL-R480T+ v9 or above, TL-600VPN v4 or above, TL-ER5120 v3 or above, TL-ER6020 v2 or above, TL-ER6120 v3 or above

1 Services

1.1 Overview

The Services module incorporates two functions, Dynamic DNS (DDNS) and UPnP (Universal Plug and Play) to provide convenient network services.

1.2 Support Features

Dynamic DNS

Nowadays, network protocols such as PPPoE and DHCP are widely employed by ISPs to assign public IP addresses to users. The use of these protocols can cause the user's public IP address to change dynamically. DDNS is an internet service that ensures a fixed domain name can be used to access a network with a varying public IP address. This means the user's network can be more easily accessed by internet hosts.

UPnP

With the development of networking and advanced computing techniques, greater numbers of devices feature in networks. UPnP is designed to solve the problem of communication between these network devices. UPnP function allows devices dynamically discover and communicate with each other without additional configurations. For example, it allows the download of P2P software without opening ports.

2 Dynamic DNS Configurations

With Dynamic DNS configurations, you can:

- Configure and view Peanuthull DDNS
- Configure and view Comexe DDNS
- Configure and view DynDNS
- Configure and view NO-IP DDNS

2.1 Configure and View Peanuthull DDNS

Choose the menu **Service > Dynamic DNS > Peanuthull** and click **Add** to load the following page.

Figure 2-1 Configure Peanuthull DDNS

<input type="checkbox"/>	ID	Interface	Account Name	Update Interval	Status	Service Status	Domain Name	Service Type	Operation
--	--	--	--	--	--	--	--	--	--

Interface:

Account Name: [Go to register](#)

Password:

Update Interval:

Status: Enable

Follow these steps to configure Peanuthull DDNS.

- 1) Click **Go to register** to visit the official website of Peanuthull, register an account and a domain name.
- 2) Configure the following parameters and click **OK**.

Interface	Select the interface for the DDNS service.
Account Name	Enter the account name of your DDNS account. You can click Go to register to visit the official website of Peanuthull to register an account.
Password	Enter the password of your DDNS account.
Update Interval	Specify the Update Interval that the device dynamically updates IP addresses for registered domain names.
Status	Check the box to enable the DDNS service.

3) View the DDNS status.

Figure 2-2 View the Status of Peanuthull DDNS

Peanuthull

+ Add - Delete

<input type="checkbox"/>	ID	Interface	Account Name	Update Interval	Status	Service Status	Domain Name	Service Type	Operation
<input type="checkbox"/>	1	WAN1	user1	6 hours	Enabled ✖	Offline	---	---	

Status Displays whether the corresponding DDNS service is enabled.

Service Status Displays the current status of DDNS service.

Offline: DDNS service is offline.

Connecting: DDNS client is connecting to the server.

Online: DDNS is working normally.

Incorrect account name or password: The account name or password is incorrect.

Domain Name Displays the Domain Names obtained from the DDNS server.

Service Type Displays the DDNS service type, including Professional service and Standard service.

2.2 Configure and View Comexe DDNS

Choose the menu **Service > Dynamic DNS > Comexe** and click **Add** to load the following page.

Figure 2-3 Configure Comexe DDNS

<input type="checkbox"/>	ID	Interface	Account Name	Update Interval	Status	Service Status	Domain Name	Operation
--	--	--	--	--	--	--	--	--

Interface:

Account Name: [Go to register](#)

Password:

Update Interval:

Status: Enable

Follow these steps to configure Comexe DDNS.

- 1) Click **Go to register** to visit the official website of Comexe, register an account and a domain name.

2) Configure the following parameters and click **OK**.

Interface	Select the interface for the DDNS service.
Account Name	Enter the account name of your DDNS account. You can click Go to register to visit the official website of Comexe to register an account.
Password	Enter the password of your DDNS account.
Update Interval	Specify the Update Interval that the device dynamically updates IP addresses for registered domain names.
Status	Check the box to enable the DDNS service.

3) View the DDNS status.

Figure 2-4 View the Status of Comexe DDNS

Comexe + Add - Delete

<input type="checkbox"/>	ID	Interface	Account Name	Update Interval	Status	Service Status	Domain Name	Operation
<input type="checkbox"/>	1	WAN1	user1	6 hours	Enabled ✖	Connecting	---	

Status Displays whether the corresponding DDNS service is enabled.

Service Status Displays the current status of DDNS service.

Offline: DDNS service is offline.

Connecting: DDNS client is connecting to the server.

Online: DDNS is working normally.

Incorrect account name or password: The account name or password is incorrect.

Domain Name Displays the Domain Names obtained from the DDNS server.

2.3 Configure and View DynDNS

Choose the menu **Service > Dynamic DNS > DynDNS** and click **Add** to load the following page.

Figure 2-5 Configure DynDNS

<input type="checkbox"/>	ID	Interface	Account Name	Update Interval	Status	Service Status	Domain Name	Operation
--	--	--	--	--	--	--	--	--

Interface:

Account Name: [Go to register](#)

Password:

Domain Name:

Update Interval:

Status: Enable

Follow these steps to configure DynDNS.

- 1) Click **Go to register** to visit the official website of DynDNS and register an account and a domain name.
- 2) Configure the following parameters and click **OK**.

Interface	Select the interface for the DDNS service.
Account Name	Enter the account name of your DDNS account. You can click Go to register to visit the official website of DynDNS to register an account.
Password	Enter the password of your DDNS account.
Domain Name	Specify the domain name that you registered with your DDNS service provider.
Update Interval	Specify the Update Interval that the device dynamically updates IP addresses for registered domain names.
Status	Check the box to enable the DDNS service.

- 3) View the DDNS status.

Figure 2-6 View the Status of DynDNS

DynDNS + Add - Delete

<input type="checkbox"/>	ID	Interface	Account Name	Update Interval	Status	Service Status	Domain Name	Operation
<input type="checkbox"/>	1	WAN1	user1	6 hours	Enabled ✖	Connecting	domainname1.com	

Status	Displays whether the corresponding DDNS service is enabled.
---------------	-------------------------------------------------------------

Service Status	<p>Displays the current status of DDNS service.</p> <p>Offline: DDNS service is offline.</p> <p>Connecting: DDNS client is connecting to the server.</p> <p>Online: DDNS is working normally.</p> <p>Incorrect account name or password: The account name or password is incorrect.</p> <p>Incorrect domain name: The domain name is incorrect.</p>
Domain Name	<p>Displays the Domain Names obtained from the DDNS server.</p>

2.4 Configure and View NO-IP DDNS

Choose the menu **Service > Dynamic DNS > NO-IP** and click **Add** to load the following page.

Figure 2-7 View NO-IP DDNS

<input type="checkbox"/>	ID	Interface	Account Name	Update Interval	Status	Service Status	Domain Name	Operation
--	--	--	--	--	--	--	--	--

Interface:

Account Name: [Go to register](#)

Password:

Domain Name:

Update Interval:

Status: Enable

Follow these steps to configure NO-IP DDNS.

- 1) Click **Go to register** to visit the official website of NO-IP and register an account and a domain name.
- 2) Configure the following parameters and click **OK**.

Interface	Select the interface for the DDNS service.
Account Name	Enter the account name of your DDNS account. You can click Go to register to visit the official website of NO-IP to register an account.
Password	Enter the password of your DDNS account.
Domain Name	Specify the domain name that you registered with your DDNS service provider.

Update Interval	Specify the Update Interval that the device dynamically updates IP addresses for registered domain names.
Status	Check the box to enable the DDNS service.

3) View the DDNS status.

Figure 2-8 View the Status of NO-IP DDNS

NO-IP

+ Add - Delete

<input type="checkbox"/>	ID	Interface	Account Name	Update Interval	Status	Service Status	Domain Name	Operation
<input type="checkbox"/>	1	WAN1	user1	6 hours	Enabled ✘	Connecting	domainname1.com	

Status	Displays whether the corresponding DDNS service is enabled.
Service Status	<p>Displays the current status of DDNS service.</p> <p>Offline: DDNS service is offline.</p> <p>Connecting: DDNS client is connecting to the server.</p> <p>Online: DDNS is working normally.</p> <p>Incorrect account name or password: The account name or password is incorrect.</p> <p>Incorrect domain name: The domain name is incorrect.</p>
Domain Name	Displays the Domain Names obtained from the DDNS server.

3 UPnP Configuration

Choose the menu **Service > UPnP** to load the following page.

Figure 3-1 Configure UPnP Function

General

Enable UPnP

Interface: ---

UPnP Portmap List

- Delete + Refresh

<input type="checkbox"/>	ID	Description	Protocol	Interface	IP Address	External Port	Internal Port	Status	Operation
<input type="checkbox"/>	--	--	--	--	--	--	--	--	--

Follow these steps to configure UPnP function:

- 1) In the **General** section, enable the UPnP function and select the interface. Then click **Save**.

Enable UPnP	Check the box to enable the UPnP function.
Interface	Select the interface for the UPnP function.

- 2) (Optional) In the **UPnP Portmap List** section, view the portmap list.

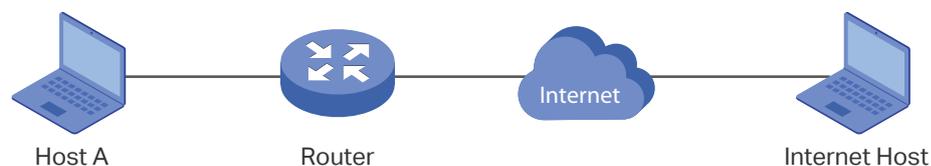
Description	Displays the description of the application using UPnP protocol.
Protocol	Displays the protocol type used in the process of UPnP.
Interface	Displays the interface used in the process of UPnP.
IP Address	Displays the IP address of the local host.
External Port	Displays the external port that is opened for the application by the router.
Internal Port	Displays the internal port that is opened for the application by the local host.
Status	Displays the status of the corresponding UPnP entry. Enabled: The mapping is active. Disabled: The mapping is inactive.

4 Configuration Example for Dynamic DNS

4.1 Network Requirement

Host A gets internet services from an ISP (Internet Service Provider) via a PPPoE dial-up connection. The user wants to visit the router's web management interface using another host on the internet.

Figure 4-1 Network Topology



4.2 Configuration Scheme

For security management, the internet hosts attempting to manage the router must be permitted by the router. Remote Management is used to manage the IP addresses of these hosts.

Because the user uses PPPoE to access to the network, the public IP address of the router may be changed each time the dial-up connection is established. When the public IP address of the router changes, DDNS service ensures the DNS server rebinds the current domain name to the new IP address. This means the user can always reach the router using the same domain name, even if the public IP address has been changed.

4.3 Configuration Procedure

4.3.1 Specifying the IP Address of the Host

Before configuring DDNS, it is required to specify the IP address of the internet host for remote management. For details, go to **System Tools > Admin Setup > Remote Management** page.

4.3.2 Configuring the DDNS function

There are four DDNS servers supported by the router, we take Peanuthull DNS as an example here.

- 1) Choose the menu **Services > Dynamic DNS > Peanuthull** and click **Add** to load the following page. Click **Go to register** to register a domain name on the official website of Peanuthull.

Figure 4-2 Registering a Domain Name

Peanuthull

+ Add - Delete

<input type="checkbox"/>	ID	Interface	Account Name	Update Interval	Status	Service Status	Domain Name	Service Type	Operation
--	--	--	--	--	--	--	--	--	--

Interface:

Account Name: [Go to register](#)

Password:

Update Interval:

Status: Enable

- 2) Set the Interface as WAN1, set the Update Interval as 6 hours, and enter the Account Name and Password previously registered before. Click **OK**.

Figure 4-3 Specifying Peanuthull DDNS Parameters

Peanuthull

+ Add - Delete

<input type="checkbox"/>	ID	Interface	Account Name	Update Interval	Status	Service Status	Domain Name	Service Type	Operation
--	--	--	--	--	--	--	--	--	--

Interface:

Account Name: [Go to register](#)

Password:

Update Interval:

Status: Enable