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SBC Basic Configuration Practice Guide

Foreword

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

Course Objective

Through this course you will be able to

Understanding SBC models and interfaces

Understand the principle and scenarios of SBC

Understanding the basic configuration of SBC

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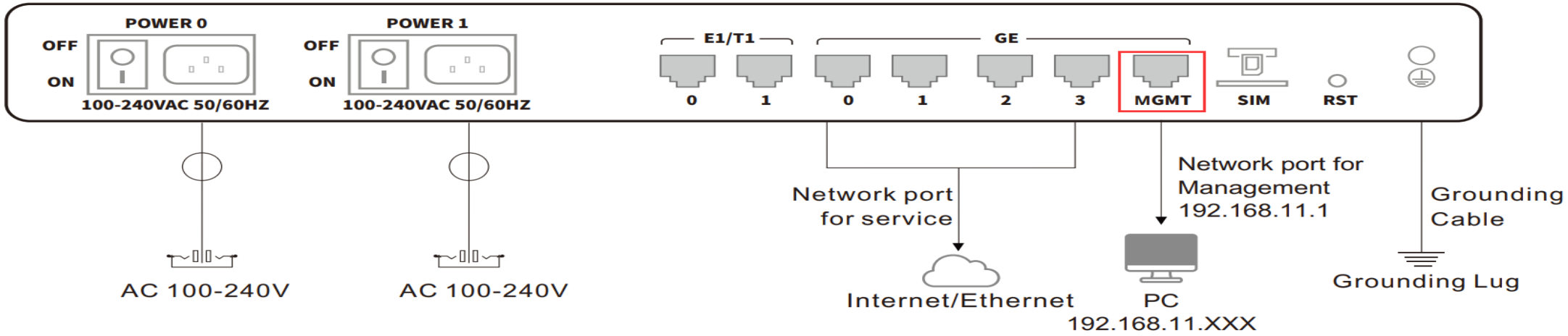
Web Access to SBC

01

Web Access to SBC

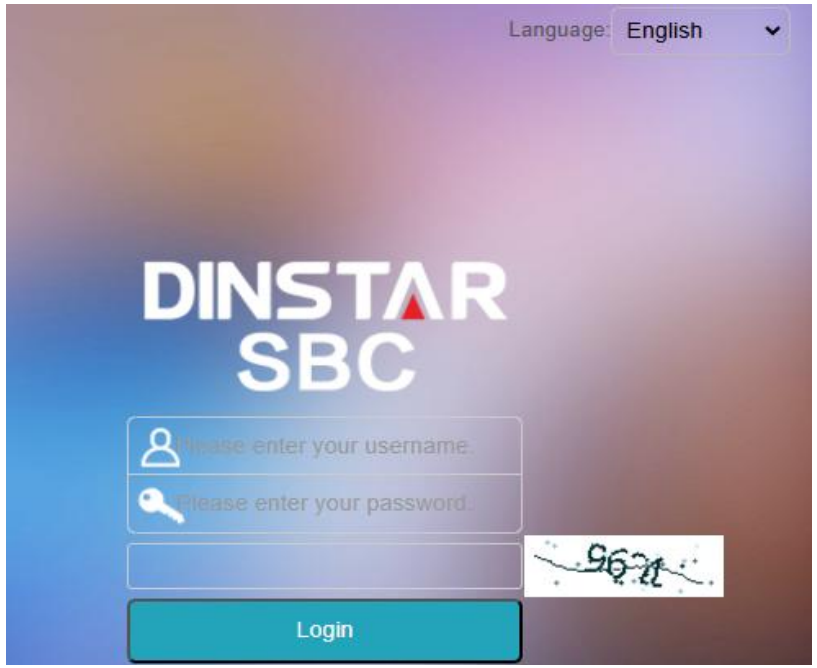
Here we use the SBC1000 connection as a case study

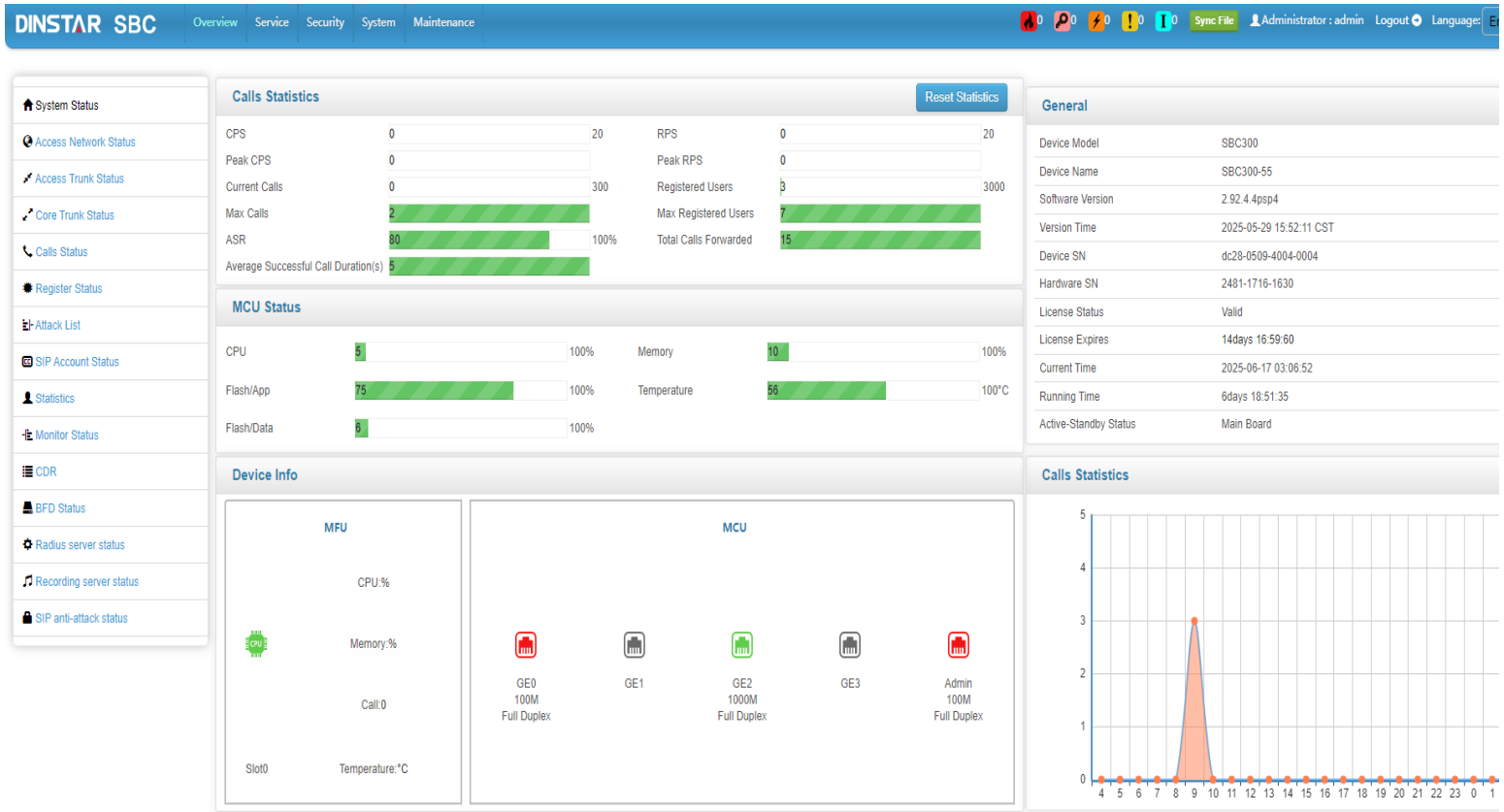
1. Connect the computer's Ethernet cable to the network management port of SBC
2. Set the PC's IP to 192.168.11.x, e.g. 192.168.11.3



Web Access to SBC

3. Web access to the management port IP of the SBC using HTTPS.
4. Default username: admin password: admin@123#





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SBC Basic Configuration

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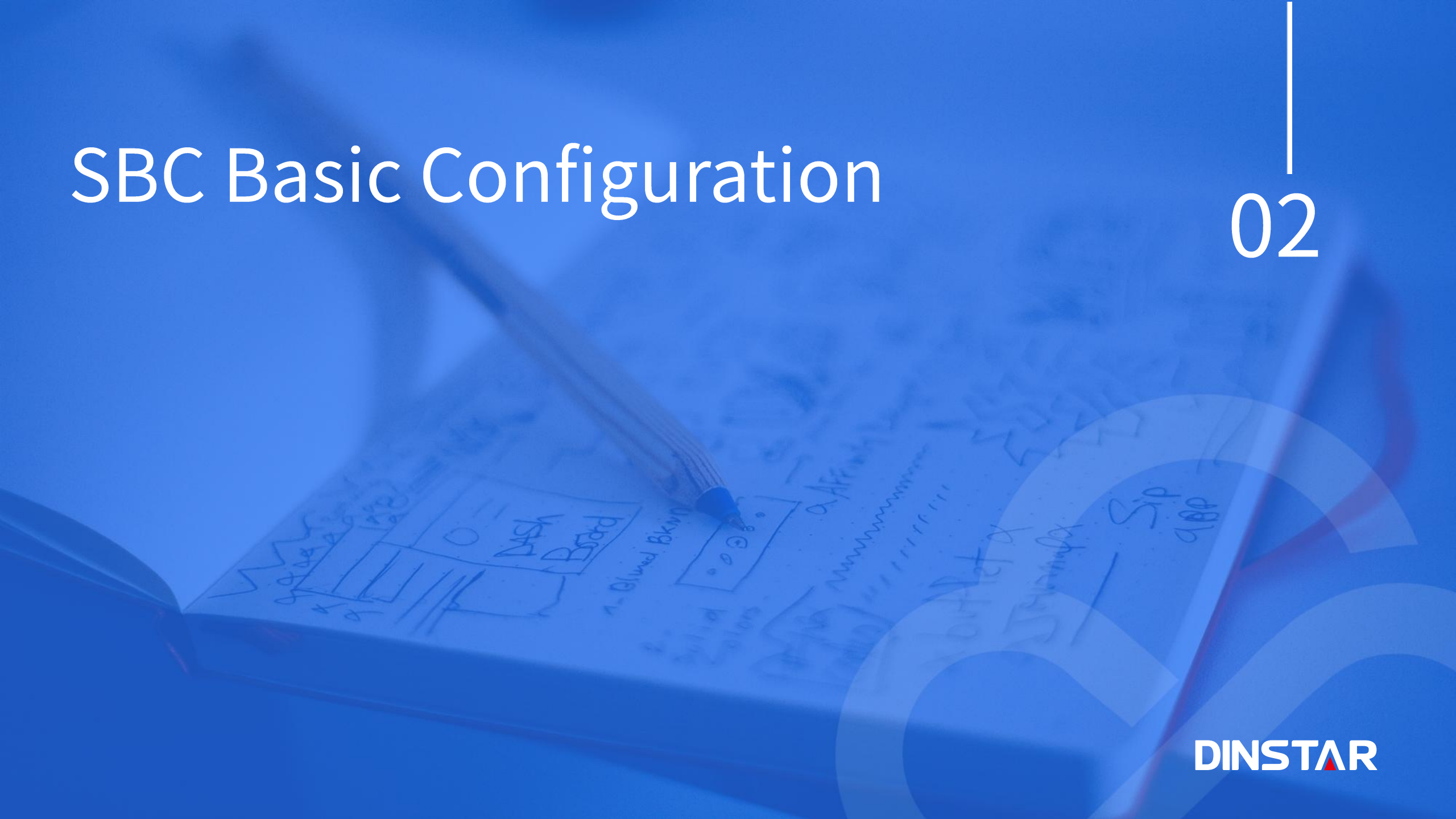
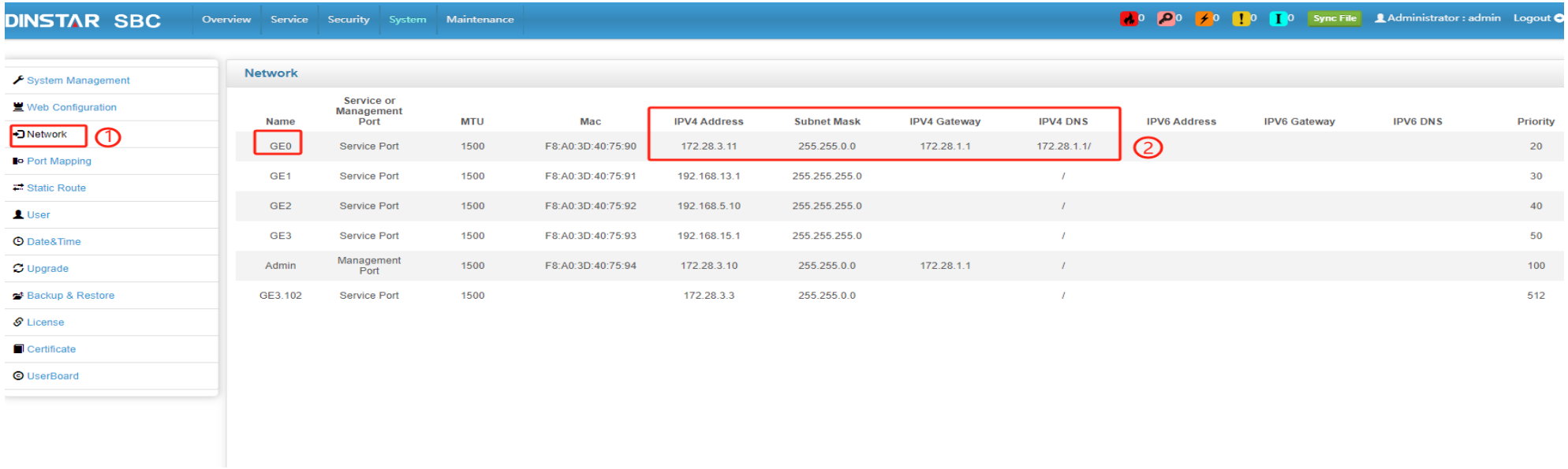


Setting Up Network Information

1. Click on System – Network
2. Select the network port to be used, configure IP address and other information

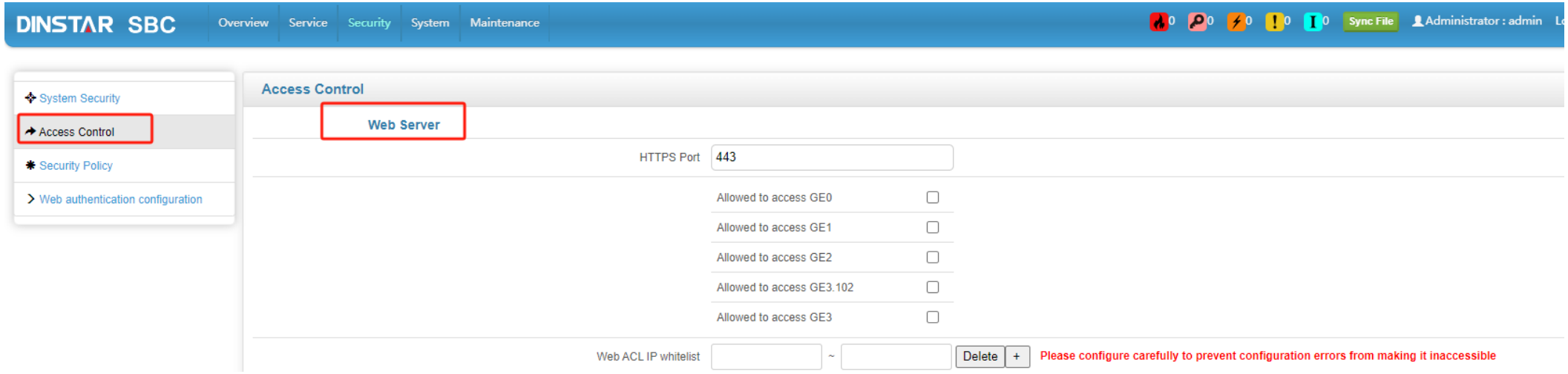
Note:

If the SBC Ethernet port does not enough, you can use the VLAN and additional switch to extend it



Setting Up Access Control

1. By default, enable web access permissions for the management port
2. Click on Security - Access Control, set web access permissions for other network ports

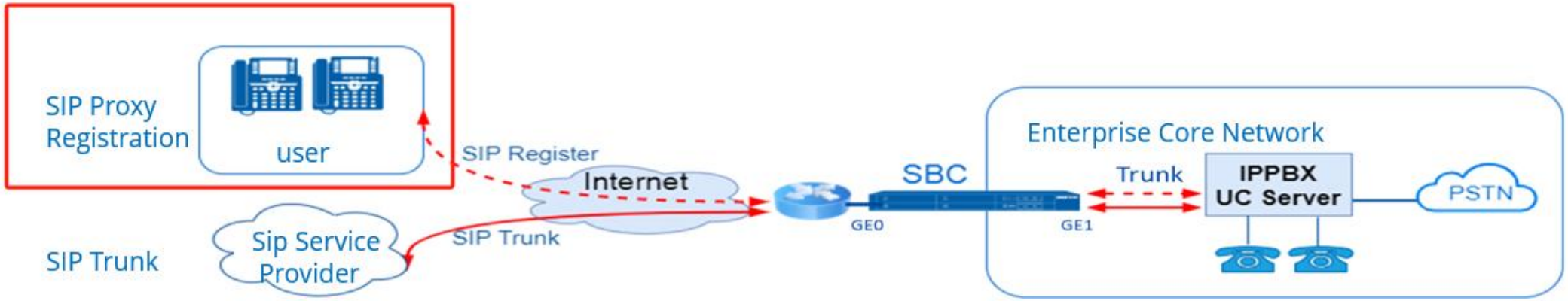


SIP Proxy Register Configuration

- Usage Scenarios

The IPPBX is on the corporate intranet and is required to accept registrations from other extensions coming from the public network. For security reasons, extensions are not allowed to connect directly to the IPPBX and the SBC acts as a proxy server. The logical structure is as follows:

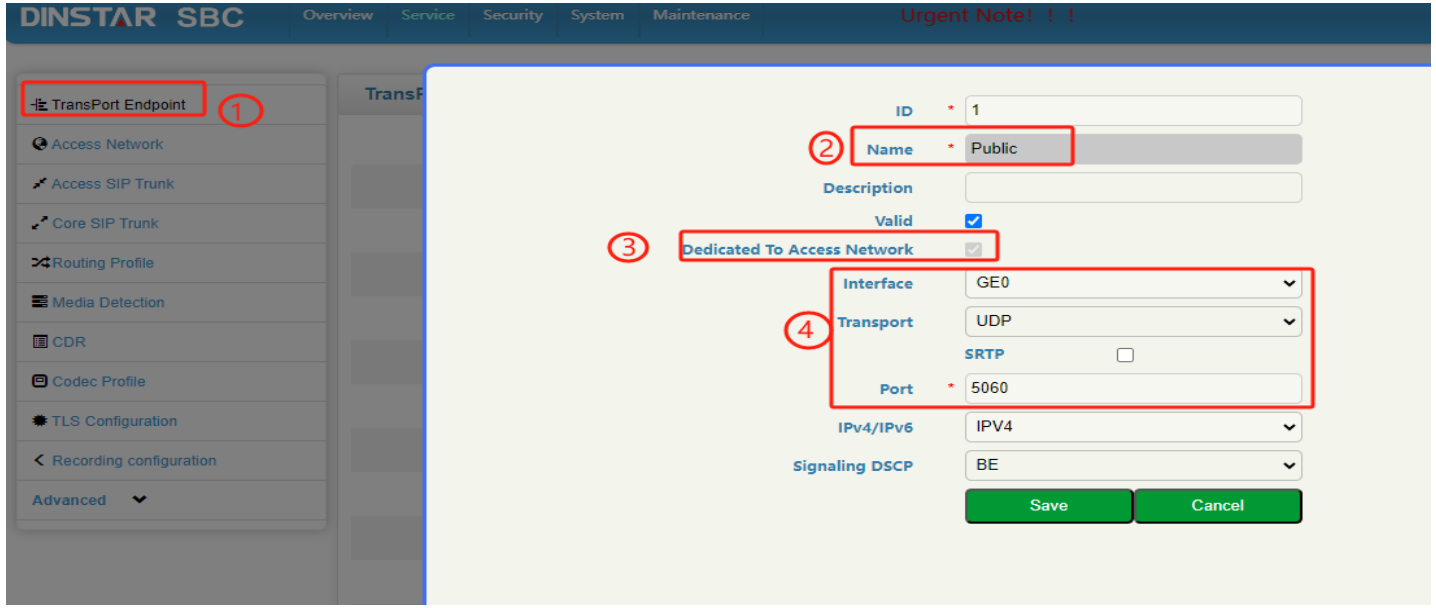
Extension - (access network) SBC (Core SIP Trunk) - IPPBX

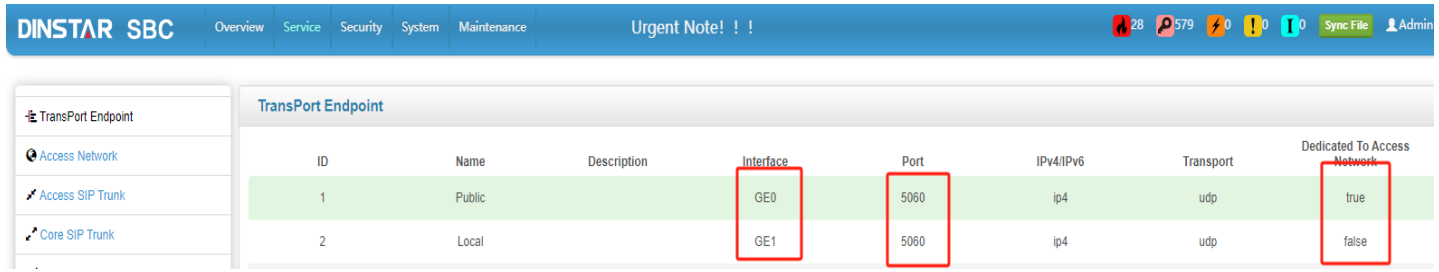


SIP Proxy Register Configuration

TransPort Endpoint → Access Network → Core SIP Trunk → Call Routing

1. Click on **Service - Transport Endpoint**
2. Custom name
3. Select Dedicated To Access Network
4. Select interface、transport and port
5. Using the same method, uncheck the Dedicated To Access Network and create a Transport Endpoint for core SIP Trunk

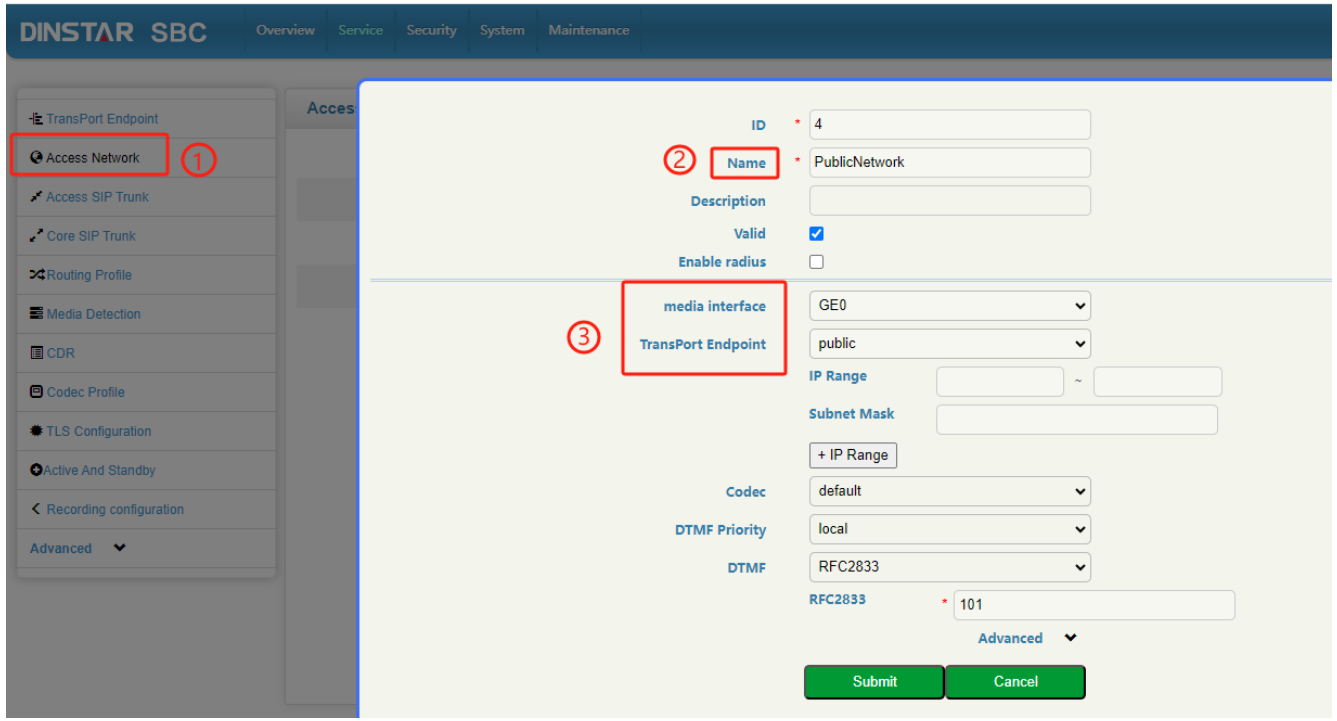




SIP Proxy Register Configuration

TransPort Endpoint | Access Network | Core SIP Trunk | Call Routing

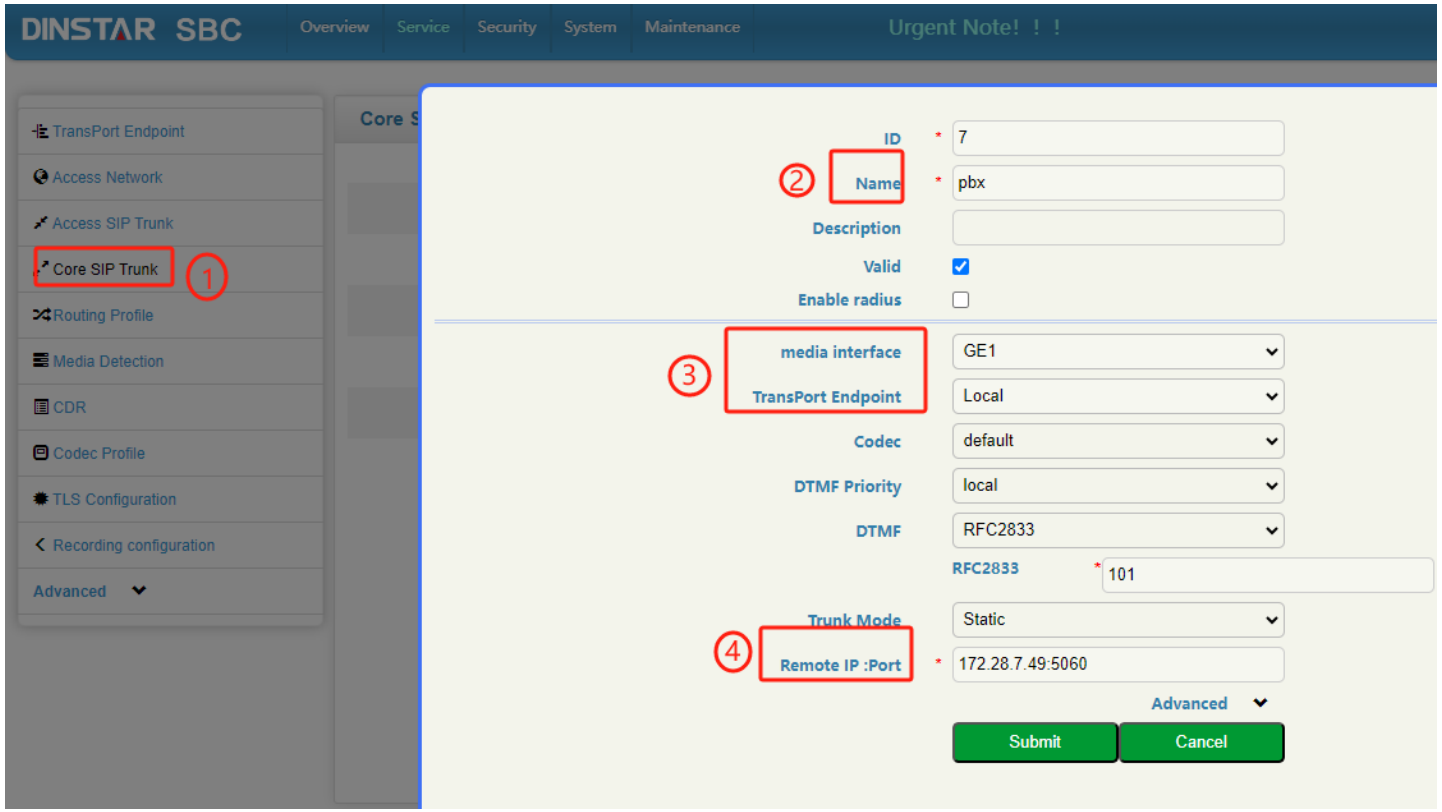
1. Click on **Service - Access Network**
2. Custom name
3. Select media interface and Transport Endpoint



SIP Proxy Register Configuration

TransPort Endpoint | Access Network | Core SIP Trunk | Call Routing

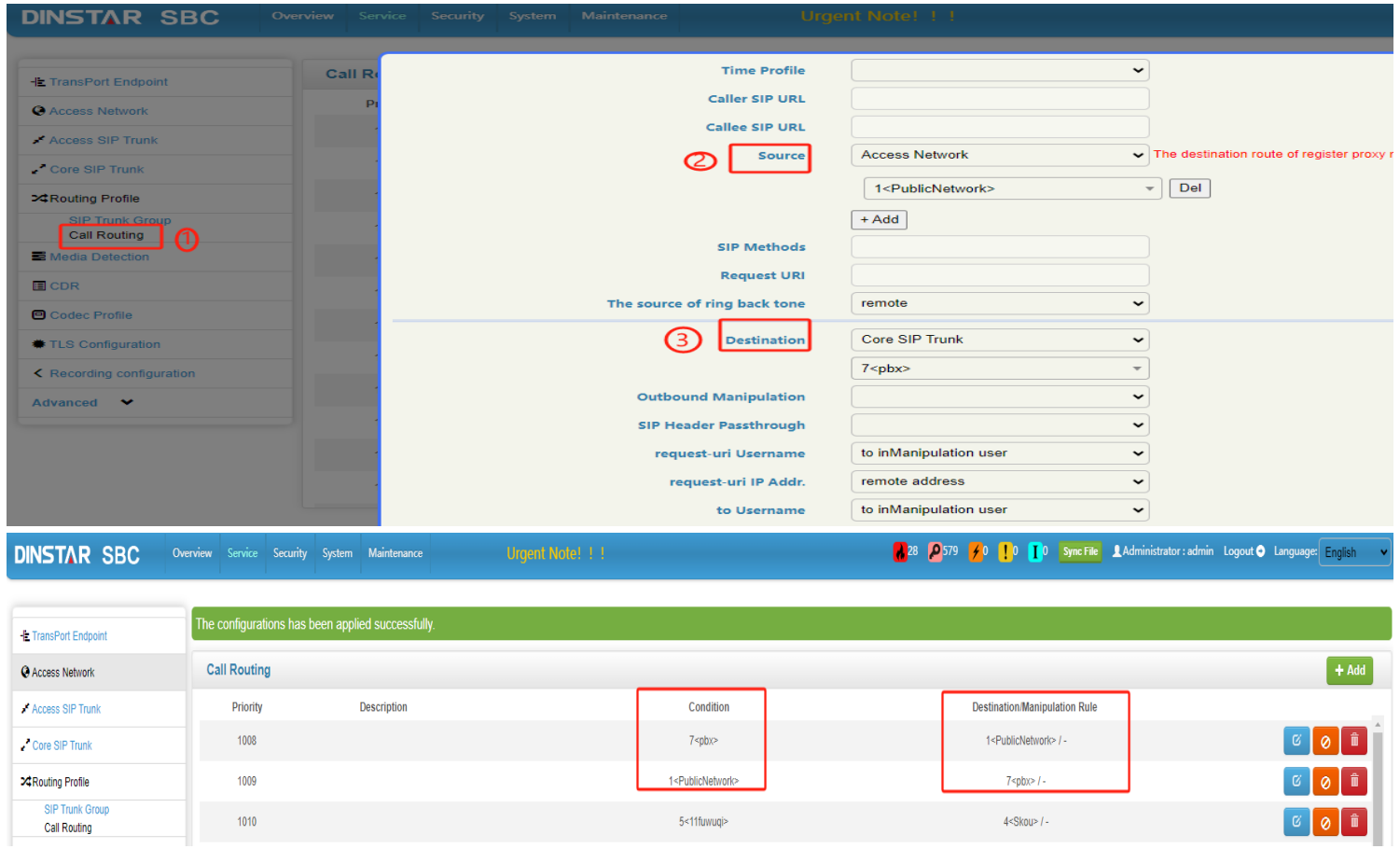
1. Click on **Service – Core SIP Trunk**
2. Custom name
3. Select media interface and Transport Endpoint
4. Configure the IP and port of PBX



SIP Proxy Register Configuration

TransPort Endpoint → Access Network → Core SIP Trunk → **Call Routing**

1. Click on **Service – Call Routing**
2. Select routing source and destination
3. Create another outbound route using the same method

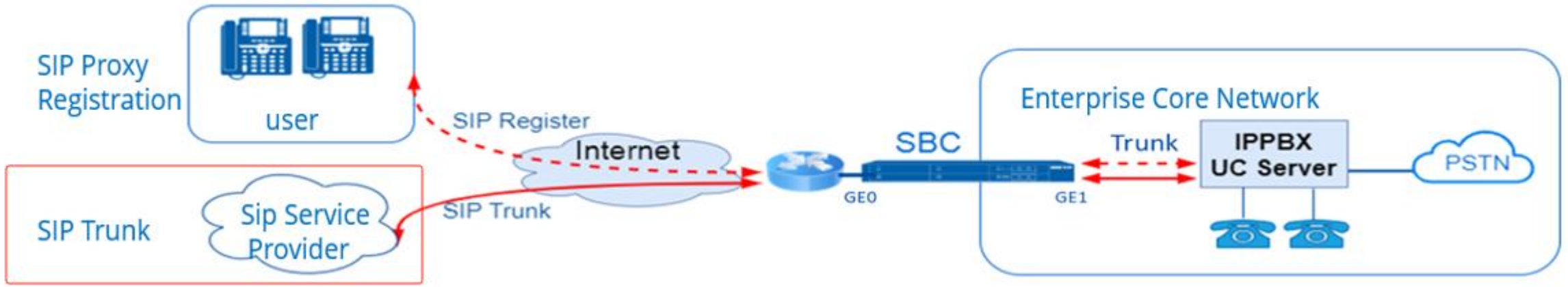


SIP Trunk Configuration

- Usage Scenarios

The SBC connect a SIP trunk to an external SIP service provider through an access trunk.

The SBC connects to the Intranet server through SIP trunk on the LAN and core trunk is configured on the SBC



SIP Trunk Configuration

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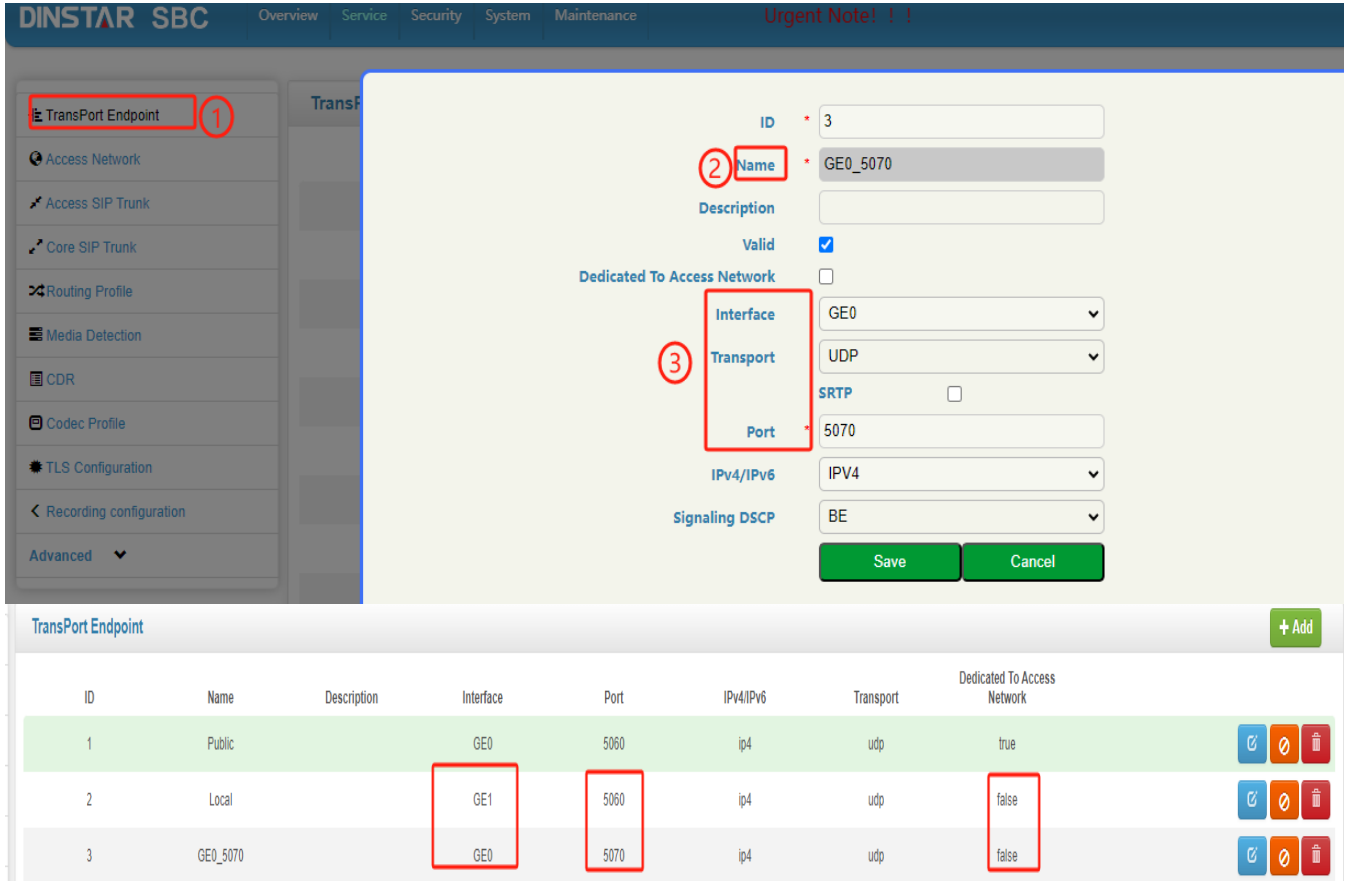
TransPort Endpoint | Access SIP Trunk | Core SIP Trunk | Call Routing

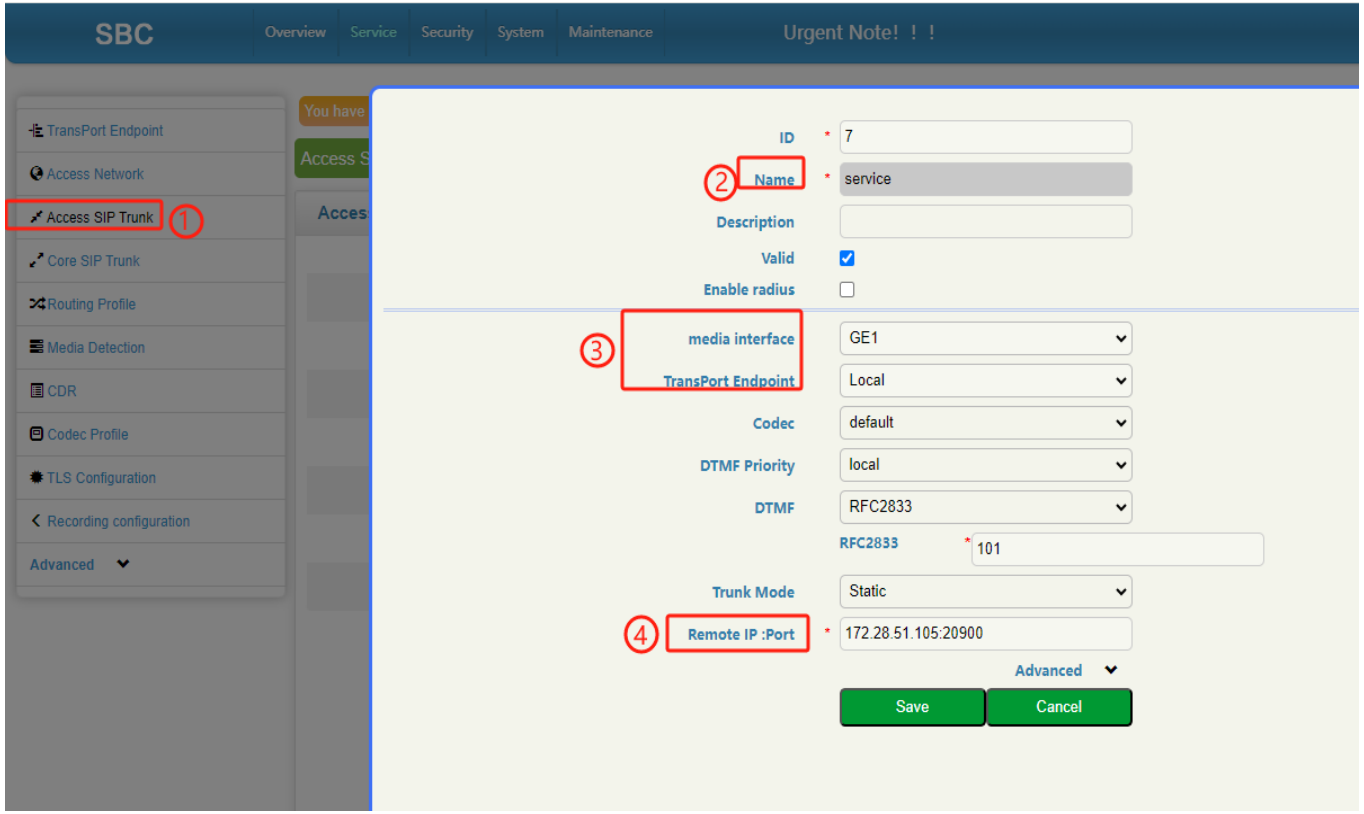
1. Click on **Service - Transport Endpoint**
2. Custom name
3. Select interface、transport and port
4. Using the same method, create a Transport Endpoint for GE1



SIP Trunk Configuration

TransPort Endpoint | **Access SIP Trunk** | Core SIP Trunk | Call Routing

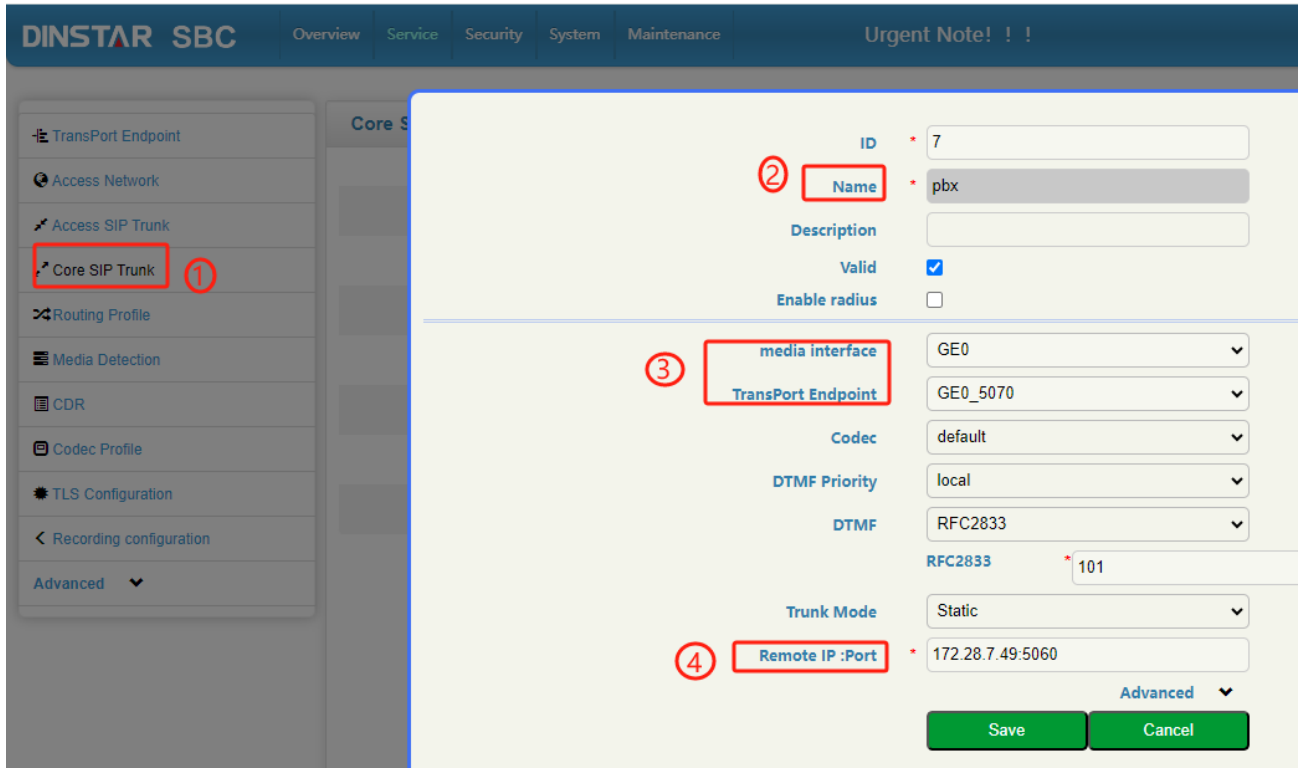
1. Click on **Service – Access SIP Trunk**
2. Custom name
3. Select media interface and Transport Endpoint
4. Configure the IP and port of SIP Service provider



SIP Trunk Configuration

TransPort Endpoint > Access SIP Trunk > **Core SIP Trunk** > Call Routing

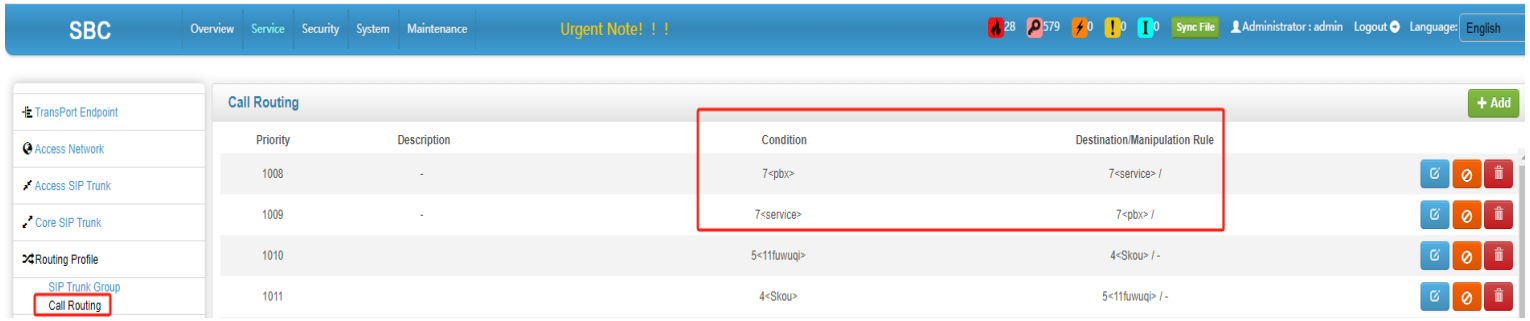
1. Click on **Service – Core SIP Trunk**
2. Custom name
3. Select media interface and Transport Endpoint
4. Configure the IP and port of PBX



SIP Trunk Configuration

TransPort Endpoint > Access SIP Trunk > Core SIP Trunk > **Call Routing**

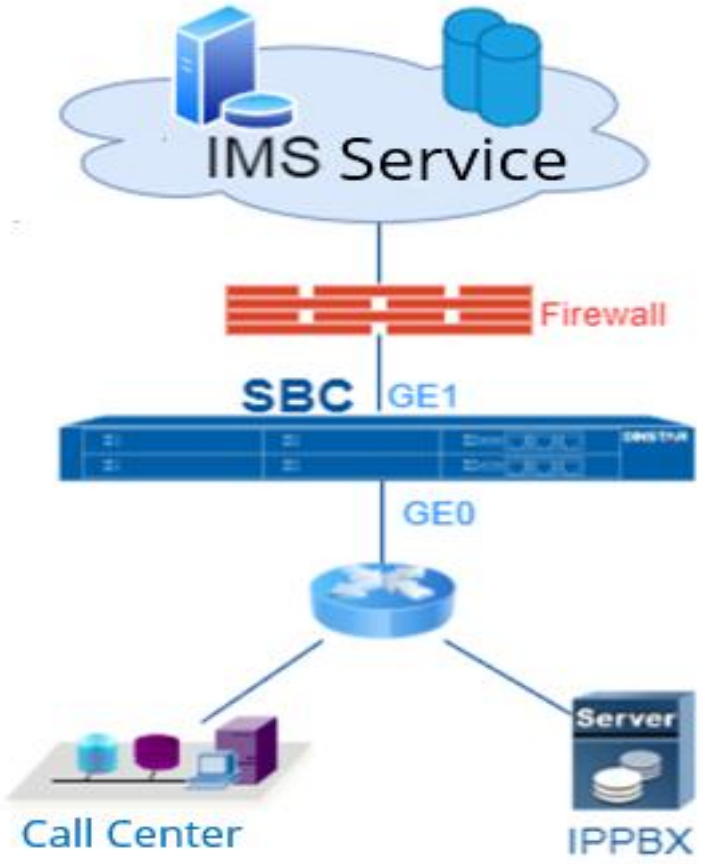
1. Click on **Service – Call Routing**
2. outbound Routing: source -- Core SIP Trunk/ pbx, destination-- Access SIP Trunk/service
3. outbound Routing: source -- Access SIP Trunk/service, destination-- Core SIP Trunk/ pbx



IMS Configuration

- Usage Scenarios

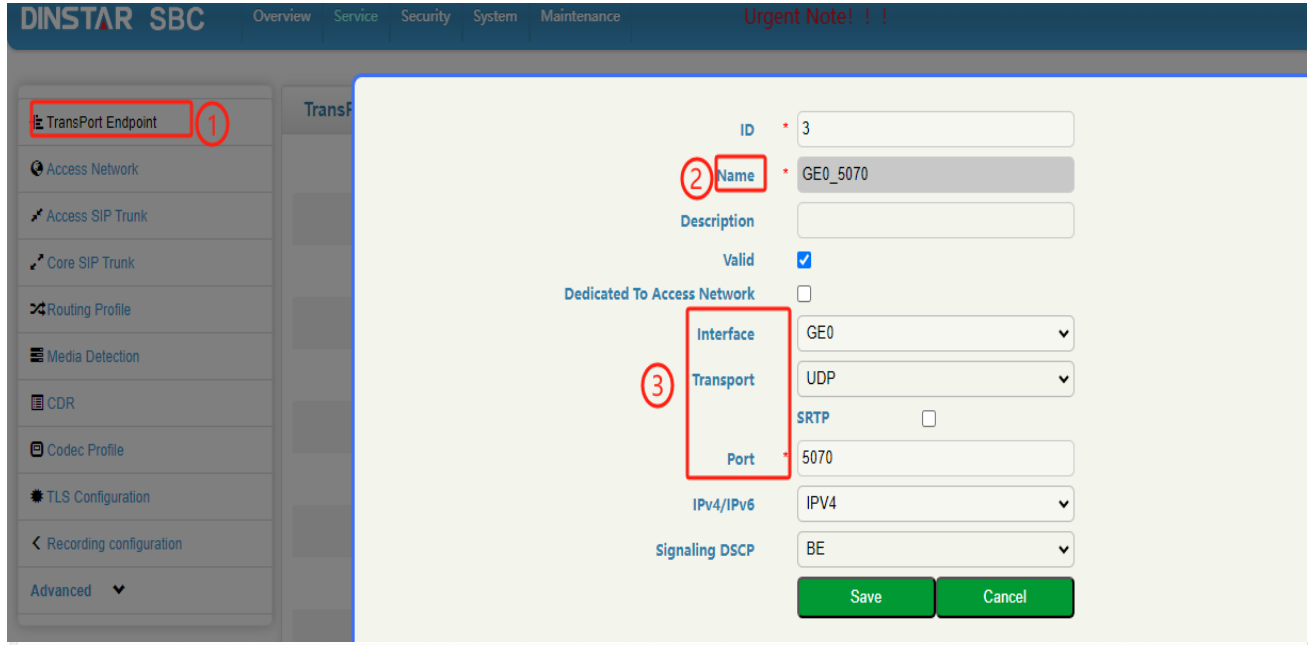
SBC supports adding SIP accounts to register with the IMS core network as outgoing landing lines (by adding access trunk and binding IMS account registration).
Call center system such as the IPPBX create SIP trunk to SBC
Call center sends an outbound call to the SBC and SBC selects IMS account to make an outbound call.



IMS Configuration

TransPort Endpoint → SIP Account → Access SIP Trunk → Core SIP Trunk → Outbound Routing → Inbound Routing

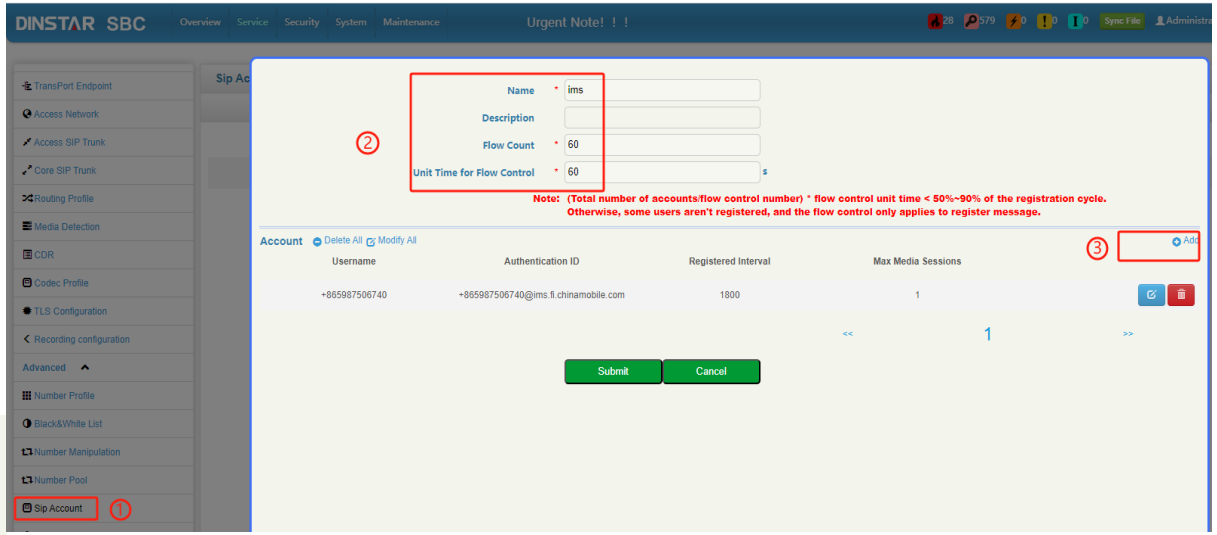
1. Click on **Service - Transport Endpoint**
2. Custom name
3. Select interface、transport and port
4. Using the same method, create a Transport Endpoint for GE1

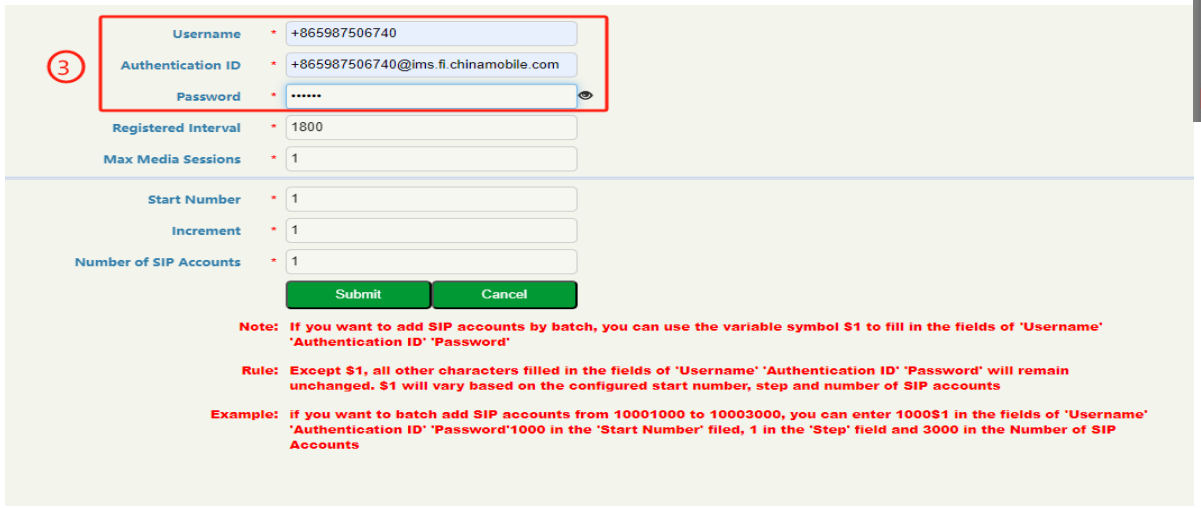


IMS Configuration

TransPort Endpoint | **SIP Account** | Access SIP Trunk | Core SIP Trunk | Outbound Routing | Inbound Routing

1. Click on **Service – Sip Account**
2. Custom name, Fill in registration flow control
3. Click 'add' to add IMS accounts, and fill in the username, authentication ID, and password according to the data provided by the operator

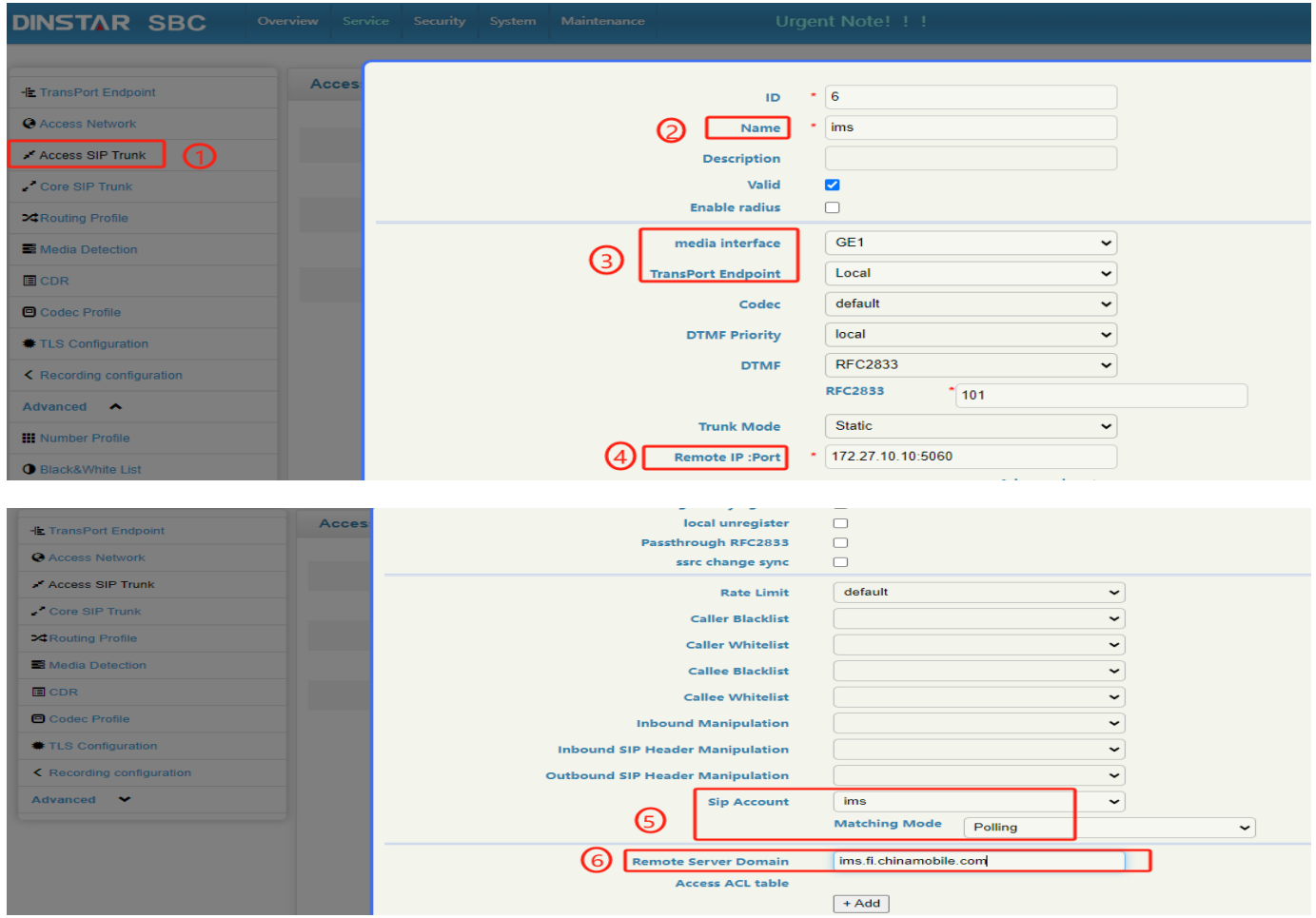




IMS Configuration

TransPort Endpoint | SIP Account | **Access SIP Trunk** | Core SIP Trunk | Outbound Routing | Inbound Routing

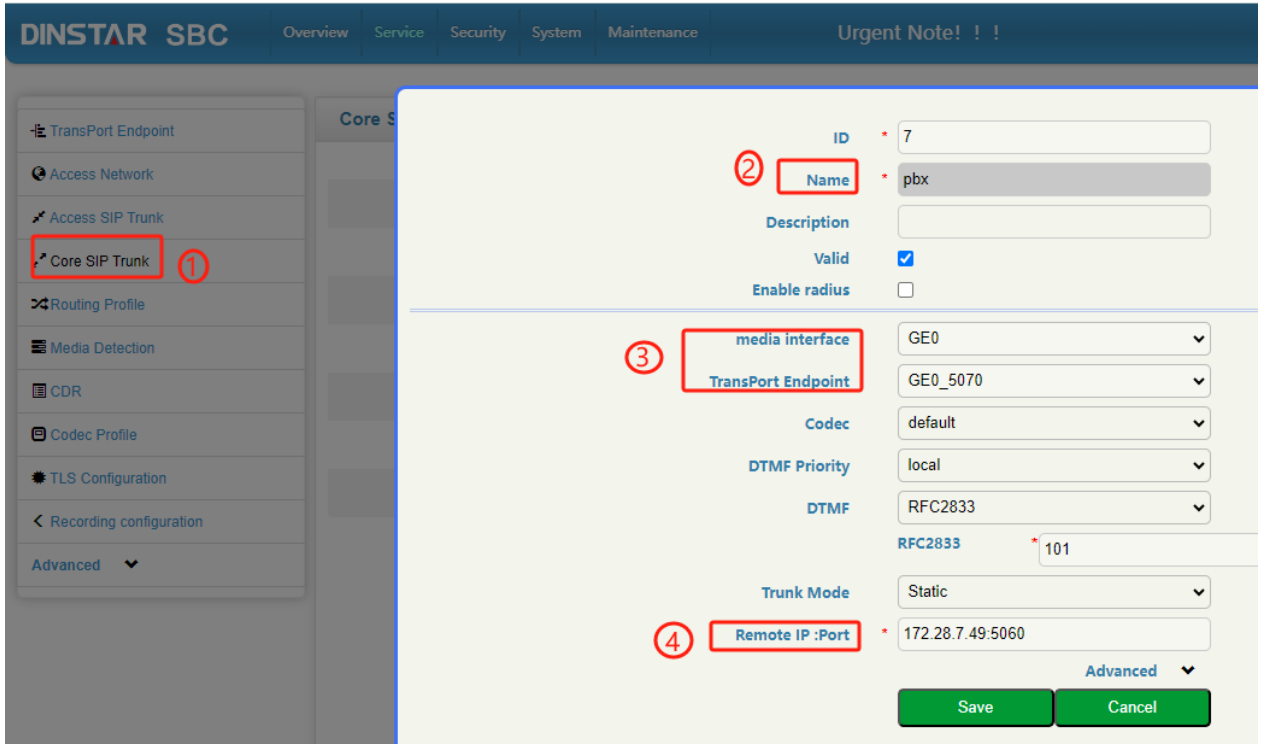
1. Click on **Service – Access SIP Trunk**
2. Custom name
3. Select TransPort Endpoint and media interface
4. Fill in the proxy registration IP address and port provided by the operator
5. Select SIP account and matching mode
6. Fill in the remote server domain provided by the operator



IMS Configuration

TransPort Endpoint | SIP Account | Access SIP Trunk | **Core SIP Trunk** | Outbound Routing | Inbound Routing

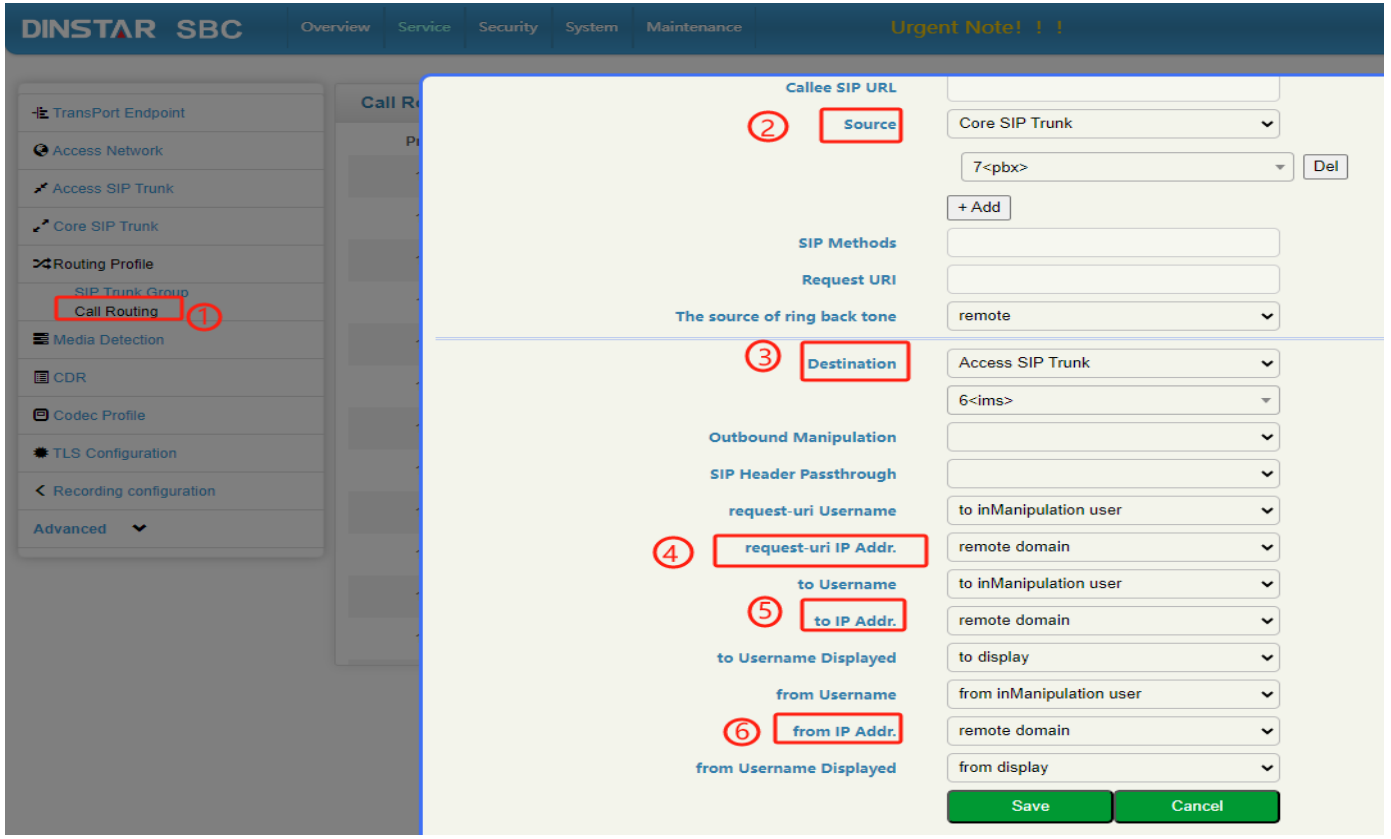
1. Click on **Service – Core SIP Trunk**
2. Custom name
3. Select media interface and Transport Endpoint
4. Configure the IP and port of PBX



IMS Configuration

TransPort Endpoint → SIP Account → Access SIP Trunk → Core SIP Trunk → **Outbound Routing** → Inbound Routing

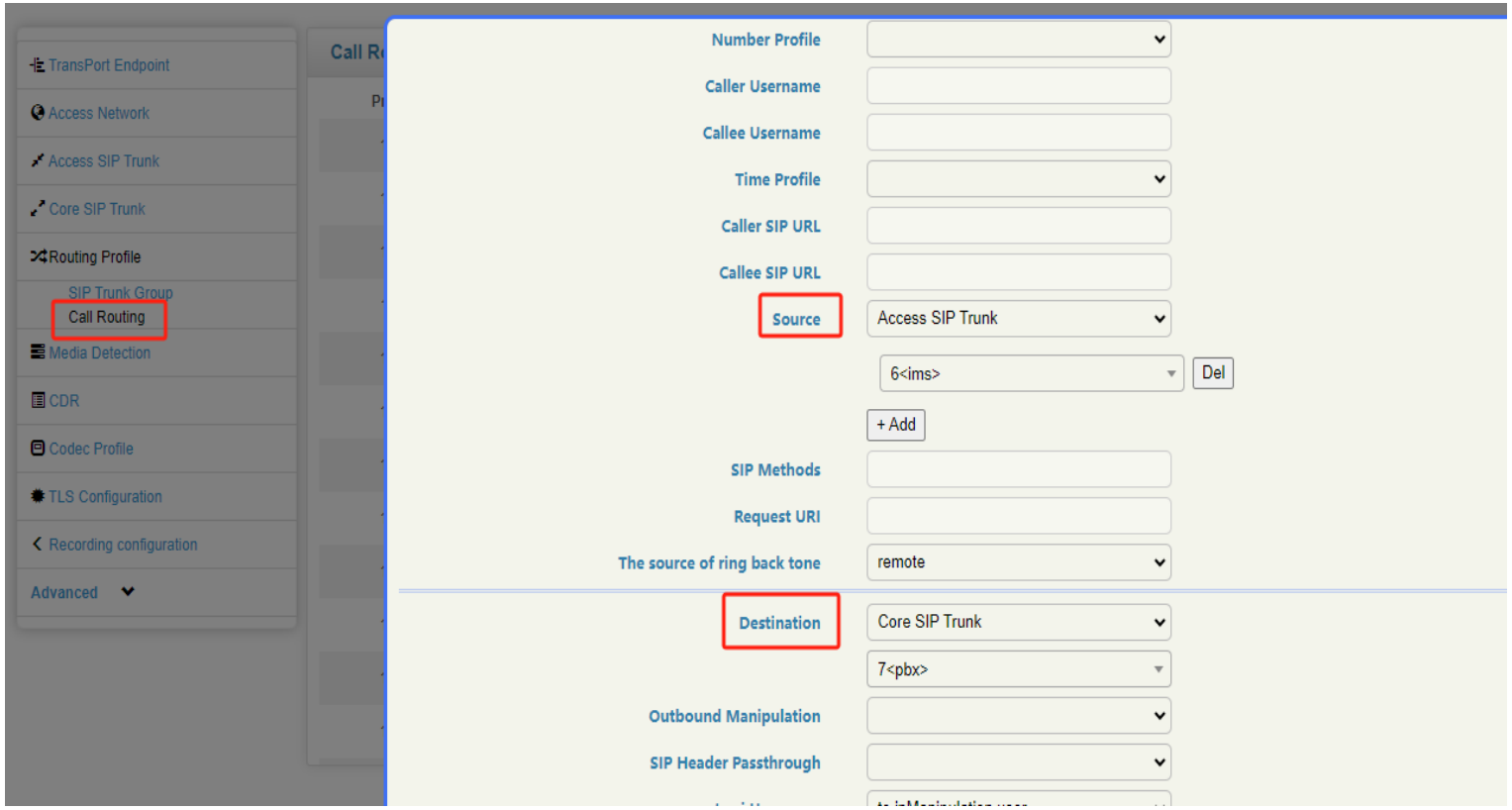
1. Click on **Service – Call Routing**
2. Select routing source is Core SIP Trunk/pbx
3. Select destination is Access SIP Trunk/ims
4. Select remote domain
5. Select remote domain
6. Select remote domain



IMS Configuration

TransPort Endpoint → SIP Account → Access SIP Trunk → Core SIP Trunk → Outbound Routing → **Inbound Routing**

1. Click on **Service – Call Routing**
2. Select routing source is Access SIP Trunk/ims
3. Select destination is Core SIP Trunk/pbx



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SBC Basic Maintenance

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Get Network Capture

Getting The Log

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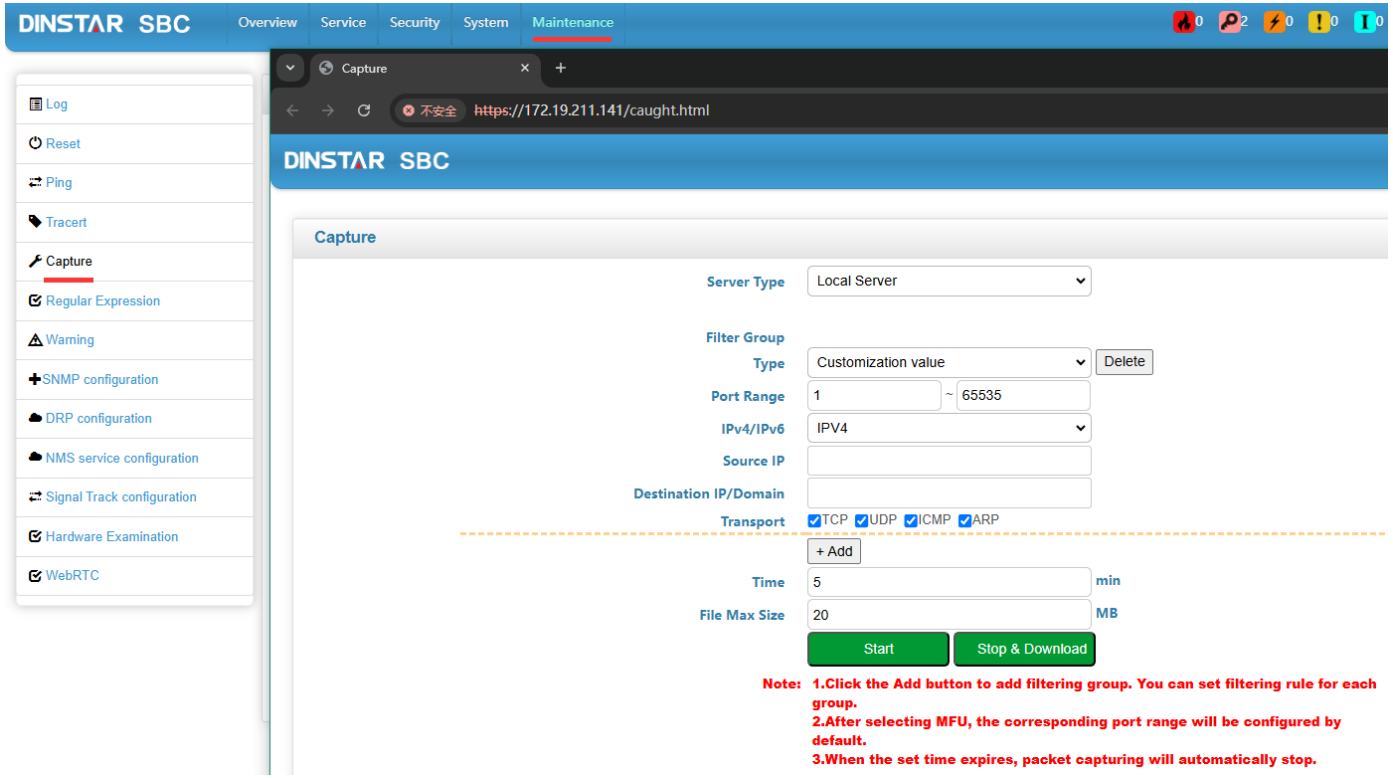
SBC Basic Maintenance

- Get Network Capture

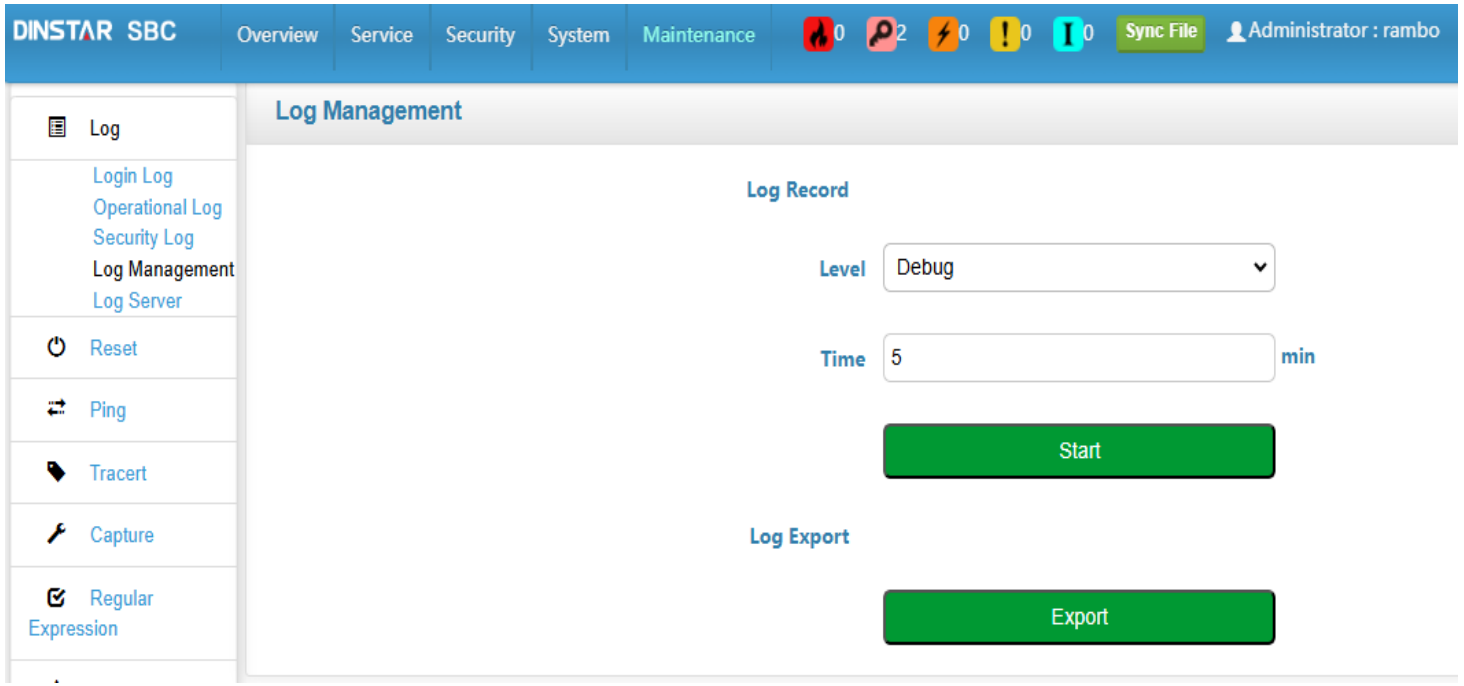
1. Click on **Maintenance – Capture**
2. Click Start
3. Reproduce the problem, click Stop& Download after reproducing



SBC Basic Maintenance

- Getting The Log

1. Click on **Maintenance – Log - Log Management**
2. Level selection debug and click Start
3. Reproduce the problem, click Export after reproducing



Summary

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

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THANKS

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