

How to configure IP Passthrough on iSite Router

Go to **Status > Host List**, we can get IP address of camera and gateway.

Status	Overview	Cellular	Network	WLAN	VPN	Routing	Host List	GPS
Network	DHCP Leases							
	IP	MAC/DUID	Lease Remaining Time					
Gateway	192.168.3.2	ac:d1:b8:a4:93:45	23h 59m 16s					
Camera	192.168.3.3	24:e1:24:f1:61:f2	23h 59m 51s					

Go to **Network > Interface > Bridge**, to get bridge IP address of router.

Status	Link Failover	Cellular	Port	WAN	Bridge
Network	Bridge Setting				
Interface	Name	Bridge0			
DHCP	STP	☐			
Firewall	IP Address	192.168.3.1			
QoS	Netmask	255.255.255.0			
	IPv6 Address				
	MTU	1500			

- Go to **Network > Firewall > IP Passthrough**, enable IP Passthrough and choose Passthrough Mode.

DHCPs-Fixed: Make the public IP address of router penetrate to the fixed device all the time, and users need to fill in corresponding device MAC address to bind.

DHCPs-Dynamic: With a change of IP address lease time, the public IP address of router will be dynamically assigned to the first subnet device which receive IP address from router.

DHCP	IP Passthrough
Firewall	
QoS	
VPN	
IP Passthrough	
Routing	

IP Passthrough

Enable ☒

Passthrough Mode DHCPs-Fixed

MAC DHCPs-Fixed
DHCPs-Dynamic

Save

(1) DHCP Fixed Mode

Input the camera MAC address here, click **Save** and **Apply**.

For your device security, please change the default password

IP Passthrough

Enable ☒

Passthrough Mode DHCP Fixed

MAC 24:e1:24:f1:61:f2

Save **Apply**

Then go to **Maintenance > Reboot**, reboot the router.

Reboot

Reboot Device

Reboot Now

Schedule

Enable ☐

Cycles Every Day 0 : 0

Save

And we can see the IP address of cellular changes to a private IP address.

Status	Overview	Cellular	Network	WLAN	VPN	Routing	Host List	GPS
Network	Modem			Network				
System	Status	Ready		Status	Connected			
Industrial	Model	RM500Q-GL		IPv4 Address	192.168.1.1/24			
Maintenance	Version	RM500QGLABR11A02M4G		IPv4 Gateway	10.33.66.129			
APP	Current SIM	SIM2		IPv4 DNS	218.85.157.99			
	Signal Level	99asu (85dBm)		IPv6 Address	fe80::bc01:2aff:fe15:3c35/64			
	Register Status	Registered (Home network)		IPv6 Gateway	::			
	IMEI	863305040133802		IPv6 DNS	::			
	IMSI	460110878271761		Connection Duration	0 days, 00:01:13			

And now the IP address of camera changes to the fixed public IP address of router before.

Status

Network

Interface

DHCP

Firewall

QoS

Link Failover

Cellular

Port

WAN

Bridge

Bridge Setting

Name

Bridge0

STP

☐

IP Address

10.33.66.1

Netmask

255.255.255.0

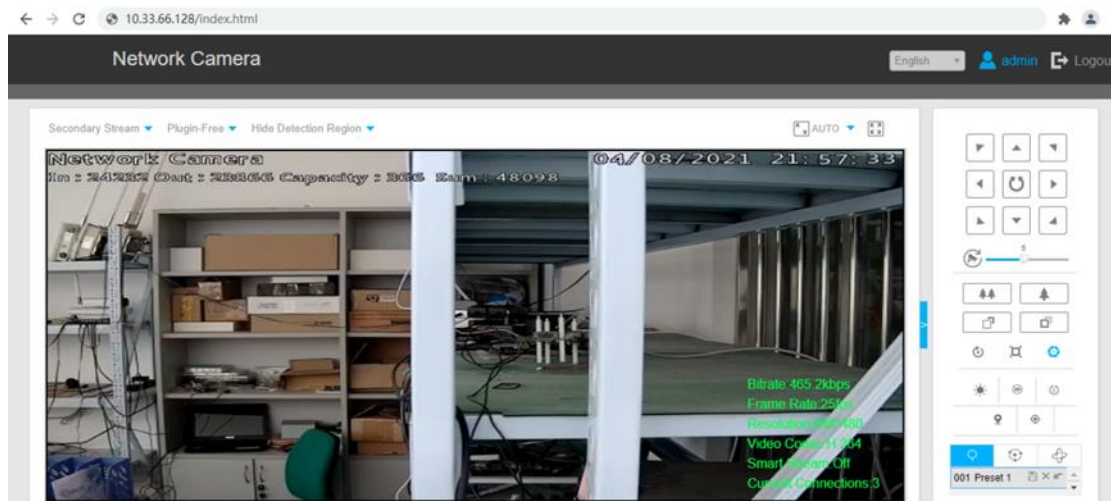
IPv6 Address

MTU

1500

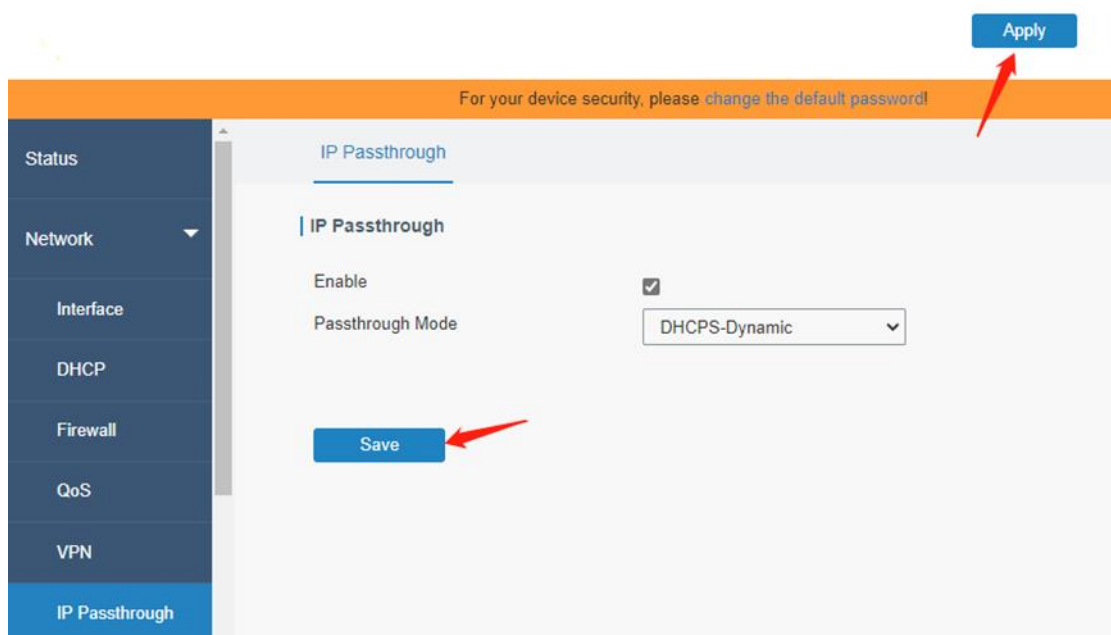
```
Wed Aug 4 21:01:46 2021 kern.info kernel: [ 126.422343] net cellular2: link state 0x0 -> 0x1
Wed Aug 4 21:01:46 2021 user.info /usr/sbin/modbus_rtu_over_tcp[4062]: Client reconnection. ip:192.168.23.161, port:502
Wed Aug 4 21:01:46 2021 user.info /usr/sbin/modbus_rtu_over_tcp[4062]: Client connection is failed. ip:192.168.23.161, port:502
Wed Aug 4 21:01:46 2021 daemon.debug zebra[2197]: ubus_cell_pppoe.c:884 cell pppoe set: ip=10.33.66.128
Wed Aug 4 21:01:46 2021 daemon.debug zebra[2197]: ubus_cell_pppoe.c:893 cell pppoe set: mask=255.255.255.0
Wed Aug 4 21:01:46 2021 daemon.debug zebra[2197]: ubus_cell_pppoe.c:902 cell pppoe set: gate=10.33.66.129
Wed Aug 4 21:01:46 2021 daemon.debug zebra[2197]: ubus_cell_pppoe.c:911 cell pppoe set: dns1=218.85.157.99
Wed Aug 4 21:01:46 2021 daemon.debug zebra[2197]: ubus_cell_pppoe.c:920 cell pppoe set: dns2=218.85.152.99
Wed Aug 4 21:01:46 2021 daemon.debug zebra[2197]: ip_passthrough_install:216 [eth0]remove default gate '192.168.22.1!'
Wed Aug 4 21:01:46 2021 daemon.info zebra[2197]: ip_passthrough.c:290 ip_passthrough install: [Bridge0] addr=10.33.66.1, netmask=255.255.255.0
Wed Aug 4 21:01:47 2021 daemon.info dhcpcd: Internet Systems Consortium DHCP Server 4.3.5
Wed Aug 4 21:01:47 2021 daemon.info dhcpcd: Copyright 2004-2016 Internet Systems Consortium.
Wed Aug 4 21:01:47 2021 daemon.info dhcpcd: All rights reserved.
```

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(2) DHCP-Static Mode

Choose **DHCP-Static** mode, click **Save** and **Apply**.



After, **Reboot** the gateway once more. We will find that the gateway obtains an IP address from the router more quickly, so now the IP address of the gateway will change to the fixed public IP address of router before.

Status	Overview	Cellular	Network	WLAN	VPN	Routing	Host List	GPS
Network	DHCP Leases							
System								
Industrial								
		IP	MAC/DUID	Lease Remaining Time				
		10.33.66.128	ac:d1:b8:a4:93:45	23h 57m 34s				
		10.33.66.130	24:e1:24:f1:61:f2	23h 59m 07s				

When we access **10.33.66.128**, the user will access the gateway web GUI. But when the **Lease time** ends, the fixed public IP address of router (**10.33.66.128**) may be assigned to another device who obtains an IP address from router.

← → × 10.33.66.128/#networkserver/generalsetting

Status

Packet Forwarder

Network Server

Network

System

Maintenance

APP

For your device security, please change the default password.

General Applications Profiles Device Multicast Groups

General Setting

Enable ☒

Milesight IoT Cloud ☐

NetID

Join Delay sec

RX1 Delay sec

Lease Time hh-mm-ss

Log Level

Channel Plan Setting

Channel Plan

Channel Mask

Save & Apply