

SX3000 Operation Log (operate.log)

Document version: 201504

Description:

1. The operate.log is stored in the **/media/sda1/log/yyymm** directory on the SD card. It is used in real-time to log all of the operations performed on the device. Monthly operation logs can be downloaded through the log management interface.
2. The system generates one log file every month. The file name format is **yyyymm**, (e.g. 201409)
3. The operate.log lists all the configurations performed on the web interface, access to the device through SSH clients, and commands entered from the background.

Log Entry Details

Field No.	Type	Status Description
①	Date	
②	Time	
③	Web-based login operation right	● admin—The device has been logged in with administrator operation right ● operator—The device has been logged in with operator operation right
	SSH login user	● root—The device has been logged in via SSH by the operators with root right
④	IP address of the login user	
⑤	Login	● LOGIN—Login operation has been performed ● LOGOUT—Logout operation has been performed
	Configuration	● EDIT—The parameter editing has been performed on the page ● CONFIG—The parameter export or factory setting restoration have been performed
	Log	● LOG—Log
	Restart the device	● RESTART—The device has been restarted
	SSH service	● SSHD—The SSH service has been applied

Field No.	Type	Status Description
⑥	Configuration	● CONFIG—The parameter modification has been performed ● DOWN— The configuration downloading has been performed
	Log	● DOWN—The log downloading has been performed ● CLEAR—The log clearing has been performed
	Restart device	● SYS—The device has been restarted
	SSH login/logout	● Login—The device has been logged in via SSH ● Logout—The device has been logged out from SSH login
	SSH command input	● ExecCmd—The SSH command has been executed
⑦	Operation result	● OK/NG
⑧	User name	● admin—Use admin as user name ● operator—Use operator as user name
	Parameter ID	
	Command inputted from the SSH access client	
⑨	Configured parameter value	

Detailed Description:**Login/logout log entry**

If ⑤ is displayed as LOGIN, login operation has been performed. If ⑦ is displayed as OK, login is successful. If ⑦ is displayed as NG, login has failed.

If ⑤ is displayed as LOGOUT, the logout operation has been performed. If ⑦ is displayed as OK, logout is successful.

For example:

①	②	③	④	⑤	⑥	⑦	⑧
20140917 13:15:03		admin	192.168.23.23	LOGIN		OK	admin

This log entry shows that the operator has logged in successfully using the **admin** role, the IP address is 192.168.23.23, and the user name is admin.

Parameter configuration log entry:

If ⑥ is displayed as CONFIG, it indicates that the operator has modified parameters. The modified item is the ID displayed in ⑧, and the configured parameter value is the data displayed in ⑨

For example:

①	②	③	④	⑤	⑥	⑦	⑧	⑨
20140917 13:43:49		admin	192.168.23.23	EDIT	CONFIG	OK	id=80 line_id=-1	data=ABC123

This log entry indicates that the administrator has changed the host name on the network webpage to **ABC123**.

SSH log entry:

①	②	③	④	⑤⑥	⑦	⑧	⑨
20140917 15:54:49		root	10.128.23.23	SSHD Login	OK		
20140917 16:18:53				SSHD ExecCmd	OK	ls	

This log entry shows that the user **root** has logged in to the device using an SSH session and executed the **ls** command.

Relationship Between ID Values and Configuration

Network	ID	Configuration	Controls	Data Value
Host name	80	Host name	Input box	
ETH1	90	IP address	Input box	
	91	Netmask	Input box	
ETH2	100	IP address	Input box	
	101	Netmask	Input box	
ETH3	110	IP address	Input box	
	111	Netmask	Input box	
ETH4	309	IP address	Input box	
	310	Netmask	Input box	
Gateway	82	Gateway IP address	Input box	
DNS	120	Enable	Radio button	on/off
	121	Primary server	Input box	
	122	Secondary server	Input box	
SNTP	123	Primary server	Input box	
	124	Secondary server	Input box	
	125	Timeout	Input box	
	126	Interval	Input box	
	26	Time zone	Dropdown list	The list of 29 time zones
SIP server	ID	Configuration	Controls	Data Value
ID (1~5)	71 line_id=N	SIP server	Input box	
	72 line_id=N	Sending response via rport	Radio button	yes/no
Service port---ETH1	ID	Configuration	Controls	Data Value
ID (1~5)	211 line_id=N	Service port	Input box	
	212 line_id=N	Index of SIP server	Dropdown list	1, 2, 3, 4, and 5 correspond to SIP servers 1–5 respectively.

	217 line_id=N	Index of backup SIP server 1	Dropdown list	1, 2, 3, 4, and 5 correspond to SIP servers 1–5 respectively.
	218 line_id=N	Index of backup SIP server 2	Dropdown list	1, 2, 3, 4, and 5 correspond to SIP servers 1–5 respectively.
	214 line_id=N	RTP encryption	Dropdown list	0-None/1-RTP/2-RTP Header/3-RTP Body
	215 line_id=N	Encryption method	Dropdown list	0-None/21-TLS/2-TCP Not Encrypted/3-TCP Encrypted/ 6-UDP Not Encrypted/7-UDP Encrypted/ 8-Using Keyword/9-Using Keyword2 11/Encrypt 14
	216 line_id=N	Encryption key	Input box	
Service port---ETH2	ID	Configuration	Controls	Data Value
ID (1~5)	231 line_id=N	Service port	Input box	
	232 line_id=N	Index of SIP server	Dropdown list	1,, 2, 3, 4, and 5 correspond to SIP servers 1–5 respectively.
	237 line_id=N	Index of backup SIP server 1	Dropdown list	1, 2, 3, 4, and 5 correspond to SIP servers 1–5 respectively.
	238 line_id=N	Index of backup SIP server 2	Dropdown list	1, 2, 3, 4, and 5 correspond to SIP servers 1–5 respectively.
	234 line_id=N	RTP encryption	Dropdown list	0-None/1-RTP/2-RTP Header/3-RTP Body
	235 line_id=N	Encryption method	Dropdown list	0-None/21-TLS/2-TCP Not Encrypted/3-TCP Encrypted/ 6-UDP Not Encrypted/7-UDP Encrypted/ 8-Using Keyword/9-Using Keyword2 11/Encrypt 14
	236 line_id=N	Encryption key	Input box	
Service port---ETH3	ID	Configuration	Controls	Data Value
ID (1~5)	251 line_id=N	Service port	Input box	
	252 line_id=N	Index of SIP server	Dropdown list	1, 2, 3, 4, and 5 correspond to SIP servers 1–5 respectively.
	257 line_id=N	Index of backup SIP server 1	Dropdown list	1, 2, 3, 4, and 5 correspond to SIP servers 1–5 respectively.
	258 line_id=N	Index of backup SIP server 2	Dropdown list	1, 2, 3, 4, and 5 correspond to SIP servers 1–5 respectively.
	254 line_id=N	RTP encryption	Dropdown list	0-None/1-RTP/2-RTP Header/3-RTP Body
	255 line_id=N	Encryption method	Dropdown list	0-None/21-TLS/2-TCP Not Encrypted/3-TCP Encrypted/ 6-UDP Not Encrypted/7-UDP Encrypted/ 8-Using Keyword/9-Using Keyword2

				11/Encrypt 14
	256 line_id=N	Encryption key	Input box	
Service port---ETH4	ID	Configuration	Controls	Data Value
ID (1~5)	320line_id=N	Service port	Input box	
	321line_id=N	Index of SIP server	Dropdown list	1, 2, 3, 4, and 5 correspond to SIP servers 1–5 respectively.
	326line_id=N	Index of backup SIP server 1	Dropdown list	1, 2, 3, 4, and 5 correspond to SIP servers 1–5 respectively.
	327line_id=N	Index of backup SIP server 2	Dropdown list	1, 2, 3, 4, and 5 correspond to SIP servers 1–5 respectively.
	323line_id=N	RTP encryption	Dropdown list	0-None/1-RTP/2-RTP Header/3-RTP Body
	324line_id=N	Encryption method	Dropdown list	0-None/21-TLS/2-TCP Not Encrypted/3-TCP Encrypted/ 6-UDP Not Encrypted/7-UDP Encrypted/ 8-Using Keyword/9-Using Keyword2 11/Encrypt 14
	325line_id=N	Encryption key	Input box	
Advance---System	ID	Configuration	Controls	Data Value
	4	Min. UDP port	Input box	
	5	Min. RTP port	Input box	
	130	IP_TOS	Input box	
	131	RTP proxy	Radio button	0-Not forward/1-Forward
	132	RTP disconnect timeout	Input box	
	301	Maximum registration period	Input box	
	133	NAT traversal	Radio button	on/off
	298	NAT IP address	Input box	
	201	Heartbeat	on-ON/off-OFF	
	202	Heartbeat timer	Input box	
TR069	275	Server	Input box	
	278	Username	Input box	
	279	Password	Input box	

	276	Provisioning code	Input box	
	285	Model name	Input box	
	281	Periodic inform interval	Input box	
	282	Connection request URL	Input box	
	283	Connection request username	Input box	
	284	Connection request password	Input box	
Advance---SSL Certificate Management	ID	Configuration	Controls	Data Value
SIP TLS encryption certificates	290	Phrase password	Input box	
	291	Root certificate filename	Input box	
	292	User certificate filename (ETH1)	Input box	
	293	User key filename (ETH1)	Input box	
	294	User certificate filename (ETH2)	Input box	
	295	User key filename (ETH2)	Input box	
	296	User certificate filename (ETH3)	Input box	
	297	User key filename (ETH3)	Input box	
	340	User certificate filename (ETH4)	Input box	
	341	User key filename (ETH4)	Input box	
Advance---Security management	ID	Configuration	Controls	Data Value
Telnet service	27	Telnet service	Radio button	off/on
SSH service	342	SSH service	Radio button	0: disabled; 1: enabled

Telnet/SSH password	308	New password	Input box	
Web server	305	Port	Input box	
Access control	157	Access control	Input box	Note: The access control rules are separated by “ ”.
Advance---White list	ID	Configuration	Controls	Data Value
Web management/Telnet	307	On	Check box	0: Both the Web whitelist and the Telnet whitelist are disabled. 1: Only the Web whitelist is enabled. 2: Only the Telnet whitelist is enabled. 3: Both the Web and Telnet whitelists are enabled.
	306 line_id=N (N: 1~30)	Allows access to the address	Input box	1. A value is displayed: It indicates that whitelist entry N is added or modified. 2. No value is displayed: It indicates that whitelist entry N is deleted.
Advance---Static route table	ID	Configuration	Controls	Data Value
Static route table	339 line_id=N (N: 1~30)	Static route table	Input box	1. A value is displayed: Static routing rule N is added or modified. 2. No value is displayed: It indicates that static routing rule N is deleted.
Logs--- Managing log	ID	Configuration	Controls	Data Value
	139	System log server	Input box	
	141	Debug log server	Input box	
	129	Debug log level	Dropdown list	1-System information/3-DSP instructs/4-DSP event/5-Call message 6-RTP event/8-Registration message
Log download management	348	Single debug log storage	Dropdown list	5/10/15/20/25/30 indicates 5M/10M/15M/20M/25M/30M respectively
	10	Download debug log	Dropdown list	1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20
	5	Download other logs	Button	
Logs--- Call message	ID	Configuration	Controls	Data Value
	1	Call message	Menu	
	5	Clear	Button	
Logs--- System				

startup				
	3	System startup	Menu	
Tools---Change password				
Administrator password	51	New password	Input box	Displayed as implicit text.
Operator password	50	New password	Input box	Displayed as implicit text.
Tools---Restore factory settings				
	No ID	Restore factory settings	Button	Items 5 and 6 are CONFIG DEFAULT.
Tools---Export data				
	No ID	Download	Button	Items 5 and 6 are CONFIG DOWN.
Tools---Import data				
	No ID			No operation entry is kept.
Tools---Upgrade	ID	Configuration	Controls	Data Value
	No ID			No operation entry is kept.
Tools---Restart				
	No ID	Restart	Button	Items 5 and 6 are RESTART SYS