

SBC Routine Maintenance



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Foreword



- This course is mainly:
 - Introduce how to check the SBC status
 - Introduce the methods of viewing and tracking logs in SBC
 - Introduce the SBC capture method

Course Objective





Understand the normal operation status of SBC

Through this course you will be able to



Be familiar with SBC trace log method



Know how to capture packets

Contents



- 1 Chapter One Status Check
- 2 Chapter Two View & Track Log
- 3 Chapter Three Capture

Chapter One Status Check

01

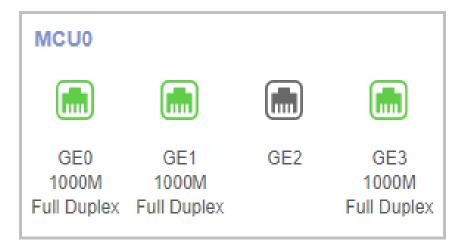
- 1.1 Network port status
- 1.2 MCU Status
- 1.3 License Status
- 1.4 Alarm View
- 1.5 View trunk status and registration status

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Network Port Status



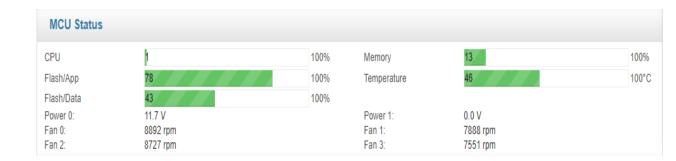
- **Gray** :represents unconnected network cable
- Red: represents that the negotiated network port speed is 100Mbps, which may be connected to a 100Mbps switch
- **Green:** represents the negotiated network port speed is 1000Mbps



MCU Status



- **CPU/Memory**: attention should be paid when exceeding 90% in the long term
- **Temperature**: Check the temperature of the CPU on the MCU
- **Fan:** Check the operating status of the fan



License Status



- **License Status**: Check if the status is available
- License Expires: Pay attention to remaining time,
 expired requires reauthorization
- Running Time: Check the running time to determine if the device has restarted
- Note: When SBC8000 call service needs transcoding, check if the MFU status is green

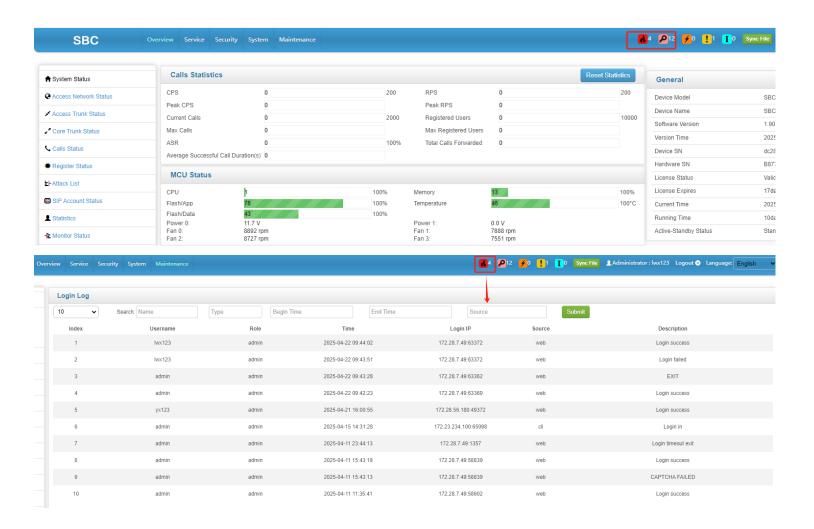
General	
Device Model	SBC3000
Device Name	SBC3000
Software Version	1.90.4.4psp3
Version Time	2025-04-03 14:50:54 CST
Device SN	dc28-0711-5031-0023
Hardware SN	B877-2337-1429
License Status	Valid
License Expires	17days 17:24:50
Current Time	2025-04-22 10:57:28
Running Time	10days 23:25:24
Active-Standby Status	Standby

MFU Call:0 Slot0	MFU Call:0 Slot1	MFU CPU Call: Slot2	MFU CPU II Call: Slot3	MFU CPU Call: Slot4	MFU CPU II Call: Slot5	MFU Cepu 1 Call: Slot6	MFU CPU Call: Slot7
MFU Cepu 1 Call: Slot8	MFU CPU Call: Slot9	MFU CPU Call: Slot10	MFU CPU Call: Slot11	MFU Cepu 1 Call: Slot12	MFU Cepu 1 Call: Slot13	MFU Call: Slot14	MFU Cepu 1 Call: Slot15
MFU	MFU	MFU	MFU	MFU	MFU	MFU	MFU
Cepu 1	CPU	CPU	CPU II	CPU	CPU I	CPU	CPU
Call:	Call:	Call:	Call:	Call:	Call:	Call:	Call:
Slot16	Slot17	Slot18	Slot19	Slot20	Slot21	Slot22	Slot23
MFU	MFU	MFU	MFU	MFU	MFU	MFU	MFU
CPU 1	Ecpu 1	Ecpu 1	CPU 1	CPU	CPU II	Cepu 1	CPU 1
Call:	Call:	Call:	Call:	Call:	Call:	Call:	Call:
Slot24	Slot25	Slot26	Slot27	Slot28	Slot29	Slot30	Slot31

Alarm View

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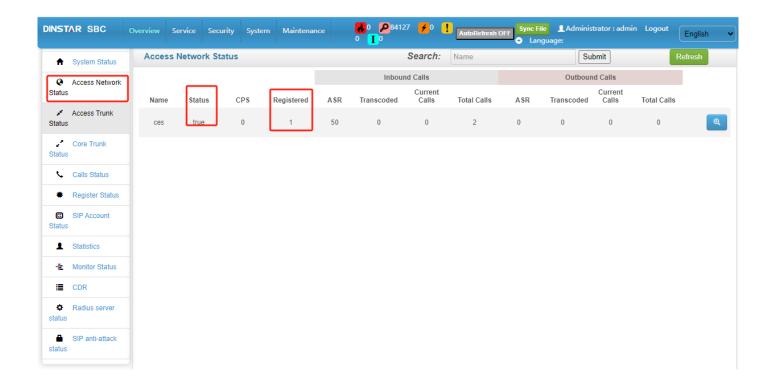
- Check if the alarm has increased
- Alarm increase can be clicked to view details



Access Network Status



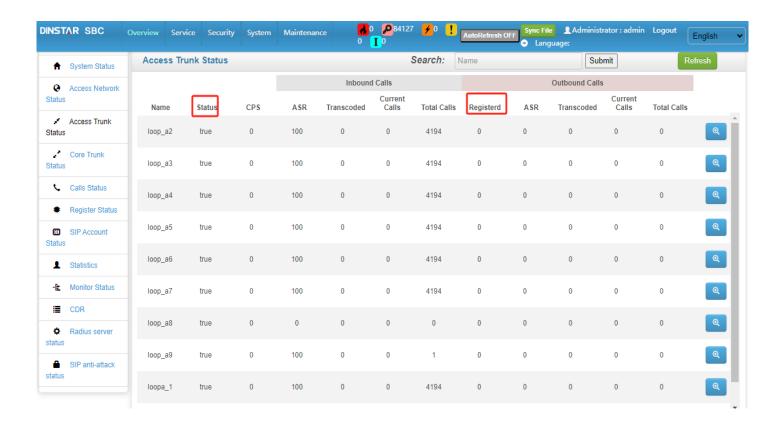
- Check if the status is true
- Check if the registered quantity is correct



Access Trunk Status



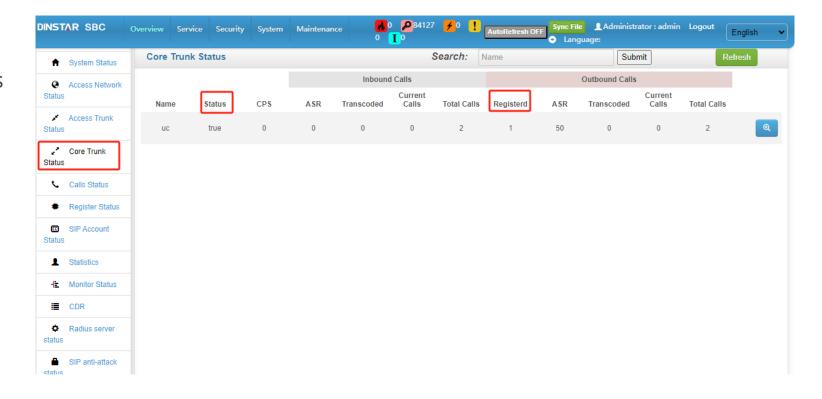
- Check if the status is true
- Check if the number of registrations is correct when registered



Core Trunk Status



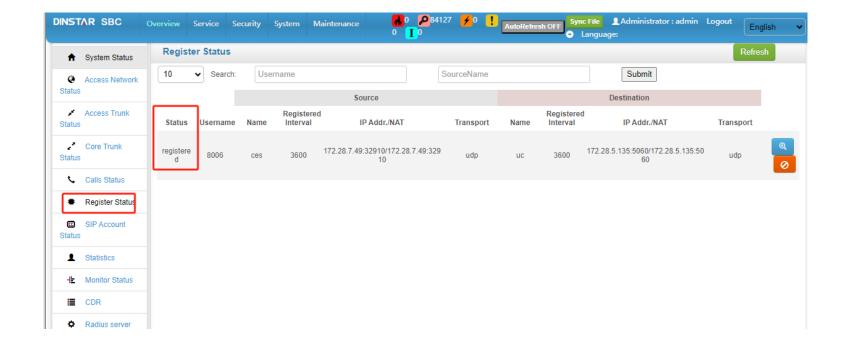
- Check if the status is true
- Check if the number of registrations is correct when registered



Register Status



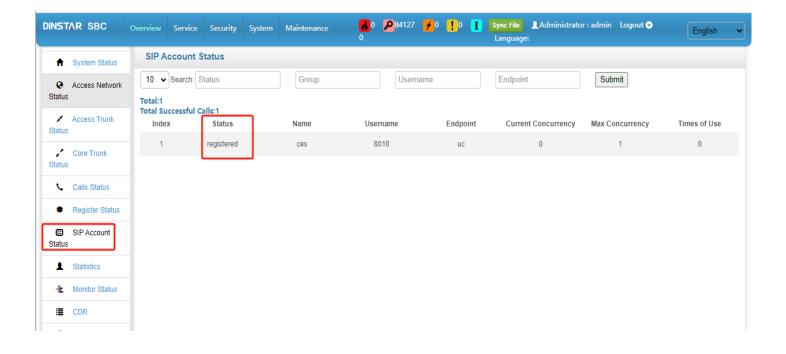
- Display the registration status of terminal devices with SBC devices
- Check if the status is registered



SIP Account Status



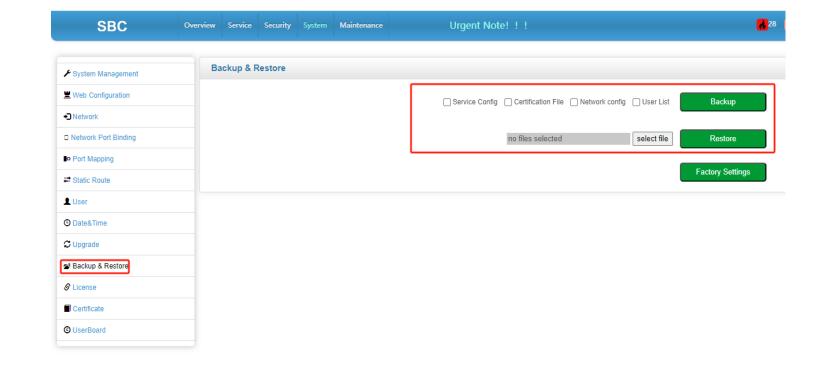
- Display the registration status of SIP accounts registered by SBC to SIP servers
- Check if the status is registered



Backup & Restore



- Click on System Backup & Restore,
 Select the files that need to be
 backed up and click on 'Backup'
- Select the backup file, click on 'restore', and if the restore is successful, the SBC will automatically restart



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Chapter Two View & Track Log

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- 2.1 Login Log
- 2.2 Operational Log
- 2.3 Log Management
- 2.4 Signal Track Log
- 2.5 Command Line Trace Log

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Login Log



Application scenarios

- Suddenly jumping to the login window during use, users can check here to see if the same account is logged in at the same time and where the source is
- 2. The device has restarted, users can check if it was caused by someone operating it

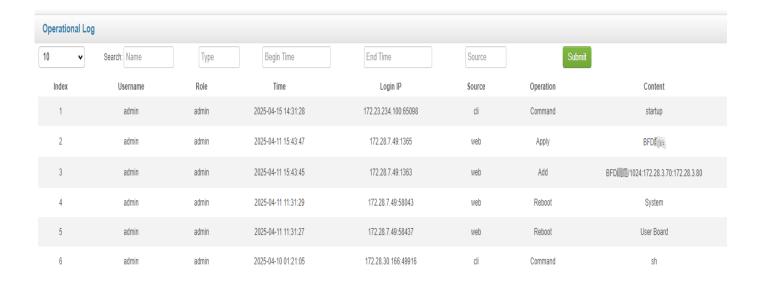
Login Log						
10 🔻	Search: Name	Type Begin Time	End Time	Source	Submit	
Index	Username	Role	Time	Login IP	Source	Description
1	admin	admin	2025-04-23 09:47:40	172.28.7.49:20425	web	Login success
2	admin	admin	2025-04-23 09:47:18	172.28.7.49:20425	web	Login failed
3	lwx123	admin	2025-04-22 22:39:01	172.28.7.49:63368	web	Login timeout exit
4	yx123	admin	2025-04-22 21:59:46	172.28.56.180:49372	web	Login timeout exit
5	lwx123	admin	2025-04-22 09:44:02	172.28.7.49:63372	web	Login success
6	lwx123	admin	2025-04-22 09:43:51	172.28.7.49:63372	web	Login failed
7	admin	admin	2025-04-22 09:43:28	172.28.7.49:63362	web	EXIT
8	admin	admin	2025-04-22 09:42:23	172.28.7.49:63369	web	Login success
9	yx123	admin	2025-04-21 16:00:55	172.28.56.180:49372	web	Login success
10	admin	admin	2025-04-15 14:31:28	172.23.234.100:65098	cli	Login in

Operational Log



Application scenarios

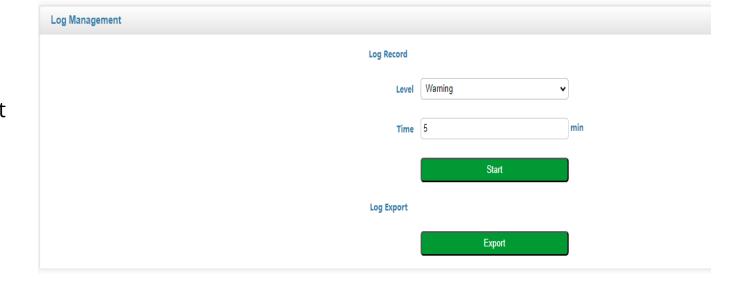
The call suddenly doesn't work, Check if the configuration has been changed



Log Management



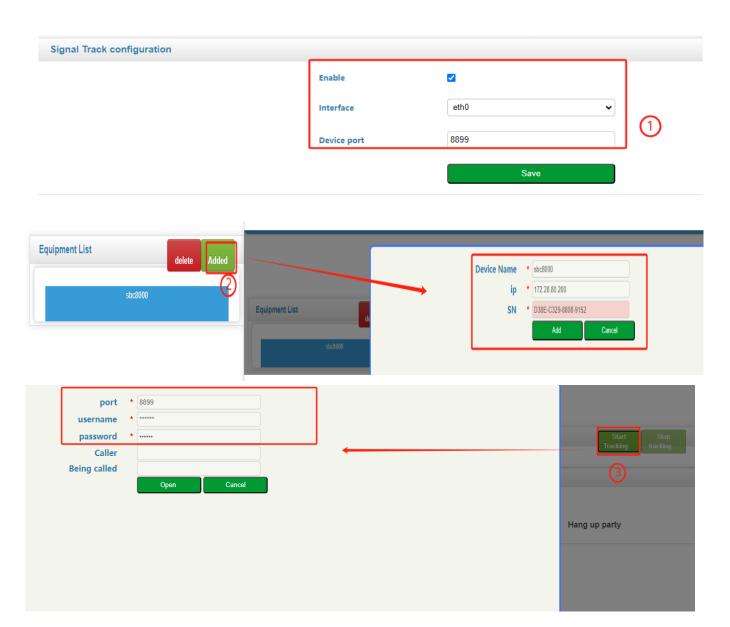
- **Direct export**: can obtain system logs for analyzing system abnormalities
- Online tracking: Select the DEBUG level, set the time, start tracking, and wait for the call to complete and then export the call log immediately for tracking



Signal Track configuration



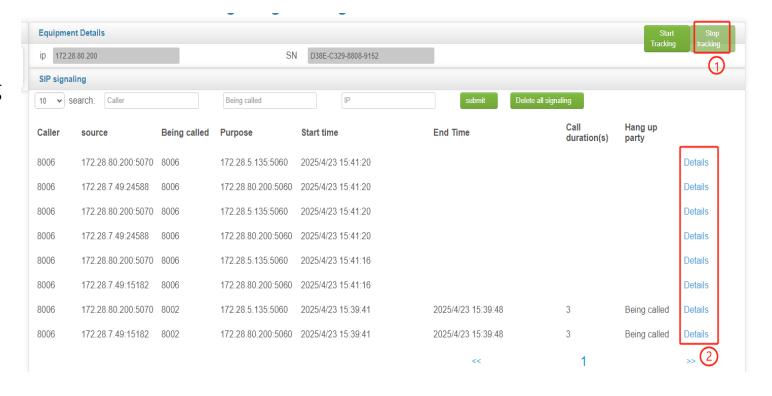
- SBC: Enable signaling tracking in
 Maintenance-Signaling Tracking
 Configuration, select the network port, and configure the port
- 2. Signaling tracking tool: Windows, Linux or Mac, choose the corresponding system to install, add the device after successful installation
- 3. Strat tracking: Fill in the port set on SBC, SBC login account and password



Signal Track Log



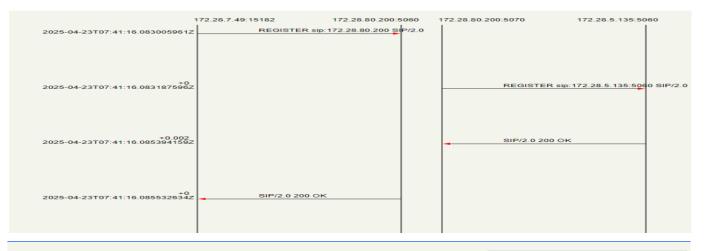
- 1. Click Stop Tracking to see the log
- Click Details to see the specific signaling process



Signal Track Log

- 1. Registration signaling process
- 2. Call signaling process





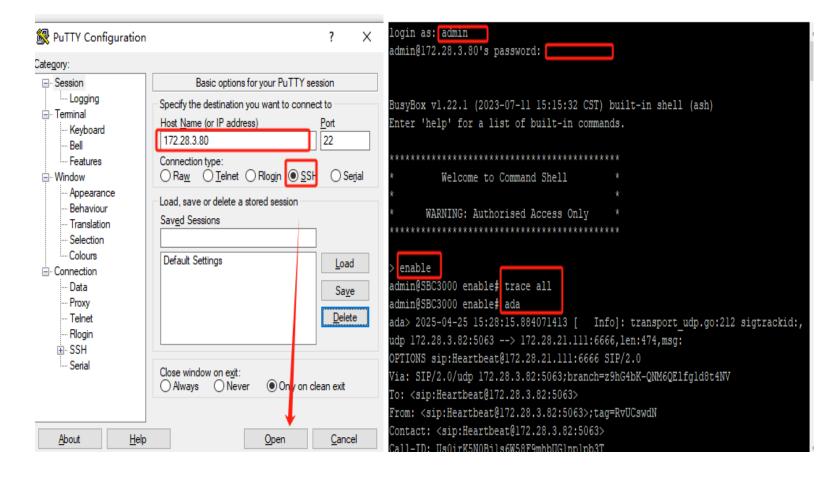


Command Line Trace Log



SBC1000/SBC3000Pro

- Open tools like Putty, enter the SBC IP and select ssh
- 2. After opening, enter the SBC login account and password
- 3. Enter the "enable", "trace all", and "ada" commands in sequence to track the log

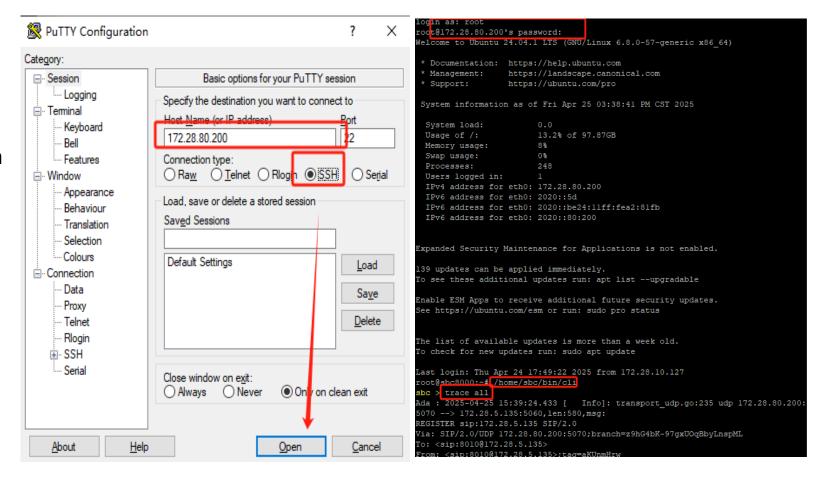


Command Line Trace Log



• SBC8000

- Open tools like Putty, enter the IP and SSH port of the server
- After opening, enter the SSH login account and password for the server
- Enter the "/home/sbc/bin/cli" ("trace all" commands in sequence to track the log



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Capture



SBC1000/SBC3000Pro

- 1. Click on **Maintenance Capture**
- 2. On demand or default configuration, click **Start**
- 3. Reproduce the problem
- 4. Click **Stop&Download** to stop packet capture and download files

Server Type	Local Server	~		
Filter Group				
Туре	Customization value	~	Delete	
Port Range	1 ~ 65535			
IPv4/IPv6	IPV4	~		
Source IP				
Destination IP/Domain			ĺ	
Transport	✓TCP ✓UDP ✓ICMI	P ZARP	,	
	+ Add			
Time	5		min	
File Max Size	20		мв	
	Start	Stop & Download		
Note:			group. You can set filtering rule f	or each group.
			ing port range will be configured apturing will automatically stop.	by default.
				-

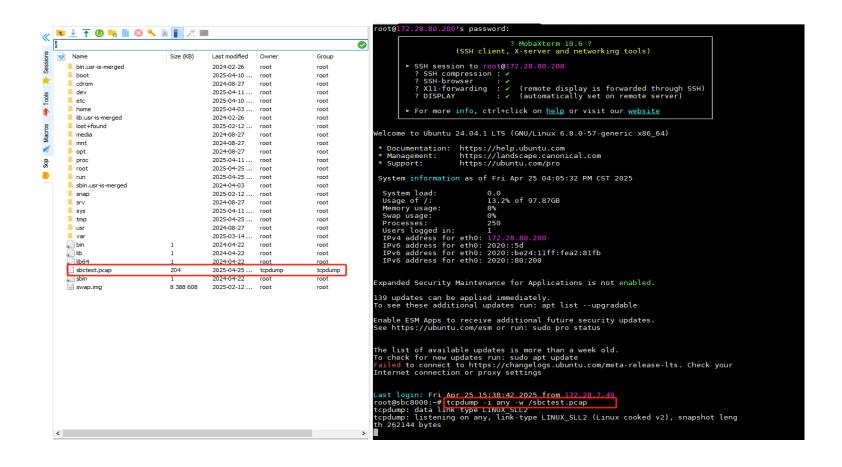
Capture



SBC8000

Sbc8000 cannot directly capture packets on the web interface and needs to capture server network port messages

tcpdump - i network port name - w file name



















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