DWR-925W user manual

Table of Contents

1. Starting Setup in the Web UI

It is easy to configure and manage the DWR-925W with the web browser.

Step1. To access the configuration utility, open a web-browser and enter thedefault IP address http://192.168.0.1in the web address field of the browser.

After a moment, a login window will appear. Enter **admin** for the User Name and Password, both in lower case letters. Then click the **Log In** button or press the **Enter** key.

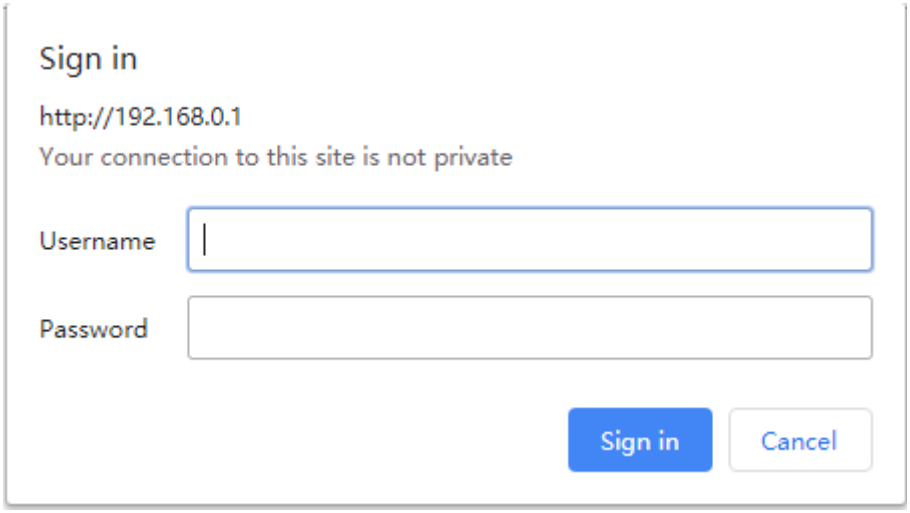


Figure 1-1 Login Window

Default IP Address: **192.168.0.1**

Default User Name: **admin**

Default Password: admin

2. button

Object	Description
Add	Add entry or config info.
Mod	Edit config
Del	Delect entry
View	View status
En	Enable this function
Dis	Disable this functon
Enable	Enable this function
Disable	Disable this functon

3. Status

3.1. Basic Info

On this page, you can view information about the Internet status of the DWR-925W, include modem1 modem 2, lan,wan information.

3.2. Device Info

You can view base information about DWR-925W.

Product Type:	DWR-925W
Device ID:	001122334455
MAC Address:	001122334455
Hardware Version:	DWR-925W_A1
Software Version:	DWR-925W_A1_1.0.0_20191101
System Up Time	0 days, 13 hours, 33 mins, 53 secs

Refresh

3.3. Clients List

This page shows the IP addresses and host names of all the PCs in your network

Client List

client name	IP Address	MAC Address
----	192.168.0.101	08:57:00:ec:45:c0

Refresh

3.4. Routing Table

This page shows the system route info , include manual configuration static route and policy route

Static Route

Network	Subnet Mask	Gateway	Interface	Metric
192.168.0.0	255.255.255.0	0.0.0.0	br0	0

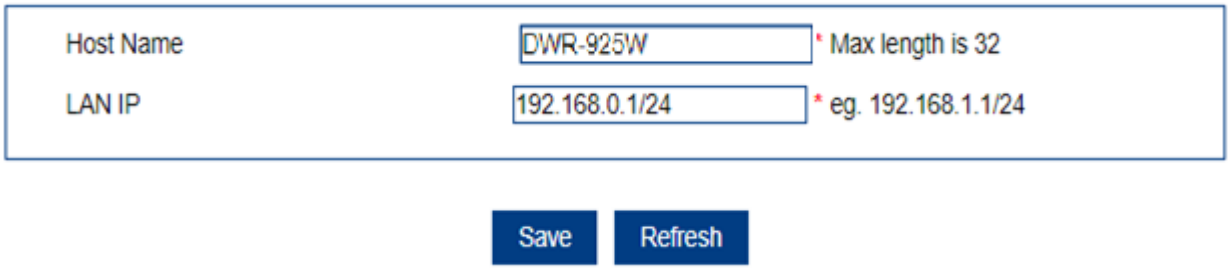
Policy Route

Network	Subnet Mask	Gateway	Interface	Priority

4. Network

4.1. Lan

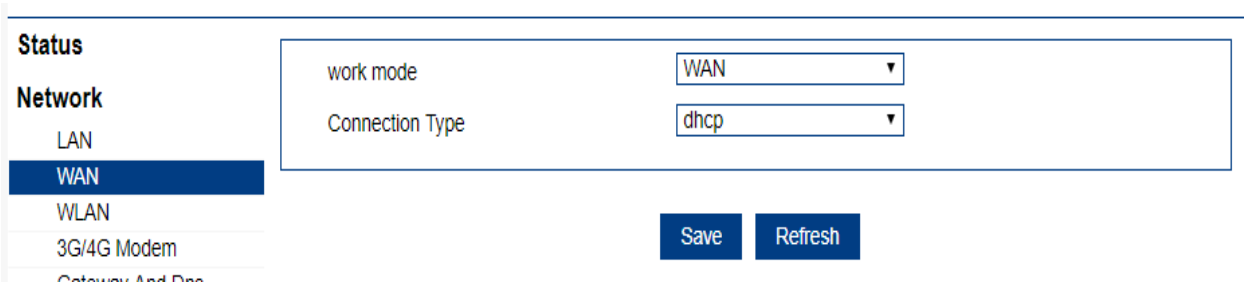
On this page, you can configure the local network for router.



Object	Description
Host Name	Router show host name inf dhcp.
LAN IP	Local network.

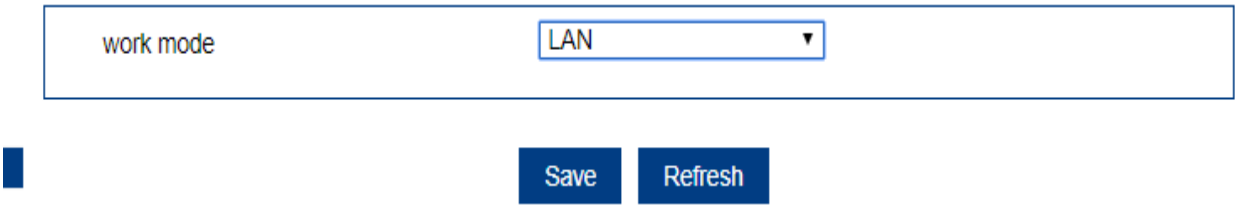
4.2. Wan

On this page, you can configure the parameters of the WAN interface.



4.2.1 lan mode

When select lan mode, the wan port will work as a lan port. And select wan mode , you can configure Dhcp , pppoe ,static ip for wan port.



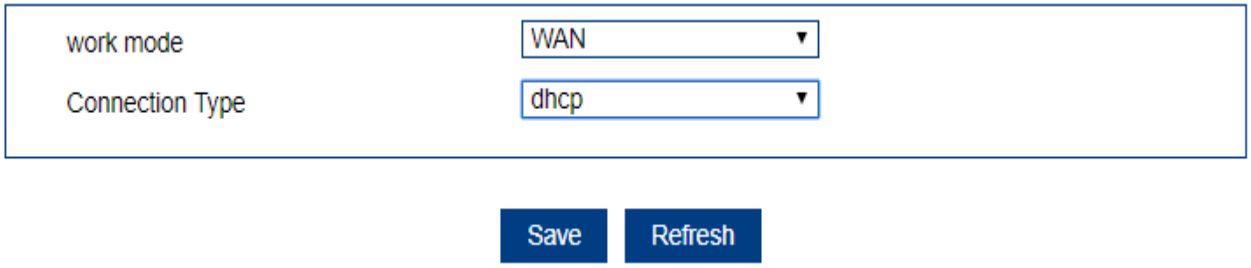
4.2.2 WAN mode

wan connection can be configured as difference mode, such as

DHCP router mode, PPPoE router mode, Static router mode, this will more helpful for user to meet different environment usage.

4.2.3 DHCP

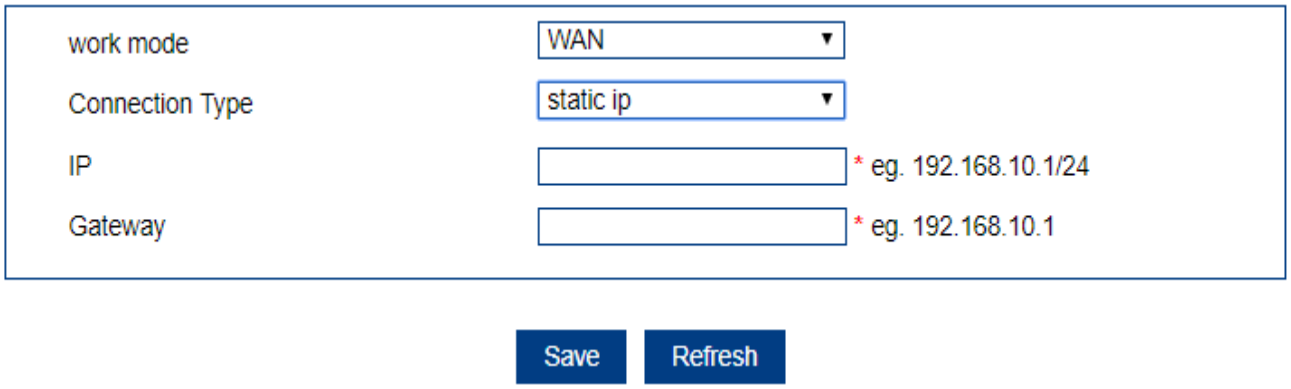
Choose “**DHCP**” and the router will automatically obtain IP addresses, subnet masks and gateway addresses from your ISP.



4.2.4 Static IP

If your ISP offers you static IP Internet connection type, select “**Static IP** " and then enter IP address, subnet mask, provided by your ISP in the corresponding fields.

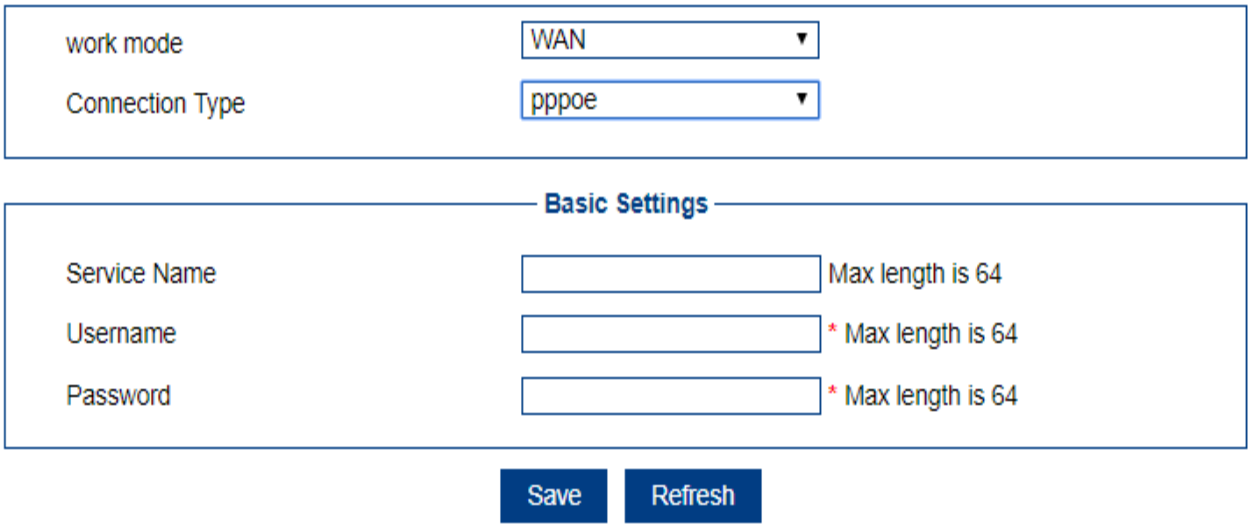
Note:primary DNS and secondary DNS information and gateway you need to separate configuration on menu of Gateway And Dns.



Object	Description
IP	Enter the WAN IP address/Subnet Maskprovided by your ISP. Inquire your ISP ifyou are not clear.
Gateway	Enter the WAN Gateway IP address provided by your ISP. Inquire your ISP ifyou are not clear.

4.2.5 PPPoE

Select **PPPoE**, if your ISP is using a PPPoE connection and provide you with PPPoE user name and password information.



Object	Description
Username	Enter the User Name provided by your ISP.
Password	Enter the password provided by your ISP.
Service Name	Type the name of this router.

4.3. WLAN

4.3.1 2.4G WLAN

WLAN interface	Main Guest

WLAN Status	Enable Disable

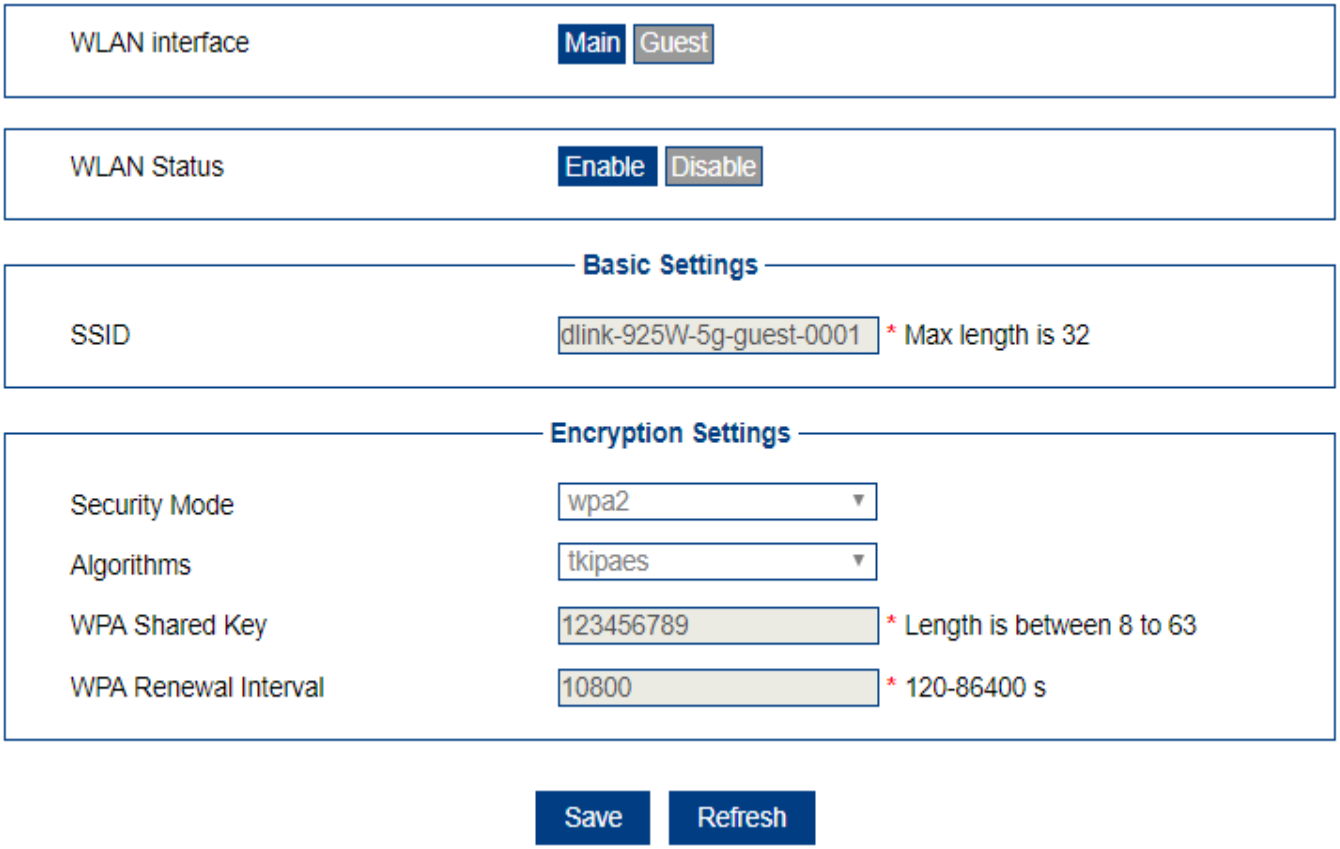
Basic Settings

SSID	dlink-925W-2.4g-0001 * Max length is 32
Wireless Mode	ap
Network Mode	bgn
Channel	auto
Bandwidth	20mhz
AP Isolate	Enable Disable
Broadcast Status	Enable Disable

Encryption Settings

Security Mode	wpa2
Algorithms	aes
WPA Shared Key	123456789 * Length is between 8 to 63
WPA Renewal Interval	10800 * 120-86400 s

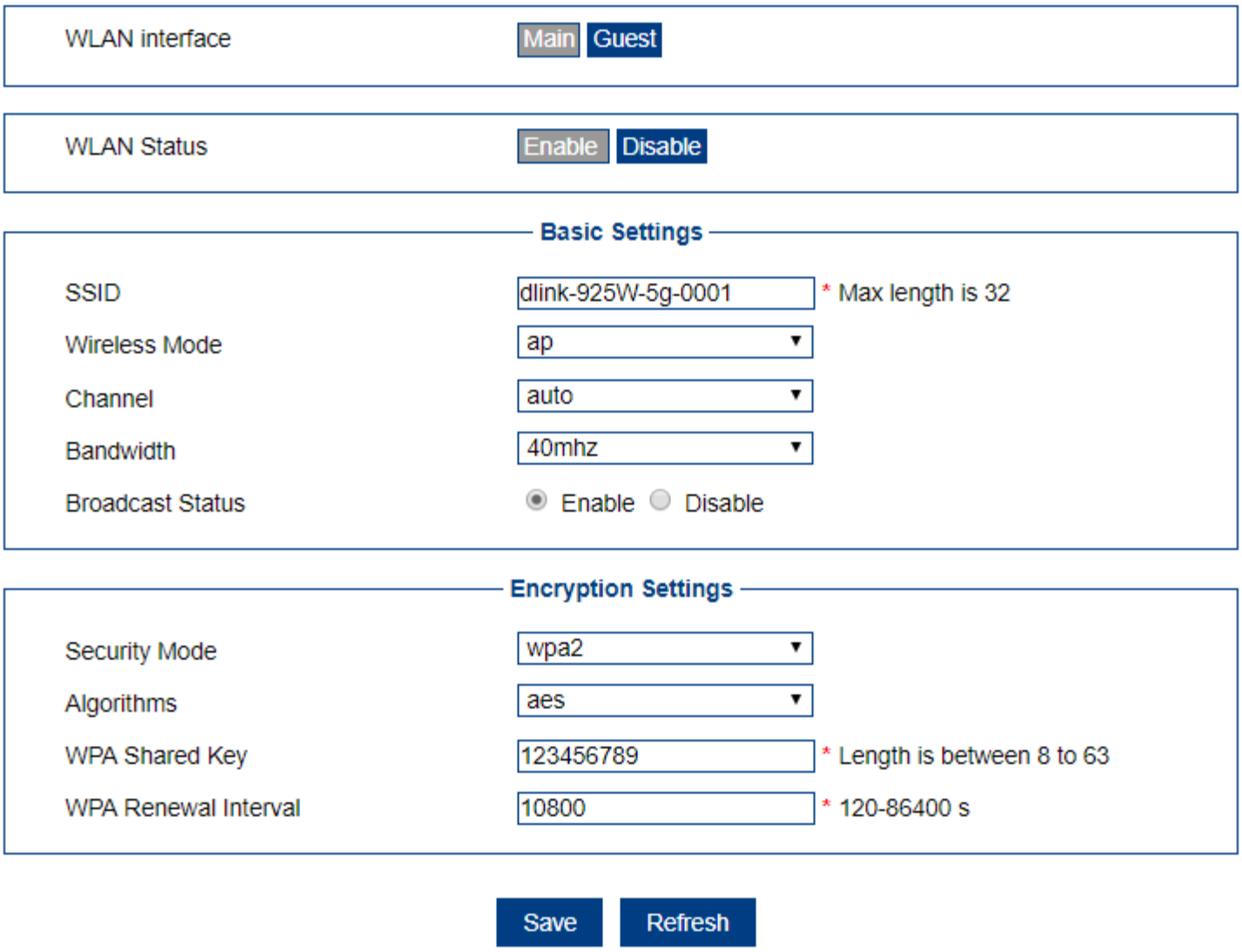
Save Refresh



Object	Description
WLAN interface	You may choose to Main or Guest interface, If selecet Guest interface,the Channel, Wireless mode and Bandwidth must be the same as the Main interface
Enable	You may choose to enable or disable Wireless function.
SSID(Wi-Fi Name)	Set a name (SSID) for your wireless network. The ID of the wireless network. User can access the wireless network through it only. However, if you switch to Client Mode, this fieldbecomes the SSID of the AP you want to connectwith. Default: **DWR-925W-2.4G-XXXX** **("X" means the last 4 digits of the MAC address.)**
Wireless Mode	**Ap ,station or bridge mode.**
Network Mode	**IEEE 802.11 standardbgn ,bg, b**
Channel	For an optimal wireless performance, you may select the least interferential channel. It is advisable that you select an unused channel or "Auto" to let device detect and select the bestpossible channelforyourwirelessnetworktooperateonfromthe drop-down list.
Bandwidth	20mhz or 40mhz
AP Isolate	isolate data between wifi 2.4g and 5g
Broadcast Status	Broadcast ssid

Security Mode	Select the security mode from the **Security Mode** dropdown list. There are 3 options in the Security Mode dropdown list: ■ **disable** ■ **WPA** ■ **WPA2**
Algorithms	aes or tkip
WPA Shared Key	Enter the Wi-Fi password
WPA Renewal Interval	Key renew time

4.3.2 5G WLAN



WLAN interface: Main | Guest

WLAN Status: Enable | Disable

Basic Settings

SSID: dlink-925W-5g-guest-0001 * Max length is 32

Encryption Settings

Security Mode: wpa2

Algorithms: tkipaes

WPA Shared Key: 123456789 * Length is between 8 to 63

WPA Renewal Interval: 10800 * 120-86400 s

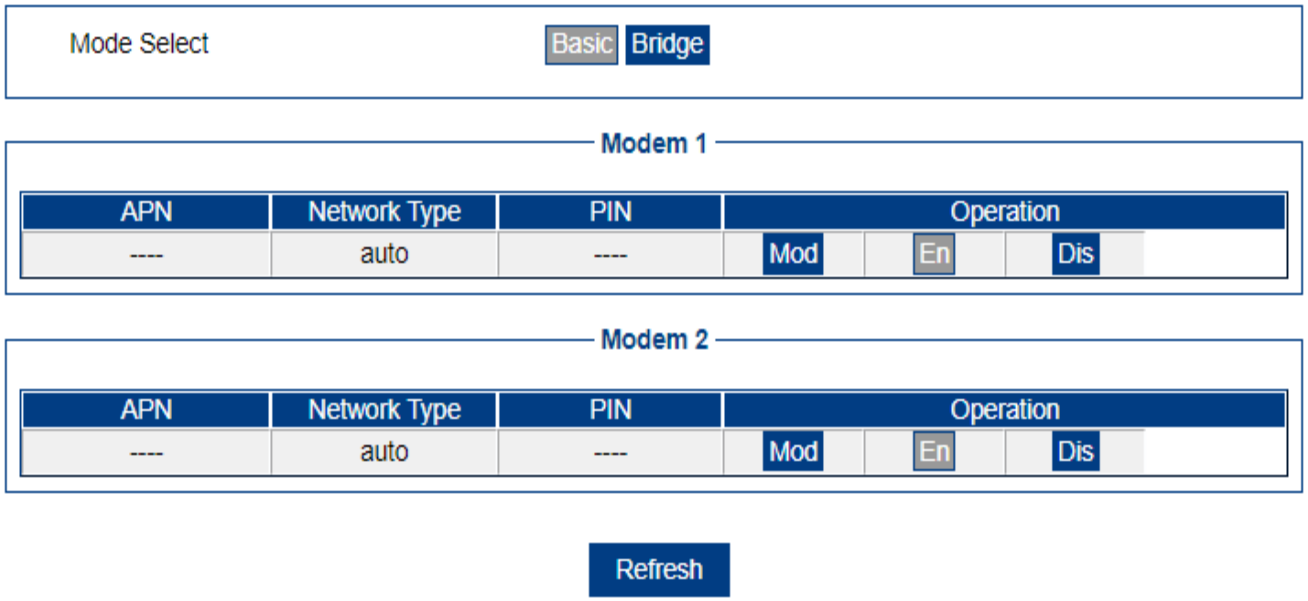
Save Refresh

Object	Description
WLAN interface	You may choose to Main or Guest interface, If selecet Guest interface,the Channel, Wireless mode and Bandwidth must be the same as the Main interface
Enable	You may choose to enable or disable Wireless function.
SSID(Wi-Fi Name)	Set a name (SSID) for your wireless network. The ID of the wireless network. User can access the wireless network through it only. However, if you switch to Client Mode, this fieldbecomes the SSID of the AP you want to connectwith. Default: **DWR-925W-5.8G-XXXX** **("X" means the last 4 digits of the MAC address.)**
Wireless Mode	**Ap ,station or bridge mode.**
Channel	For an optimal wireless performance, you may select the least interferential channel. It is advisable that you select an unused channel or "Auto" to let device detect and select the bestpossible channelforyourwirelessnetworktooperateonfromthe drop-down list.
Bandwidth	20mhz , 40mhz or 80mhz
Broadcast Status	Broadcast ssid
Security Mode	Select the security mode from the **Security Mode** dropdown list. There are 4options in the Security Mode dropdown list: ■ **wep** ■ **disable** ■ **WPA** ■ **WPA2**
Algorithms	aes or tkip
WPA Shared Key	Enter the Wi-Fi password
WPA Renewal Interval	Key renew time

4.4. 3G/4G Modem

4.4.1 Summary Info

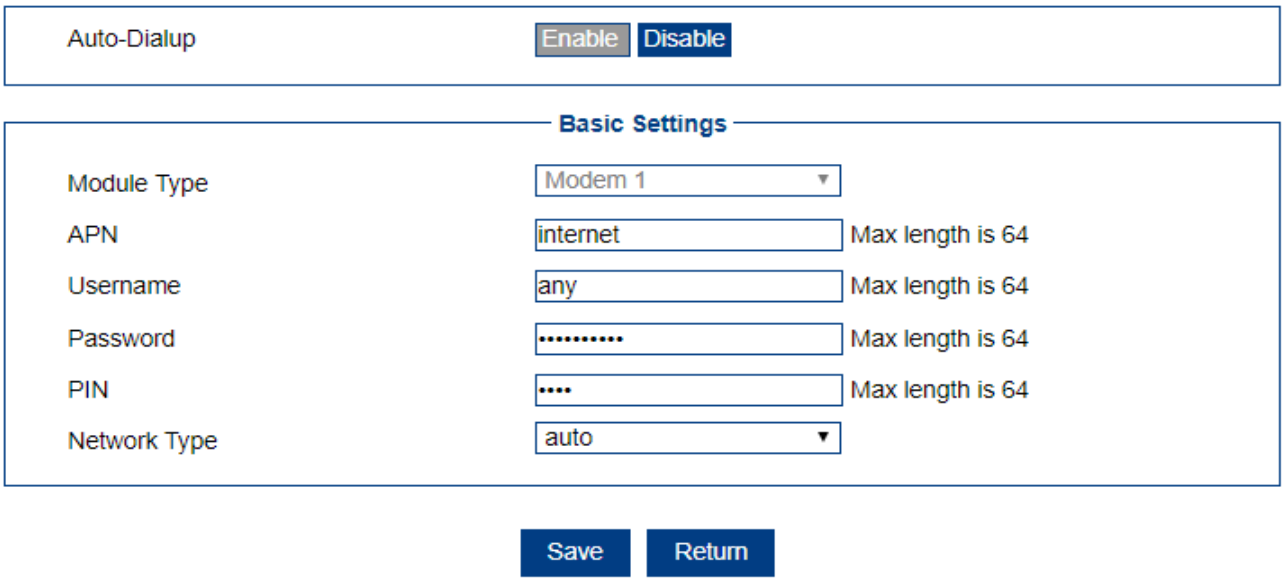
This page is used to configure the parameters for LTE network .


Mode Select
Basic
Bridge
Modem 1
APN
Network Type
PIN
Operation
----
auto

Mod
En
Dis
Modem 2
APN
Network Type
PIN
Operation
----
auto

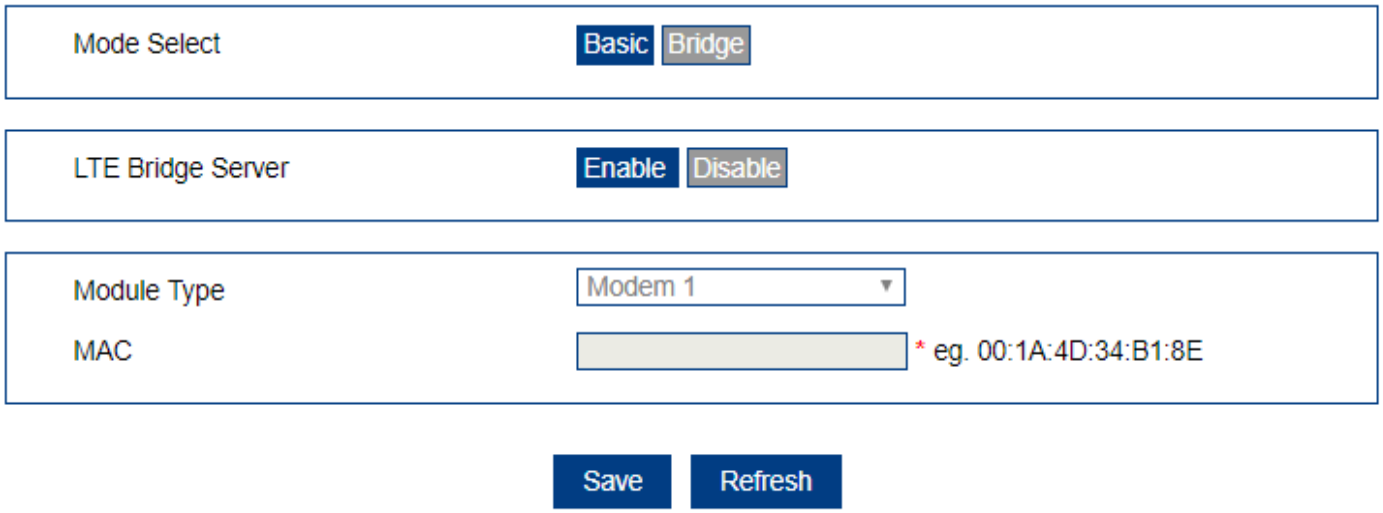
Mod
En
Dis
Refresh

4.4.2 Edit modem config



Object	Description
Enable	Enable or disabled mobile network
APN	Enter the APN from ISP. If not set ,system will try to auto get apn
Username	Enter the user name.
Password	Enter the password
PIN	If the SIM card has set PIN, please enter the PIN here.
Network Type	atuo ,lte, 3g,2g mode.

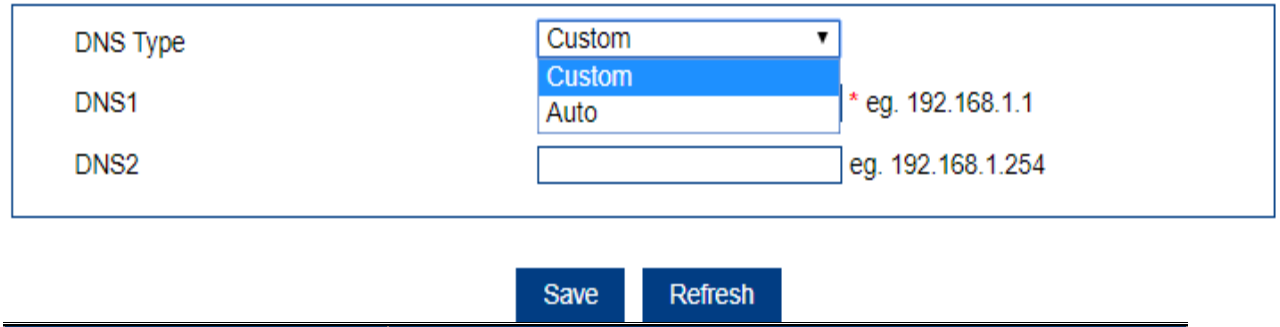
4.4.3 Edit modem bridge config



Object	Description
Enable	Enable or disabled mobile bridge network
Module Type	Which 4g interface is associated to select the bridge mode
MAC	The host Mac that needs to bridge the Internet, such as a PC, or a connected router

4.5. Dns

Select the system default gateway and dns infomation. This can manual setup static dns.

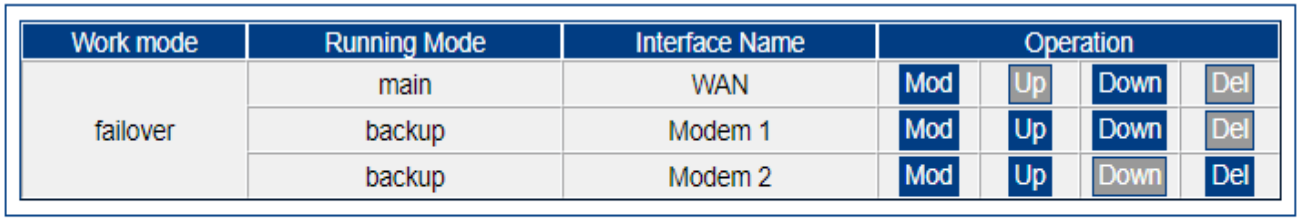


Object	Description
DNS Type	If auto , system dns will using default gateway wan'dns, Custom will manual set system dns
DNS1	Manual set system dns1
DNS2	Manual set system dns2

4.6. Link Backup

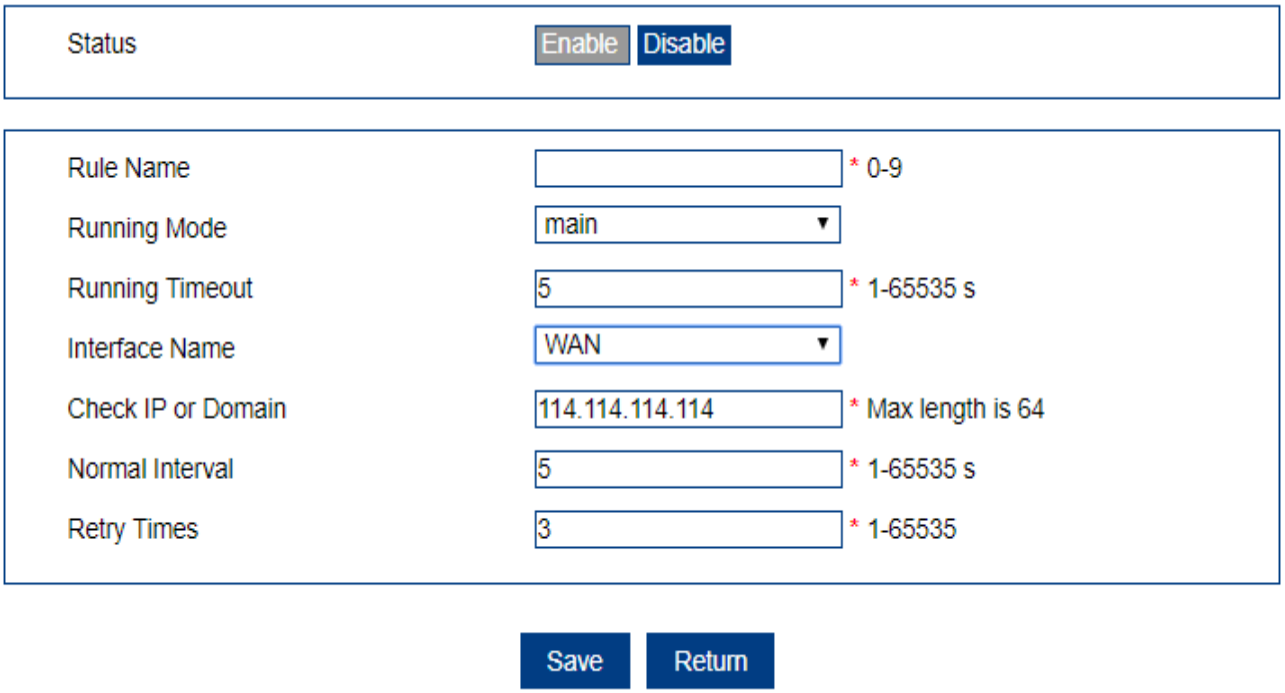
4.6.1 Summary Info

This page is used to display status information for muti wan network link backup.



4.6.2 Edit link backup config

This page is used to configure the parameters for muti wan network link backup .

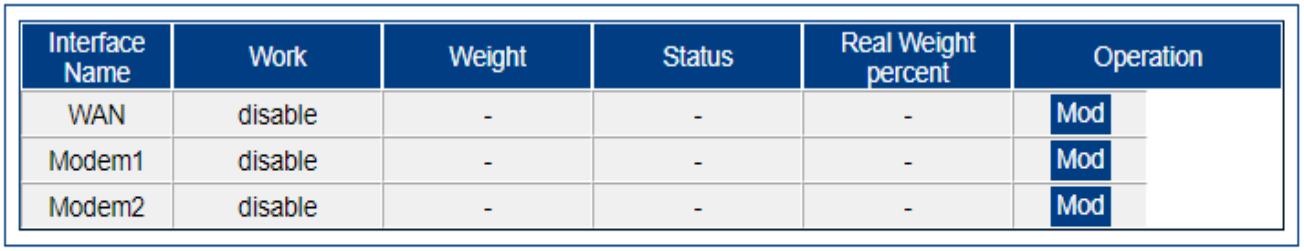


Object	Description
Rule name	Entry name.
Running Mode	Work as main or backup link.
Running Timeout	If the main link, the stable time of the main link; If for the backup link, said the link the shortest working hours.
Interface name	Which interface working
Check ip or domain	Icmp to check ip or domain
Normal interval	How long to a time
Retry times	Try fail times.

4.7. Load Balance

4.7.1 Summary Info

This page is used to display status information for Load Balanced.

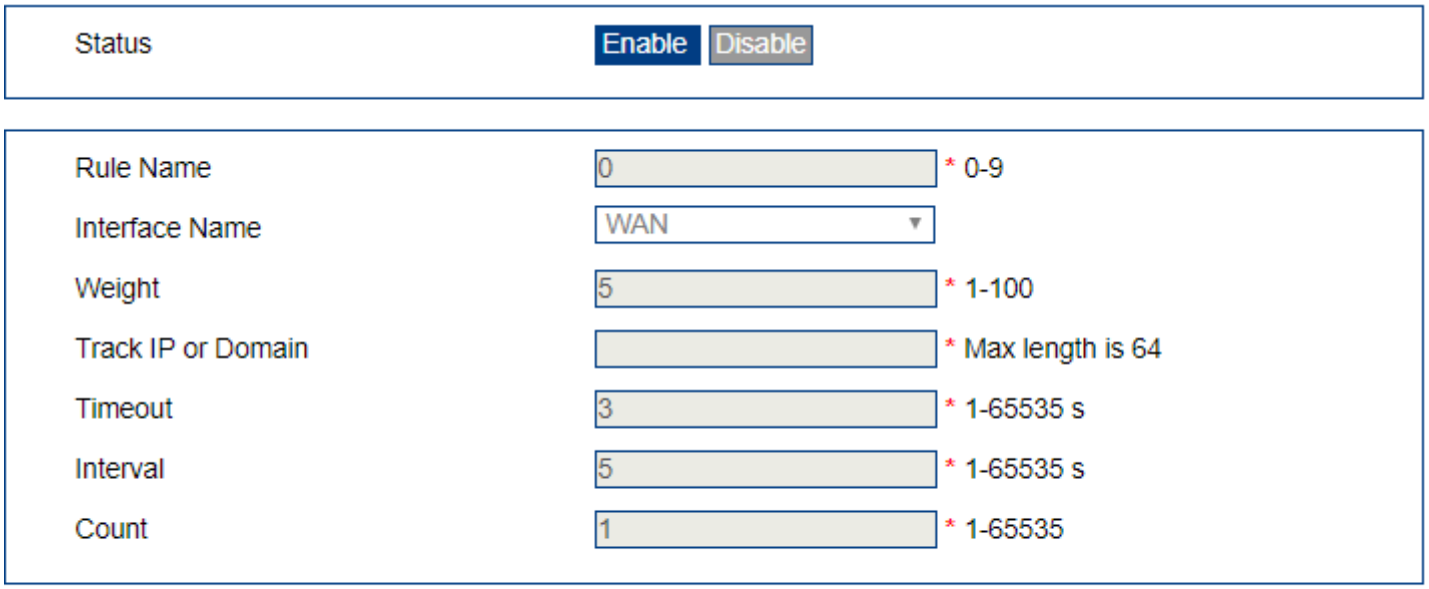


Interface Name	Work	Weight	Status	Real Weight percent	Operation
WAN	disable	-	-	-	Mod
Modem1	disable	-	-	-	Mod
Modem2	disable	-	-	-	Mod

Refresh

4.7.2 Edit Load Balance config

This page is used to configure the parameters for Load Balance config .



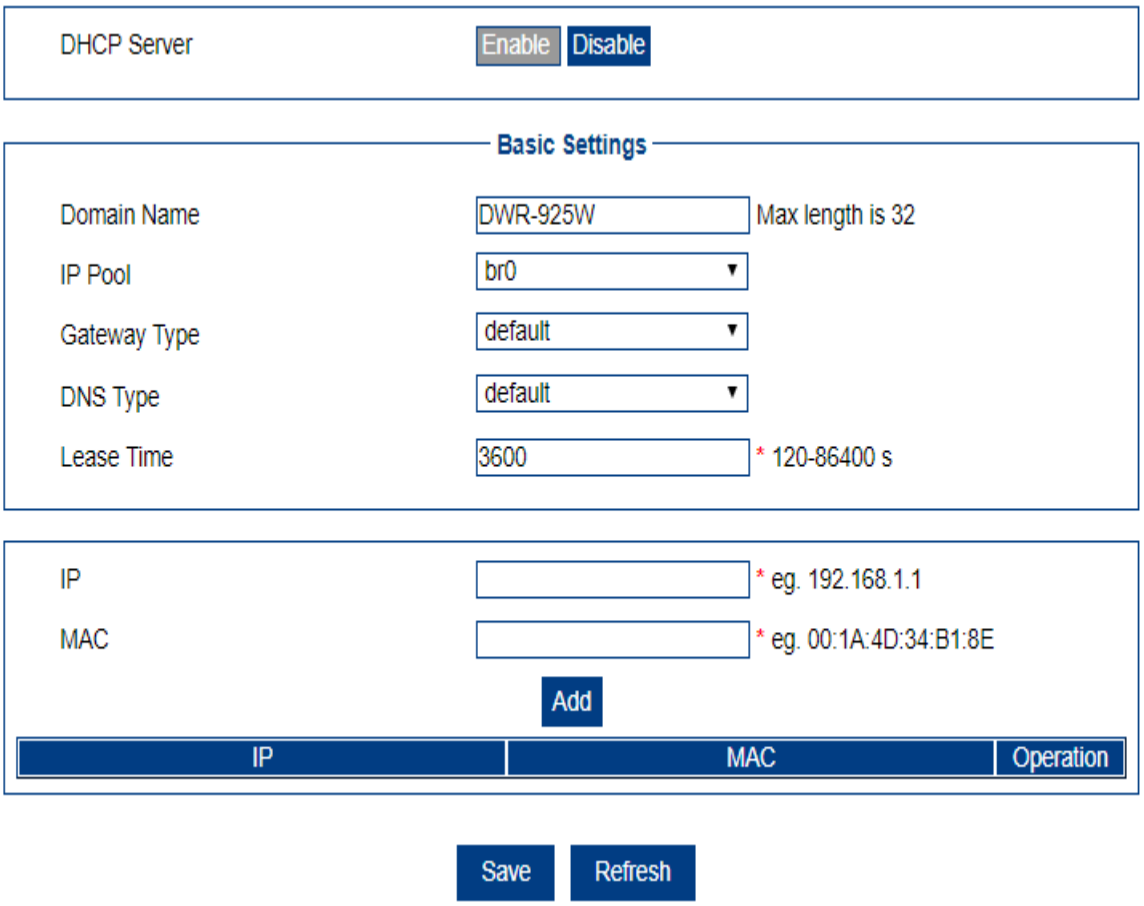
Save Return

Object	Description
Status	Enable or disabled Current network interface load balanaced
Rule name	Entry name.
Interface name	Which interface working
Weight	Setting current network interface weight load

	balanaced
Timeout	If the main link, the stable time of the main link; If for the backup link, said the link the shortest working hours.
ip or domain	Icmp to check ip or domain
interval	How long to a time
Count	Try fail times.

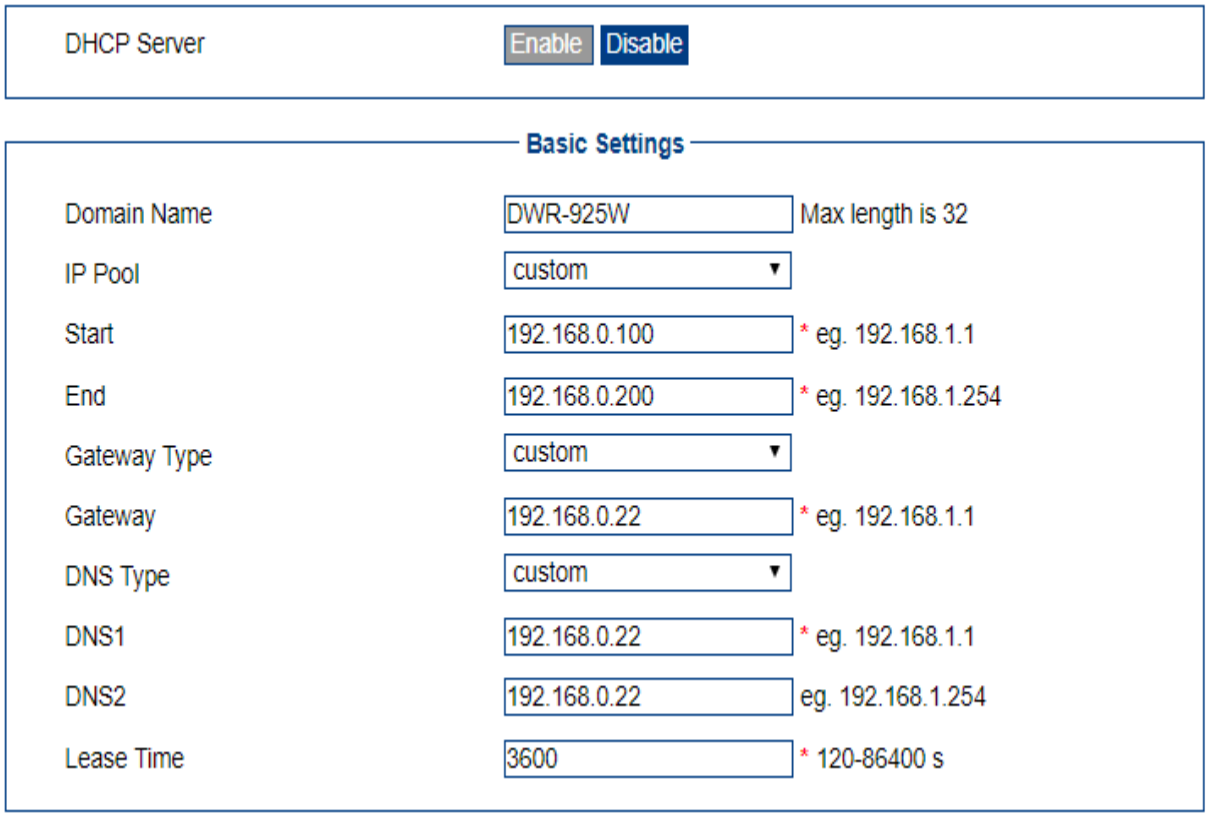
4.8. DHCP Server

4.8.1 static ip for devices.



Object	Description
Ip	Ip binding to mac.
MAC	Device of this Mac will give static ip

4.8.2 Custom dhcp server info

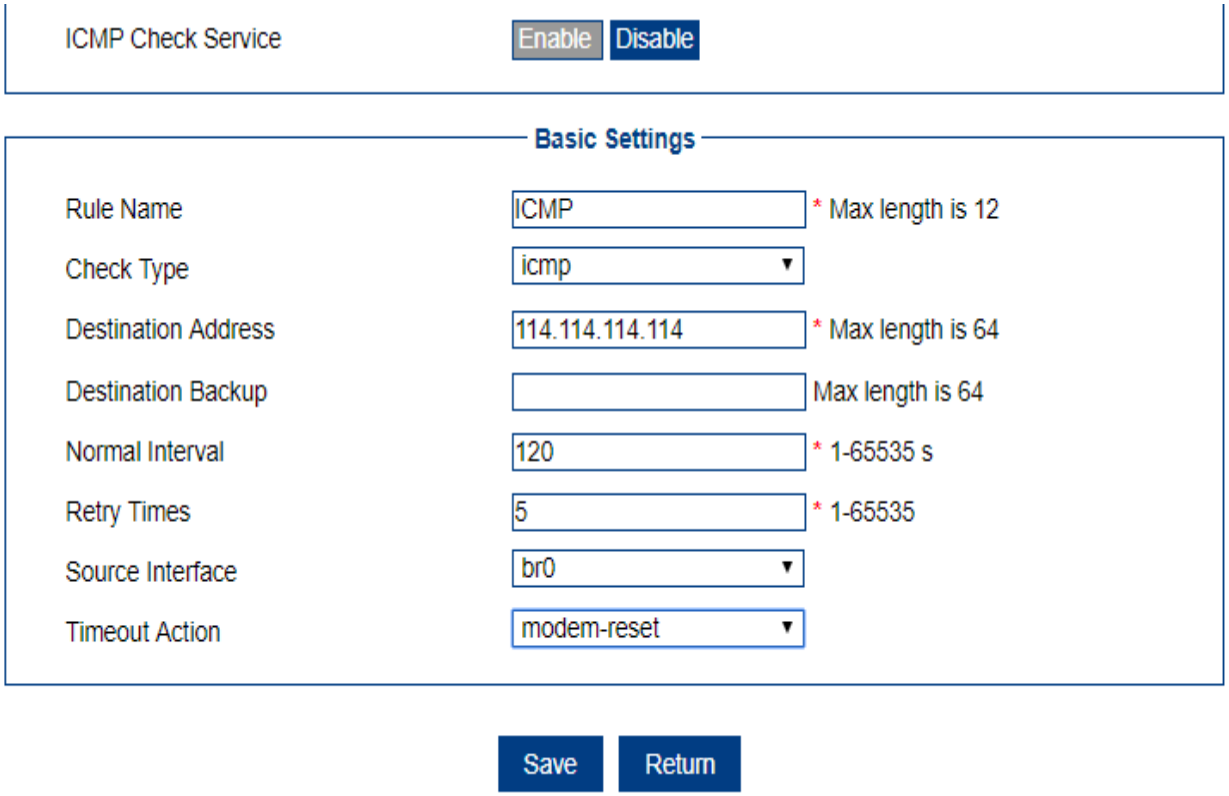


Object	Description
Ip Pool	custom
Start	Dhcp server pool start address
End	Dhcp server pool end address
Gateway Type	custom
Gateway	Dhcp Lease for devices gateway
DNS Type	custom
DNS1	Dhcp Lease for devices dns
DNS2	Dhcp Lease for devices dns
Lease Time	Dhcp lease time

5. Applications

5.1. ICMP Check

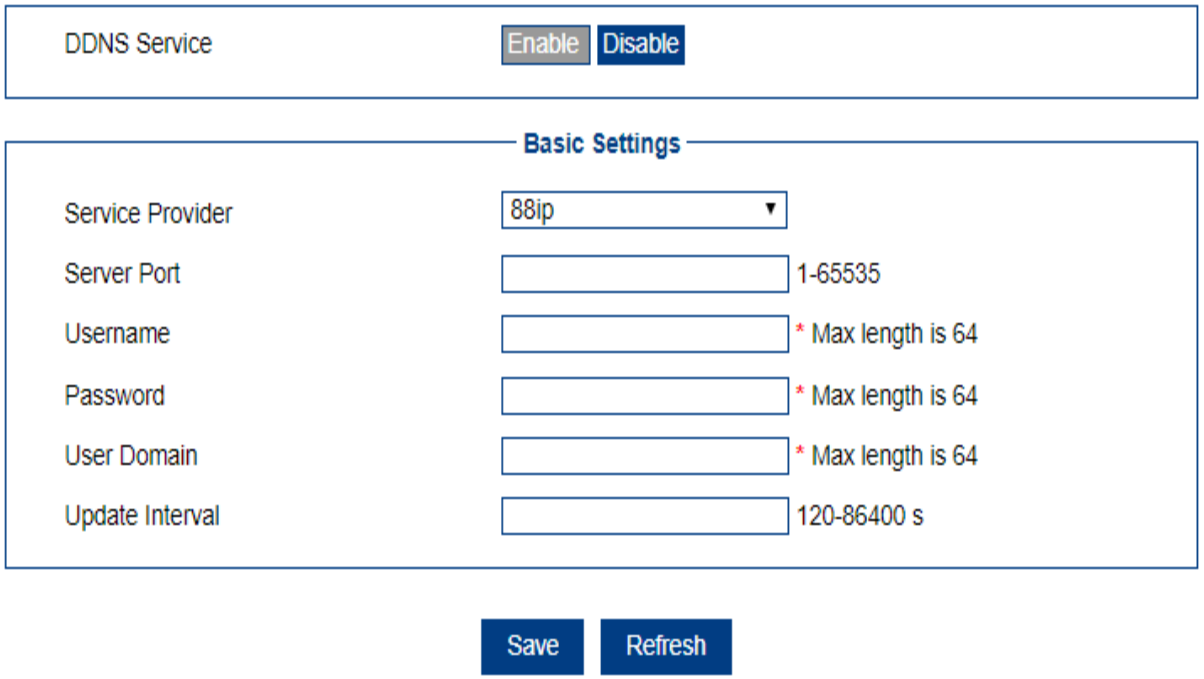
Icmp check network status and do action.



Object	Description
Rule Name	Entry name
Check Type	Icmp or domain
Destination Address	Ping main address
Destination Backup	If main address icmp fial , check backup address
Normal Interval	Ping period
Retry Times	Ping fail retry times
Source Interface	Check interface
Timeout Action	Executive action

5.2. Ddns

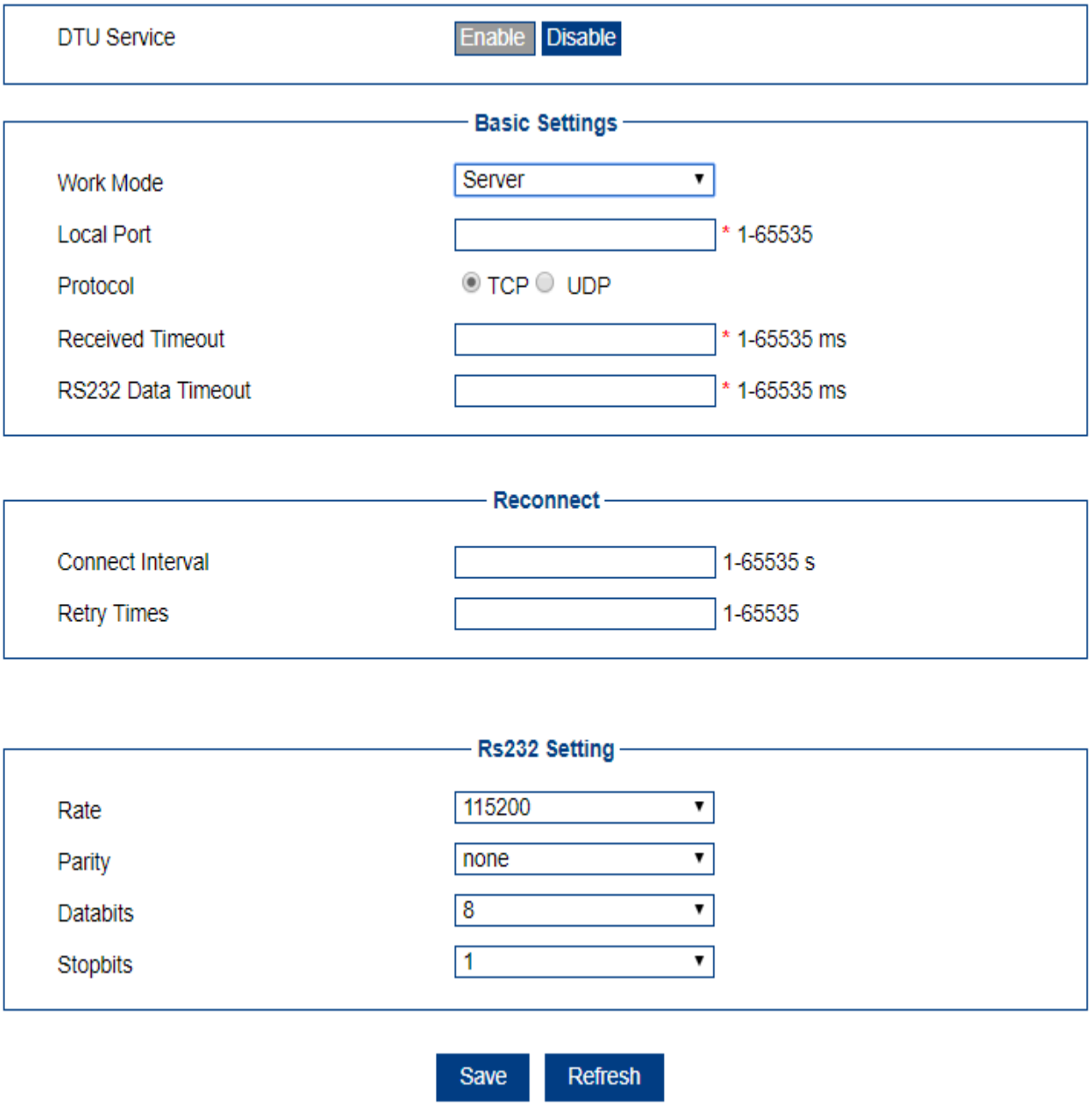
The dynamic DNS service allows a dynamic public IP address to be associated with a static host name in any of the many domains, and allows access to a specified host from various locations on the Internet.



Object	Description
Service Provider	Select server from the drop-down list
Server Port	port
Username	Server login username
Password	Server login password
User Domain	Domain need to translate
Update Interval	Period time to update

5.3. DTU

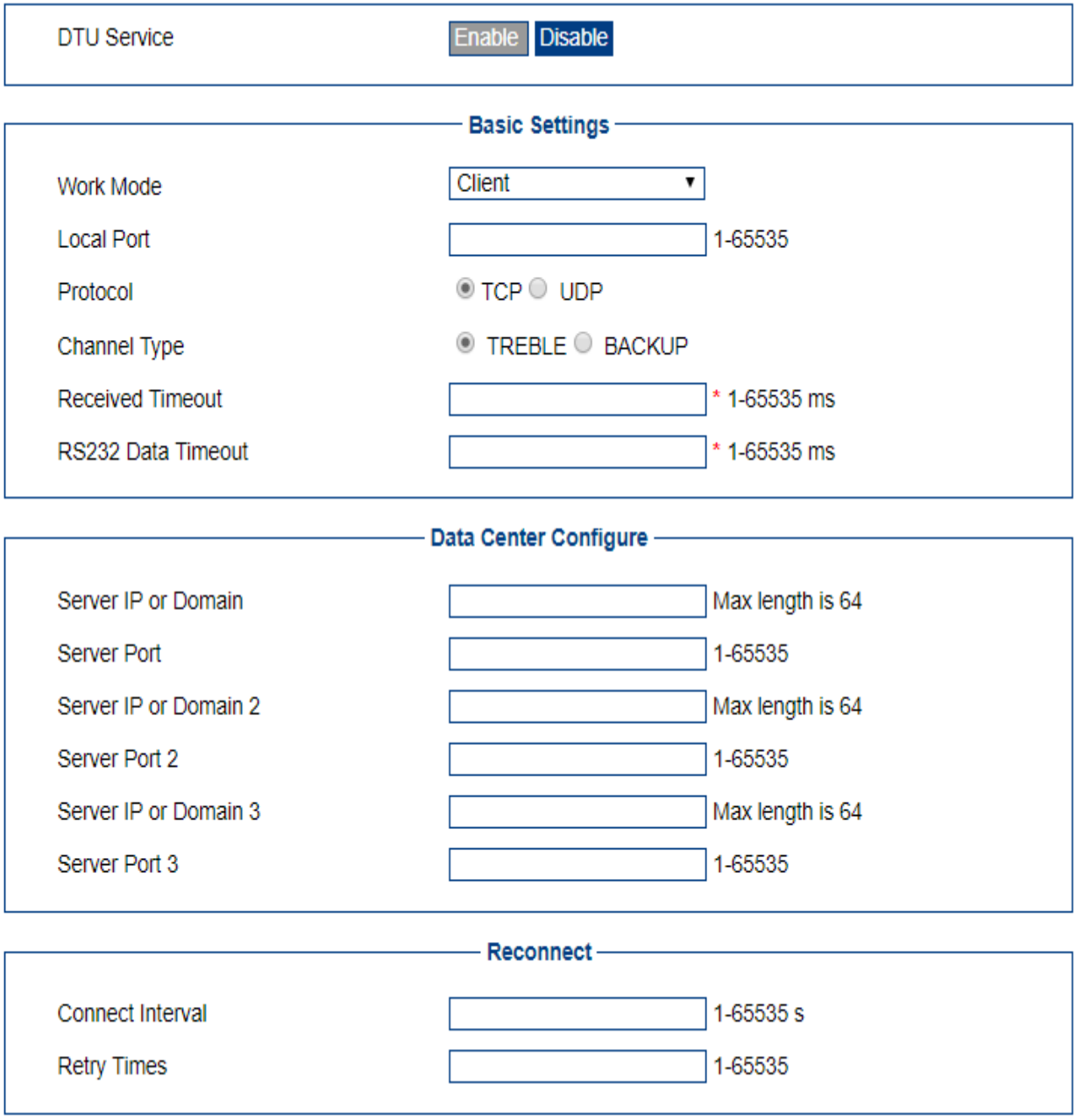
5.3.1 Dtu server work mode

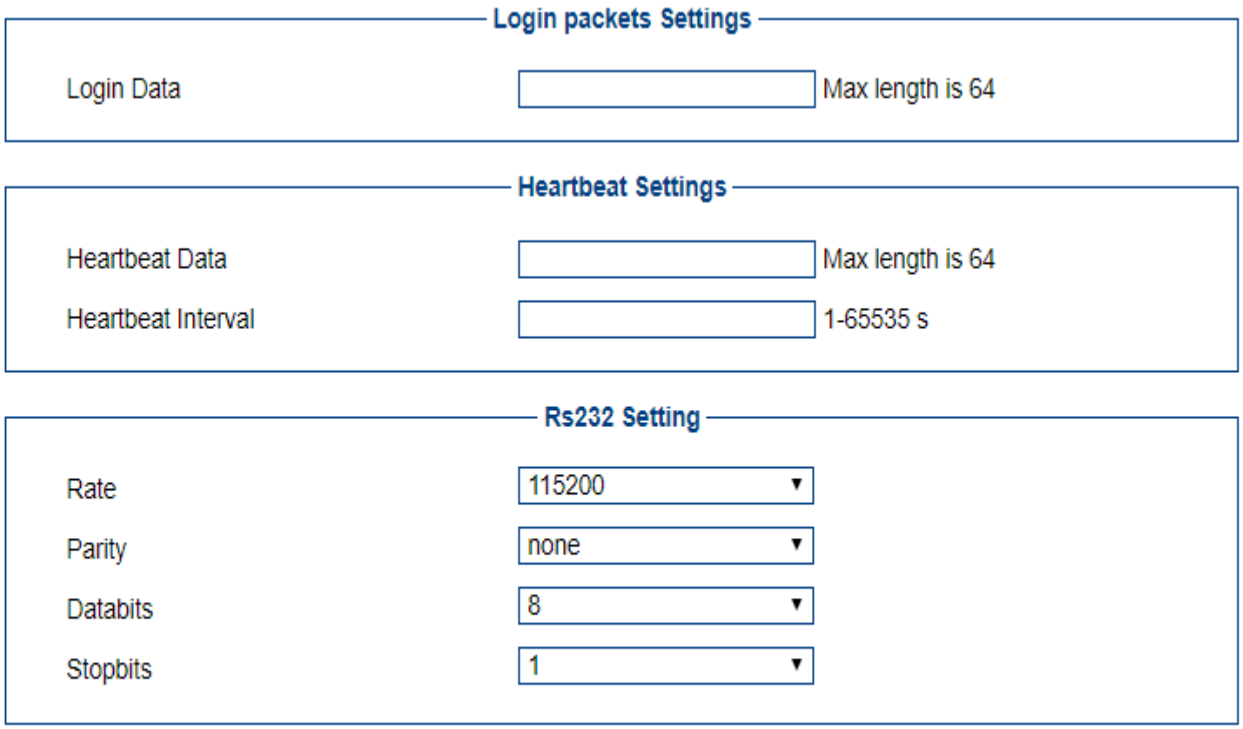


Object	Description
Work Mode	server
Local Port	Server work port
Protocol	Tcp or udp
Received Timeout	Data received timeout
RS232 Data Timeout	Serial port data received timeout
Connect Interval	Try interval time if fail.
Retry Times	Fail times
Rate	Serial port data rate

Parity	Serial port data parity
Databits	Serial port data databits
Stopbits	Serial port data stopbits

5.3.2 Dtu client work mode



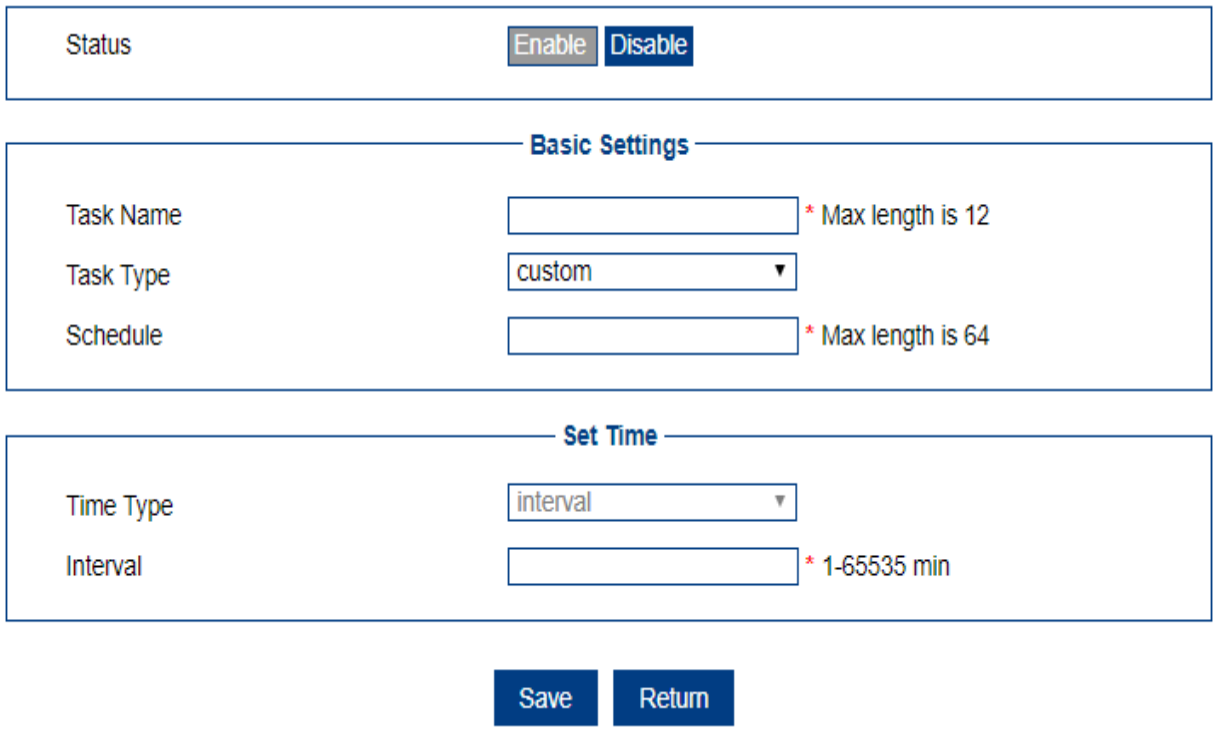


Object	Description
Work Mode	Client mode
Local Port	Client port
Protocol	Tcp or udp
Channel Type	Multi server type
Received Timeout	Data received timeout
RS232 Data Timeout	Serial port data received timeout
Server IP or Domain	Server 1 ip or domain
Server Port	Server 1 port
Server IP or Domain 2	Server 2 ip or domain
Server Port 2	Server 2 port
Server IP or Domain 3	Server 3 ip or domain
Server Port 3	Server 2 port
Connect Interval	Connect timeout
Retry Times	Fail retry times

Login Data	If server need login check
Heartbeat Data	Keep alive data
Heartbeat Interval	Keep alive time
Rate	Serial port data rate
Parity	Serial port data parity
Databits	Serial port data databits
Stopbits	Serial port data stopbits

5.4. Timing Task

This page is used to definition Timing task.

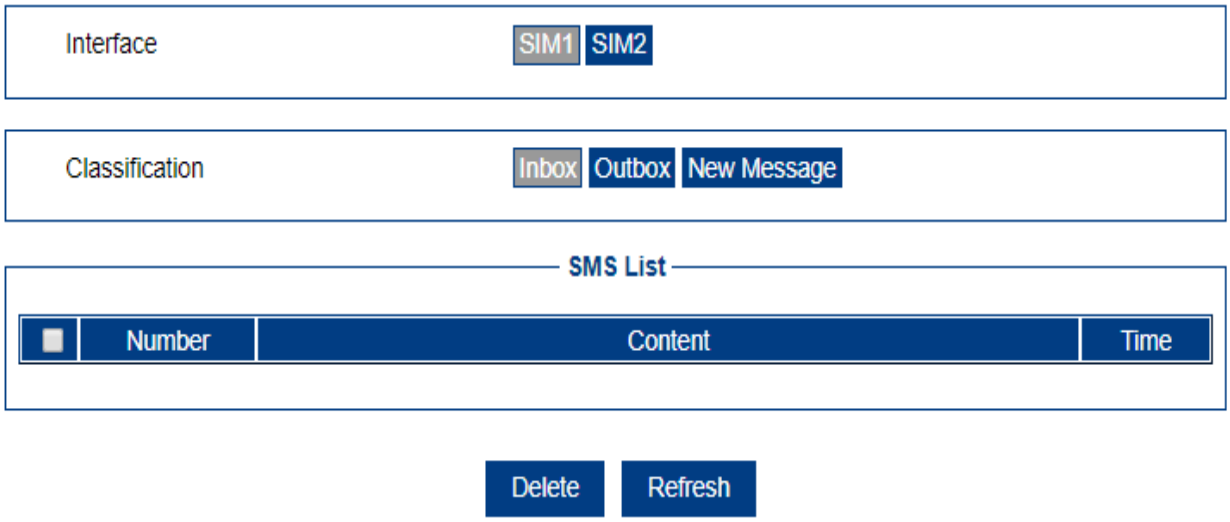


Object	Description
Task Name	name.
Task Type	Reboot or custom
Schedule	If select custom, manual set cmd to exc
Time Type	Time count
Interval	How many min will exc cmd

5.5. SMS

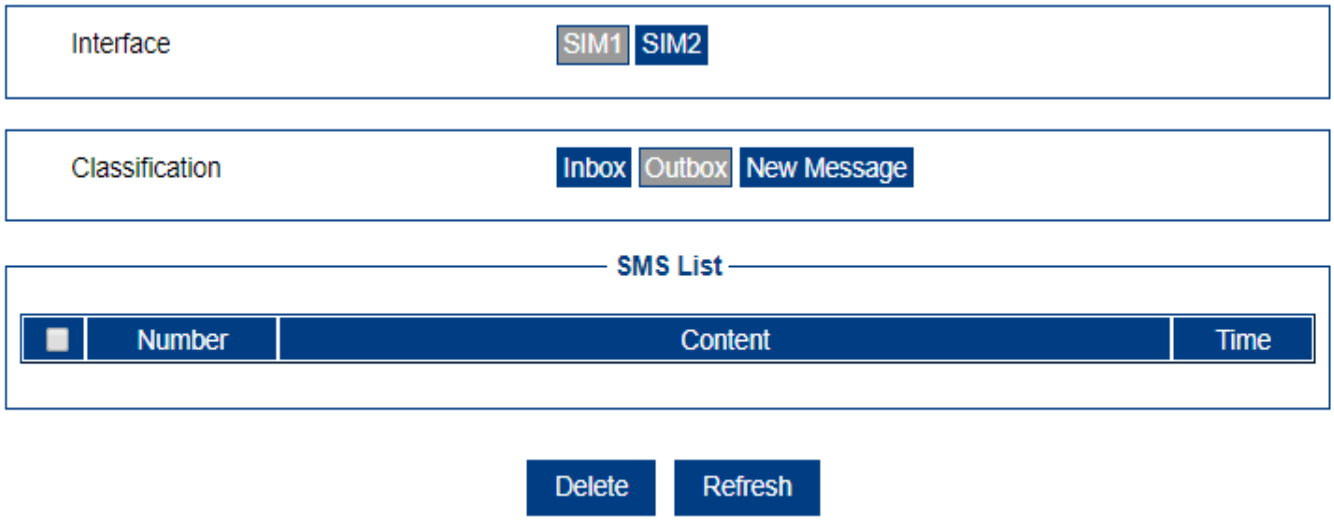
5.5.1 Inbox

This page is show inbox message for SMS.



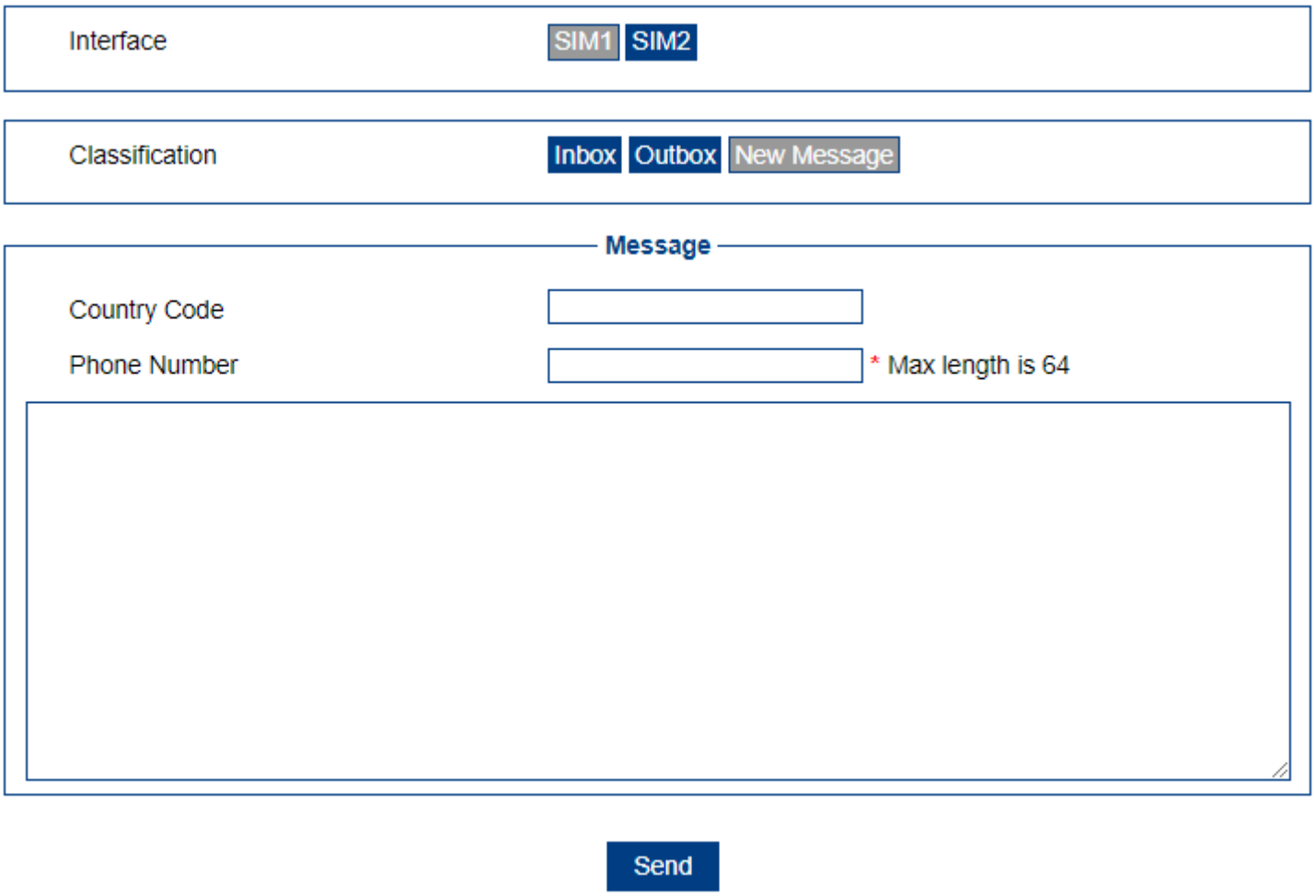
5.5.2 Outbox

This page is show Outbox message for SMS.



5.5.3 New Message

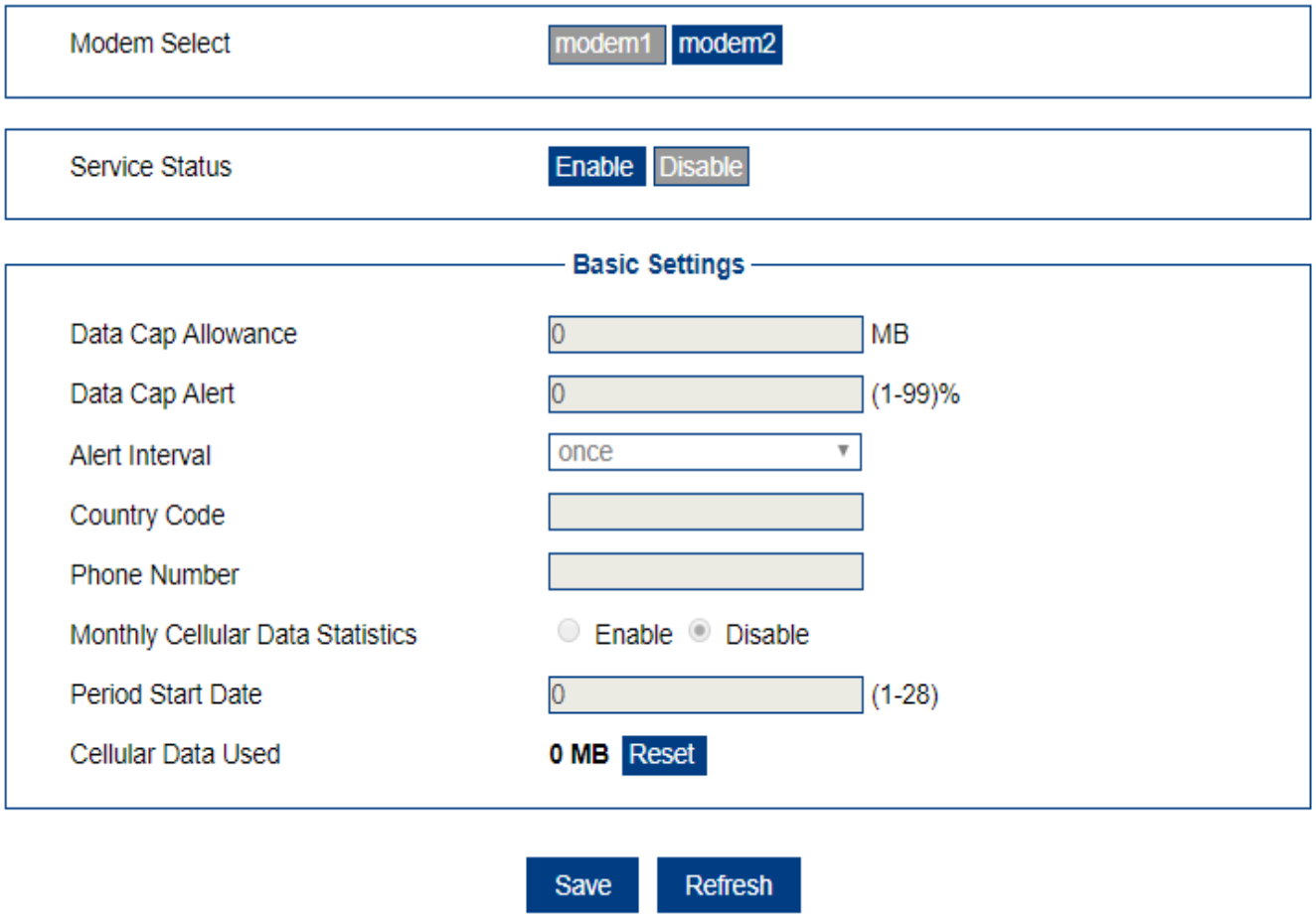
This page is send a new message for SMS.



Object	Description
Country Code	Enter the country code.
Phone Number	Enter the phone number.
Text Area	Enter content in text area.

5.6. Data Cap

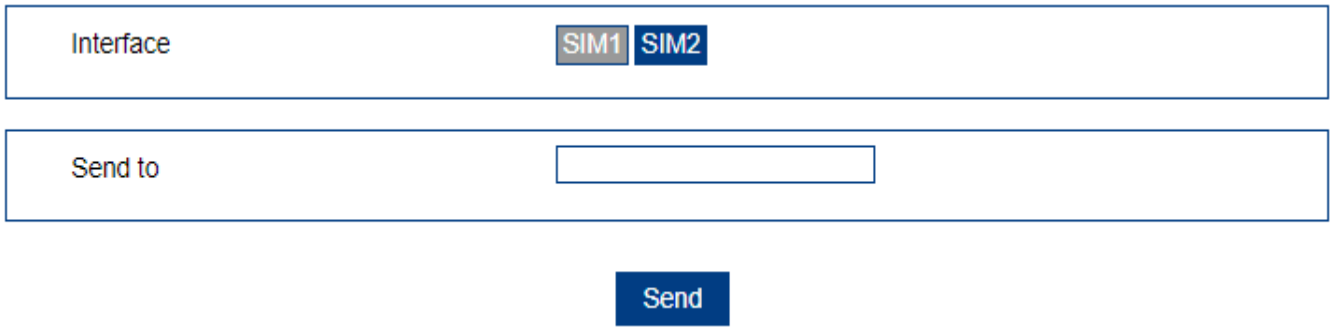
This page is used to definition Use Data cap.



Object	Description
Data Cap Allowance	Enter the maximum allowable cap value
Data Cap Alert	Enter the maximum allowable cap percentage
Alert Interval	Select once,once a day and once a week for power on alert interval
Country Code	Enter the country code
Phone Number	Enter the phone number
Monthly Cellular Data Statistics	Enable or disable Monthly Cellular Data Statistics
Period Start Date	Which days for period start Date
Cellular Data Used	Show the Cellular Data Used, and reset the data

5.7. USSD

This page is used to definition USSD(Unstructured Supplementary Service Data Settings).

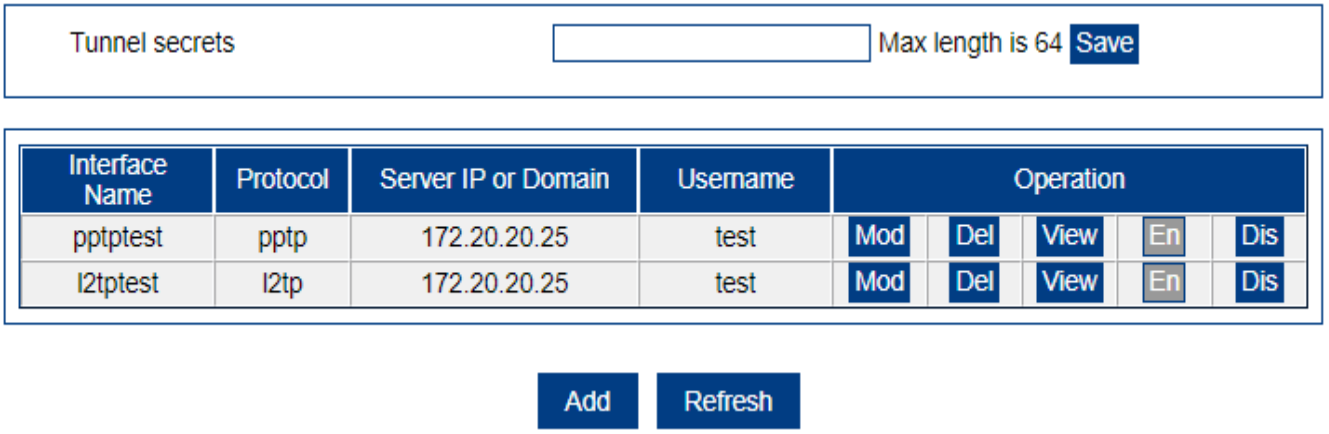


Object	Description
Send to	Enter the data for USSD

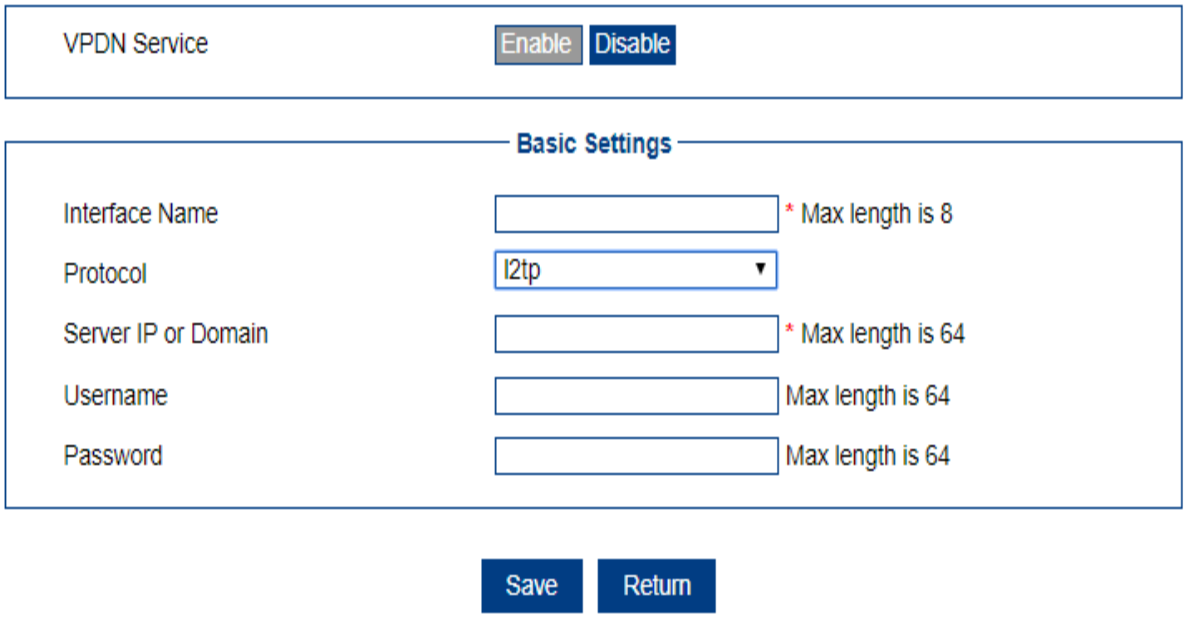
6. VPN

6.1. VPND

6.1.1 pptp or l2tp entry

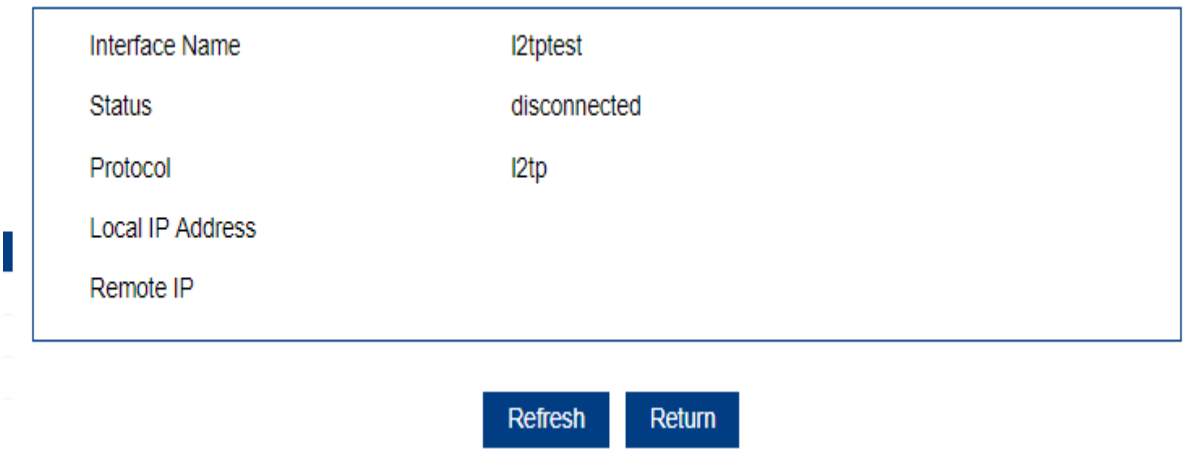


6.1.2 Add tunnel entry



Object	Description
Interface Name	Name of entry
Protocol	L2tp or pptp option select.
Server IP or Domain	Peer ip or domain
Username	username
Password	password

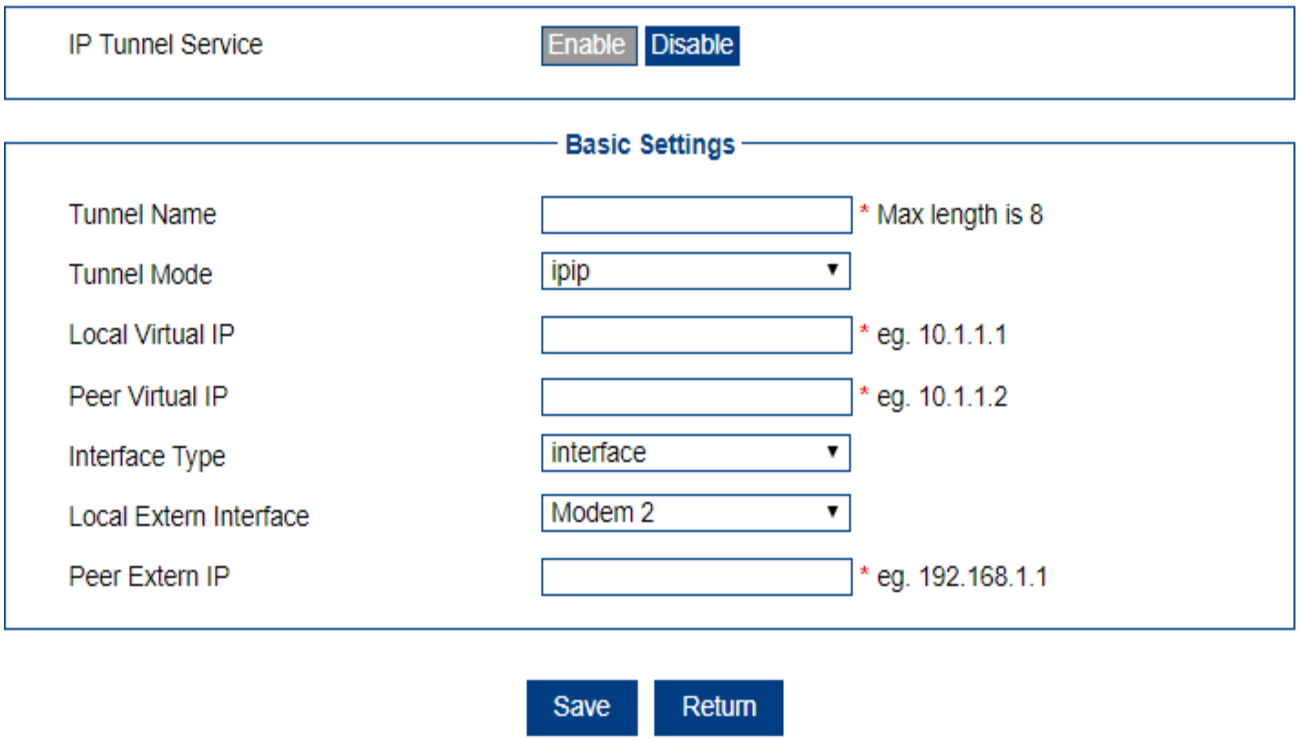
6.1.3 View tunnle entry



Object	Description
Interface Name	Entry name
Status	Disconnected or connected
Protocol	L2tp or pptp
Local IP Address	Local ip

Remote IP	Remote ip

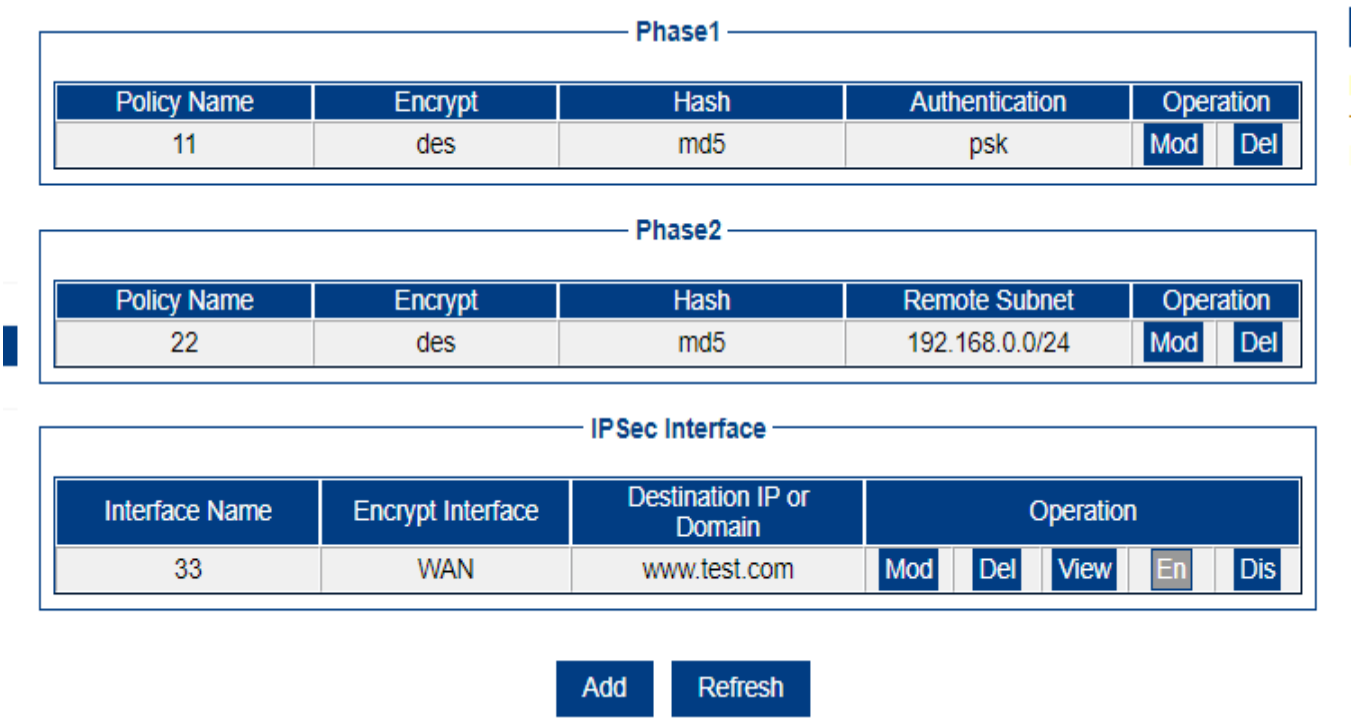
6.2. Tunnel



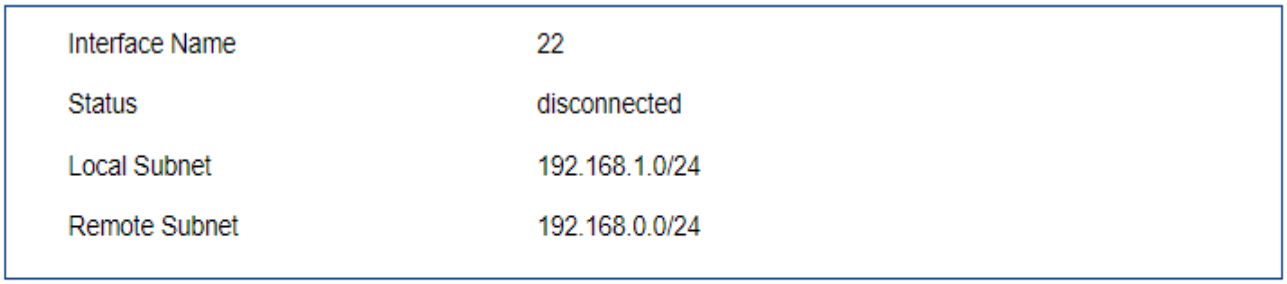
Object	Description
Tunnel Name	Entry name
Tunnel Mode	Ipip , gre ,grem
Local Virtual IP	Local network ip
Peer Virtual IP	Peer network ip
Interface Type	Static ip or interface
Local Extern IP	If select static ip ,manual setup wan ip. Else select which interface
Peer Extern IP	Peer wan ip

6.3. IPsec

Show ipsec config infomation



6.3.1 View ipsec entry connect status



Object	Description
interfacel Name	Entry name
status	Connected or disconnected
Local subnet	Local network
Remote subnet	Peer network

6.3.2 add ipsec entry connect status

Basic Settings

Phase1

Policy Name		* Max length is 12
Initiate Mode	main	
Encrypt	des	
Hash	md5	
Authentication	psk	
Pre Share Key		* Max length is 64
Self Identify		Max length is 64
Match identify		Max length is 64
IKE Lifetime	28800	* 120-86400 s
Group Name	group768	
DPD Service	Enable / Disable	
DPD Delay	30	1-512 s
DPD Retry Times	4	1-512 times

Phase2

Policy Name		* Max length is 12
Encryption Protocol	esp	
Encrypt	des	
Hash	md5	
PFS	open	
Group Name	group768	
Lifetime	3600	* 120-86400 s
Local Protoport	:	eg. 47:0
Remote Protoport	:	eg. 47:0
Transport Mode	auto	
Local Subnet		* eg. 192.168.1.0/24
Remote Subnet		* eg. 192.168.1.0/24

Ipsec

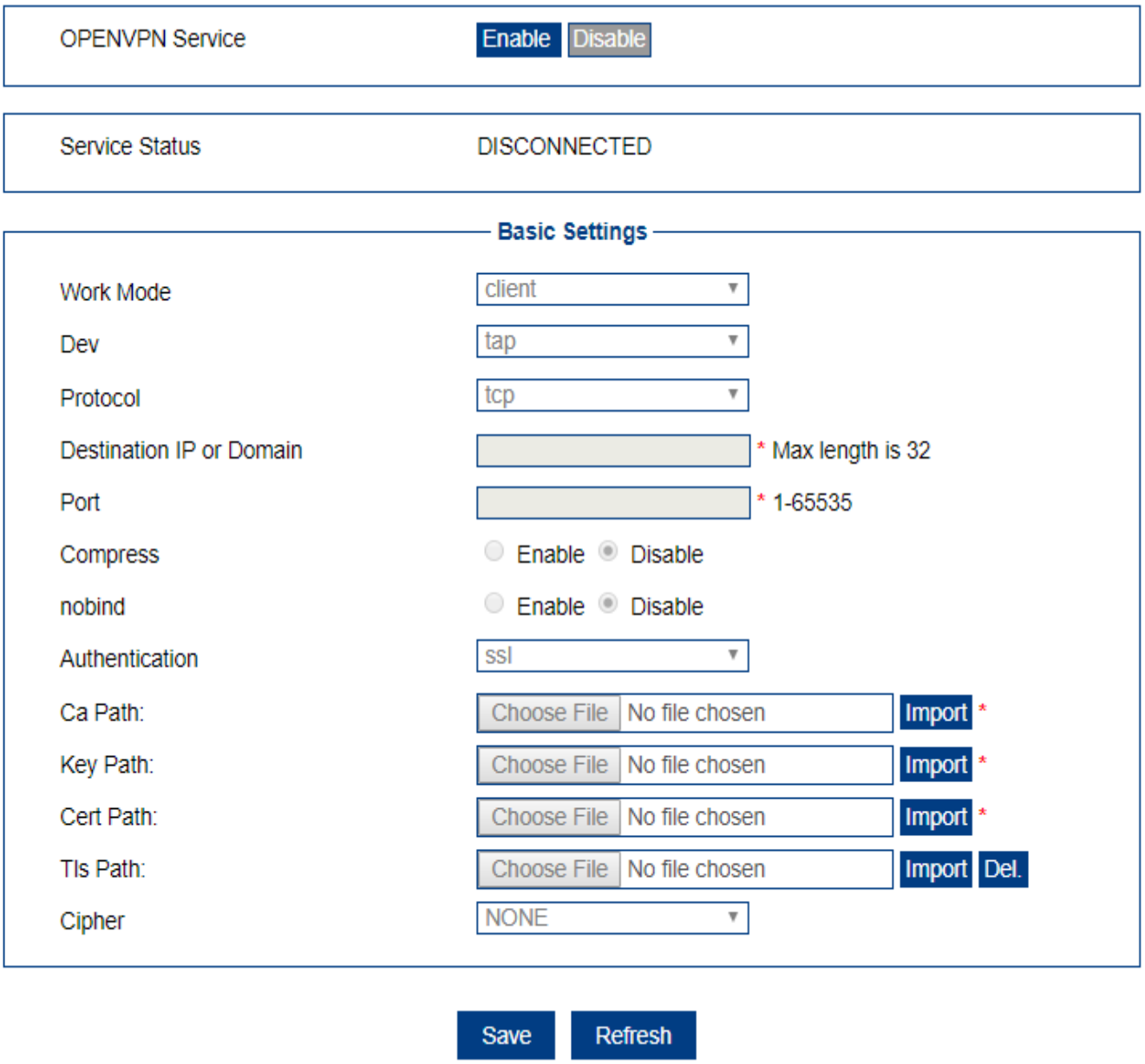
Interface Name		* Max length is 12
Destination IP or Domain		* Max length is 64
Encrypt Interface	br0	

Save Return

Object	Description
Phase1	Show the phase1 parameter
Policy Name	Name of entry
Initiate Mode	Ipip , gre or grem tunnel mode
Encrypt	Select encypt type,des 3des aes256/192/128
Hash	Md5,sha1,sha2_256
Authentication	Static ip or interface , if static ip ,manual config option Local Extern Ip. If interface, need select which interface on option Local Extern Interface.
Pre Share Key	Enter the pre share key
Self Identify	Enter the Self Identify
Match identify	Enter the match Identify
IKE Lifetime	Enter the IKE Lifetime
Group Name	Select group name
DPD Service	Enable or disable service
DPD Delay	Enter the delay
DPD Retry Times	Enter the retry times
Phase2	Show the phase2 parameter
Policy Name	Name of entry
Encryption Protocol	Esp,ah ,ah+esp
Encrypt	des 3des aes256/192/128
Hash	Md5,sha1,sha2_256
PFS	Open or close
Group Name	Select group name
Lifetime	Enter the Lifetime
Local Protoport	Enter the local port
Remote Protoport	Enter the remote port
Transport Mode	Auto, transport, tunnel

Local Subnet	Enter the local subnet network
Remote Subnet	Enter the remote subnet network
Ipsec	Show the ipsec parameter
Interface Name	Name of interface
Destination IP or Domain	Enter the ip address or domain
Encrypt Interface	Select the interface

6.4. OpenVpn



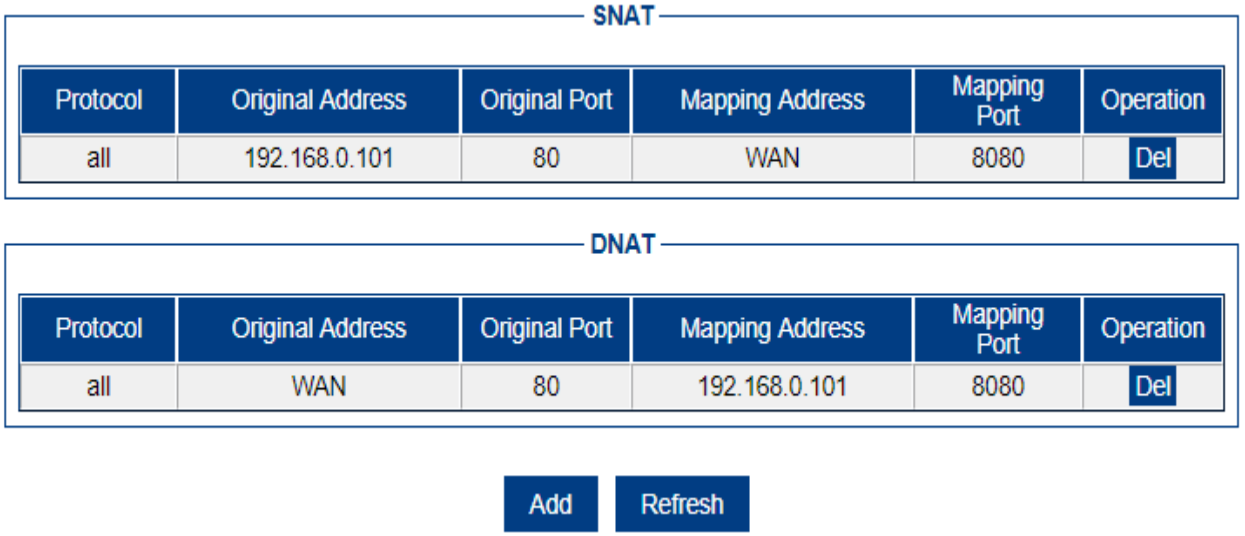
Object	Description
Openvpn service	Enable or Disable the openvpn service
Work Mode	client or multi
Dev	tap or tun,network interface type,tun(OSI Layer 3),tap(OSI Layer 2)
Protocol	tcp or udp
Destination IP or Domain	Enter the ip address or domain
Port	Enter the port
Compress	Enable or disable compress th data

nobind	Enable or disable specific local port
Authentication	ssl or text
Ca	Select a ca file to import ,if not
Key	Select a key file to import ,if not
Cert	Select a cert file to import ,if not
Tls	Select a tls file to import ,if not
Cipher	NONE,BF-CBC,DES-CBC,RC2-CBC,DES-EDE-CBC,DES-EDE3-CBC,DESX-CBC,RC2-40-CBC,CAST5-CBC,RC2-64-CBC,AES-128-CBC,AES-192-CBC,AES-256-CBC,SEED-CBC

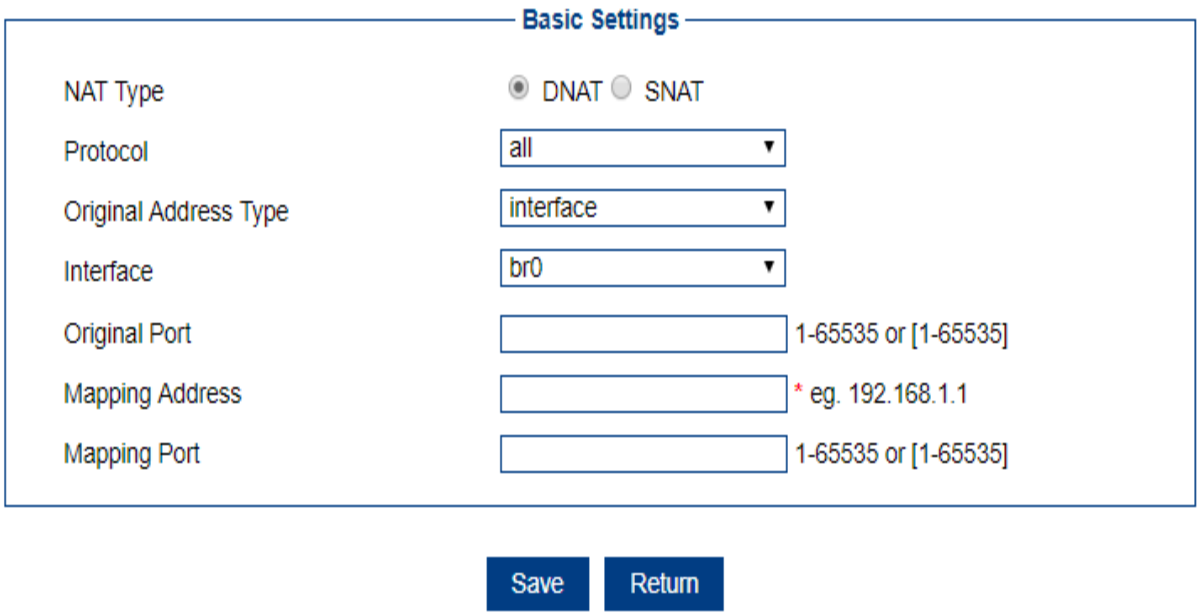
7. Forward

7.1. nat

7.1.1 view info



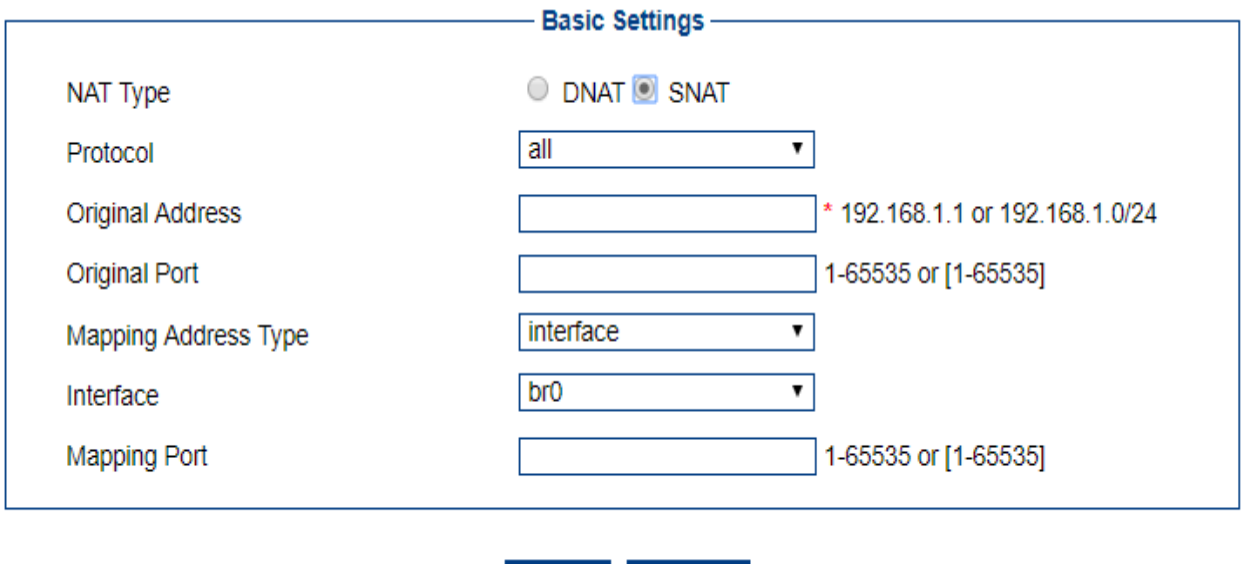
7.1.2 Add DNAT



Object	Description

NAT Type	DNAT or SNAT
Protocol	all , tcp ,udp ,icmp
Original Address Type	Interface or static ip
Interface	tcp or udp
Original Address	Enter the original address for wan interface
Original Port	Enter the original port for wan interface
Mapping Address	Enter the mapping ip address
Mapping Port	Enter the mapping port

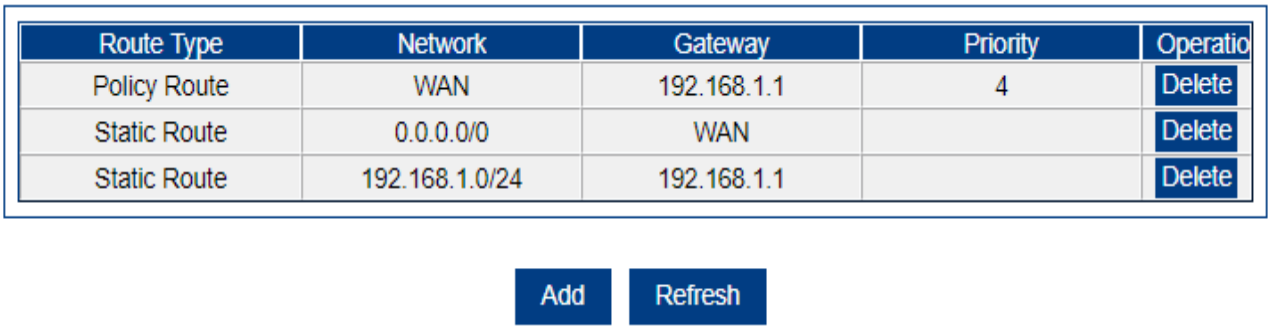
7.1.3 Add SNAT



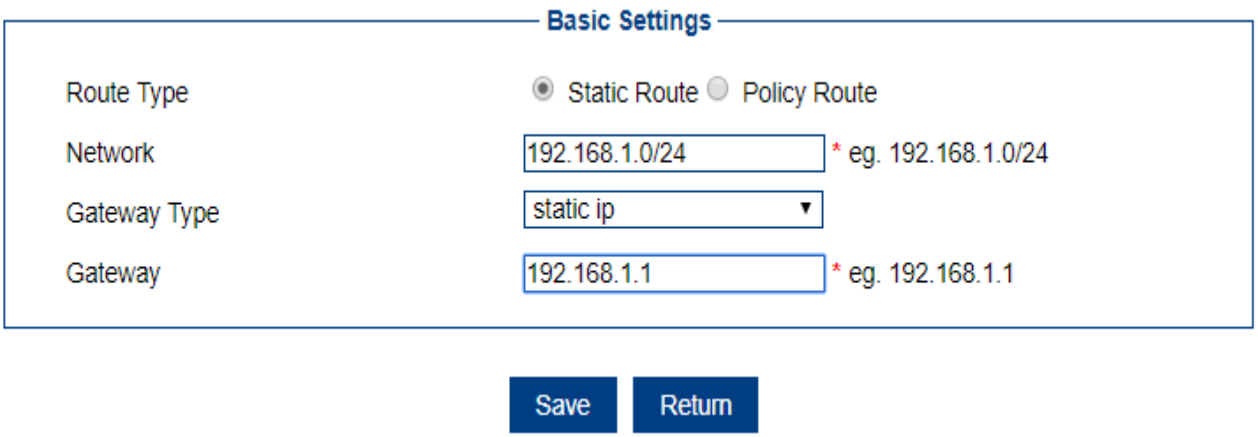
Object	Description
NAT Type	DNAT or SNAT
Protocol	all , tcp ,udp ,icmp
Original Address	Interface or static ip
Original Port	tcp or udp
Mapping Address Type	Select Interface or static ip
Interface	Select the interface
Mapping Address	Enter the mapping ip address
Mapping Port	Enter the mapping port

7.2. Routing

7.2.1 view info

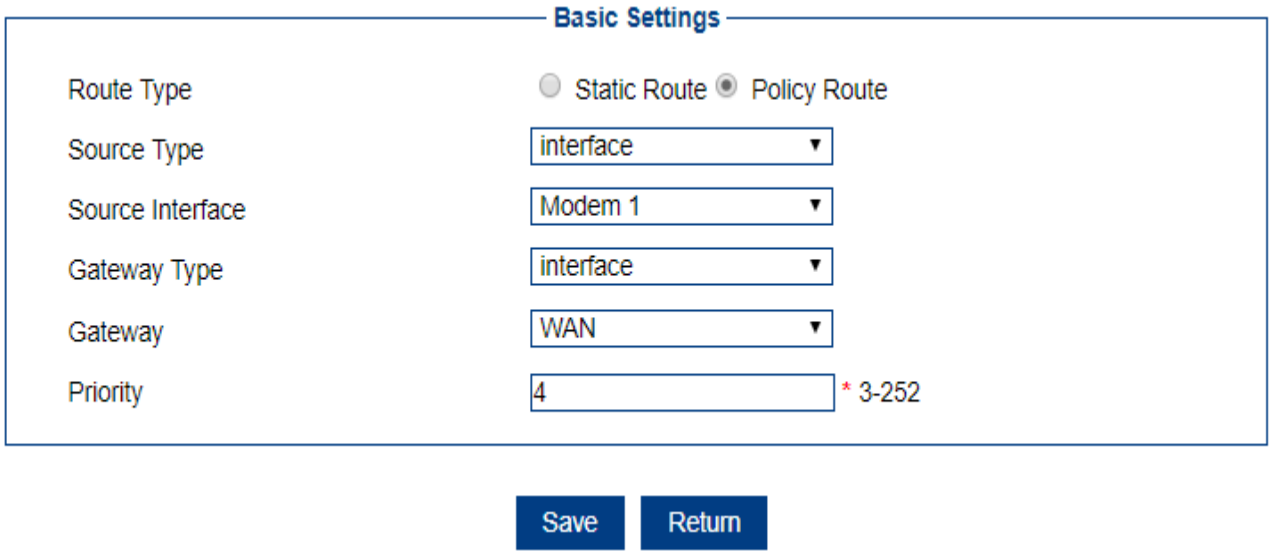


7.2.2 Add Static Route



Object	Description
Route Type	Static Route
Network	all , tcp ,udp ,icmp
Gateway Type	Interface or static ip
Gateway	Ip address or interface

7.2.3 Add Policy Route



Object	Description
Route Type	Policy Route
Source Type	Interface or static ip
Source Interface	Interface
Network	Ip address
Gateway Type	Interface or static ip
Gateway	Interface or static ip
Priority	cost

7.3. RIP

Routing Information Protocol (RIP) is a standard for exchanging routing information between gateways and hosts. RIP is an interior gateway protocol.

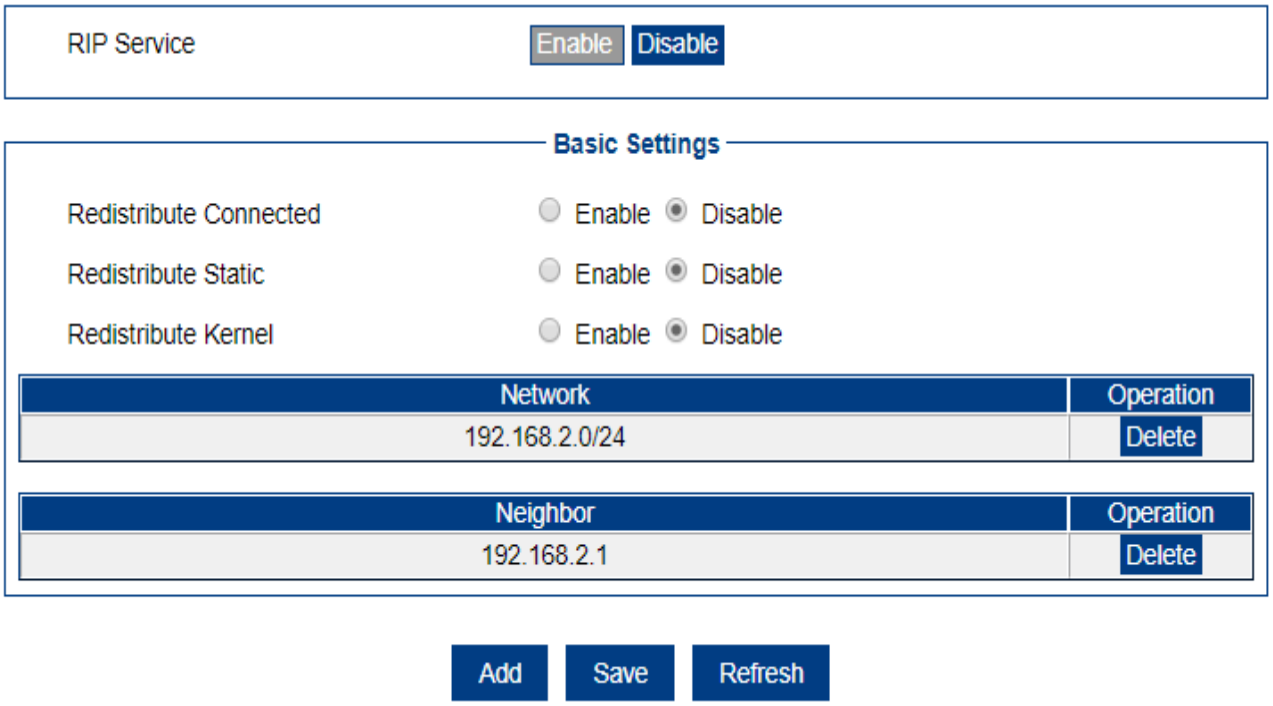
Only exchange information with neighboring routers. If the communication between two routers does not pass through the other router, then the two routers are adjacent. The RIP protocol stipulates that no information is exchanged between non-adjacent routers.

 The information exchanged by the router is all the information known by the router. That is, its own routing table.

 Exchange routing information at a fixed time (for example, every 30 seconds), and then the router updates the routing table based on the received routing information.

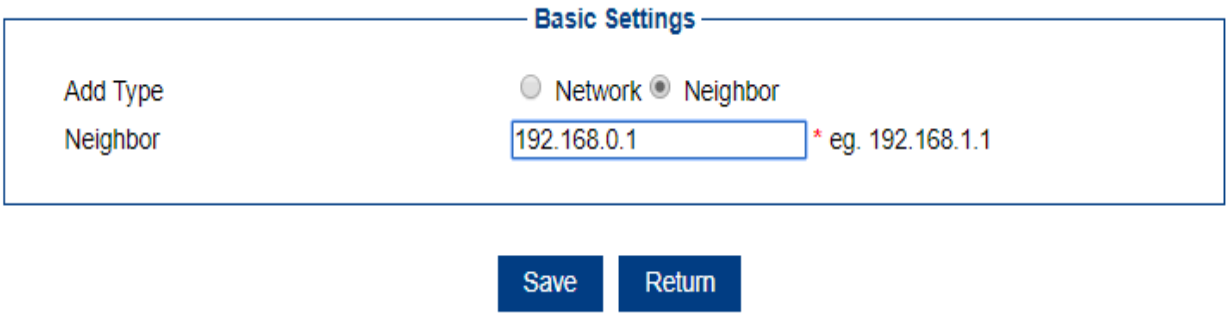
The "distance" of the RIP protocol is also called "hop count" because the hop count is increased by 1 each time a router passes. RIP believes that a good route is that the number of routers it passes is small, that is, "short distance". RIP allows a path to contain up to 15 routers. Therefore, when "distance" is equal to 16, it is equivalent to unreachable. It can be seen that RIP is only suitable for small Internet.

7.3.1 View RIP Info



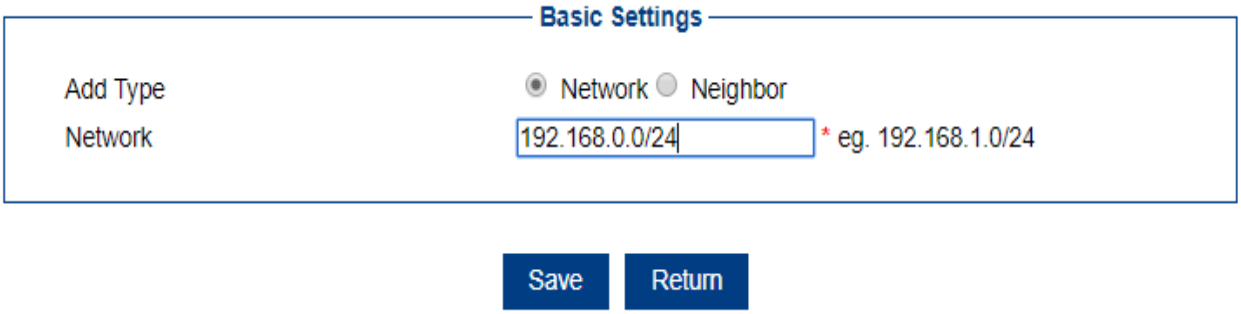
Object	Description
Redistribute Connected	Advertising direct connect routing information
Redistribute Static	Advertising static routing information
Redistribute Kernel	Advertising kernel routing information
Network	display configure direct connect network info
Neighbor	display configure neighbor router ip address

7.3.2 Add Neighbor



Object	Description
Add Type	Select network or Neighbor
Neighbor	Add a entry,for configure neighbor router ip address

7.3.3 Add Network



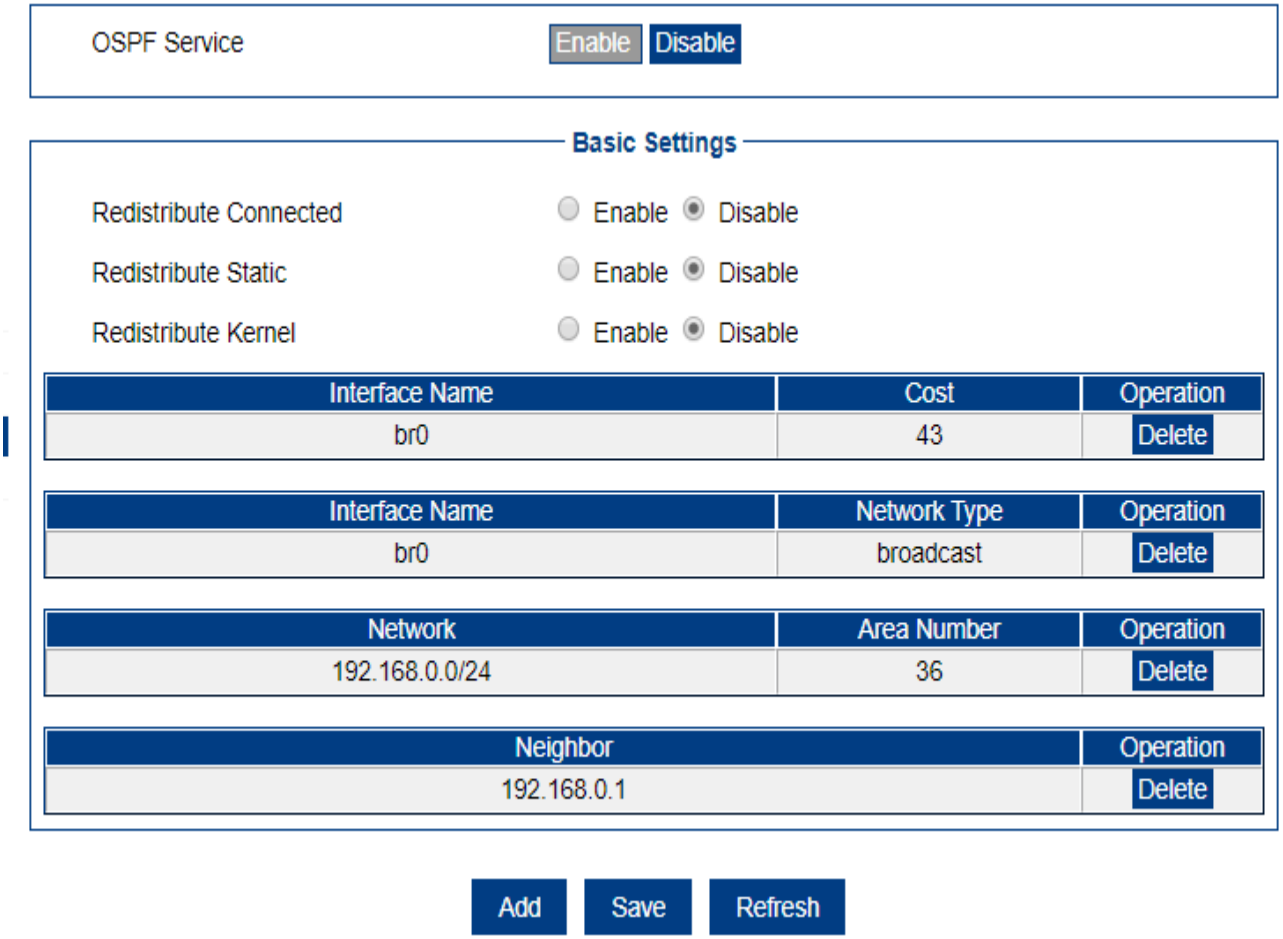
Object	Description
Add Type	Select network or Neighbor
Network	Add a entry,for configure direct connect network info

7.4. OSPF

The OSPF routing protocol is a typical link-state routing protocol. It is generally used in the same routing domain. Here, a routing domain refers to an autonomous system, which refers to a group of networks that exchange routing information with each other through a unified routing policy or routing protocol. In this AS, all OSPF routers maintain an identical database describing the structure of the AS. This database stores the state information of the corresponding links in the routing domain. The OSPF router calculates its OSPF routing table through this database.

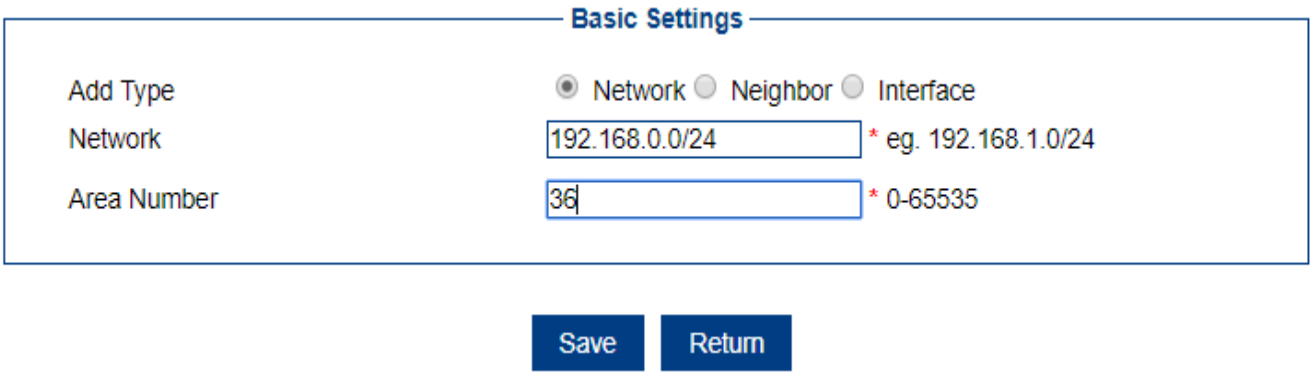
As a link-state routing protocol, OSPF transmits Link State Advertisement (LSA) to all routers in an area. This is different from distance vector routing protocols. The distance vector routing protocol is to pass part or all of the routing table to its neighboring routers.

7.4.1 View OSPF Info

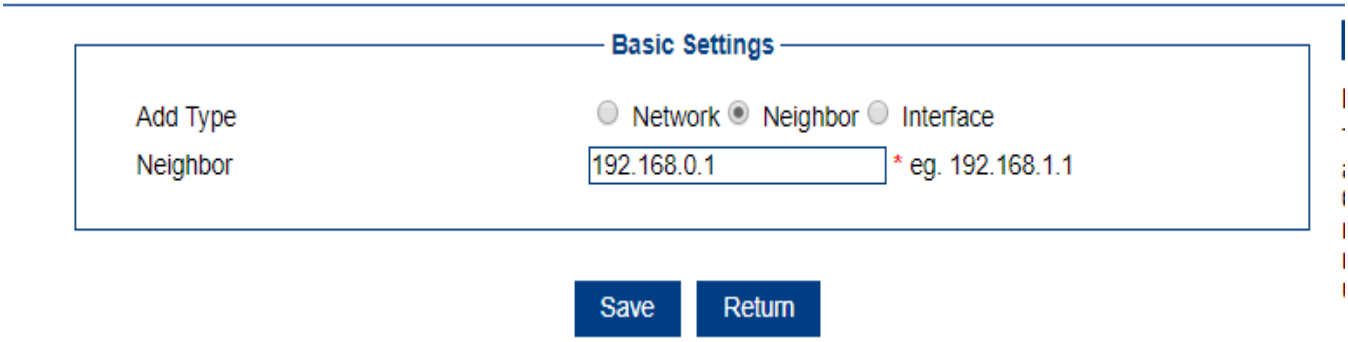


Object	Description
Redistribute Connected	Advertising direct connect routing information
Redistribute Static	Advertising static routing information
Redistribute Kernel	Advertising kernel routing information
Network	display configure direct connect network info
Neighbor	display configure neighbor router ip address

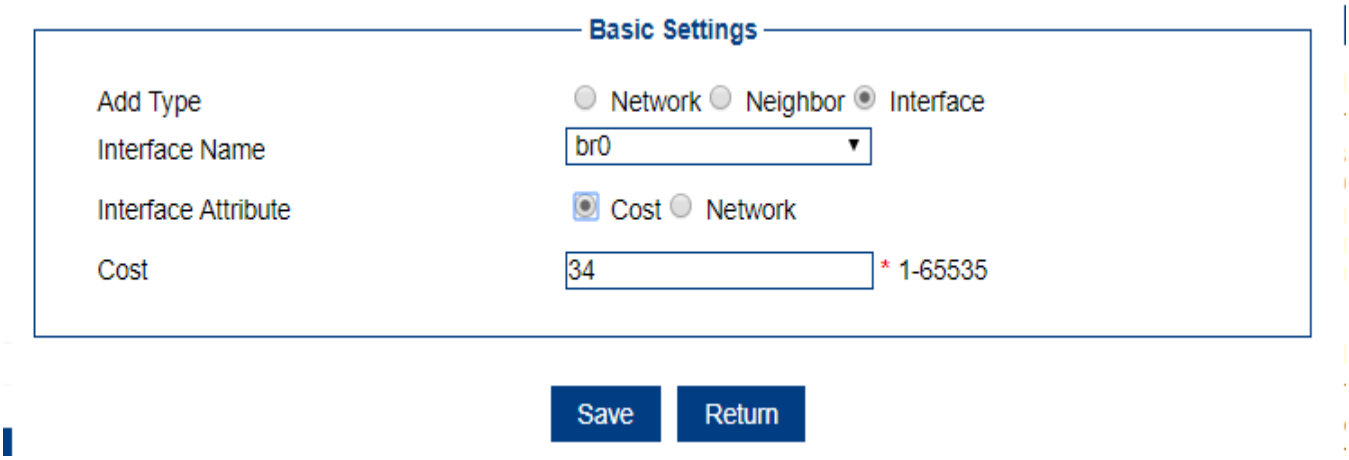
7.4.2 Add OSPF Network



7.4.3 Add OSPF Neighbor



7.4.4 Add OSPF Interface

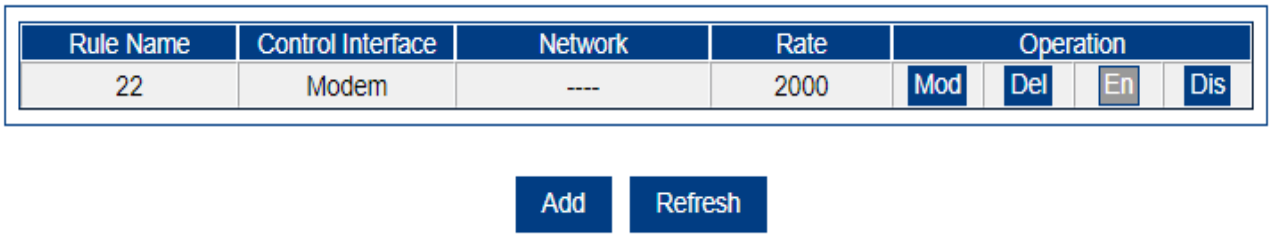


Object	Description
Add Type	Interface
Interface Name	Interface or static ip
Interface Attribute	Cost or network
cost	A cost value

Network Type	Broadcast,non-broadcast,point-to-multipoint,point-to-point

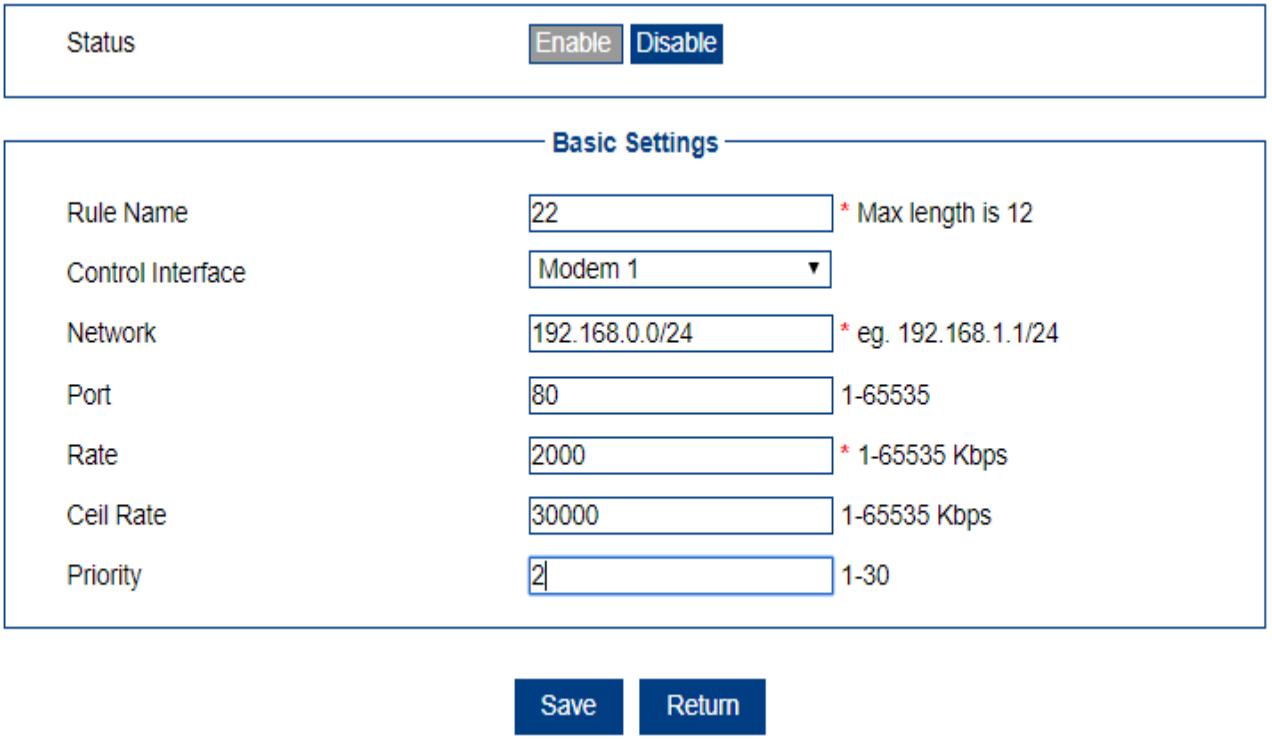
7.5. Qos

7.5.1 View Qos Info



7.5.2 Add Qos Entry

Configure QoS rules to evenly allocate or prioritize bandwidth usage by certain Internet users.



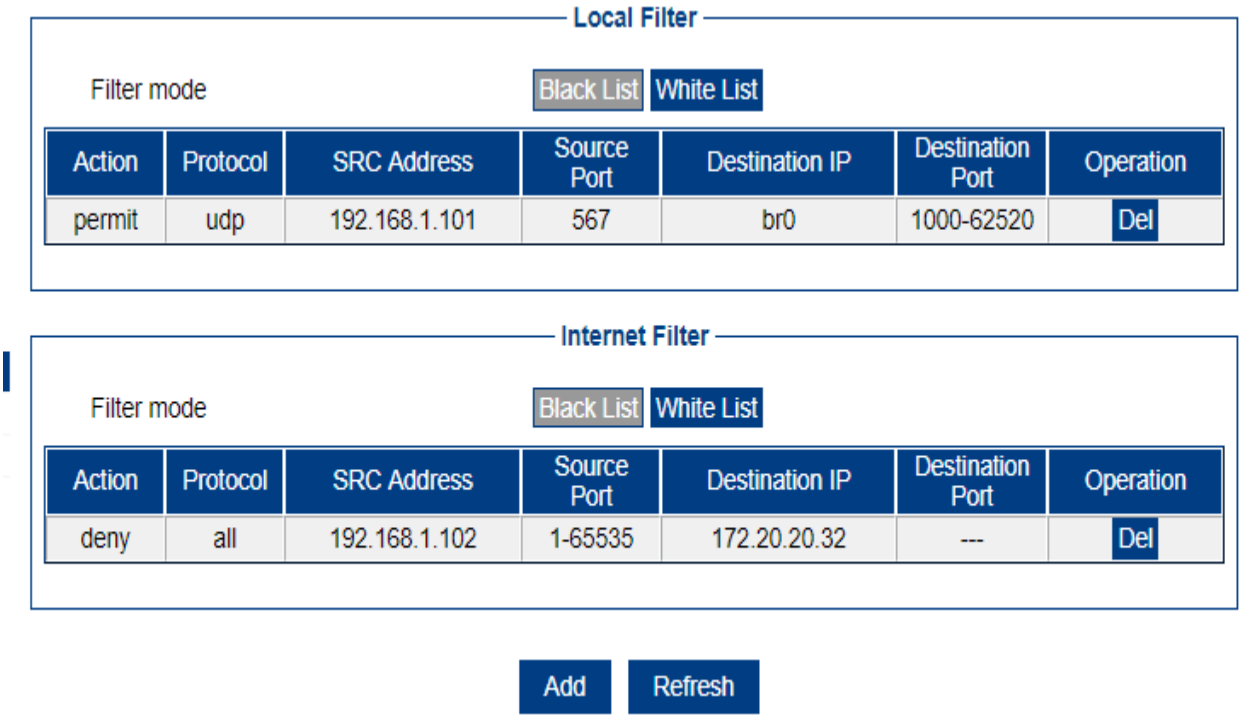
Object	Description
Rule Name	Enter a name for the service
Control Interface	Output data interface
Network	Enter the network mask
Port	Data port
Rate	Limit speed

Ceil Rate	Max buffer speed
Priority	The rule priority

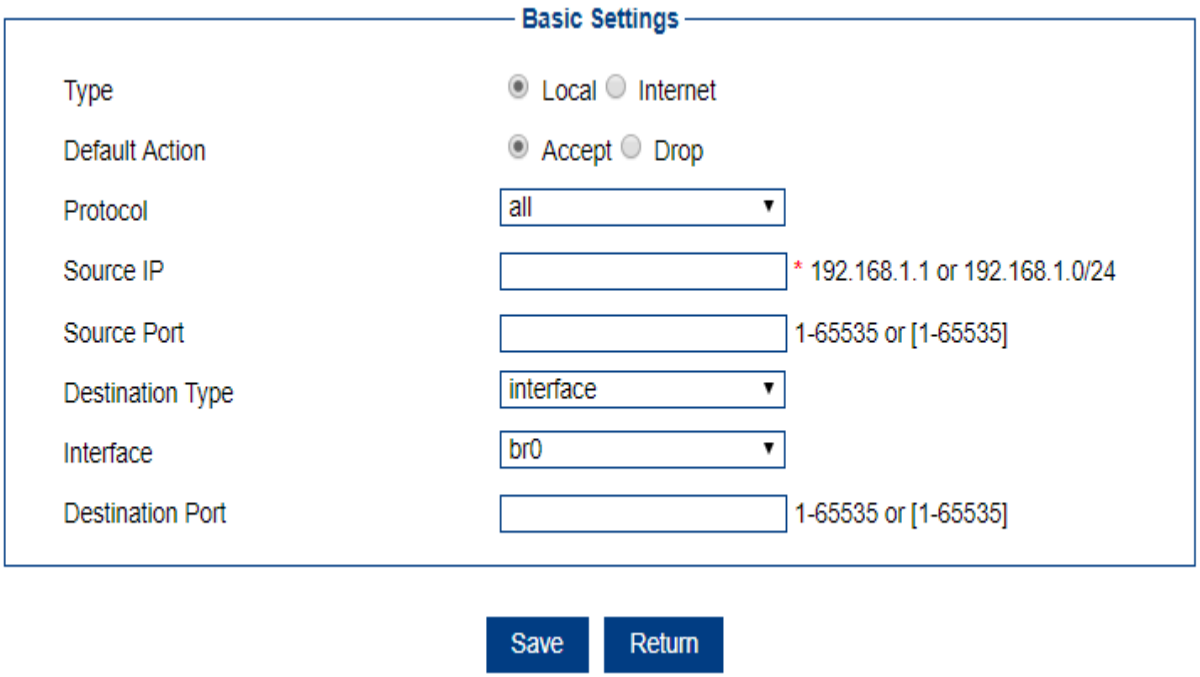
8. Security

8.1. IP Filter

8.1.1 View Filter Info



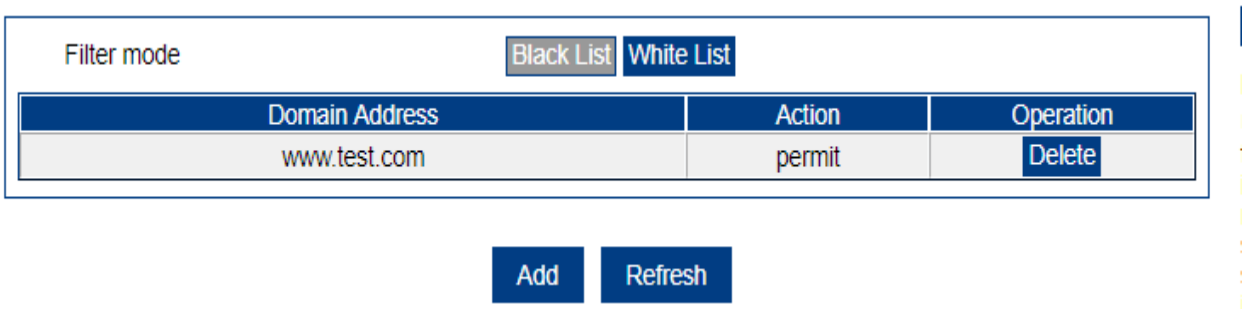
8.1.2 Add Filter Entry



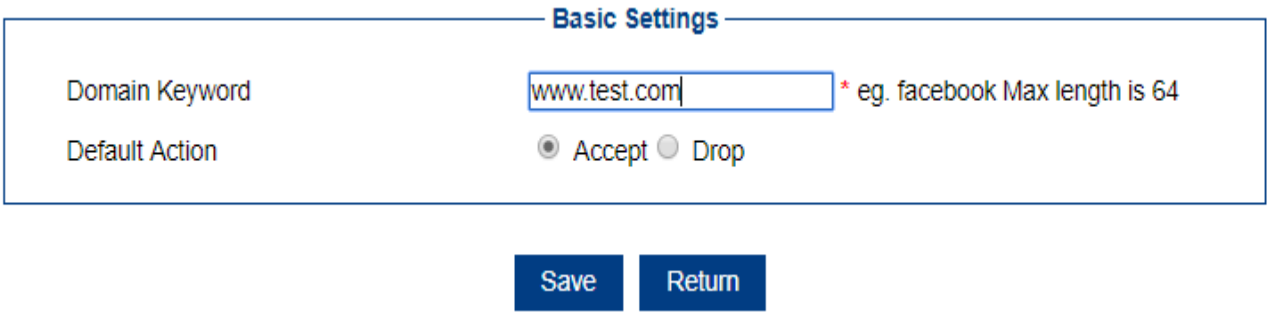
Object	Description
Type	Local or Internet
Default Action	Drop or Accept
Protocol	All, tcp,udp,icmp
Source IP	from ip
Source Port	From port
Destination Type	Interface or any
Interface	Data forward interface
Destination IP	to ip
Destination Port	To ip port

8.2. Domain Filter

8.2.1 View Domain Filter



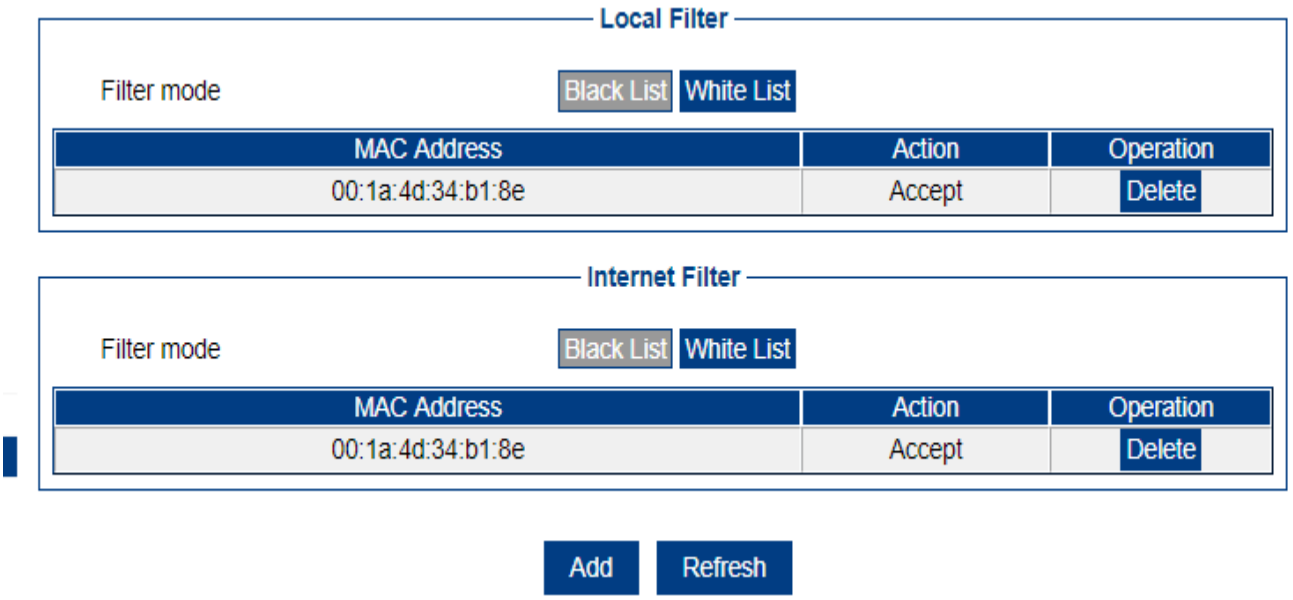
8.2.2 Add Domain Filter



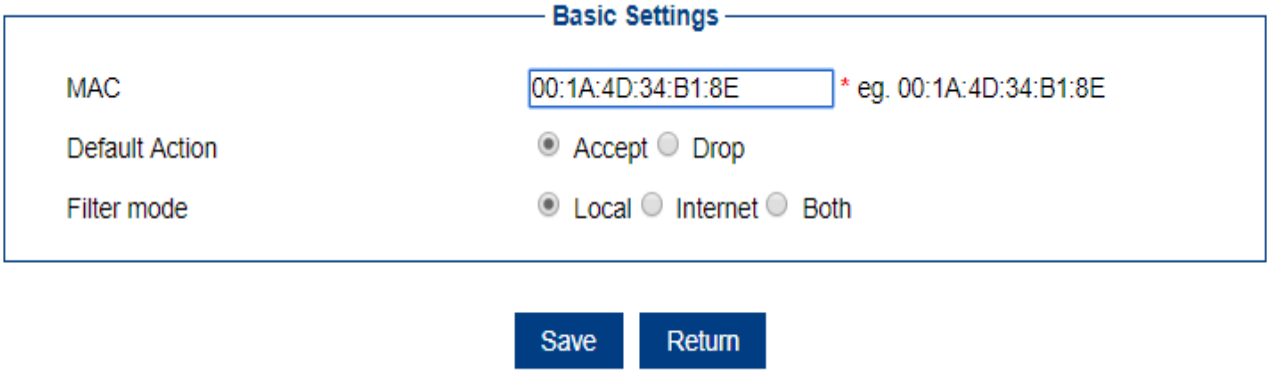
Object	Description
Domain Keyword	Domain string
Default Action	Accept or drop this domain

8.3. MAC Filter

8.3.1 View MAC Filter



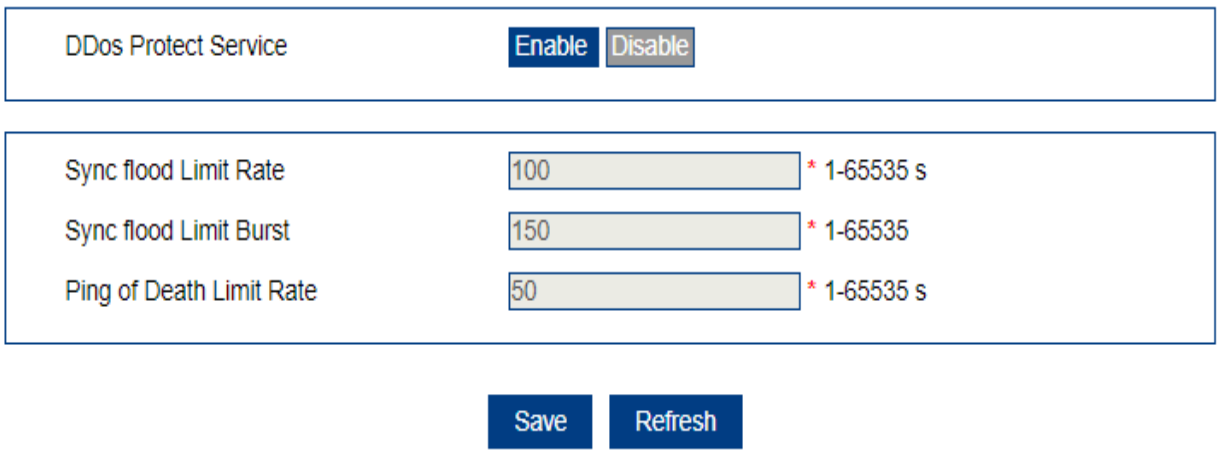
8.3.2 Add MAC Filter



Object	Description
MAC	Select server from the drop-down list
Default Action	Accept or Drop
Filter mode	Local,Internet,Both

8.4. DDOS

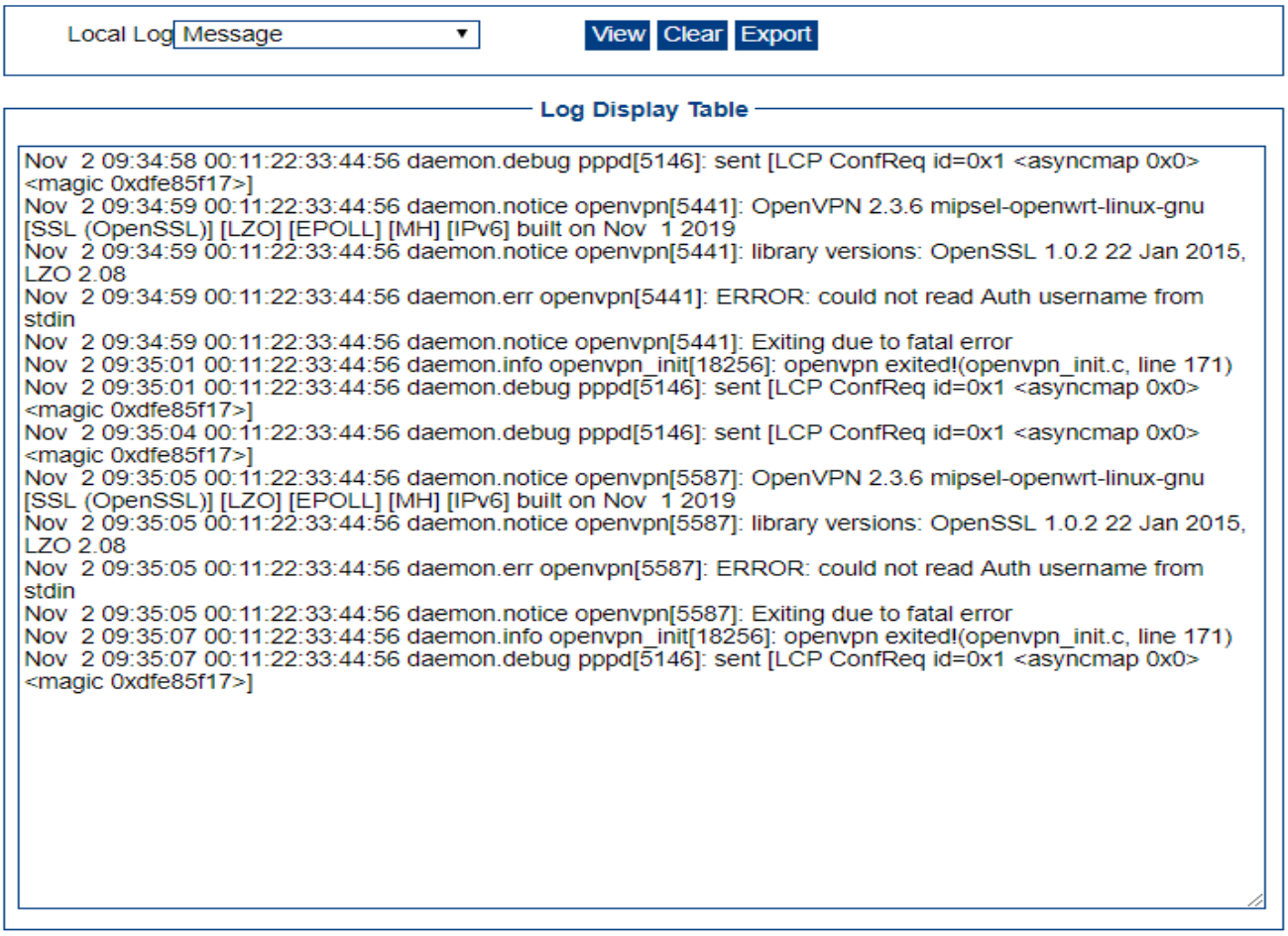
The page is provides an anti-ddos attack function, which can control sync attacks and ping attacks functions.



Object	Description
Sync flood Limit Rate	Select server from the drop-down list
Sync flood Limit Burst	Accept or Drop
Ping of Death Limit Rate	Local,Internet,Both

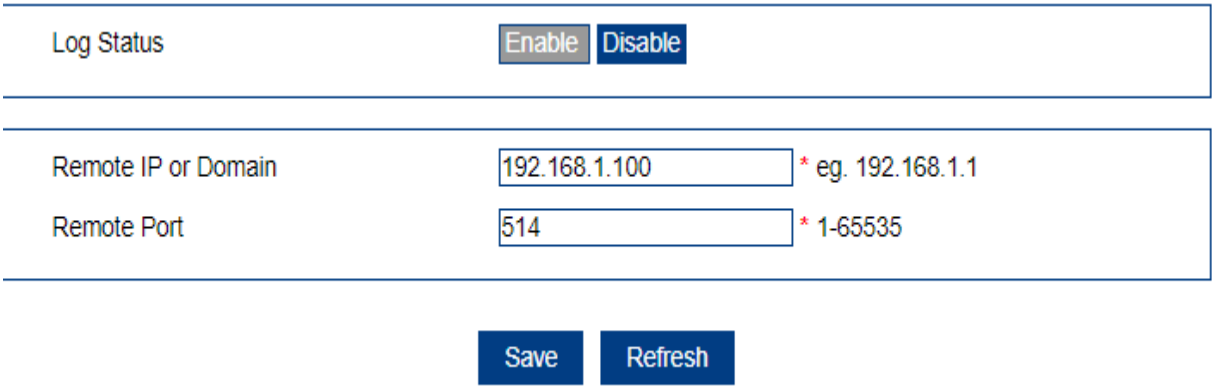
9. Management

9.1. Local Log



Object	Description
Local Log	Kernel,Application,Message
View	Show log
Clear	Clear log record
Export	Export log to save

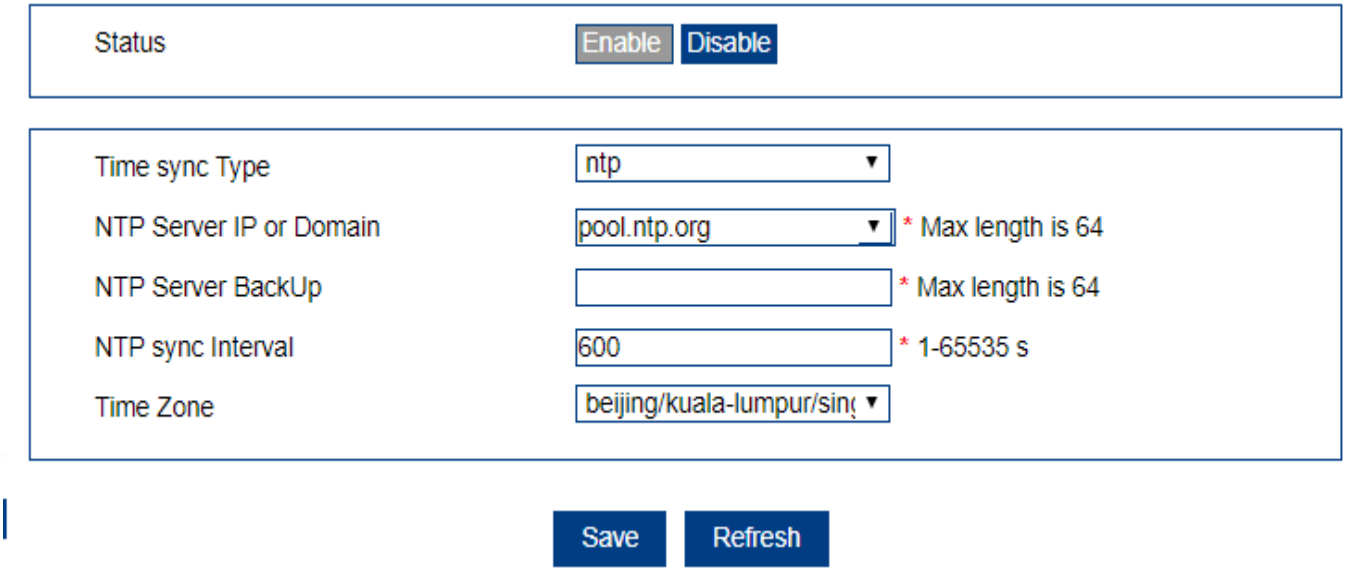
9.2. Remote Log



Object	Description
Log Status	Enable or disable “Logging to Syslog Server”
Remote IP or Domain	Syslog server IP address
Remote Port	Server port

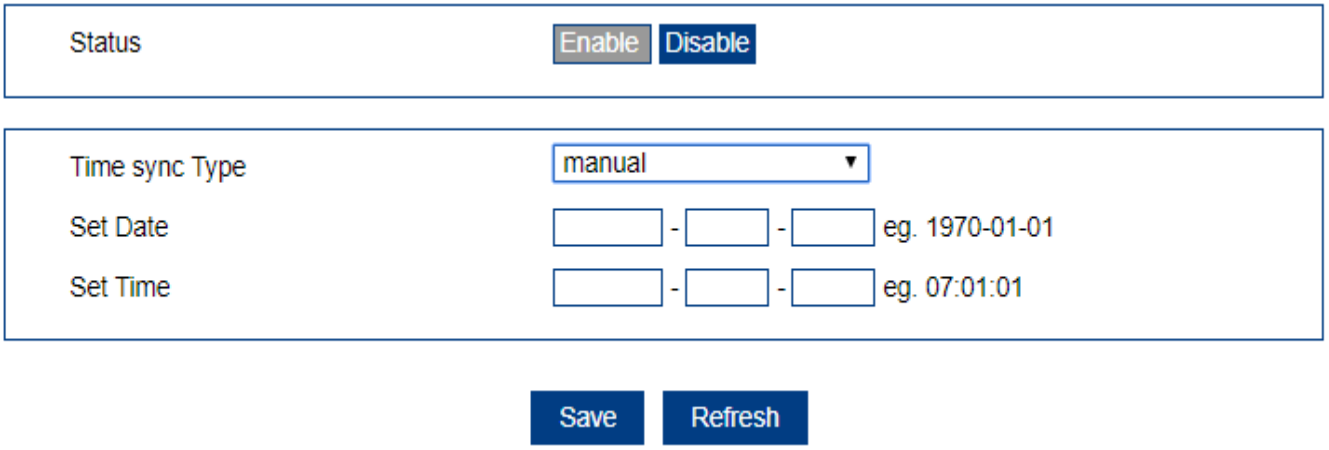
9.3. NTP Server

9.3.1 Enable ntp system time



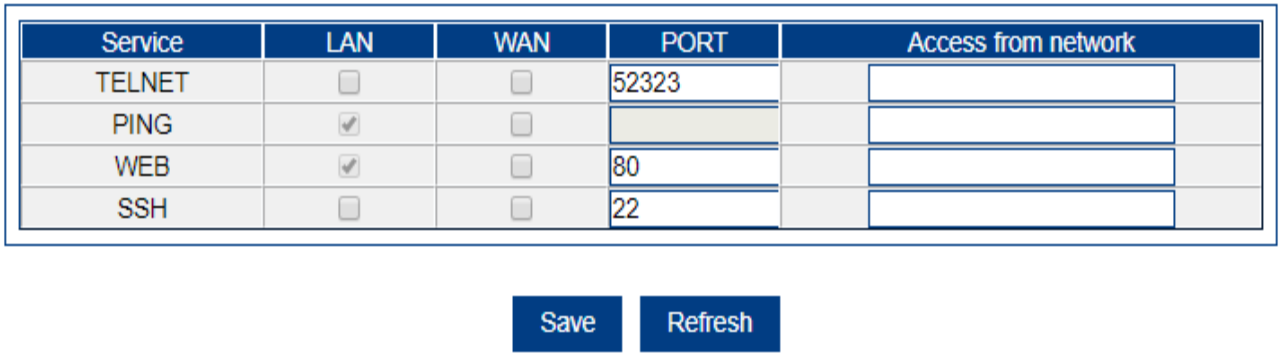
Object	Description
Time sync Type	Sync time from time server
NTP Server IP or Domain	First Time server
NTP Server BackUp	Swich to second time server when first time server sync fail
NTP sync Interval	How to get time from server
Time Zone	Fix time zone
Time Zone Number	If you select customer time zone , you can manual set time zone

9.3.2 Enable manual system time



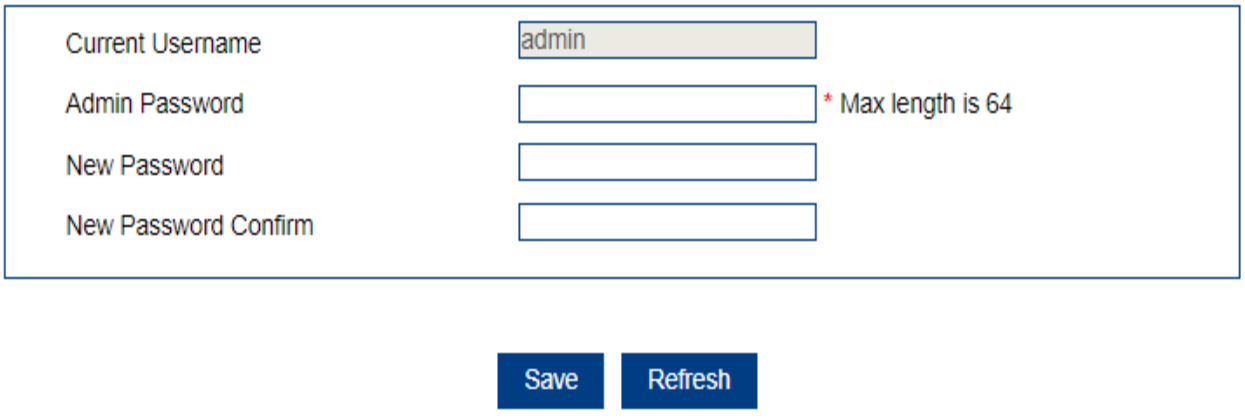
Object	Description
Time sync Type	Manual set system time
Set Date	Which date
Set Time	Which time

9.4. Service Control



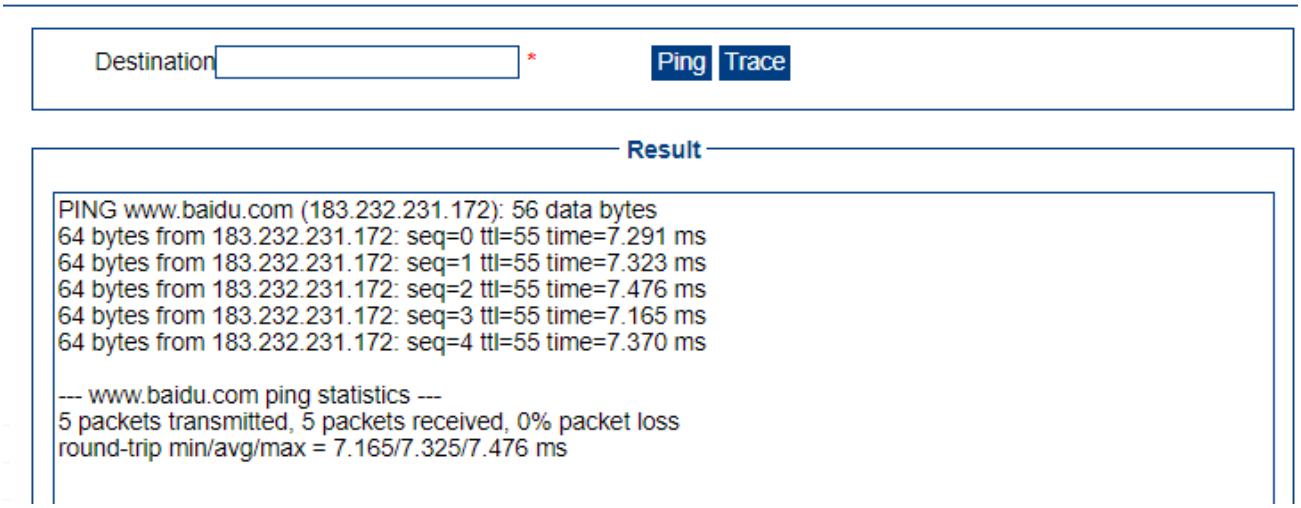
Object	Description
Service Type	The following services can be configured with access permissions
lan	Select to allow lan access
wan	Select to allowwan access
port	Enter the port to allow access
Access from network	Enter the ip to allow access, When multiple IP address are allowed, they can be separated by a separator character "/"

9.5. Account



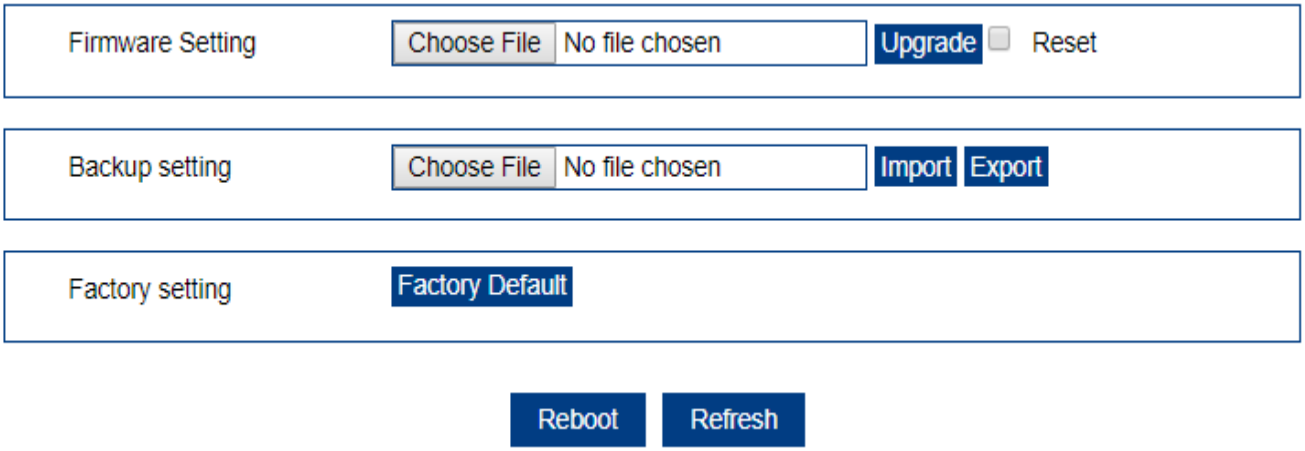
Object	Description
Account Type	Web login account
Current Username	username
Admin Password	password
New Password	New password
New Password Confirm	Confirm new password

9.6. Diagnostics



Object	Description
Destination	Ntp or manual
ping	Ping cmd to test network
trace	Trace cmd to test network
result	Show ping or trace cmd result

9.7. Upgrade/Settings



Object	Description
Upgrade	Click this button to start upgrade system
Select	Select the upgrade system bin file or config file
Reset	If select this option when upgrade system , syetem config will restore to factory.
Import	Import a backup config
Export	Export config to backup
Factory Default	Restore system config to factory mode
Reboot	Restart system