

MTG Basic Configuration Practice Guide

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Foreword

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- This course is mainly:
 - Guide how to access the MTG and set network on MTG
 - Guide how to connect PRI with MTG
 - Guide how to connect SS7 with MTG

Course Objective

Through this course
you will be able to



HOW To Access The Device



How To SET Network On Device



How To Configure PRI/SS7 On MTG

Contents

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Chapter One How to access MTG Series

2

Chapter Two How to set network on MTG

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Chapter Three How to configure MTG

Chapter One

How to access the MTG Series

01

Physical Connection

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- MTG Series

The GE support **10/100/1000 MB**

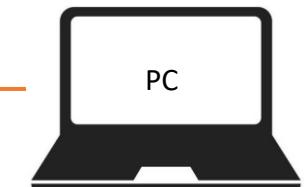
GE1 Port---**192.168.1.111**, GE0 Port---

192.168.11.1

Default username/password---

admin/admin@123#

MTG1000



PC Settings

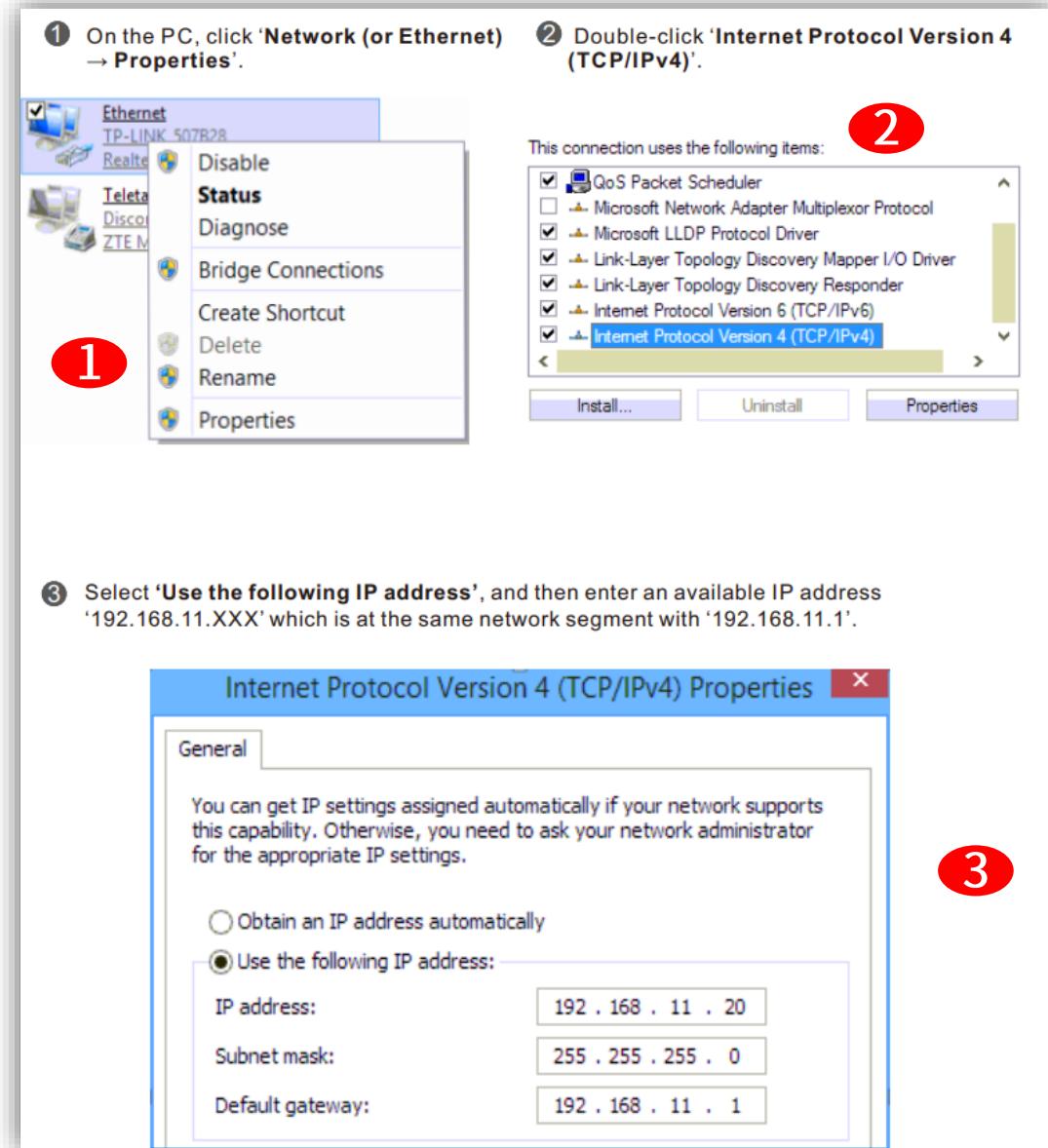
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- Add IP

Add 192.168.11.xxx/255.255.255.0 to access
the MTG's GE0 Port

Note:

1. Optional IP range: 192.168.11.2-
192.168.11.254
2. Set the IP address of the PC as shown in the figure on the right .



Access Device GUI

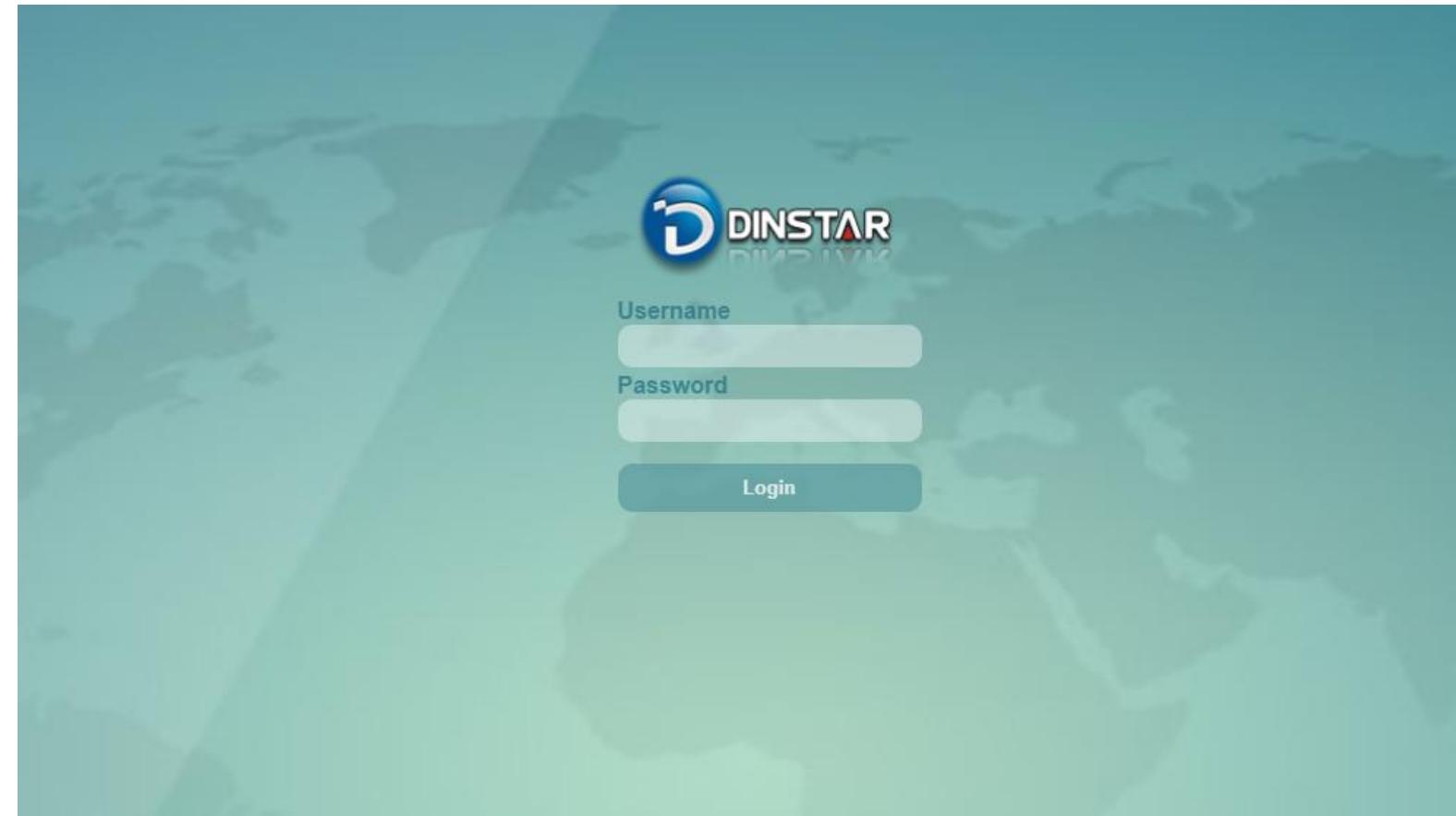
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- Access Device

Browser input <https://192.168.11.1> to
login interface .

Input Username and Password:
admin/admin@123#,

Click Login to access the device.



Access Device GUI

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After login, then will into the Status page, as shown below

The screenshot shows the 'Web Management System' status page. The left sidebar contains a navigation menu with the following items:

- Status & Statistics
 - System Information
 - DTU Status
 - E1/T1 Status
 - PSTN Trunk Status
 - IP Trunk Status
 - SIP Registration Status
 - Call Info Status
 - PRI Call Statistics
 - SS7 Call Statistics
 - R2 Call Statistics
 - SIP Call Statistics
 - Radius Statistics
 - Record Statistics
- + Network Param Config
 - + PRI Config
 - + SS7 Config
 - + R2 Config
 - + PSTN Group Config
 - + SIP Config
 - + IP Group Config
 - + Number Filter
 - + Call Routing
 - + Number Manipulation
 - + Voice & Fax
 - + Maintenance
 - + Management

The main content area is titled 'System Information' and contains two tables: 'General' and 'Version'.

General				
CPU ID	E4-61-8C-A7-C3-0B-46-2E			
CPU Temperature	44°C	Usage(60s)	6%	
Userboard CPU Temperature	[57°C 54°C] [0°C 0°C] [0°C 0°C] [0°C 0°C]			
GE1 MAC-Work Mode	F8-A0-3D-40-E8-0C 1000M/Full-duplex			
GE0 MAC-Work Mode	F8-A0-3D-40-E8-0D down			
Service Ethernet Interface(GE1)	172.19.211.133	255.255.0.0	172.19.1.1	
Management Ethernet Interface(GE0)	192.168.11.1	255.255.255.0	192.168.11.1	
DNS Server	114.114.114.114 8.8.8.8			
Device ID	dc12-0211-0013-0001			
Cloud Server Register Status	Not Registered	SS7 Share	Master TG	
System Time	2025-4-6 21:51:18			
System Uptime	30 d 22 h 12 m 49 s			
License	Official			
GE1 Network Speed(Kbit/s)	Received	7	Sent	14
GE0 Network Speed(Kbit/s)	Received	0	Sent	0

Version			
Device Model	MTG2000	Work Mode	Mixed Mode
Hardware Version	PCB 04.01, BackBoardID 1, LogicID 0, FlashID 0		
Boot Version	17	Kernel Version	21
Software Version	02.06.11.26 p1T3	Web Version	02.06.11.26 p1T3
Time Built	2025-01-02 , 17:43:42		

[Refresh](#)

Access Device GUI

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1.Click Management--->Management Parameter,

2.choose Access control, enable Allowed to access GE1

After enable it, you can access the MTG by GE0/GE1's IP address



The main page title is 'Management Parameter'. It contains several configuration sections: WEB Configuration, Telnet Configuration, System Parameter, E1/T1 Call Limit Configuration, and SYSLOG Configuration. The 'Access Control' section is highlighted with a red box and has a circled number '2' next to it. In this section, there are three rows for Web, Telnet, and Ssh. Each row has two checkboxes: 'Allowed to access GE0' and 'Allowed to access GE1'. Both checkboxes are checked for all three protocols (Web, Telnet, and Ssh).

Protocol	Allowed to access GE0	Allowed to access GE1
Web	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Telnet	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ssh	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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Chapter Two

How to set network on MTG

Set network on MTG and enable web access

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- Network config

1. Click Network Param Config---

Network Config

2. Configure the GE0 and GE1's IP and
then restart MTG

Note:

The GE1 port and GE0 port's IP can't be
same network segment

Network Configuration

Service Ethernet Interface(GE1)

Obtain IP address automatically
 Use the following IP address

Description: GE1
IP Address: 172.19.211.133
Subnet Mask: 255.255.0.0
Default Gateway: 172.19.1.1
Work Mode: Auto Negotiation
Ethernet Port Bond: Disable

Management Ethernet Interface(GE0)

Description: GE0
IP Address: 192.168.11.1
Subnet Mask: 255.255.255.0
Default Gateway: 192.168.11.1
Work Mode: Auto Negotiation

DNS Server

Obtain DNS server address automatically
 DNS Server

Master DNS Server: 114.114.114.114
Secondary DNS Server: 0.0.0.0

Default Gateway

Interface: GE1

System Parameter

Hostname: MTG2000

Save

NOTE: The device must restart to take effect.

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Chapter Three

How to configure MTG

03

- 1.How to configure the PRI on MTG
- 2.How to configure the SS7 on MTG

Configure MTG with PRI

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Login web page

Configure PRI trunk

Configure SIP trunk

Route setting

1.Type username and password

default is admin/admin@123#

2.Click Login



Configure MTG with PRI

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Login web page

Configure PRI trunk

Configure SIP trunk

Route setting

1.Click **PRI Config---->PRI trunk**

2.Configure PRI trunk(Trunk name、
Channel ID、 E1/T1 Port No.、
Protocol、 Switch side)

Note:

Channel ID、 Protocol、 Switch side
need configure same as the
operator side provide



The screenshot shows a configuration dialog titled 'PRI Trunk Modify'. It contains fields for 'Trunk No.' (set to 0), 'Trunk Name' (set to pri), 'Channel ID' (set to 0), 'D-Channel' (set to Enable), 'E1/T1 Port No.' (set to 0), 'Protocol' (set to ISDN), 'Switch Side' (set to User Side), and 'Alerting Indication' (set to ALERTING). The 'Trunk Name' and 'Channel ID' fields are highlighted with a red box and circled number '2'.

PRI Trunk Modify	
Trunk No.	0
Trunk Name	pri
Channel ID	0
D-Channel	Enable
E1/T1 Port No.	0
Protocol	ISDN
Switch Side	User Side
Alerting Indication	ALERTING

OK Reset Cancel

Configure MTG with PRI

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Login web page

Configure PRI trunk

Configure SIP trunk

Route setting

1. Click **SIP Config--->SIP Trunk**

2. Select network port

3. Configure Trunk name、

Remote address、 Protocol、

Remote port

Note:

the Remote address、 Protocol、

Remote port depends on your

SIP Server



SIP Trunk Modify

Trunk No.	② BI
Trunk Name	③ GE1
Remote Address	172.28.33.236
Protocol Type	UDP
Remote Port(UDP)	5060
Remote Port(TCP/TLS)	5060
Outbound Proxy	172.28.33.236
Outbound Proxy Protocol Type	UDP
Outbound Proxy Port(UDP)	5060
Outbound Proxy Port(TCP/TLS)	5060
From Header	Local Domain
PIPID	Disable
Local Domain	Disable
Support SIP-T	Disable
Get Callee from	Request-line
Get Caller from	User Name
Register to Remote	No
Incoming SIP Authentication Type	IP Address
Report	Disable
Dynamic Nat	Disable
Static Nat	Disable
Outgoing Calls Restriction	No
Incoming Calls Restriction	No
Incoming Time Restriction	Disable
Heartbeat Bound	Disable
Detect Trunk Status	No
Heartbeat Username	heartbeat
Enable SIP Trunk	Yes
Early Alerting	Disable
No P Park for Incoming Call	Disable
User to User(calleecaller)	Disable
Request Add Port	Disable
OPTIONS Only Detects 200OK	Disable
Passthrough Sip Error Code	Disable
Heartbeat Bound PSTN Group	Disable
From Display Name	Enable

OK Reset Cancel

Configure MTG with PRI

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Login web page

Configure PRI trunk

Configure SIP trunk

Route setting

1. Click **Call Routing--->PSTN->IP**

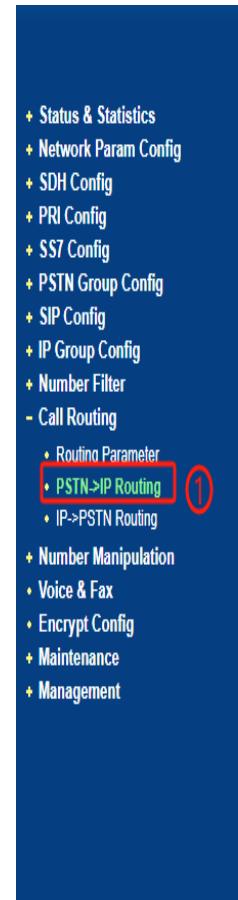
Routing

2. Configure route name

3. Select the routing source and destination, and fill in the callee and caller prefix

Note:

if no limit, can configure ":" in callee prefix and caller prefix, it means not limitation in here.



Route PSTN->IP Modify	
Index	511
Description	123123
Source Type	Trunk
PSTN Trunk	0 <pri>
Callee Prefix	.
Caller Prefix	.
Destination Type	Trunk
Trunk Type	SIP
IP Trunk No.	1 <172.28.29.178>
Filter Profile ID	255 <None>

OK Reset Cancel

NOTE: ":" in 'Callee Prefix' or 'Caller Prefix' field means wildcard string.

Configure MTG with PRI

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Login web page

Configure PRI trunk

Configure SIP trunk

Route setting

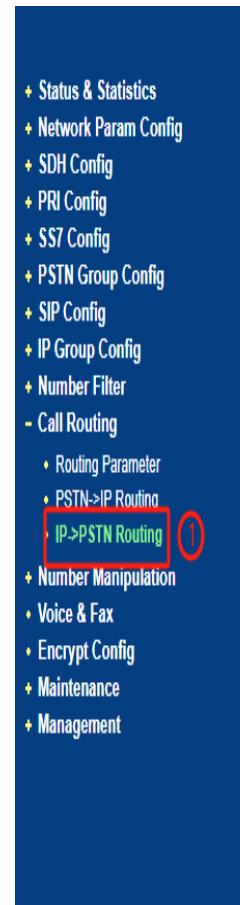
1.Click **Call Routing--->IP->PSTN Routing**

2.Configure route name

3. Select the routing source and destination, and fill in the callee and caller prefix

Note:

if no limit, can configure ":" in callee prefix and caller prefix, it means not limitation in here

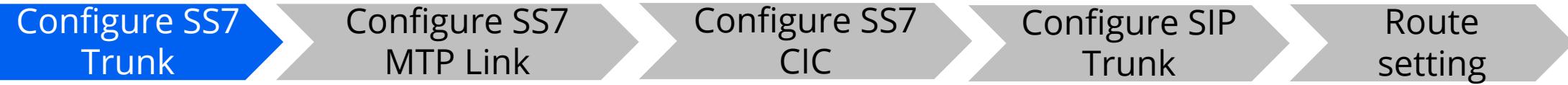


Index	511
Description	123123
Source type	Trunk
Trunk Type	SIP
Trunk No.	1<172.28.29.178>
Callee Prefix	.
Caller Prefix	.
Destination Type	Trunk
PSTN Trunk	0<pri>
Filter Profile ID	255 <None>

NOTE: ":" in 'Callee Prefix' or 'Caller Prefix' field means wildcard string.

Configure MTG with SS7

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1.Click **SS7 Config---->SS7 trunk**

2.Configure trunk name

3.Config Protocol、Protocol type、
OPC、DPC)

Note:

OPC、DPC need configure same as
the operator side provide.



Select Trunk No.	0
Trunk Name	ss7
Protocol	ITU-CHINA
Protocol Type	ISUP
OPC	24bits(8-8-8)
DPC	8-8-8
Support APC	0-0-0
Network Indicator	Disable
Sending SLTM	National Network
Link Set No.	Enable
	None

Configure MTG with SS7

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1.Click **SS7 Config---->SS7 MTP Link**

2.Select trunk number

3. Select the E1/T1 port and channel
number where the link is located

Note:

E1/T1 port and channel number
need configure same as the
operator side provide.



SS7 MTP Link Add

No.	2
Trunk No.	2<ss7>
Link No.	0
Signaling Link Code	0
E1/T1 Port No.	2
Channel No.	16
Caller Type	Not Configured
Callee Type	Not Configured
OrgCallee Type	Not Configured
Numbering Plan	ISDN
Calling Presentation	Allowed
Screening indicator	User Provided
Called Stop sending	Disable
Calling Stop sending	Disable
Link Mode	Default
Binding Slave TG	None

OK Reset Cancel

NOTES: Each SS7 trunk could add maximum 8 items with different 'Link No.'

Configure MTG with SS7

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Configure SS7
Trunk

Configure SS7
MTP Link

Configure SS7
CIC

Configure SIP
Trunk

Route
setting

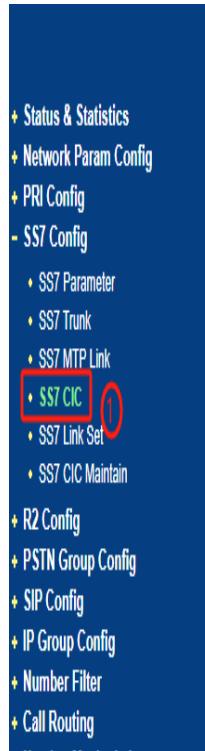
1. Click **SS7 Config**---->**SS7 CIC**

2. Select trunk number、 start and
end E1/T1 ports

3. Config the star CIC No.

Note:

star CIC No. need configure same
as the operator side provide.

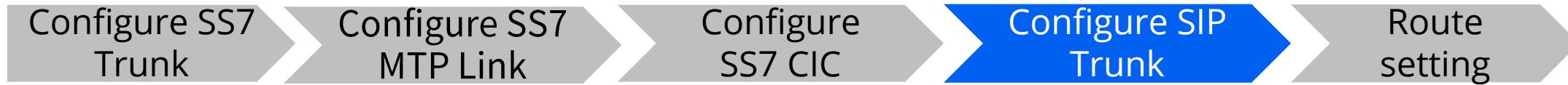


The image shows a configuration dialog box titled 'SS7 Circuit Add'. It contains four input fields: 'Trunk No.' (set to '2 <ss7>'), 'Start E1/T1 port No.' (set to '2'), 'End E1/T1 port No.' (set to '11'), and 'Start CIC No.' (set to '0'). There are three red circles numbered '2', '3', and '4' pointing to the 'Trunk No.', 'Start CIC No.', and 'End E1/T1 port No.' fields respectively. At the bottom of the dialog are 'OK', 'Reset', and 'Cancel' buttons.

NOTES:
1. When option 'ITU' or 'ITU-CHINA' has been selected in 'Protocol' of sub-menu SS7 Trunk, the 'Start CIC No.' must be less than 4096.
2. When option 'ANSI' has been selected in 'Protocol' of sub-menu SS7 Trunk, the 'Start CIC No.' must be less than 16384.
3. When batch add, "Start Channel" is automatically set to 0, "Count" is automatically set to 32, "Start CIC No." corresponds to the timeslot 0 of Start port No..
4. Reference value of Start CIC No.: 0,32,64,96,128,160,192,224,256,288,320,352,384,416,448,480,512,544,576,608,640,672,704,736,768,800,...

Configure MTG with SS7

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1. Click **SIP Config**—>**SIP Trunk**

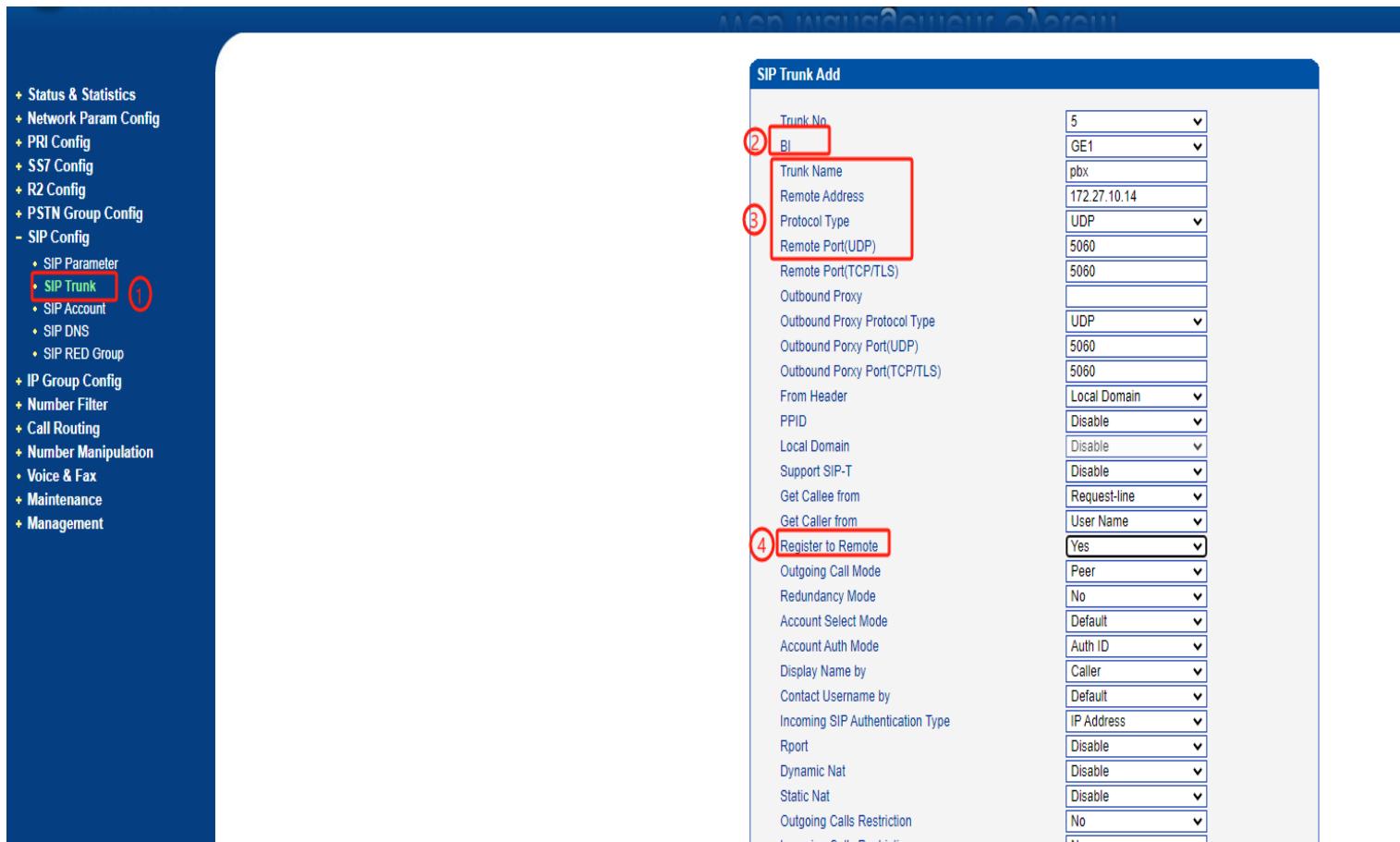
2. Select network port

3. Configure Trunk name、Remote address、Protocol、Remote port

4. Need to register MTG on the server, select 'Yes' to register to remote

Note:

the Remote address, Protocol,
Remote port, Registration or not
depends on your SIP Server



Configure MTG with SS7

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Configure SS7
Trunk

Configure SS7
MTP Link

Configure
SS7 CIC

Configure SIP
Trunk

Route
setting

5. Click **SIP Config--->SIP Account**

6. Select SIP trunk and customize
account name

7. Configure username and
password

8. Click **Status & Statistics--->SIP Registration Status**, Check if the
account has been successfully
registered



SIP Account Add

SIP Account ID	0
Description	6001
Binding PSTN Group	None
SIP Trunk No.	5 <pbx>
Username	6001
Authenticate ID	6001
Password	*****
Confirm Password	*****
Expire Time	1800
Max Calls	65535
Enable Account	Yes

OK Reset Cancel

SIP Registration Status Stat

SIP Account Count	1	Registered Fail Count	0	Registered Succ Count	1
-------------------	---	-----------------------	---	-----------------------	---

Filter Condition

Registration Status	All	Filter	Refresh
---------------------	-----	--------	---------

SIP Account Registration Status

ID	Account Name	Trunkno	User Name	Max calls	Curr calls	Registration Status
0	6001	0 <pbx>	6001	65535	0	Established

Total: 1 Page 1

Configure MTG with SS7

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Configure SS7
Trunk

Configure SS7
MTP Link

Configure
SS7 CIC

Configure
SIP Trunk

Route
setting

1.Click **Call Routing--->PSTN->IP**

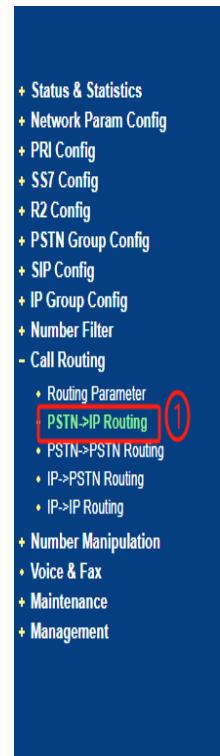
Routing

2.Configure route name

3. Select the routing source and destination, and fill in the callee and caller prefix

Note:

if no limit, can configure ":" in callee prefix and caller prefix, it means not limitation in here.



Route PSTN->IP Modify

Index	511
Description	123123
Source type	Trunk
PSTN Trunk	2<ss7>
Callee Prefix	.
Caller Prefix	.
Destination Type	Trunk
Trunk Type	SIP
IP Trunk No.	5<pbx>
Filter Profile ID	255 <None>

OK Reset Cancel

NOTE: ":" in 'Callee Prefix' or 'Caller Prefix' field means wildcard string.

Configure MTG with SS7

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Configure SS7
Trunk

Configure SS7
MTP Link

Configure
SS7 CIC

Configure
SIP Trunk

Route
setting

1.Click **Call Routing--->IP->PSTN**

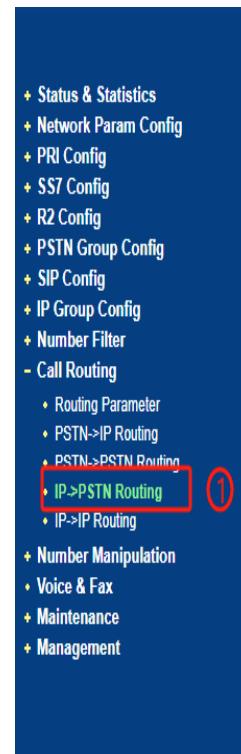
Routing

2.Configure route name

3. Select the routing source and
destination, and fill in the callee and
caller prefix

Note:

if no limit, can configure ":" in callee
prefix and caller prefix, it means not
limitation in here.



The image shows the 'IP->PSTN Routing Modify' dialog box. It contains fields for configuration: Index (511), Description (12312), Source Type (Trunk), Trunk Type (SIP), Trunk No. (5 <pbx>), Callee Prefix (.), Caller Prefix (.), Destination Type (Trunk), and PSTN Trunk (2 <ss7>). A note at the bottom states: 'NOTE: ":" in 'Callee Prefix' or 'Caller Prefix' field means wildcard string.' There are 'OK', 'Reset', and 'Cancel' buttons at the bottom right.

Summary

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- This course we already learn:
 - How to access the device .
 - How to set network on device .
 - How to make calls through device .



THANKS



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