MTG Advance Configuration Practice Guide

Foreword

- This course is mainly:
  - Introduce MTG Advanced Features
  - Introduce MTG Advanced Configuration

Course Objective

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Through this course you will be able to

- What are the Advanced Features
- How To SET Advanced Features
- How To Set IMS

Contents

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Chapter One
MTG Advanced Features

01

Number Manipulation

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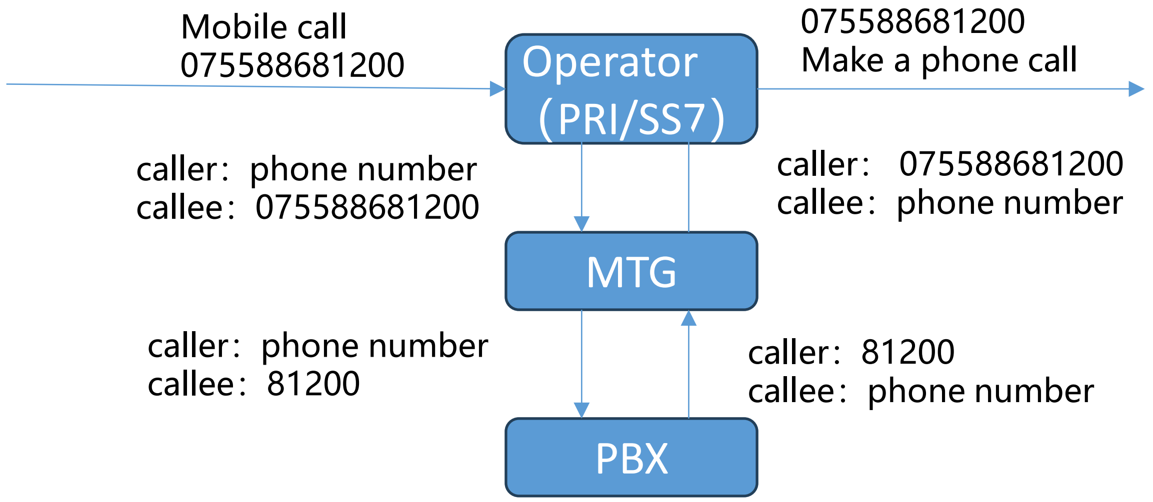
- ## Call Process

Incoming Call: operator-MTG-PBX, MTG needs to remove the 0755886 prefix from the called and send it to PBX

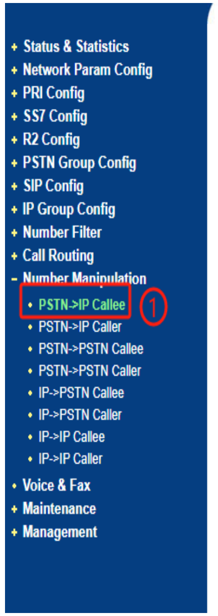
Outcoming Call: PBX-MTG-operator, extension number 81200 needs to be prefixed with 0755886 to be called out through the operator's line

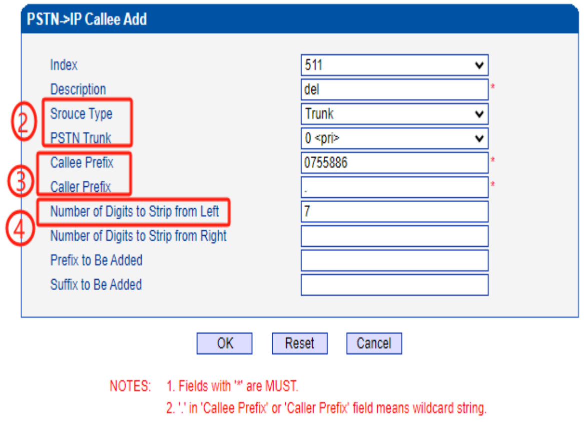


Number Manipulation

- ## Incoming Call Number Manipulation

1. Click on **Number Manipulation - PSTN ->IP Callee**
2. Source type: PSTN trunk corresponding to the operator
3. The caller prefix Fill in . indicate any ,the callee prefix Fill in 07558864
4. Number of digits to strip from the left fill in 7





Number Manipulation

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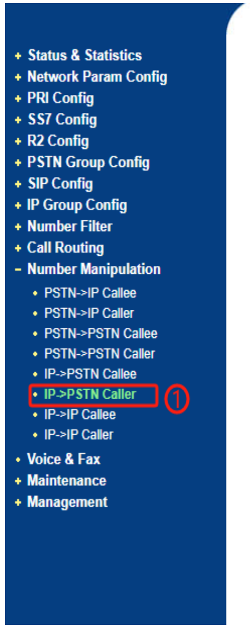
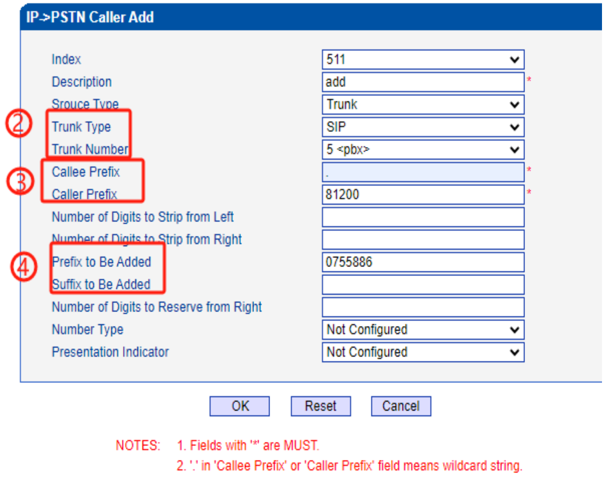
- ## Outcoming Call Number Manipulation

1. Click on **Number Manipulation - IP ->PSTN Caller**
2. Source type: Select the SIP trunk corresponding to PBX
3. The caller prefix Fill in 81200, the callee prefix Fill in . indicate any
4. Prefix to Be Added: Fill in 0755886

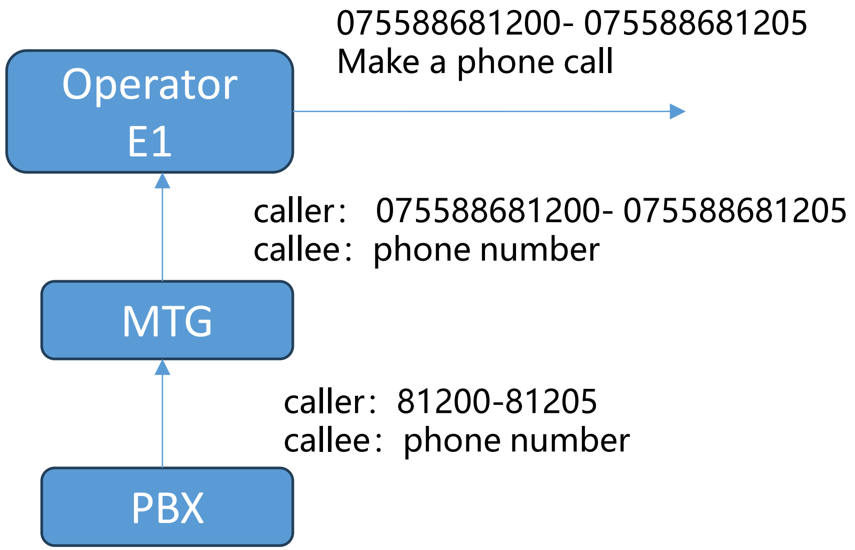




Caller Pool

- ## Call Process

Call out: It appears to be any one of the numbers 075588681200-075588681205 issued by the operator



Caller Pool

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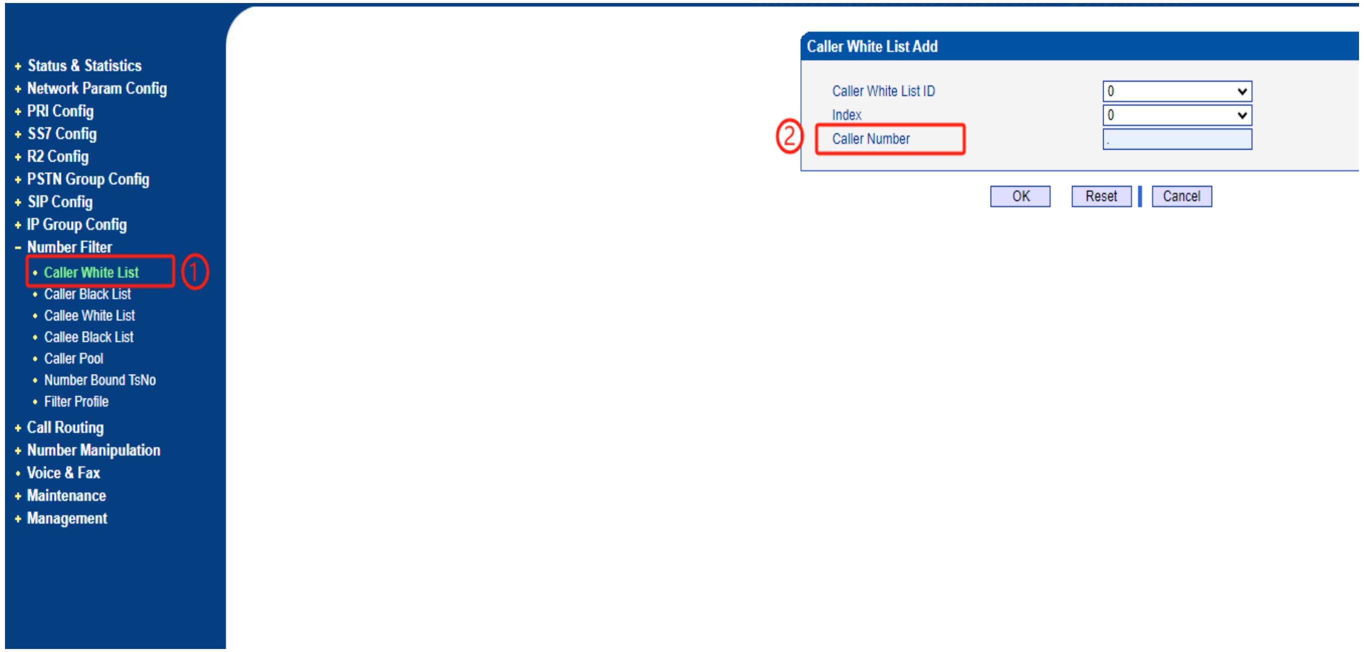
• Caller Pool configuration

Configure Caller White List → Configure Call pool → Configure Filter Profile → Route setting

1. Click on **Number Filter - Caller White List**
2. Caller number fill in . indicate any



Caller Pool

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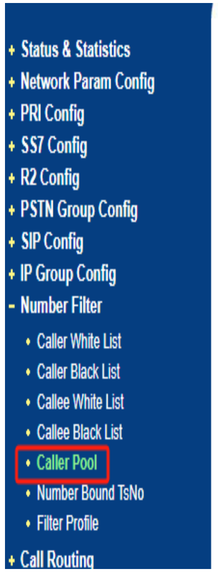
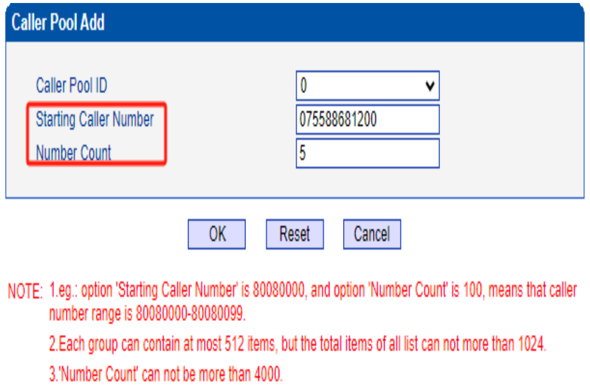
• Caller Pool configuration

Configure Caller White List → **Configure Call pool** → Configure Filter Profile → Route setting

1. Click on **Number Filter - Caller Pool**
2. Fill in the starting number and count provided by the operator





Caller Pool

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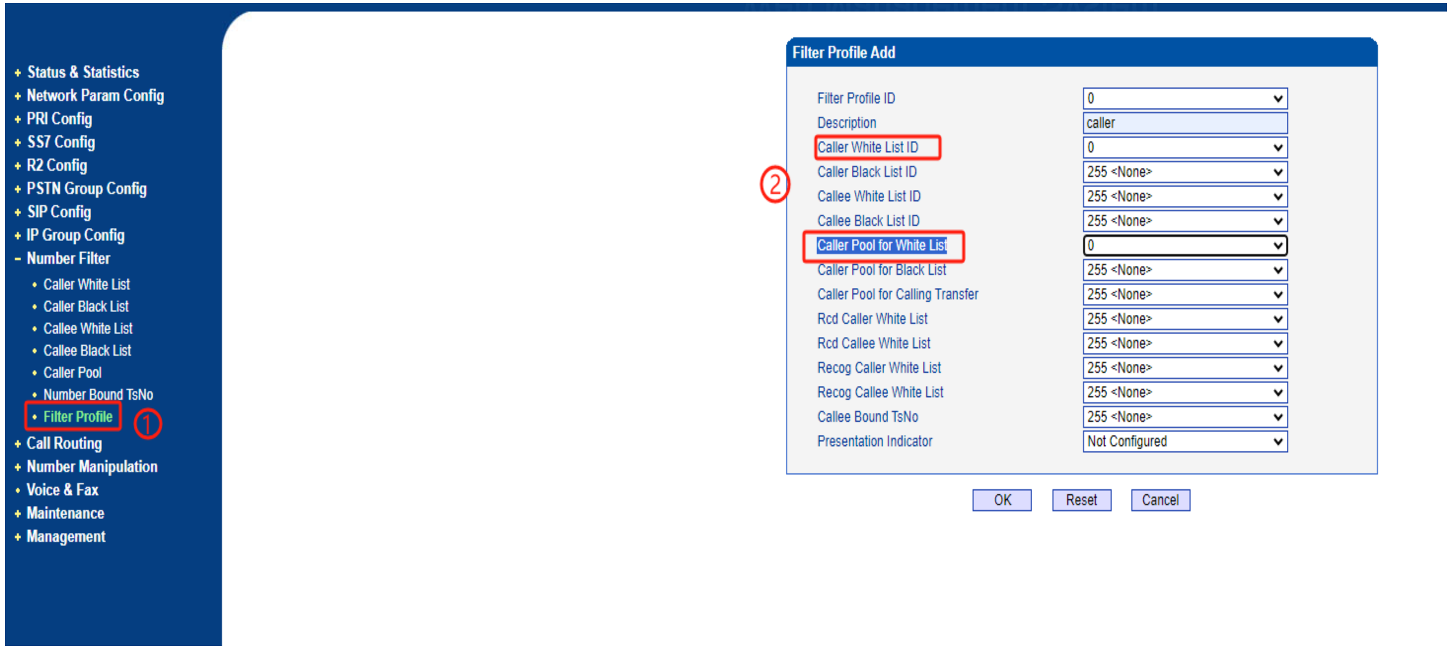
• Caller Pool configuration

Configure Caller White List → Configure Call pool → **Configure Filter Profile** → Route setting

1. Click on **Number Filter - Filter Profile**
2. Select Caller White List ID and Caller Pool for White List



Caller Pool

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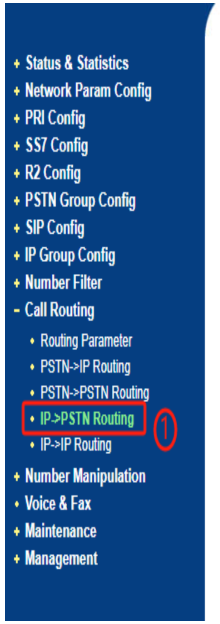
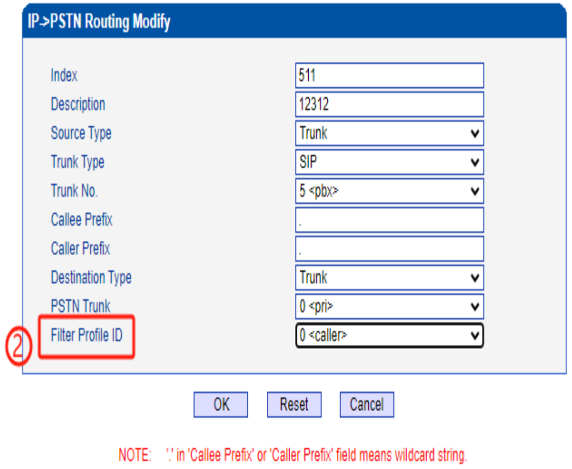
• Caller Pool configuration

Configure Caller White List → Configure Call pool → Configure Filter Profile → **Route setting**

1. Click on **Call Routing- IP->PSTN Routing**
2. Select filter profile id





ACL

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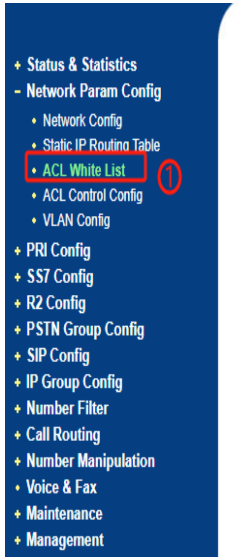
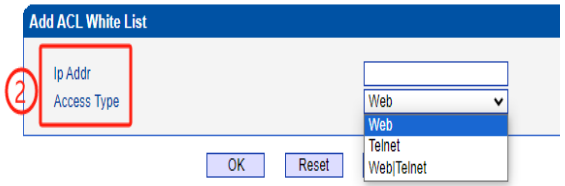
• ACL White List configuration

1. Click on **Network Param Config-ACL White List**
2. Fill in the IP address and select the access type



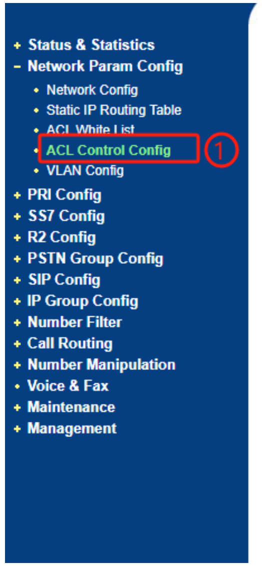


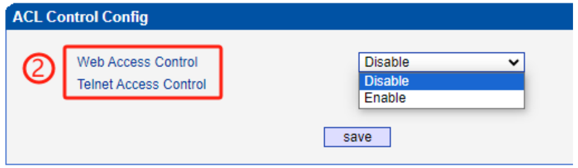
ACL

• ACL White List configuration

1.Click on **Network Param Config-ACL Control Config**

2.Choose whether to enable access control. Once enabled, IP addresses outside the ACL white list cannot access devices via Web/Telnet





Switch Mode

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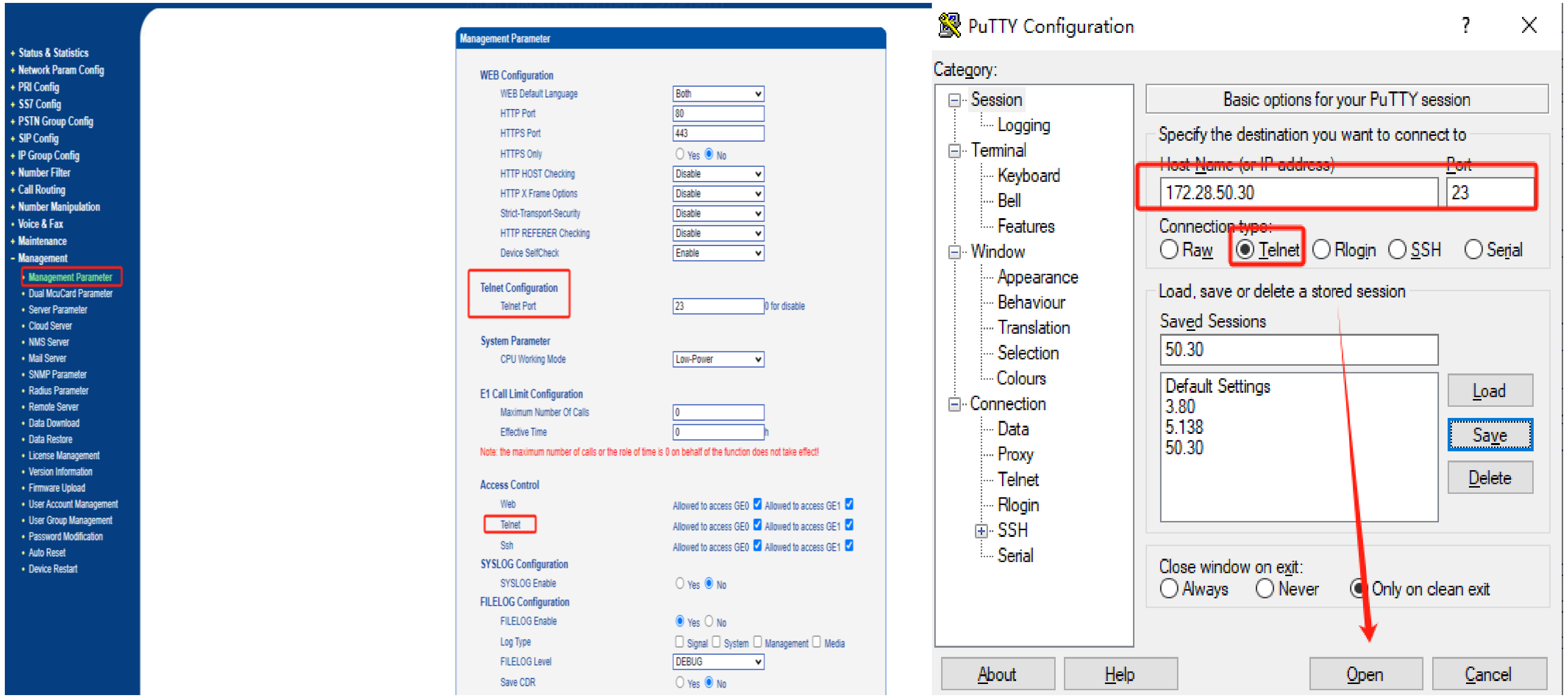
- Telnet MTG

1.Click on **Network Param Config-ACL Control Config**

2.Choose whether to enable access control. Once enabled, IP addresses outside the ACL white list cannot access devices via Web/Telnet



Switch Mode

• E1->Transcoding

The SIP-SIP call mode (such as PBX - MTG (GE1 public network) - MTG (GE0 intranet) - IMS), where both sides of the device are connected to the server through SIP trunk

1.Telnet MTG

2.Enter the command

3.Restart the MTG

```
username:admin
Password:******************
ROS>en
ROS#
ROS#^i
  Username: sa
  Password:sa
ROS(sql)#update intparam (paramid=0) (paramval=3)
ROS(sql)#update intparam (paramid=22) (paramval=1)

ROS(sql)#db save
```

Switch Mode

- ## Transcoding->E1

1.Telnet MTG

2.Enter the command

3.Restart the MTG

```
Welcome to Command Shell!
username:admin
Password:*****************
ROS>en
ROS#
ROS#^i
  Username: sa
  Password:sa
ROS(sql)#update intparam (paramid=0) (paramval=0)
ROS(sql)#db save
```

IP Profile

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1. Click on **SIP Group Config-IP Profile**
2. Ringback Tone to PSTN Originated from:

Local-- MTG playback

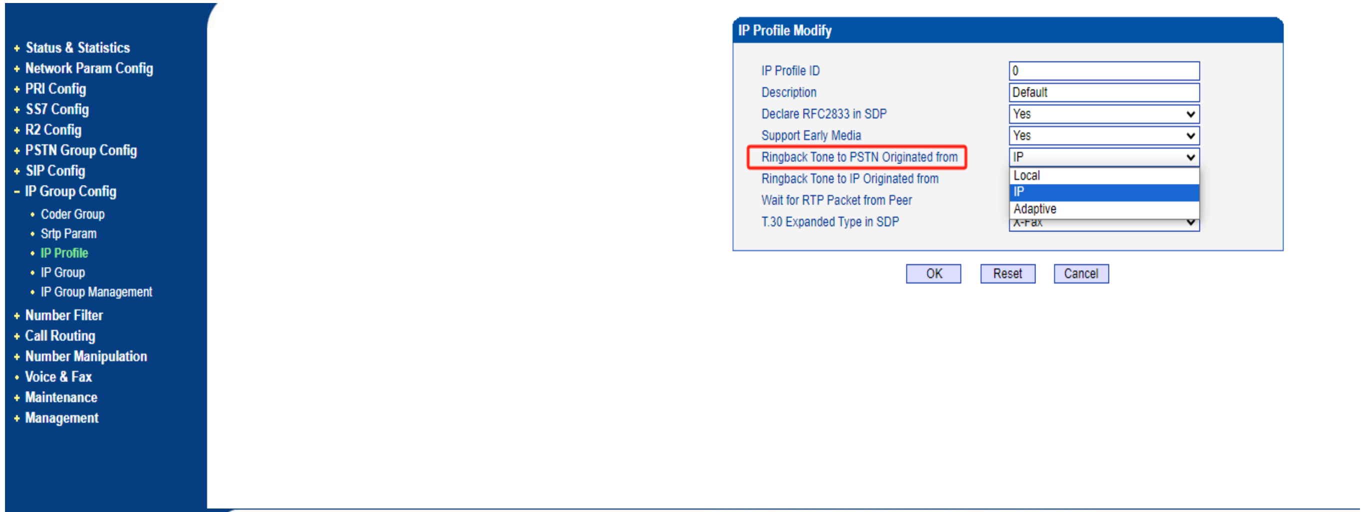
IP--SIP server side playback

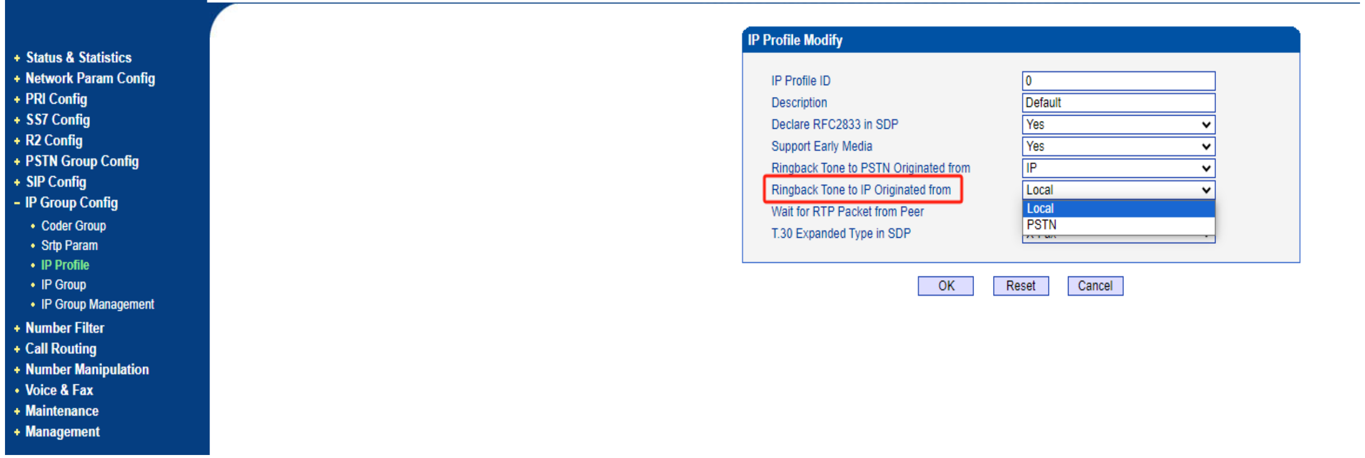
Adaptive-- determine the playback side based on negotiation

3. Ringback Tone to IP Originated from：

Local-- MTG playback

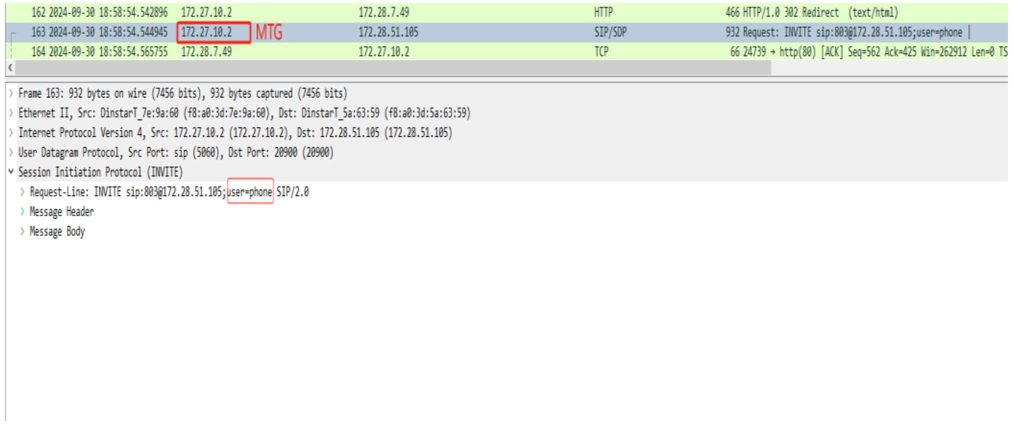
PSTN-- PSTN side playback

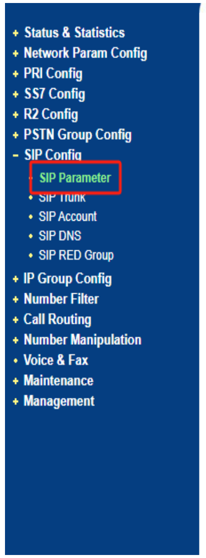


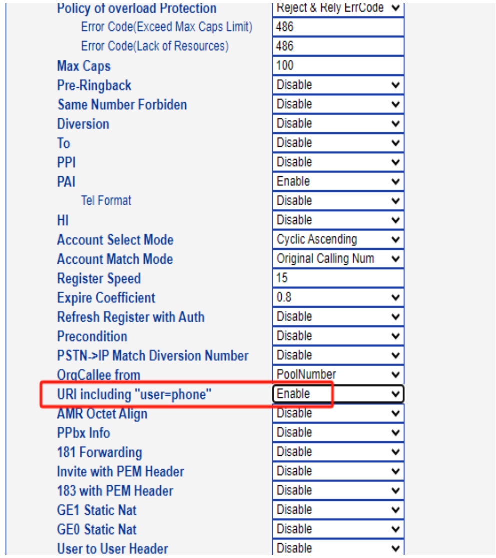


User=phone

SIP config - SIP parameter can enable or disable user=phone







NAT

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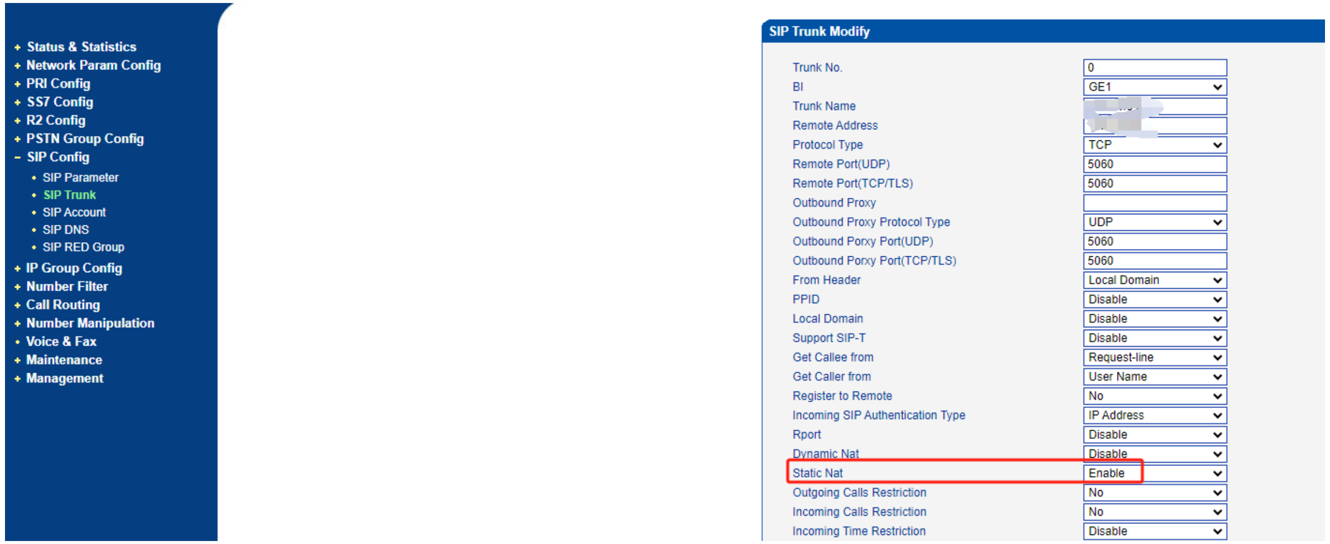
- ## Static Nat

Implemented one-to-one mapping between private and public addresses

1. **SIP config - SIP Parameter**, select the corresponding network port to enable static NAT, and fill in the public IP address
2. **SIP config - SIP Trunk**, select the corresponding SIP trunk, enable static NAT



NAT

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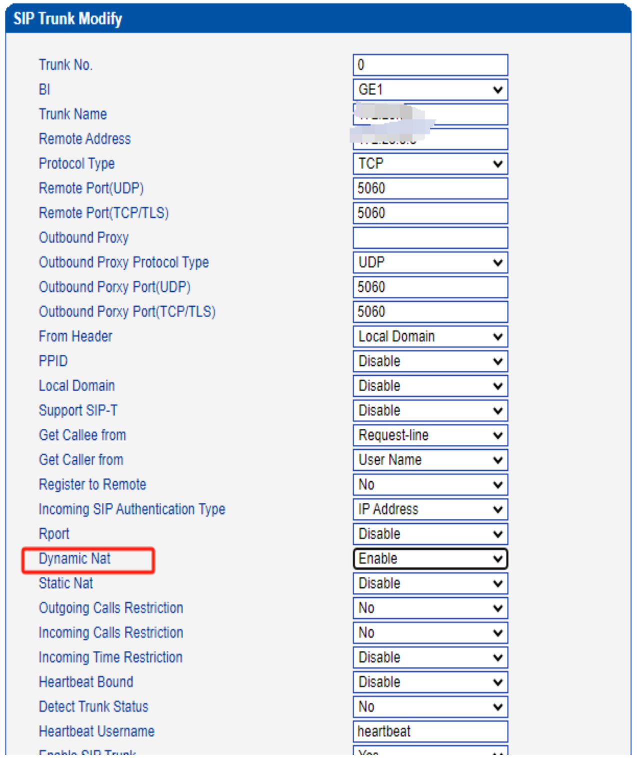
- ## Dynamic Nat

When converting private IP addresses of an internal network to public IP addresses, the IP address pairs are uncertain and random

SIP config - SIP Trunk, select the corresponding SIP trunk, enable Dynamic NAT



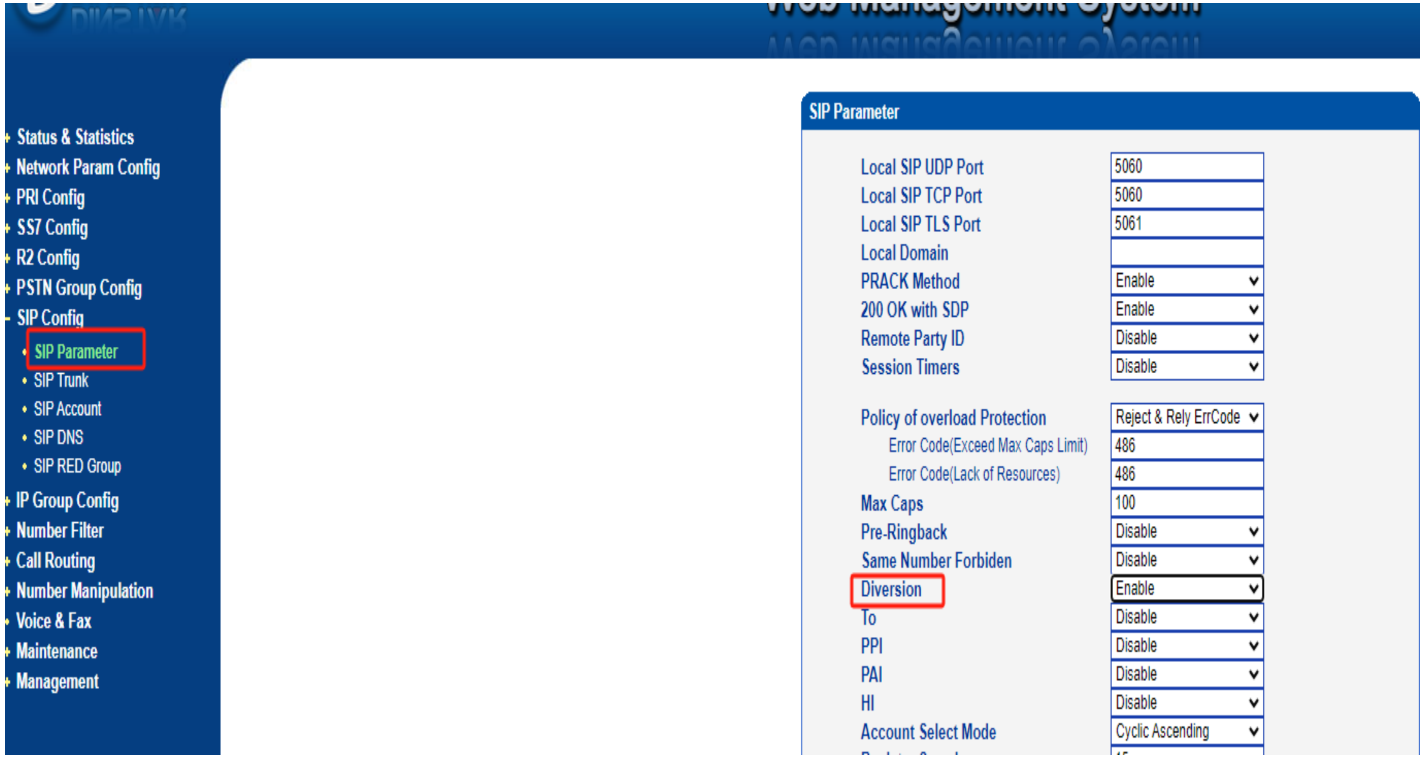
Diversion

- ## Application scenarios

A calls B, and then B calls C. The number calling A should be displayed above C

- ## Configuration method

Click on **SIP Config** - **SIP Parameter** to enable Diversion



Diversion

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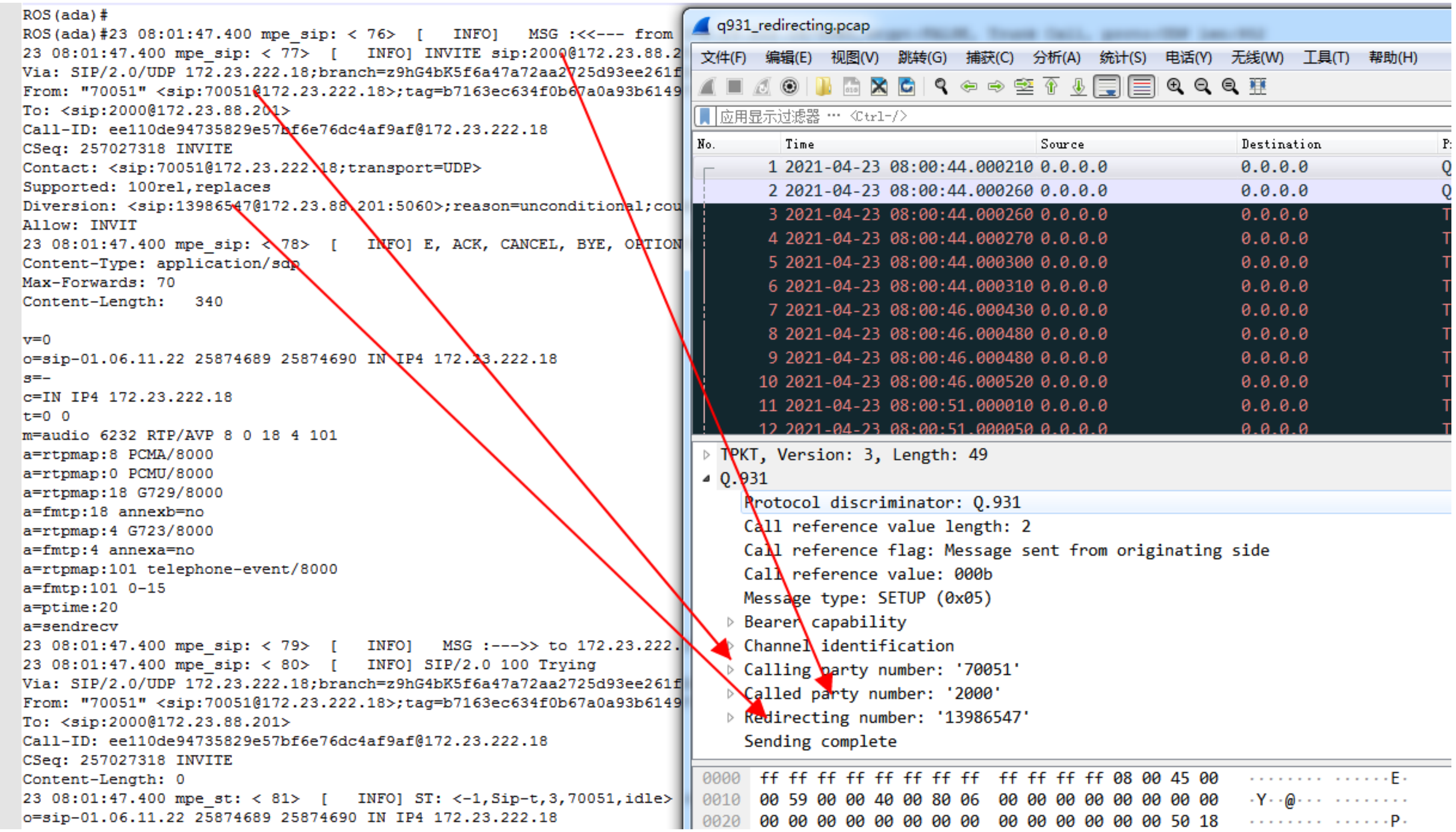
- Example

A:70051

B:13986547

C:2000



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Chapter Two

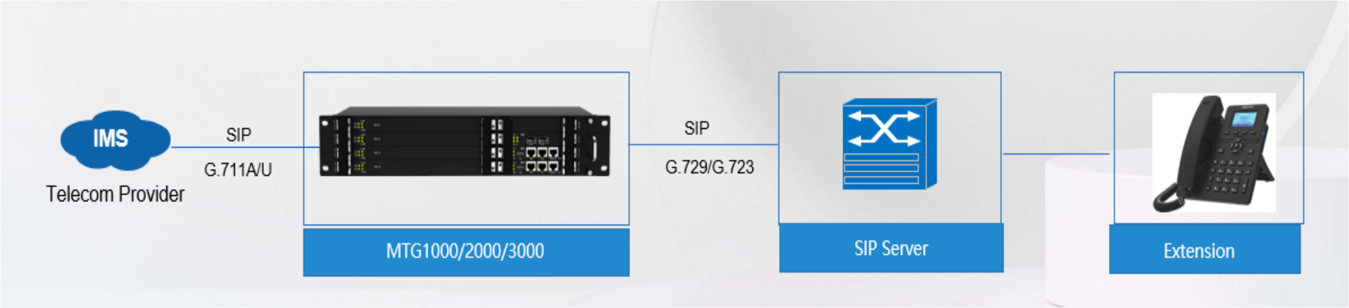
MTG Advanced Configuration

02

IMS

- ## Application scenarios

1. Utilize MTG dual network ports, with one side connected to the IMS and the other side connected to the enterprise's local IP PBX, etc.
2. Connect the IMS dedicated line to the device network management port GE0, and add IMS accounts to register in the IMS core network.



IMS

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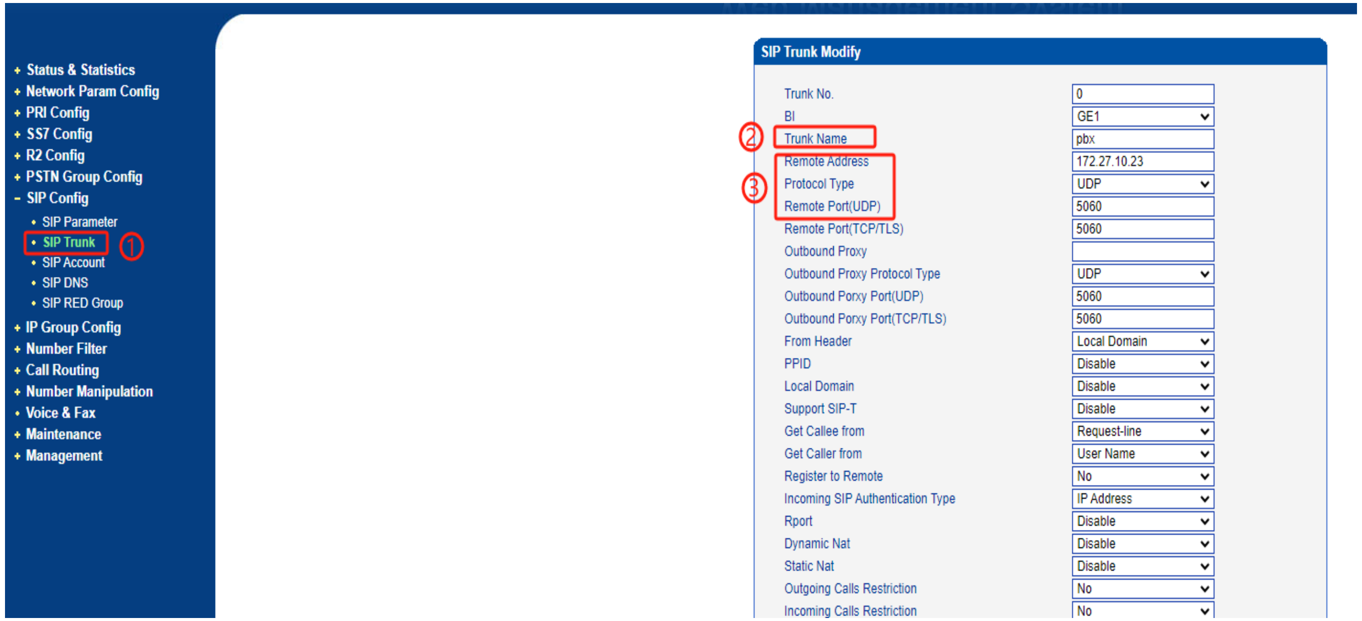
- configuration

Configure SIP Trunk（PBX） → Configure SIP Trunk（IMS） → Configure SIP Account → Configure Static Routing → Route setting

1. Click on **SIP Config – SIP Trunk**
2. Customize trunk name and select network port
3. Fill in the IP and port of PBX, and select the protocol



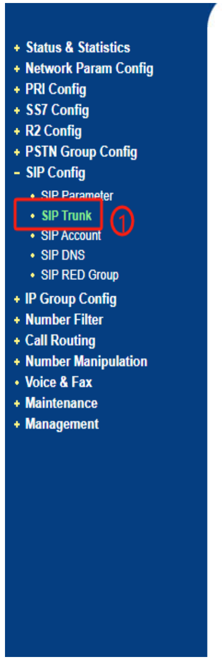
IMS

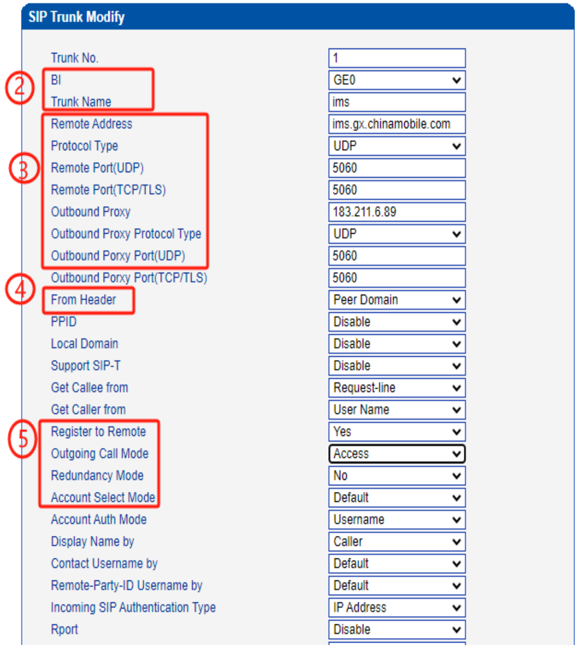
DINSTAR

- configuration

Configure SIP Trunk (PBX) → **Configure SIP Trunk (IMS)** → Configure SIP Account → Configure Static Routing → Route setting

1. Click on **SIP Config – SIP Trunk**
2. Customize trunk name and select network port
3. Fill in the domain、proxy IP and port of IMS, select the protocol
4. From Heade： select peer domain
5. Register to Remote: select yes; Outgoing Call Mode: select access





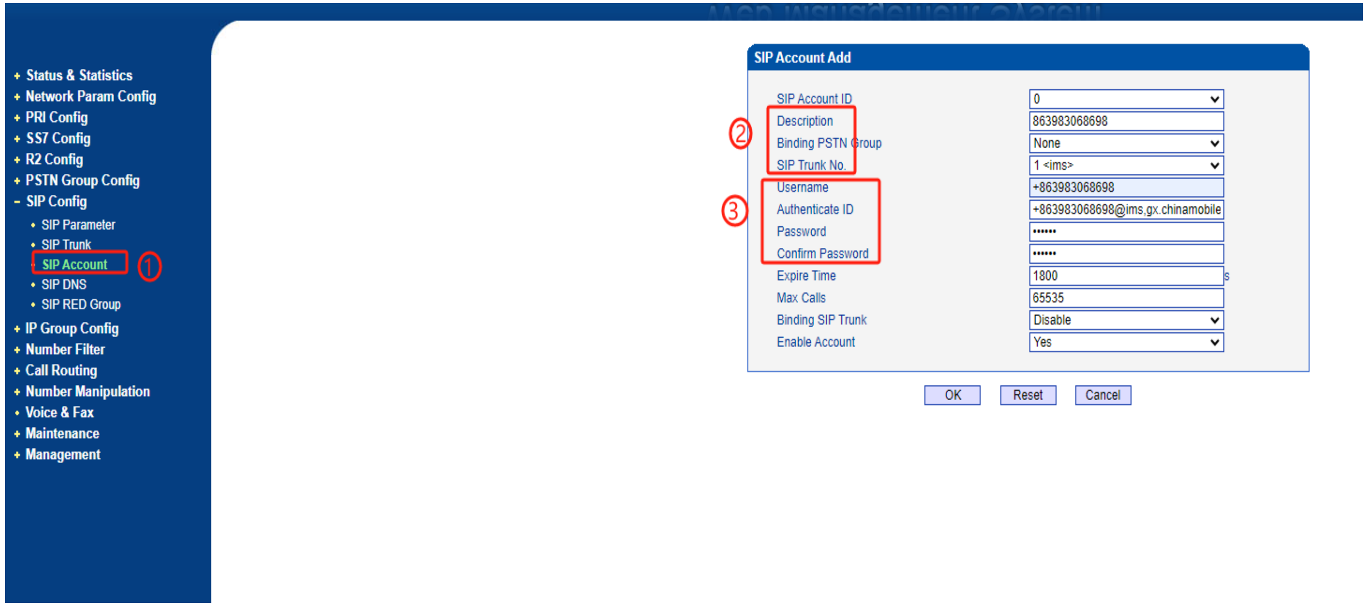
IMS

DINSTAR

- configuration

Configure SIP Trunk（PBX） → Configure SIP Trunk（IMS） → **Configure SIP Account** → Configure Static Routing → Route setting

1. Click on **SIP Config – SIP Account**
2. Customize name and select Trunk no.
3. Fill in username、Authenticate ID and password provided by IMS



IMS

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- configuration

Configure SIP Trunk（PBX） → Configure SIP Trunk（IMS） → Configure SIP Account → **Configure Static Routing** → Route setting

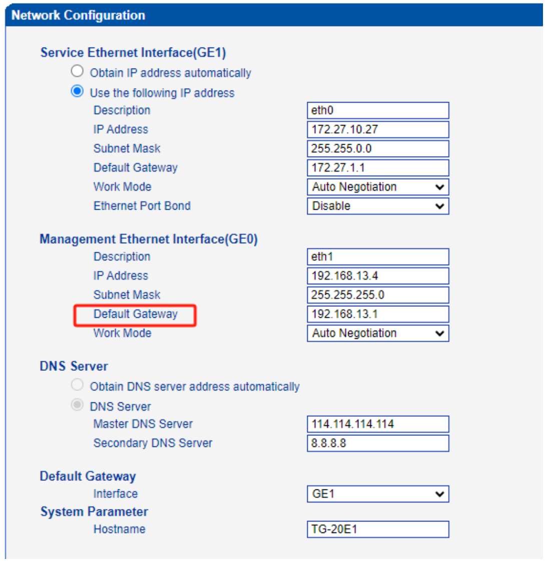
1.Click on **Network Param Config– Network Config**，View GE0 default gateway

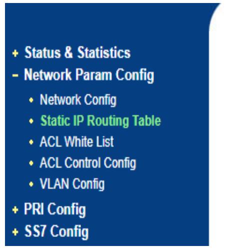
2.Click on **Network Param Config– Static IP Route Table:**

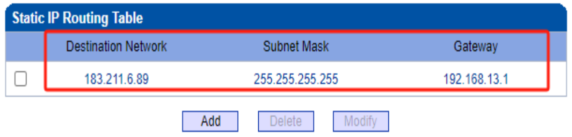
Destination Network: IMS proxy IP address

Subnet Mask: Full mask or network segment mask

Gateway:GE0 default gateway







IMS

DINSTAR

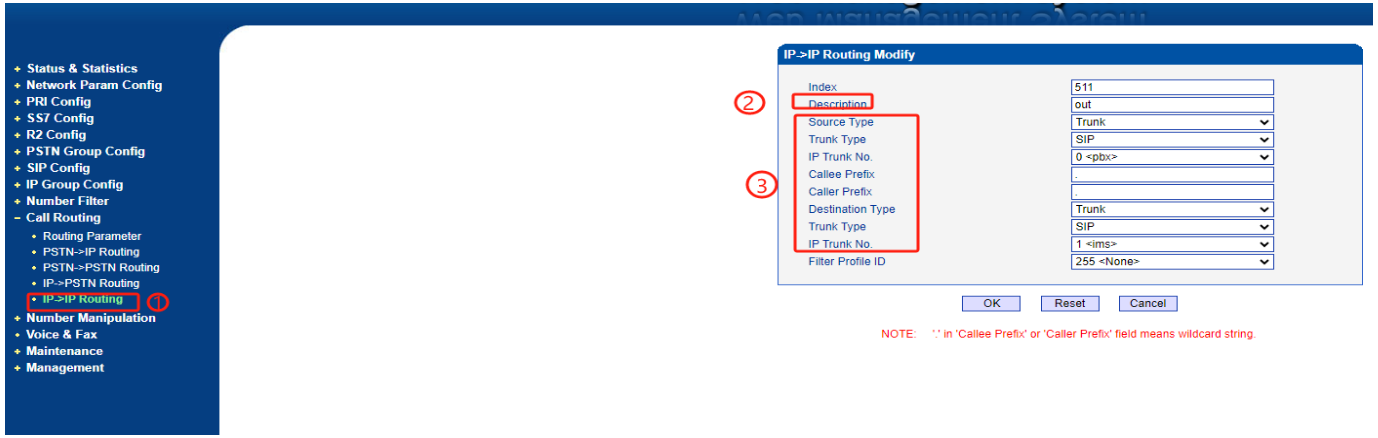
- configuration

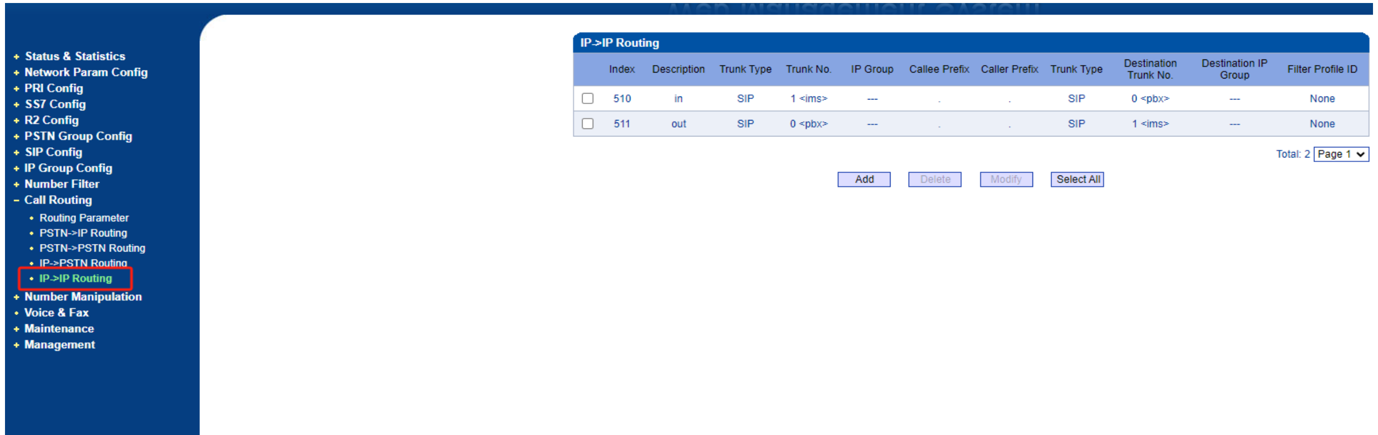
Configure SIP Trunk (PBX) → Configure SIP Trunk (IMS) → Configure SIP Account → Configure Static Routing → **Route setting**

1.Click on **Call Routing– IP->IP Routing**

2.Customize name

3.Select source and destination SIP trunk





Contents

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Chapter Three

SNMP

02

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SNMP

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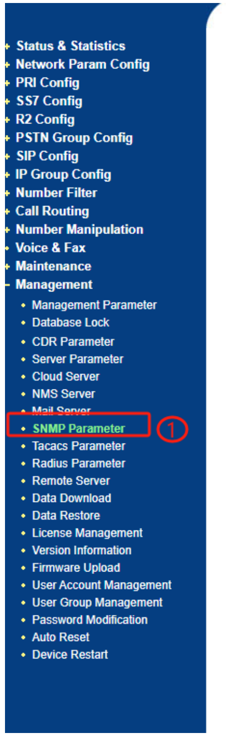
• MTG Configuration

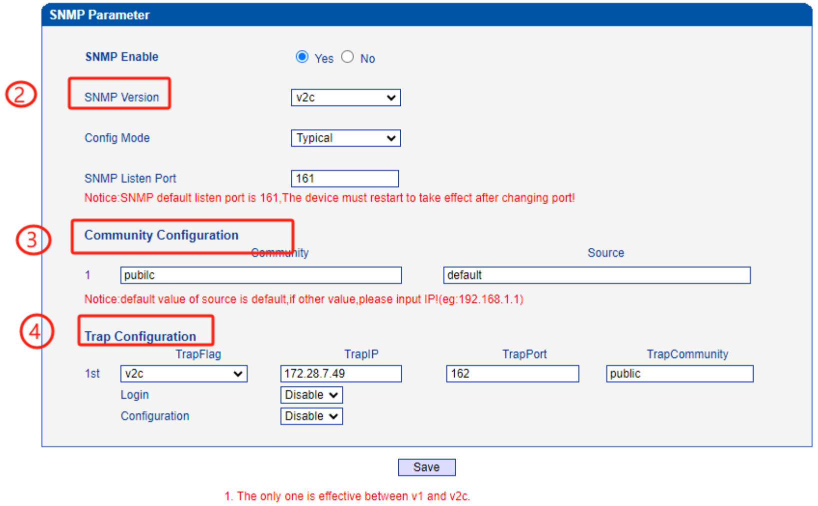
1.Click on **Management– SNMP Parameter**

2.Select SNMP Version

3.Configure Community

4.Configure trap





SNMP

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• SNMP Server Configuration

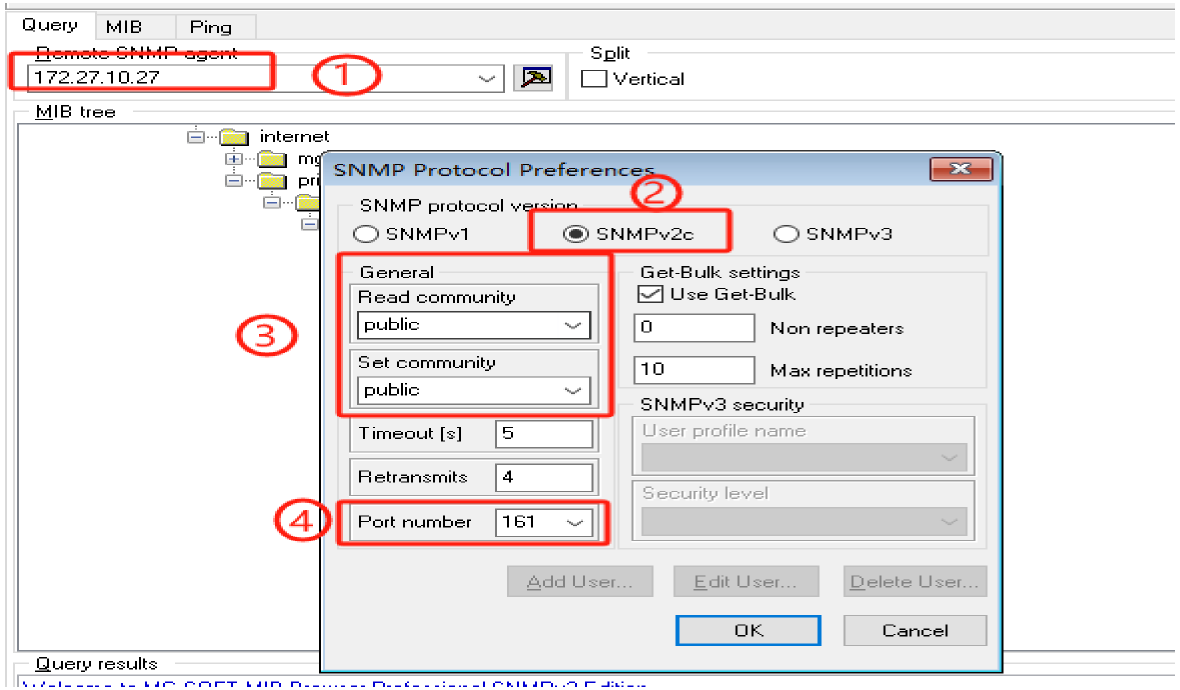
1.Configure the IP address of MTG

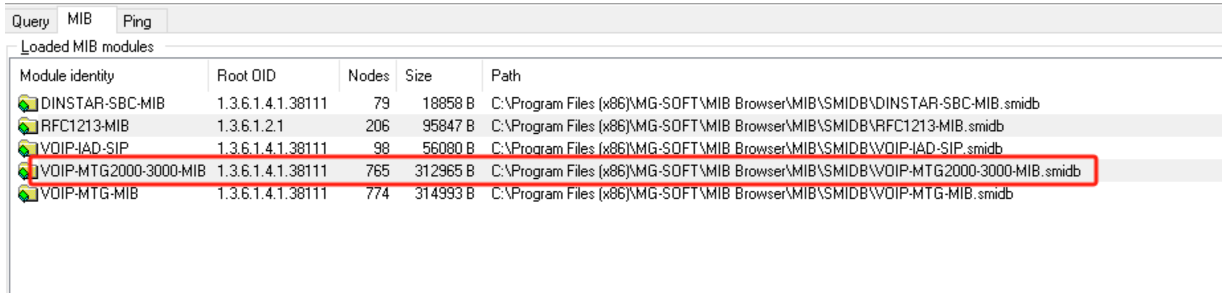
2.Select SNMP Version

3.Configure Community

4.Configure SNMP listen port of MTG

5.Import the mib file of MTG



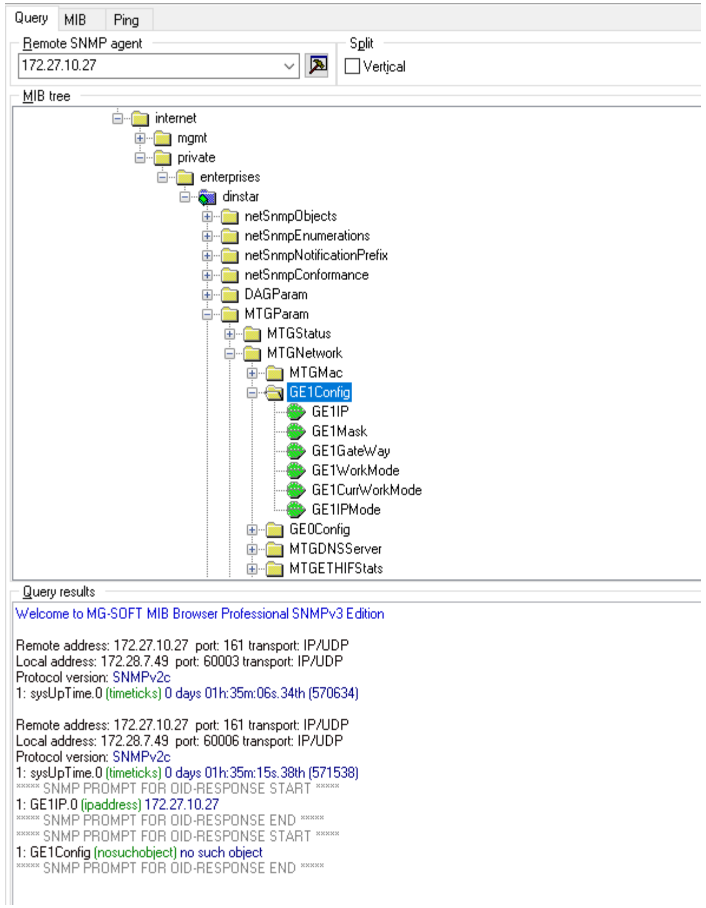


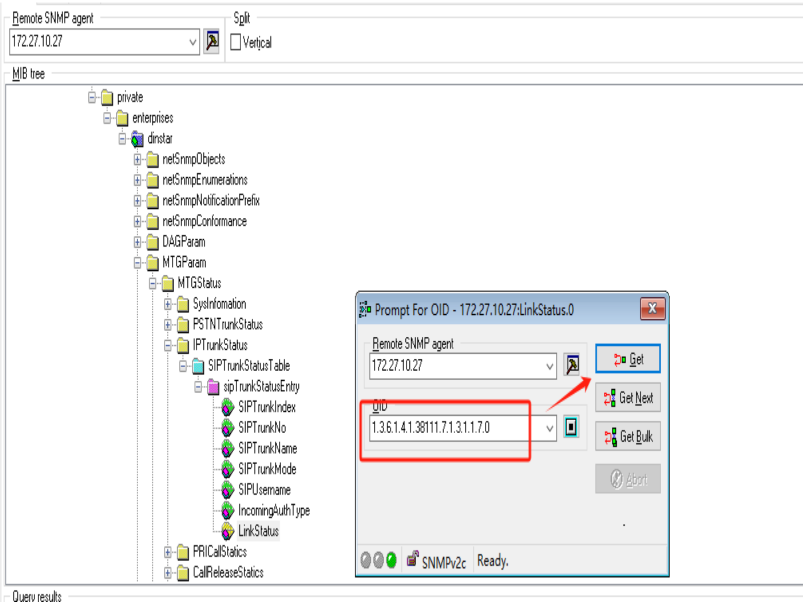
SNMP

- ## SNMP Server Retrieves MTG Information

Method 1 :Find the information you need to obtain on the MIB tree, right-click on GET, and results will display the obtained information

Method 2:Knowing the OID of the corresponding information, one can directly query it





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THANKS

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