UC2000 Basic Configuration Practice Guide

Dinstar Corporation

Foreword

- This document is used to introduce the basic functions of UC2000, application scenarios, basic configuration, basic maintenance.

Course Objective

Through this course you will be able to

Understanding UC2000 models and interfaces

Understand the principle and scenarios of UC2000

Understanding the basic configuration of UC2000

Contents

Chapter One Course Introduce

01

1.1 Dinstar UC2000 Hardware Interface Description

1.2 UC2000 Interface Connection Cases

1.3 Introduction to UC2000 Login Page

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1.1 Dinstar UC2000 Hardware Interface Description

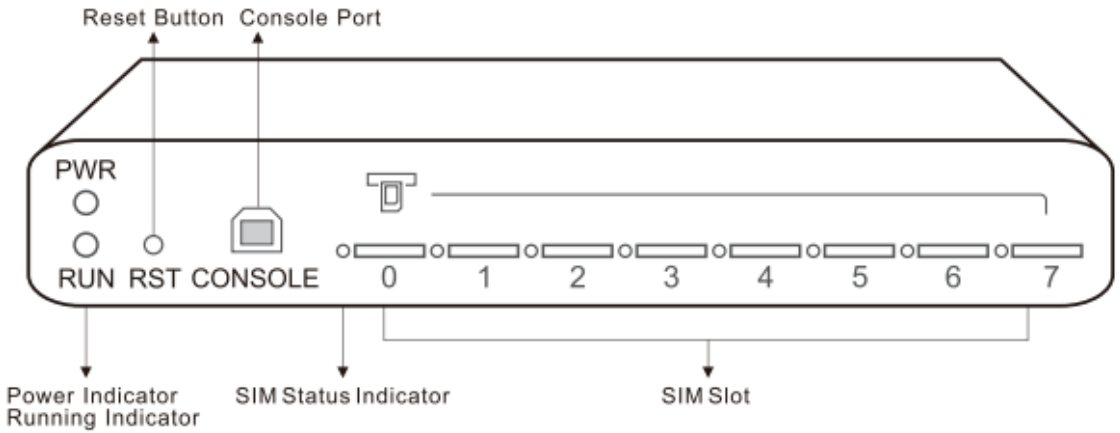
1. UC2000 Series Technical Specifications

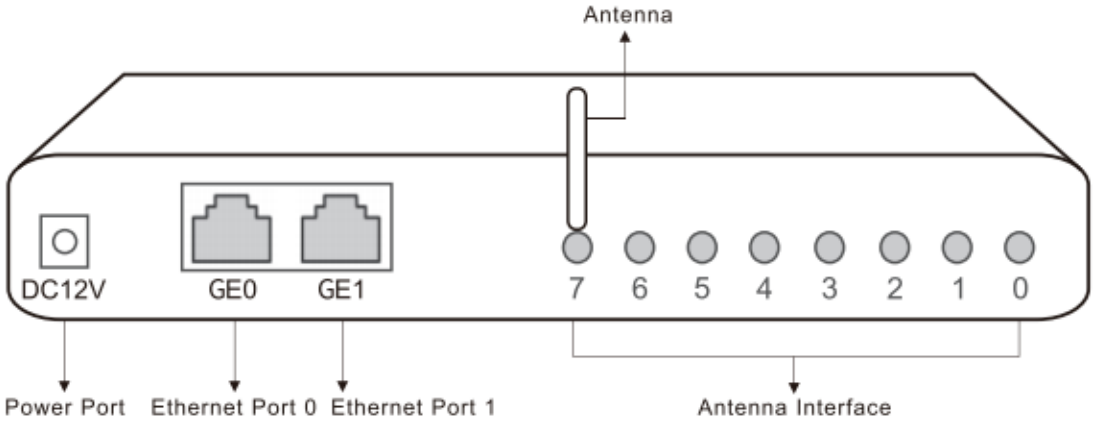
	Network Port	Model
UC2000-VE	GE0/1	4/8 G/T
UC2000-VF	GE0/1	8/16 G/T Multi-SIM
UC2000-VG	GE0/1	16/32 G/T Multi-SIM

1.1 Dinstar UC2000 Hardware Interface Description

2. Indicators and Ports(UC2000-VE)

► UC2000-VE

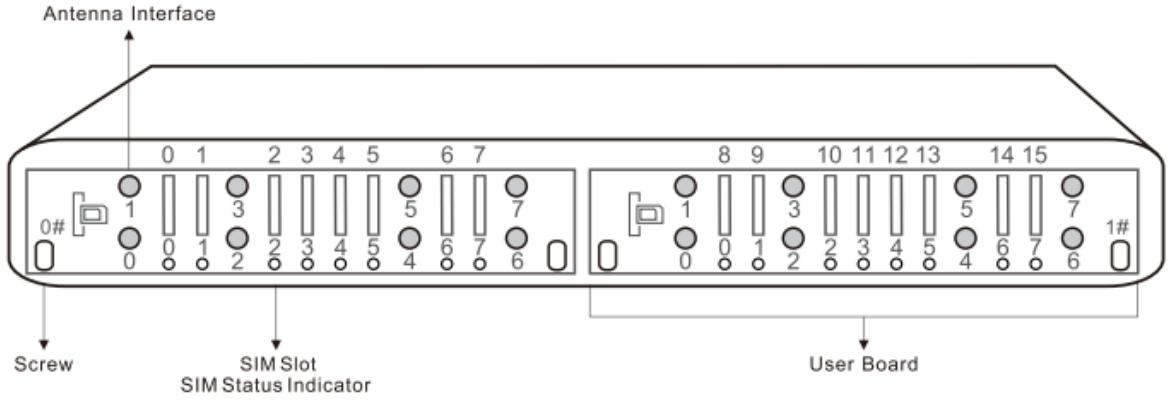


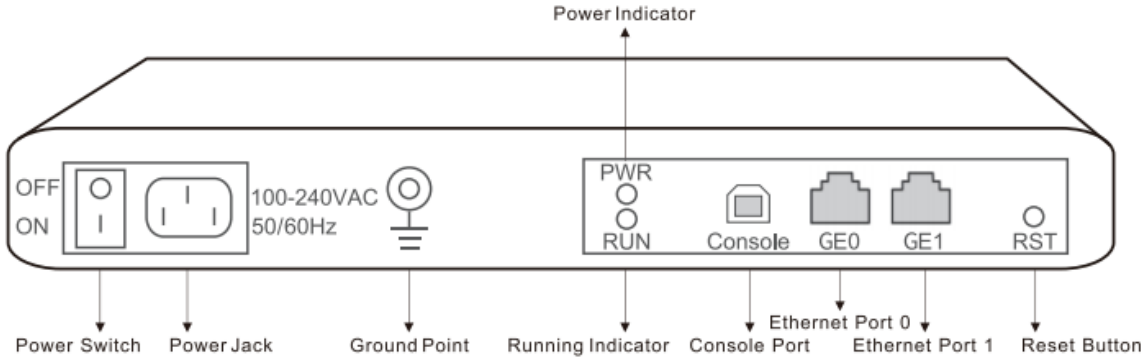


1.1 Dinstar UC2000 Hardware Interface Description

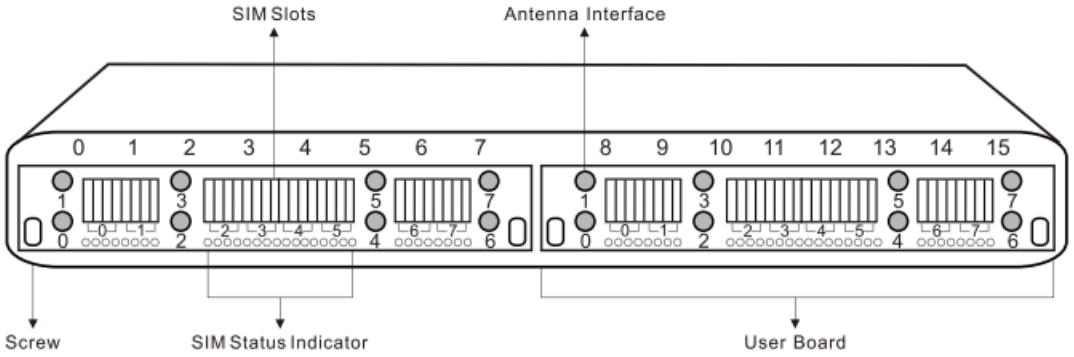
3. Indicators and Ports(UC2000-VF)

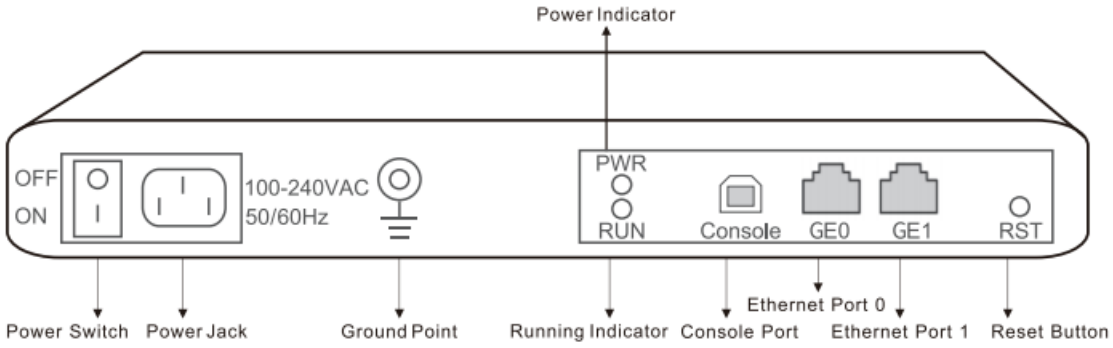
▶ UC2000-VF





▶ UC2000-VF(Multi-SIM)

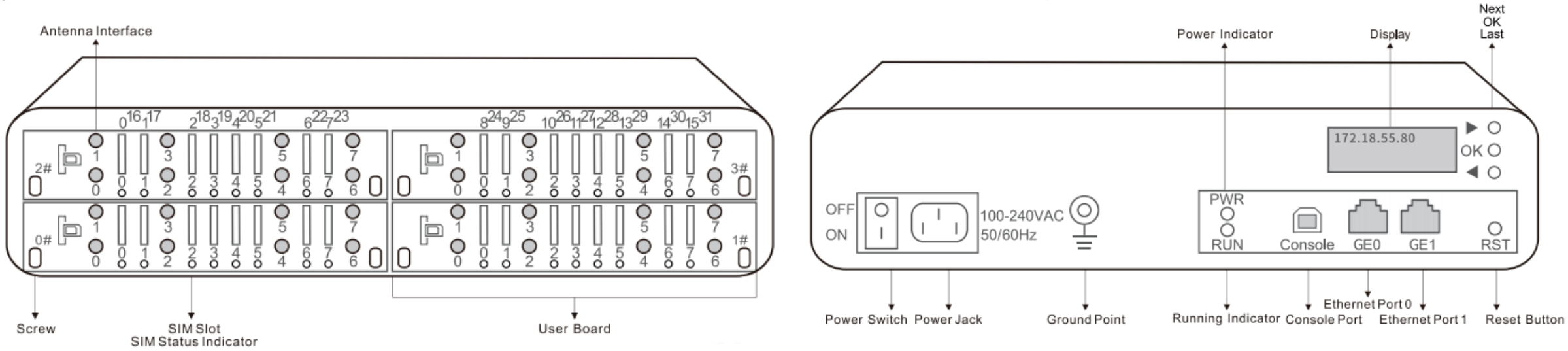




1.1 Dinstar UC2000 Hardware Interface Description

4. Indicators and Ports(UC2000-VG)

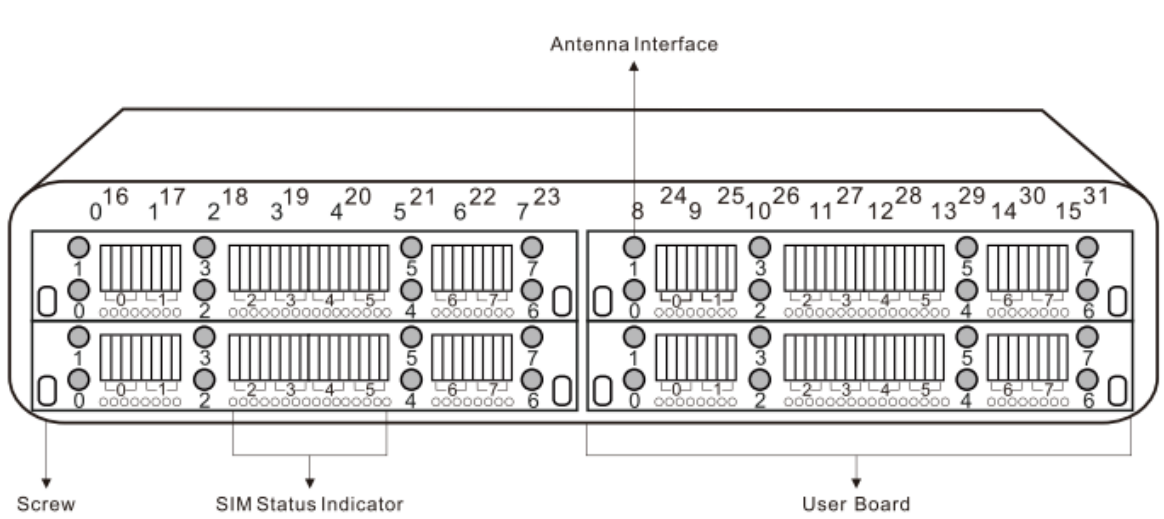
▶ UC2000-VG

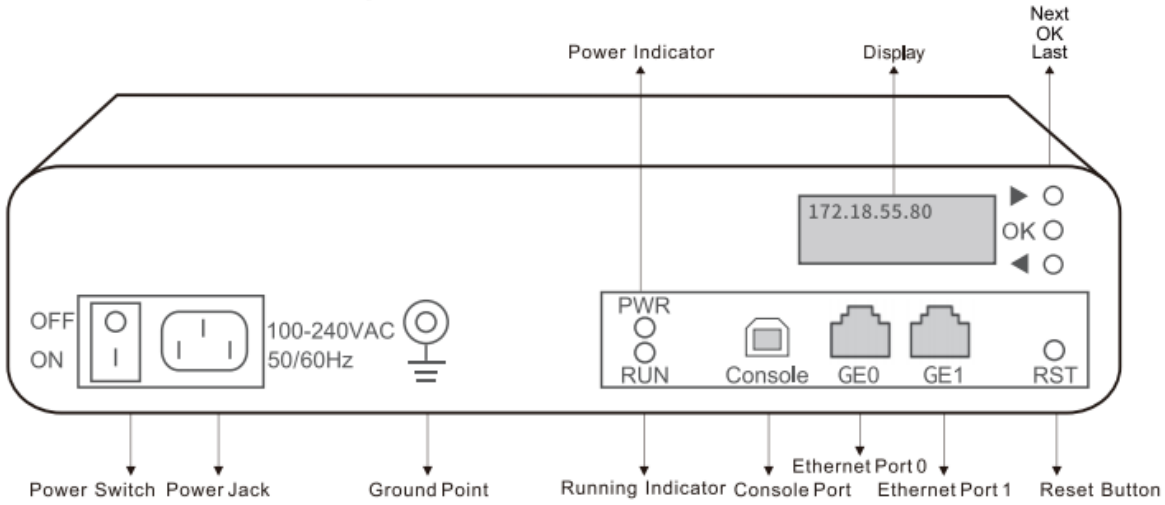


1.1 Dinstar UC2000 Hardware Interface Description

5. Indicators and Ports(UC2000-VG Multi-SIM)

▶ UC2000-VG(Multi-SIM)





1.2 UC2000 Interface Connection Cases

1. Installation Attentions

- UC2000-VE is equipped with 12V DC power adapter,while UC2000-VF,UC2000-VG and UC2000-VH accept AC input voltage of 100-240V.Please ensure safe and stable power supply.
- Before you put the gateway into use,please ensure SIM card has been inserted into the gateway,antennas are well-connected to the gateway and network connection is proper.
- To avoid poor signal strength,please place the gateway away from those objects that can shield signals.
- Please prevent water from seeping in the gateway during transportation,storage or working time.
- It's highly advised to horizontally place the gateway on a flat surface or a cabinet.

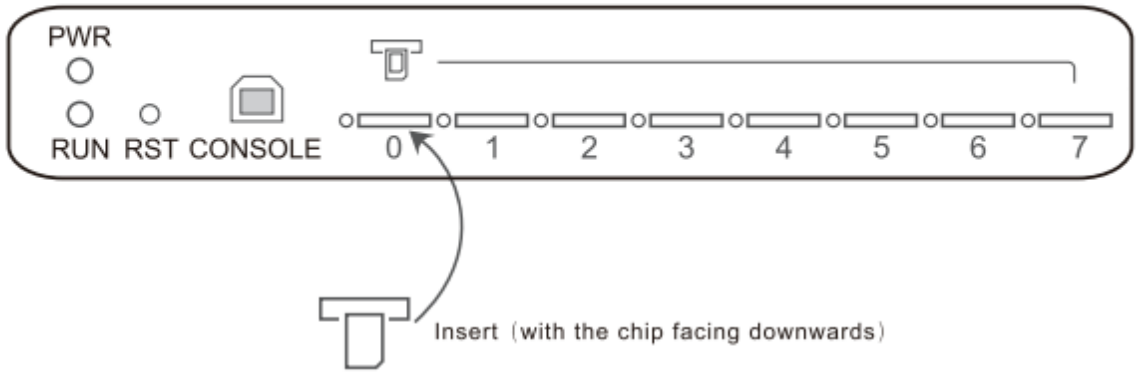
1.2 UC2000 Interface Connection Cases

2. Installation Instructions

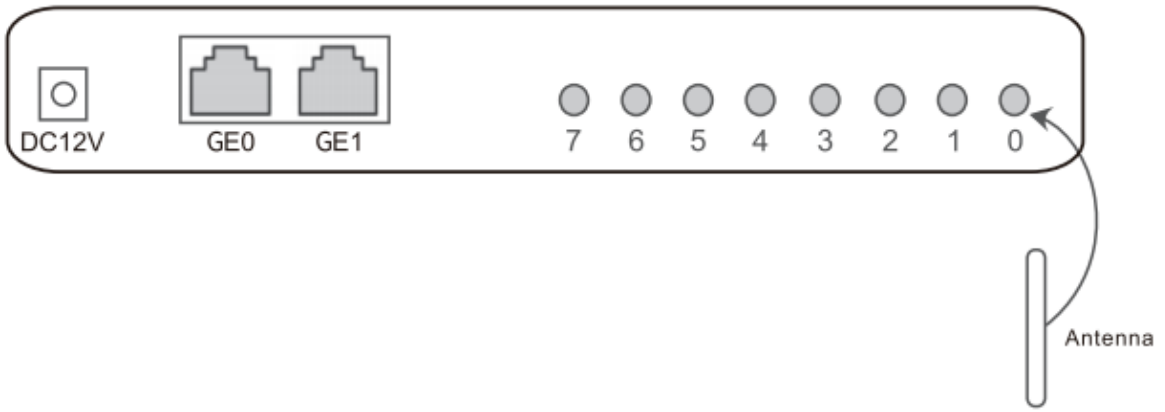
Here we use the UC2000-VE connection as a case study.

▶ Connection Diagram for UC2000-VE

- Insert SIM Card into Gateway



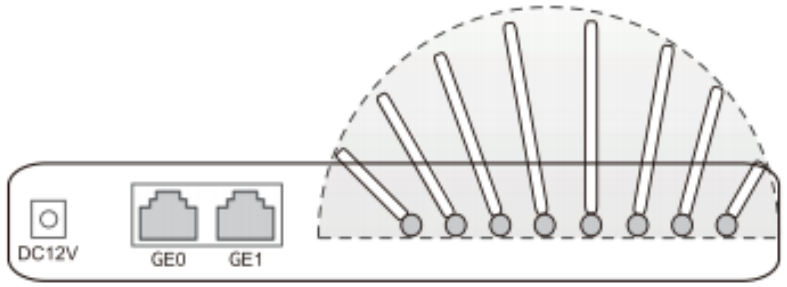
- Connect Antennas to Gateway

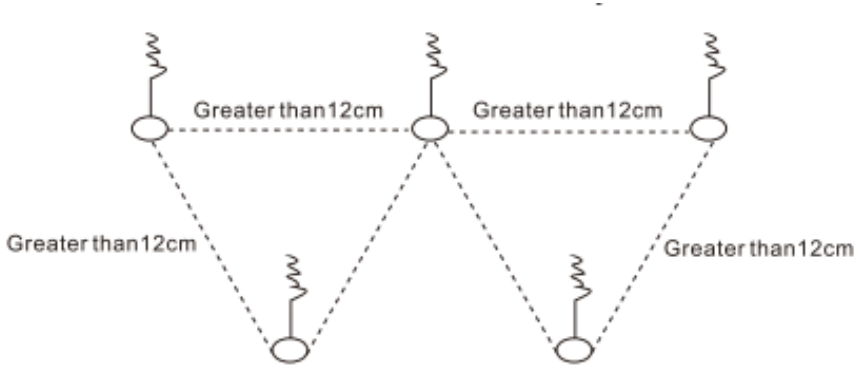


1.2 UC2000 Interface Connection Cases

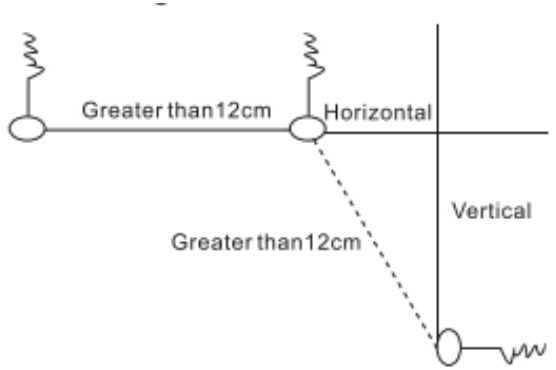
3. Antenna Installation Tips

- It's highly suggested that antennas of UC2000-VE be placed into a fan shape as shown in the following figure, so as to strengthen wireless signal.
- When you install antennas to UC2000-VF, UC2000-VG and UC2000-VH, please note that the distance of every two antennas should be greater than 12cm.





▲Antennas are placed on a same surface



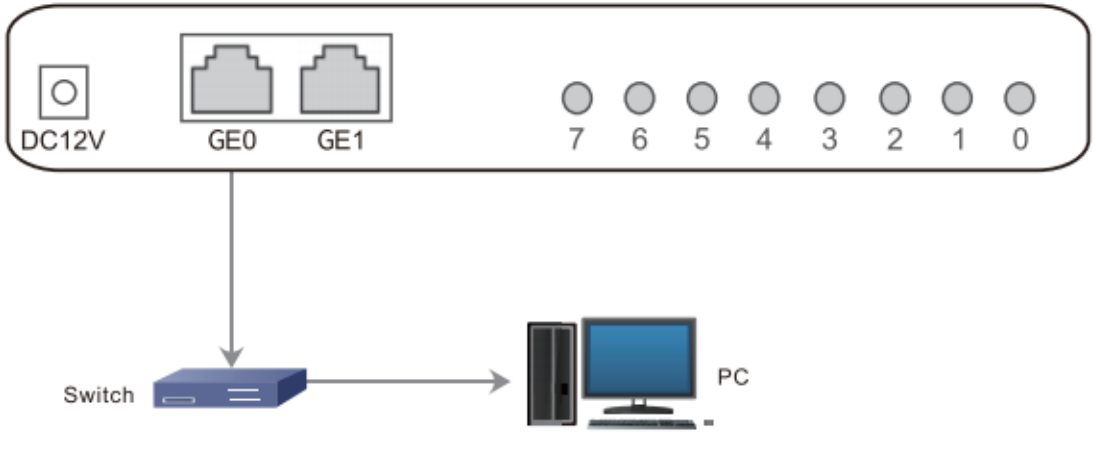
▲Antennas are placed on different surfaces

1.2 UC2000 Interface Connection Cases

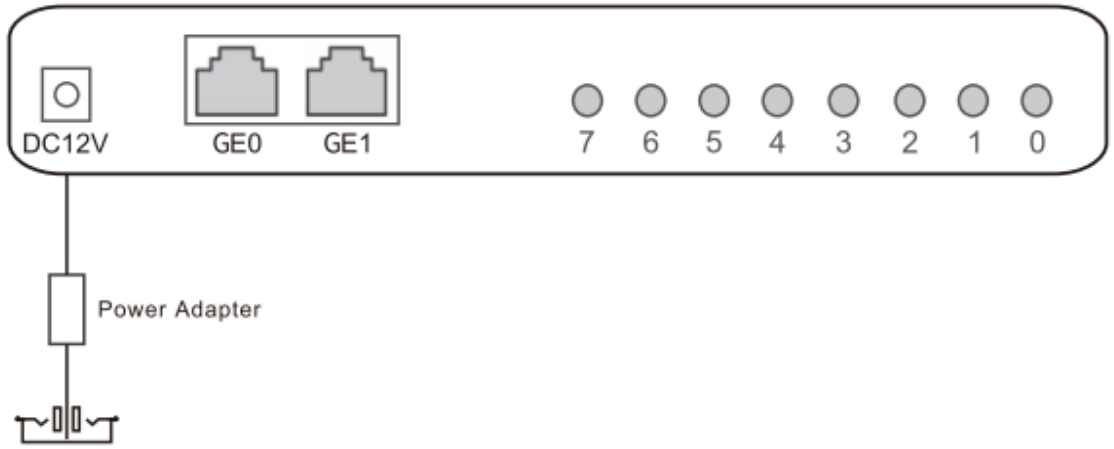
4. Connect to the network port and power supply of the UC2000-VE

- The deafult IP addresses of the UC2000's series management port are all 192.168.11.1. so set the PC's IP to 192.168.11.x, e.g. 192.168.11.3.
- UC2000-VE is equipped with 12V DC power adapter.

- Connect Gateway to Network



- Connect DC Power Adapter to Power Port of Gateway



1.3 Introduction to UC2000 Login Page

1. Log in Web Interface

- Web access to the default IP 192.168.11.1 of the UC2000 using HTTP/HTTPS.
- Default username: admin password: admin

1.3 Introduction to UC2000 Login Page

2. Web view system information

Contents

Chapter Two Course Introduce

02

2.1 Setting up network information

2.2 Setting SIP calls

2.3 Setting SMS/USSD

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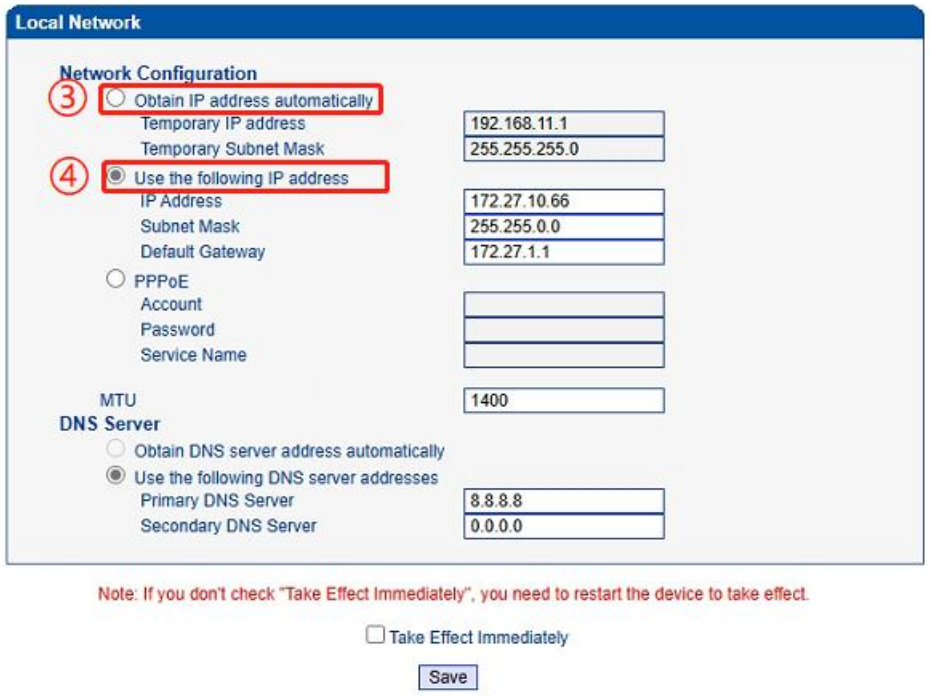
2.1 Setting up network information

1.Setting Up Network Configuration

After visiting a web page, it is recommended to set the network information first. Support DHCP mode and static IP mode

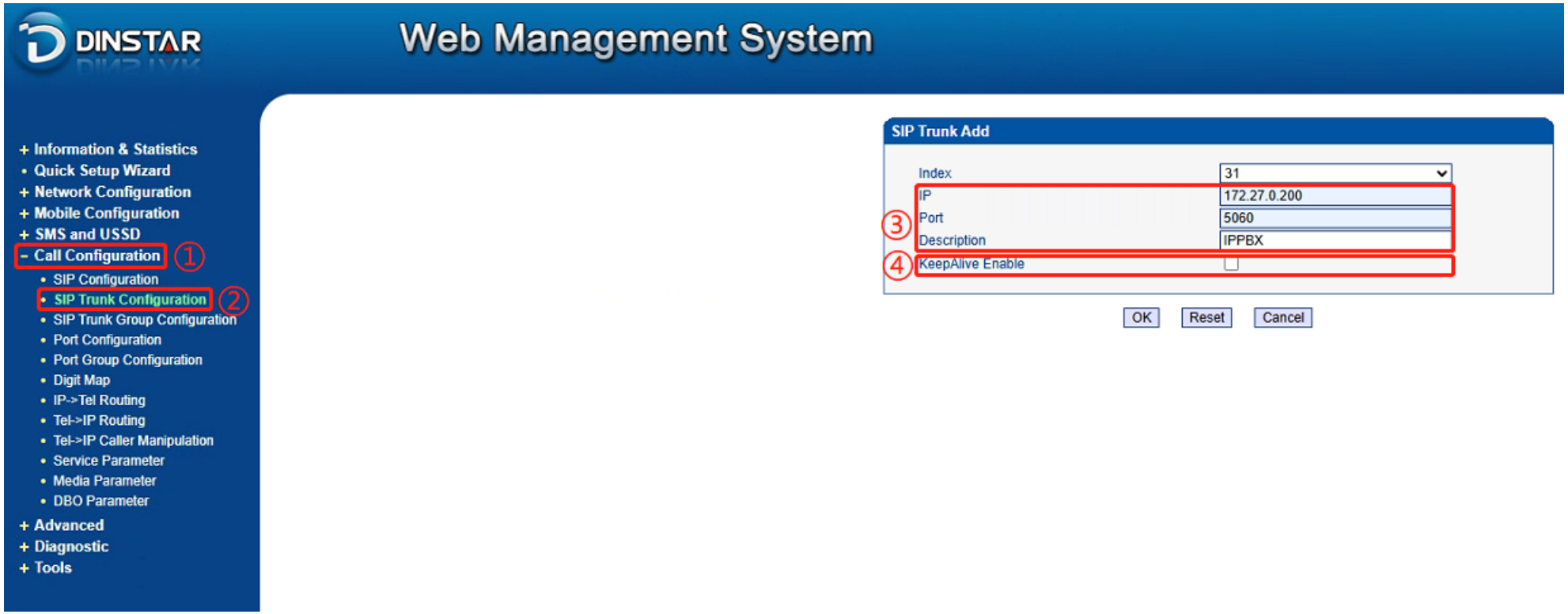


2.2 Setting SIP calls

1. SIP Trunk mode

① Set SIP trunk to UC2000

The SIP Trunk mode is designed to connect via SIP trunk between the UC2000 and the UC2000 with other clients/applications or IPPBX/softswtich on the same or different network segments via SIP trunks without registering to the server side.



2.2 Setting SIP calls

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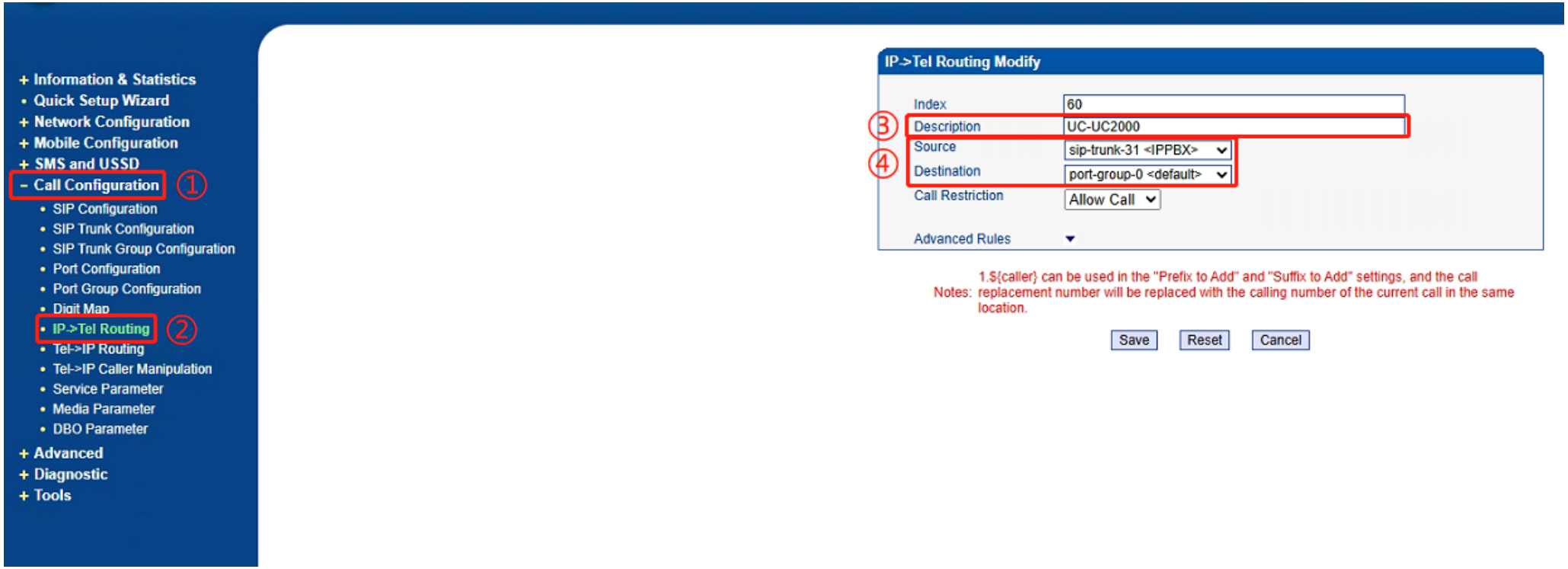
1. SIP Trunk mode

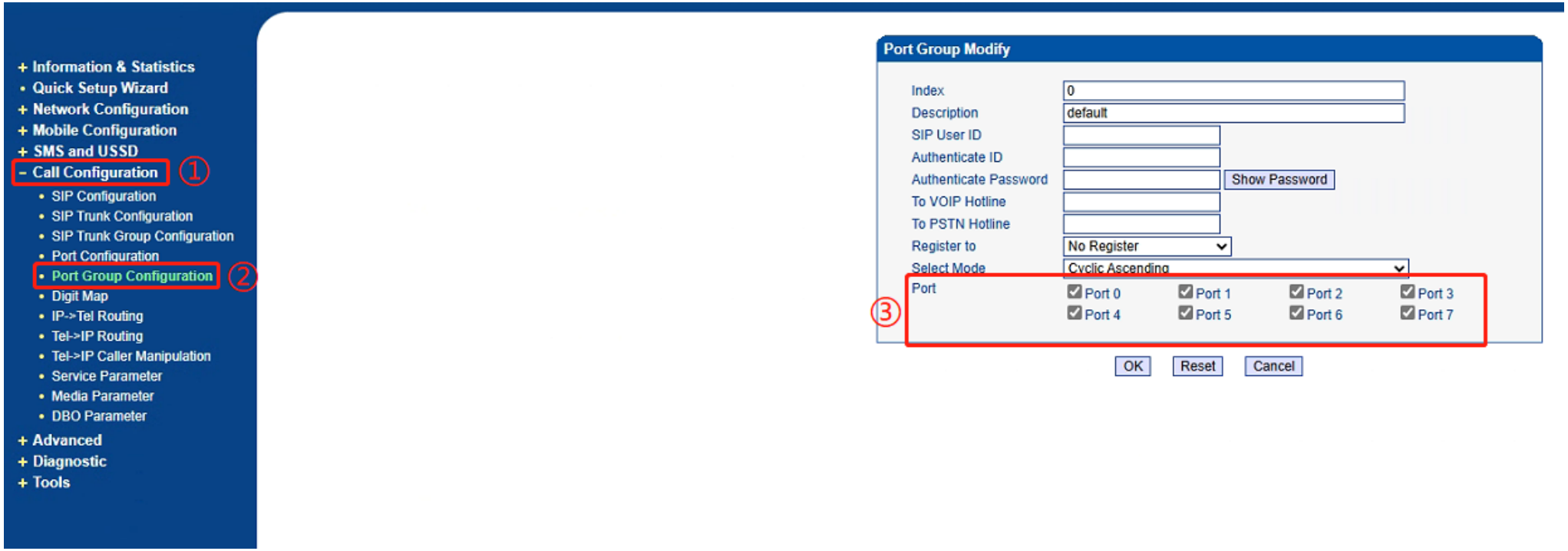
② Set Outbound Call in UC2000(A route to all ports or some ports)



2.2 Setting SIP calls

1. SIP Trunk mode

③ Set Port Group Configuration in Outbound Call

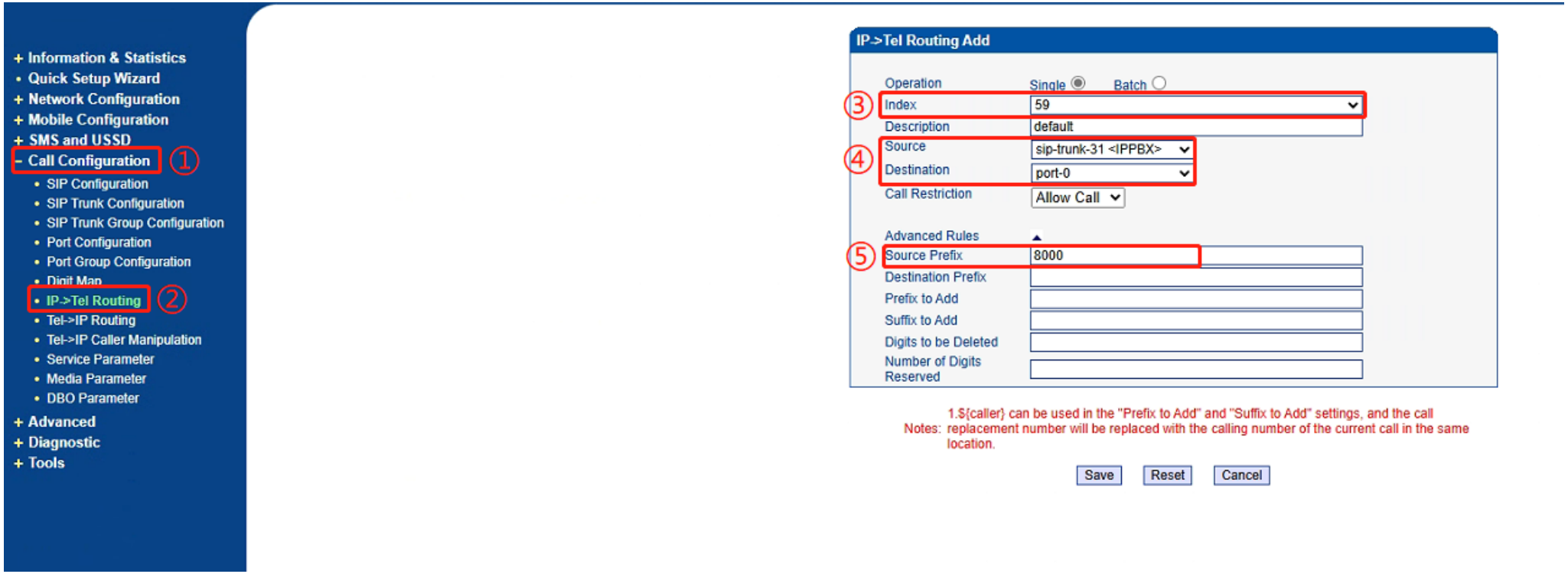


2.2 Setting SIP calls

1. SIP Trunk mode

④ Set Outbound Call in UC2000(A route to a specific port)

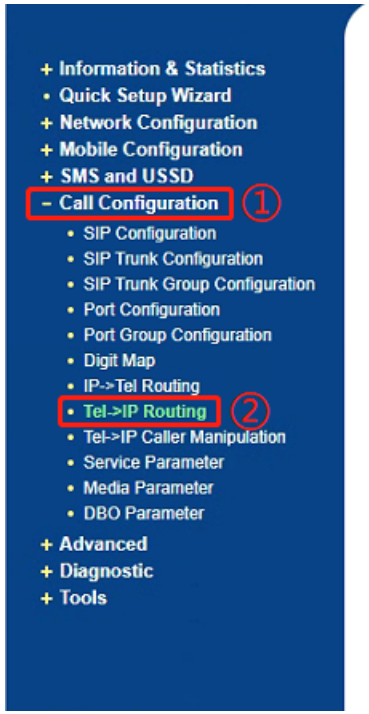
If you want to specific call with specific port, like P2P. You can match the prefix of caller number and map the call to target port.

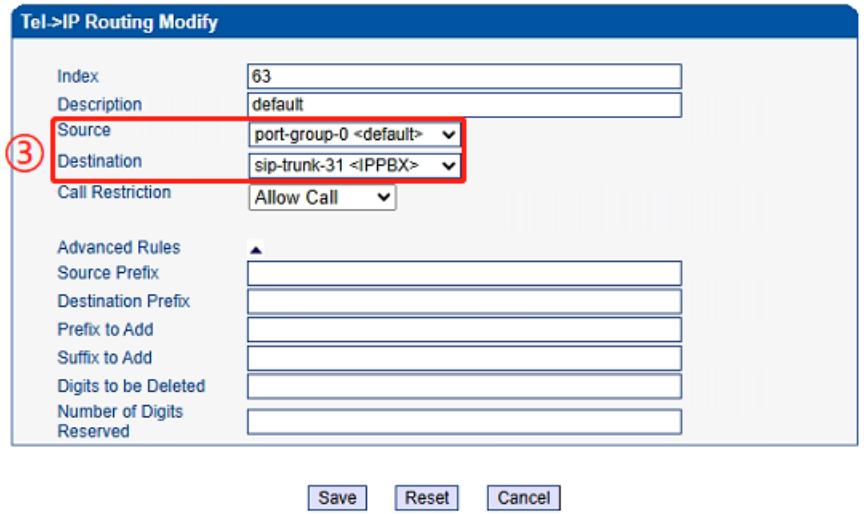


2.2 Setting SIP calls

1. SIP Trunk mode

⑤ Set Inbound Call to UC2000



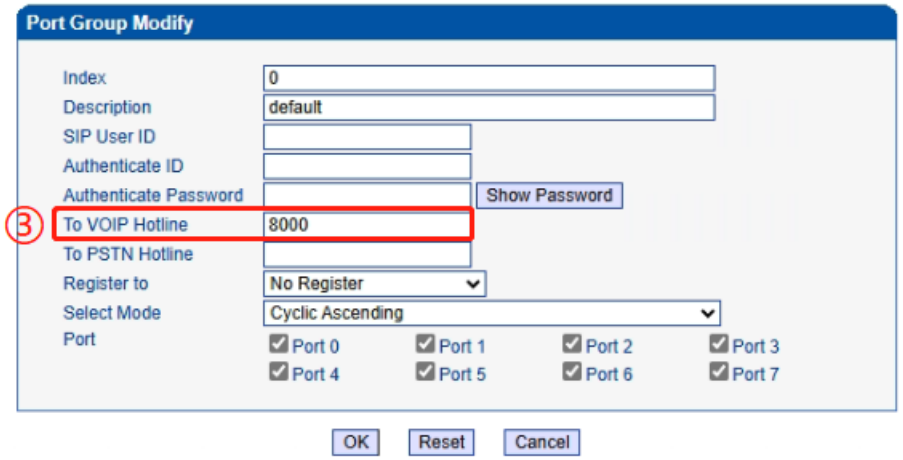


2.2 Setting SIP calls

1. SIP Trunk mode

⑥ Set VoIP Hotline number on Port Group Configuration

All channels use same hotline number

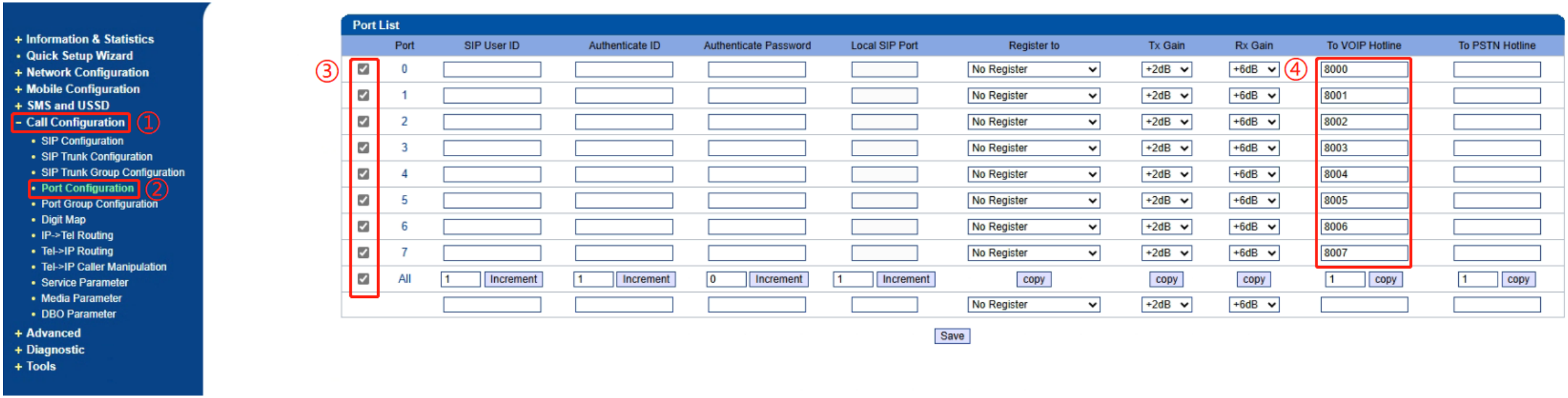


2.2 Setting SIP calls

1. SIP Trunk mode

⑦ Set VoIP Hotline number on port or port group configuration

different channels use different hotline Number

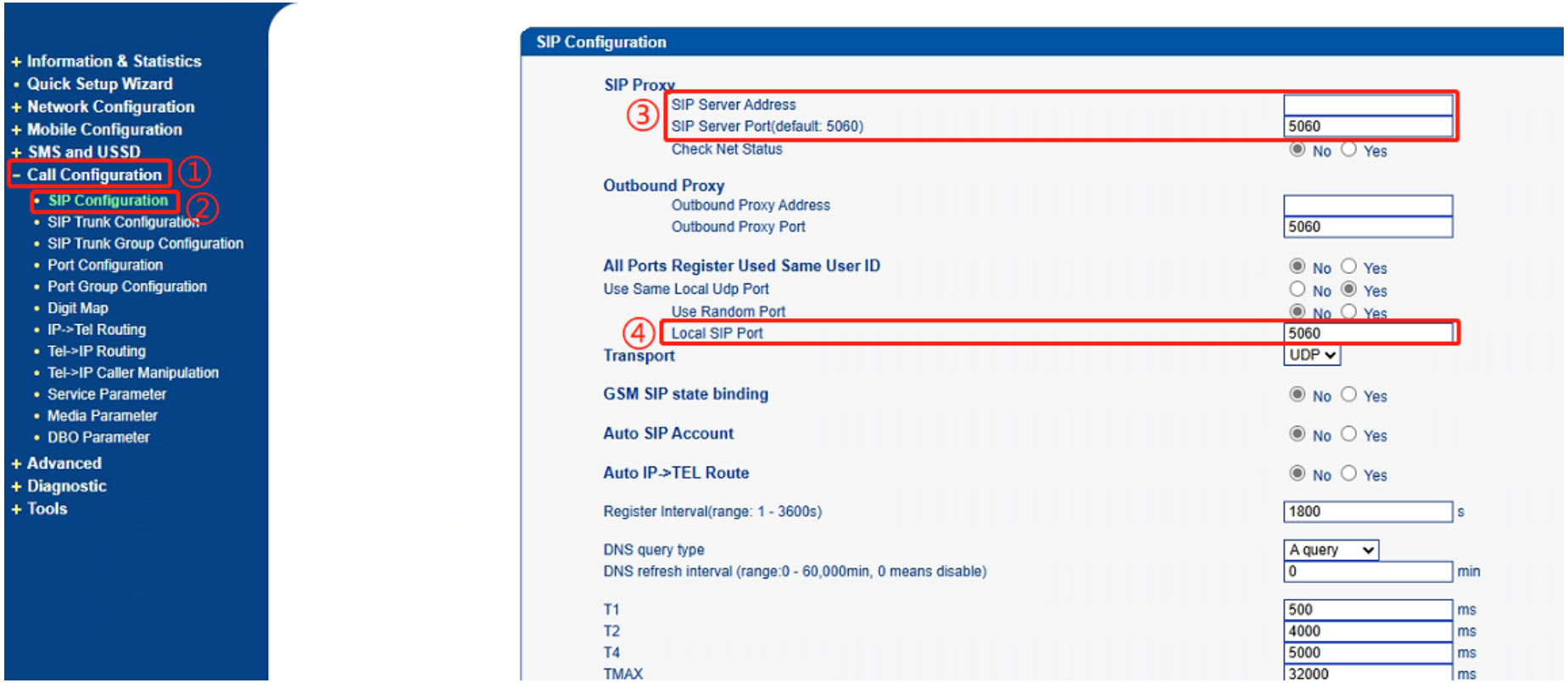


2.2 Setting SIP calls

2. Register mode

① Set SIP Configuration

In some cases, the UC2000 will use registration mode.For example,the UC2000 gateway is a private IP and the sip server is public IP. The UC2000 should register to the sip server. So that the SIP server is easy to send calls to UC2000

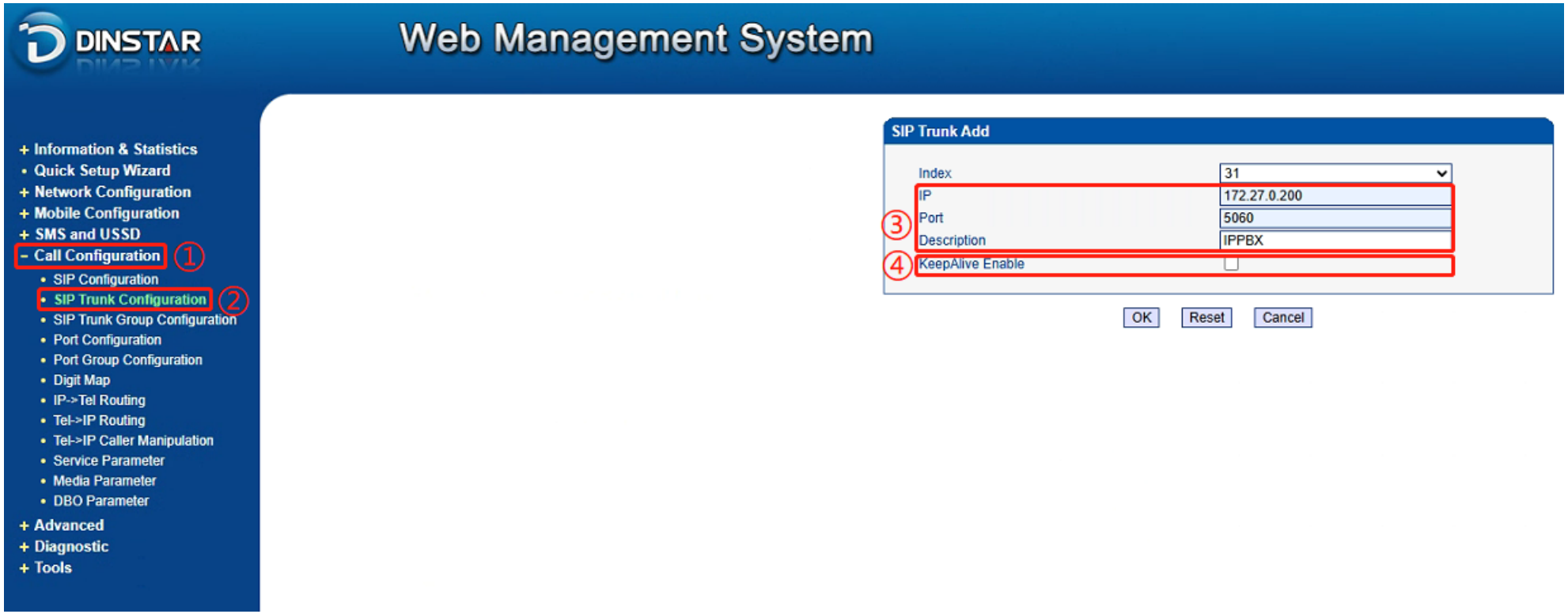


2.2 Setting SIP calls

2. Register mode

② Set multiple SIP SrversConfiguration

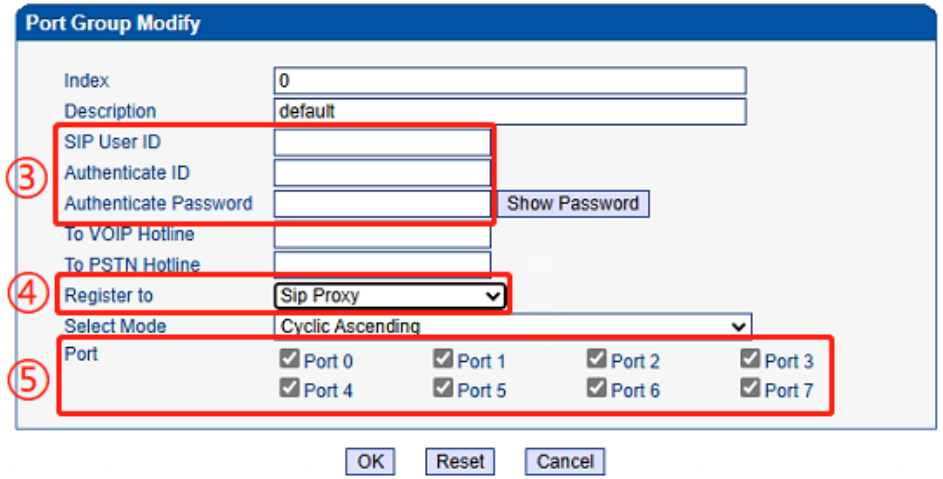
If you want to use multiple sip servers at the same time, you can add a sip trunk.



2.2 Setting SIP calls

2. Register mode

③ Set Port Group (Whole device use one sip account)

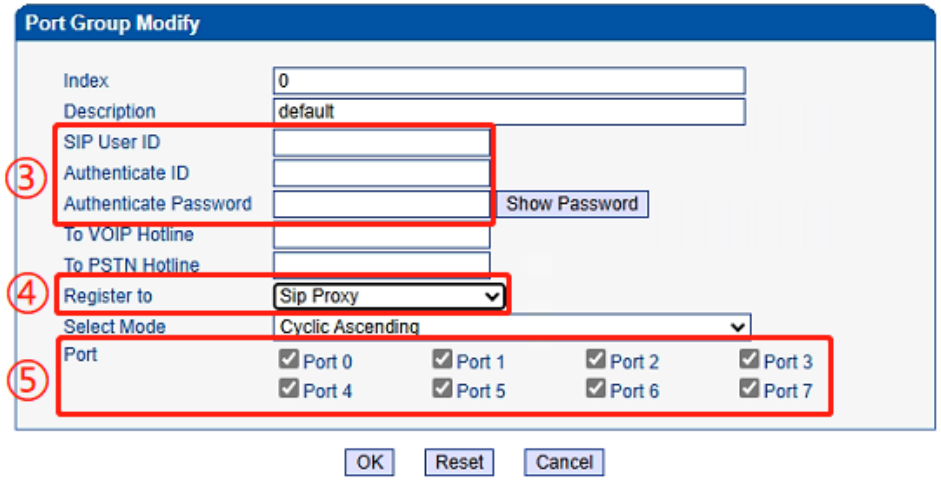


2.2 Setting SIP calls

2. Register mode

④ Set Port Group (Split devices use several sip accounts)

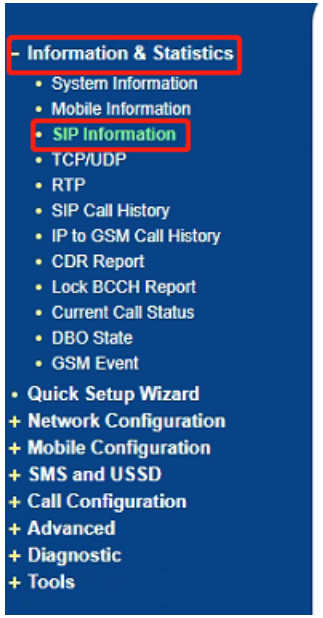
If you want to split the device ports registered to two different sip servers, you can add two port groups and one port group choose register to SIP Proxy and the other register to the sip trunk.

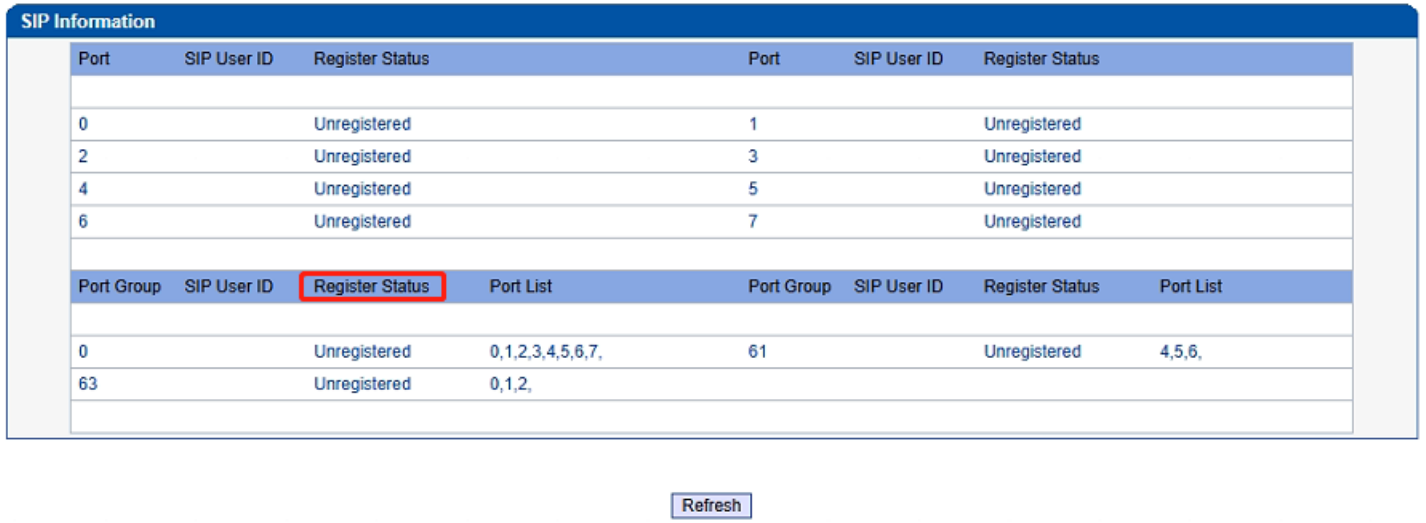


2.2 Setting SIP calls

2. Register mode

⑤ Check the register status





2.2 Setting SIP calls

2. Register mode

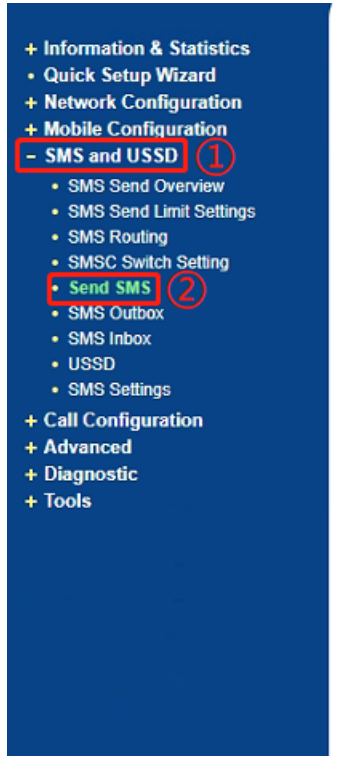
⑥ Set Outbound/Inbound Route in UC2000

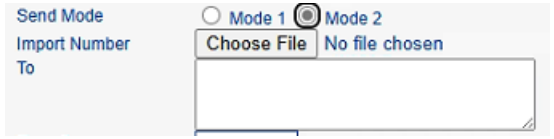
The steps are the same as those for setting up inbound and outbound routes for SIP trunks.

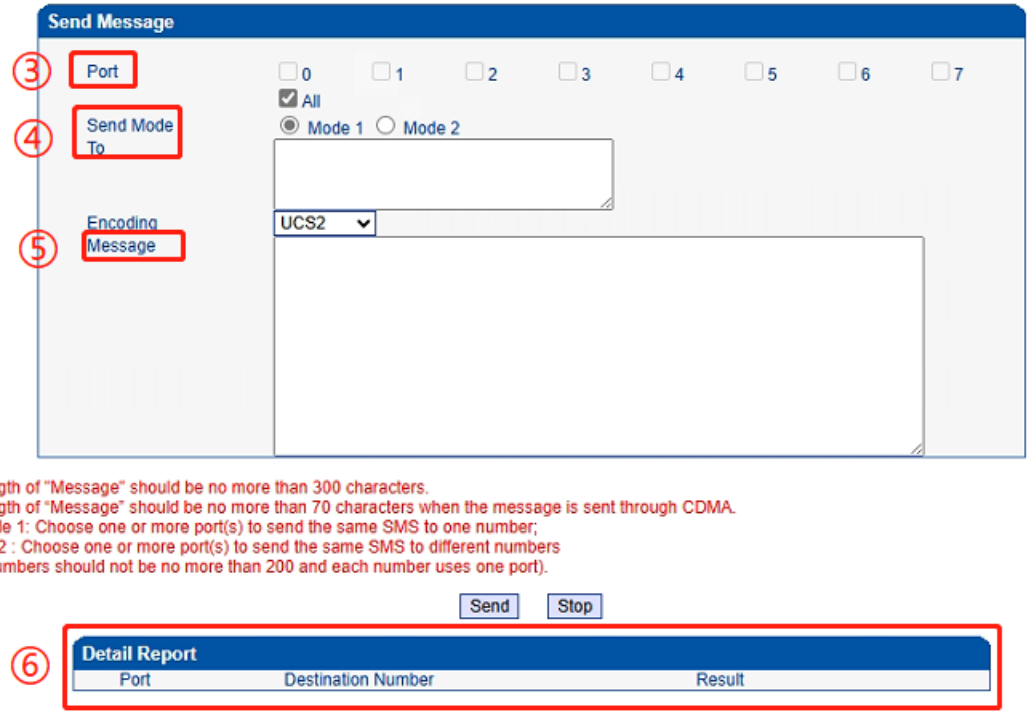
2.3 Setting SMS/USSD

3. Send SMS

① Local send SMS



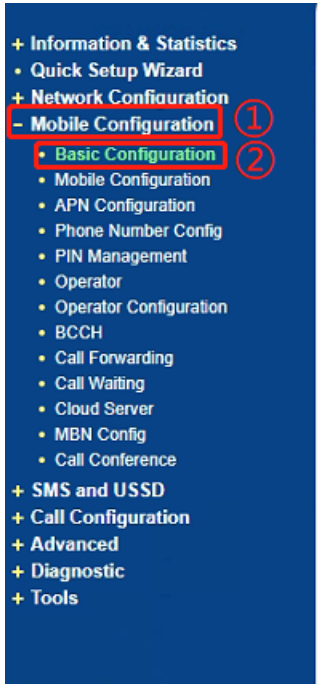


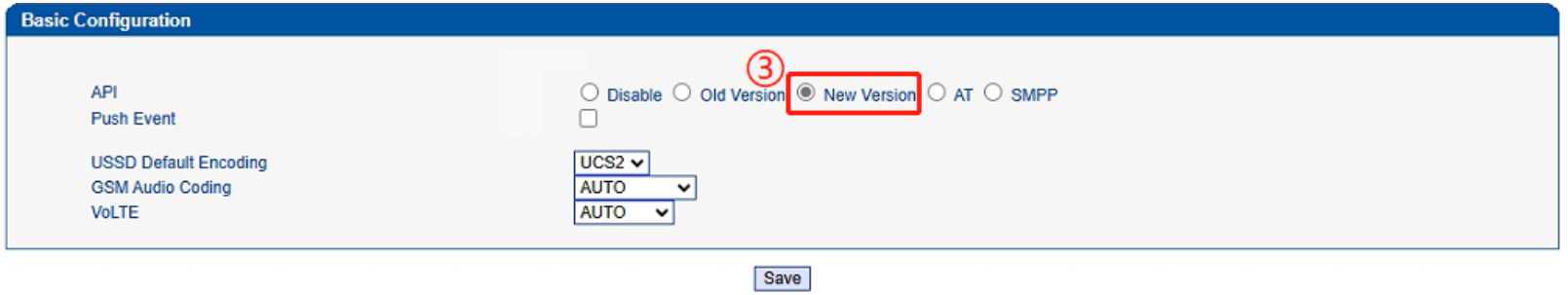


2.3 Setting SMS/USSD

3. Send SMS

② Send SMS via HTTP API



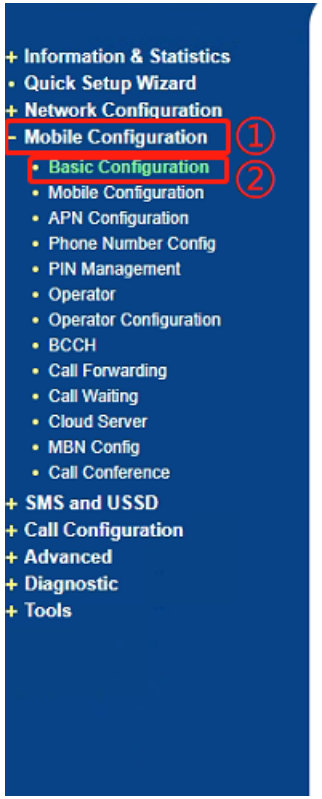


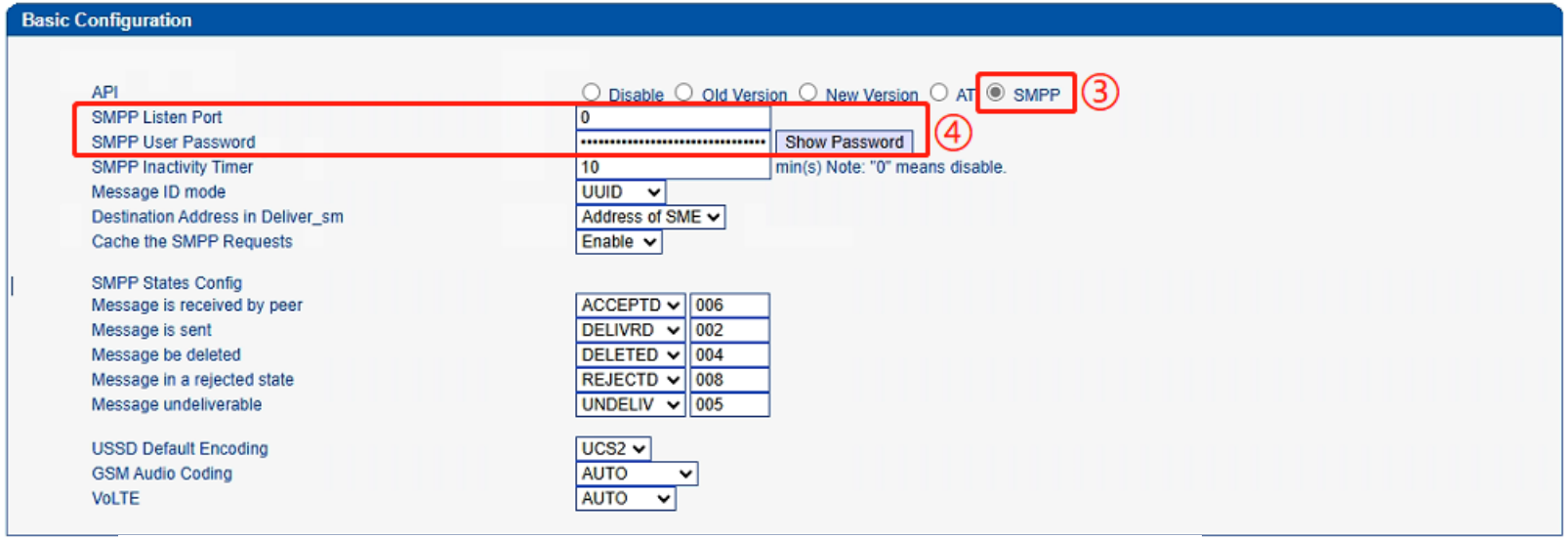
Notes: 1. After enabling/disabling the VoLTE, you need to restart the module to take effect.

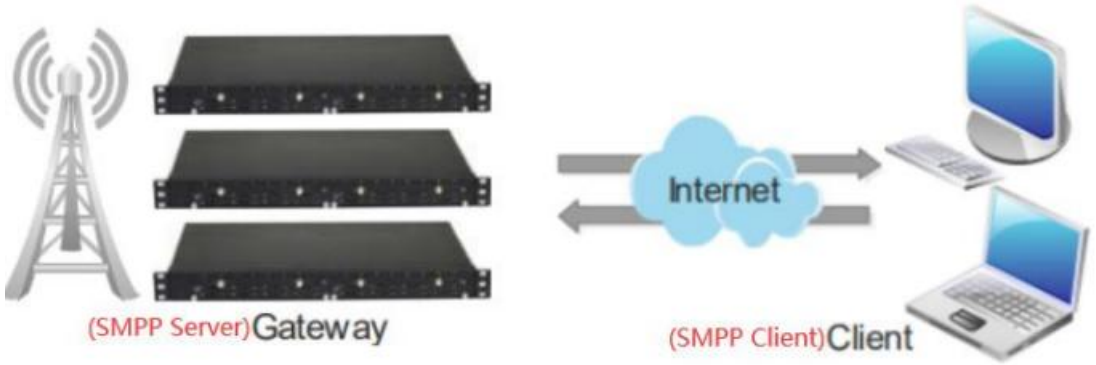
2.3 Setting SMS/USSD

3. Send SMS

③ Send SMS via SMPP

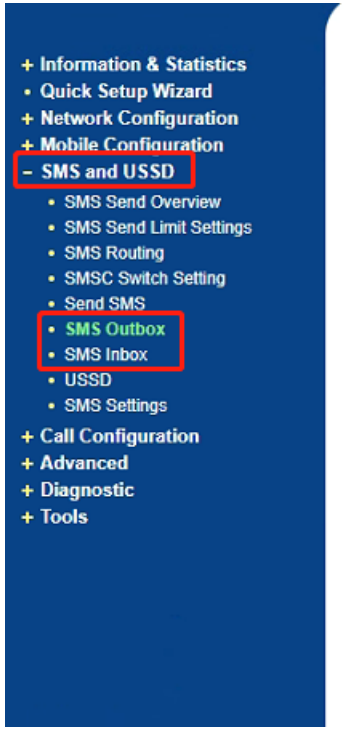


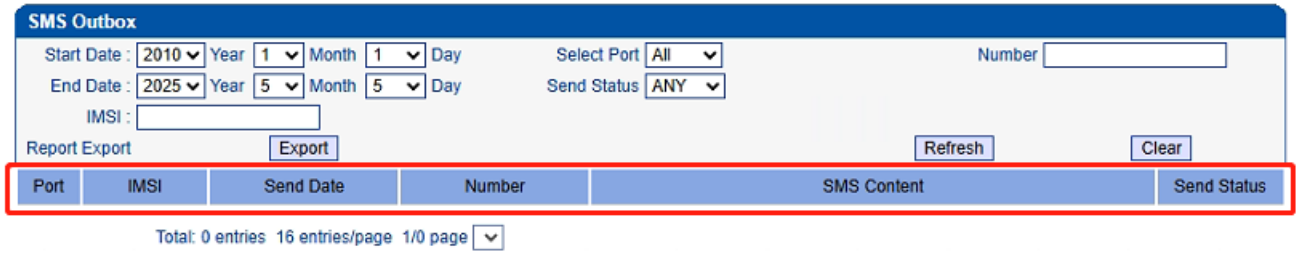




2.3 Setting SMS/USSD

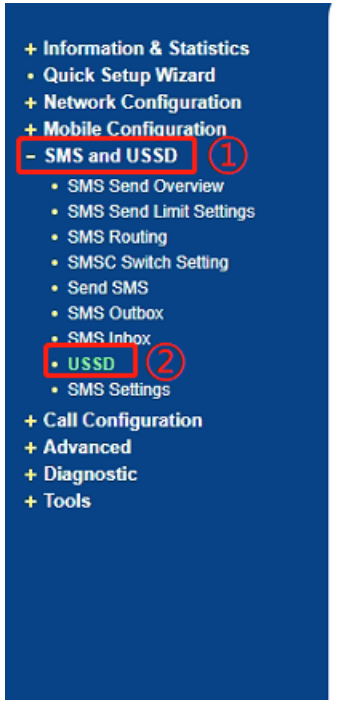
4. Check SMS sent status

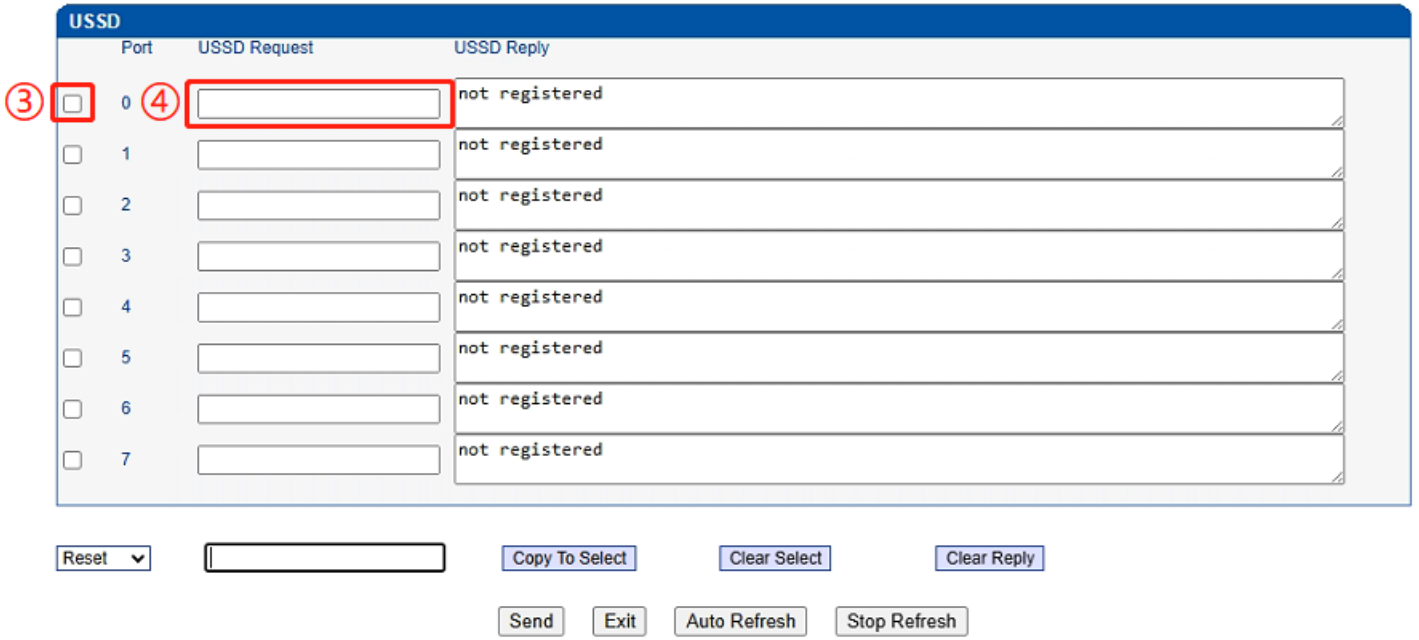




2.3 Setting SMS/USSD

5. Send USSD





Contents

Chapter Three Course Introduce

03

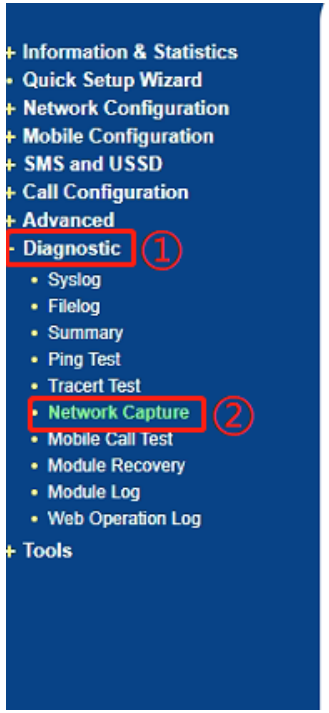
3.1 Getting network capture

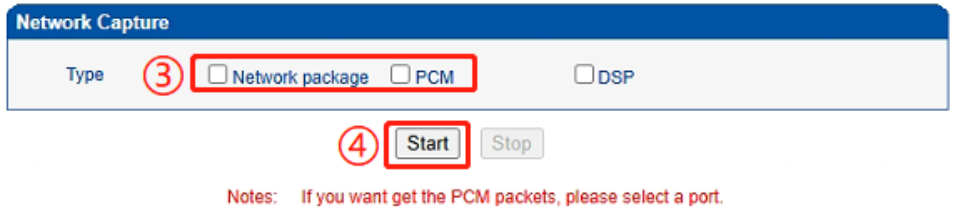
3.2 Getting the log

DINSTAR

3 SBC Basic Maintenance

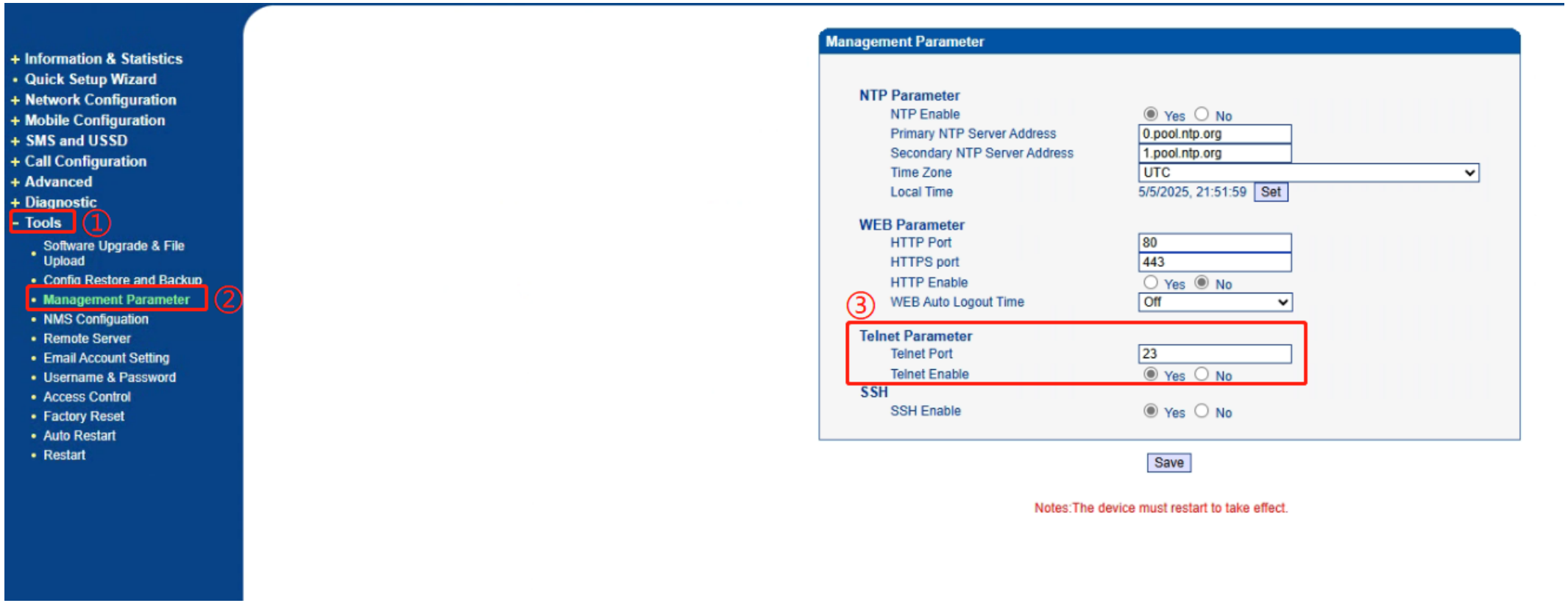
- 3.1 getting network capture





3 SBC Basic Maintenance

- 3.2 getting the log



Contents

Summary

- This course we already learn:
  - Understanding the UC2000 interface
  - Understand the basic connection of UC2000
  - Understand the application scenarios of UC2000
  - Understand the basic configuration of UC2000

Abbreviation

- SIP：Session Initiation Protocol
- UC2000: Wireless Gateway

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THANKS

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