Content

Chapter 1 SMS Function

1.1 Introduction to SMS

People use SMS (short message service) to transmit the information; it is simple, rapid and convenient. For the syslog in the network device running, we can inform the administrator by SMS. The administrator can view the running status of the device any time any where, and find the problems, solve the problems to cut loss.

Besides the syslog, other important messages can be also sent to the network administrator by SMS. This function provides the interface for sending SMS on AC, any message can be sent to the administrator by SMS through this interface.

1.2 SMS Configuration

The basic configuration task list of sms on AC is as below:

1. Enable sms function
2. Create the receiver rule and configure it
3. Configure the parameters of sms server
4. Show the configuration of sms

1. Enable/disable sms function

Command	Explanation
Global Mode	
sms **no sms**	Enter into the SMS configuration mode and enable the SMS function in global. The no command disables it.

2. Create/delete the receiver rule and configure it

Command	Explanation
SMS Configuration Mode	
receiver rule <rule-id> **no receiver rule <rule-id>**	Create the SMS receiver rule and enter into the SMS receiver rule mode. The no command deletes it.
SMS Receiver Rule Mode	
receiver description <desc> **no receiver description**	Configure the description information for the current receiver rule. The no command

	recovers it to be default configuration of empty.
receiver <receiver-name> mobile-phone <phone-number> **no receiver <receiver-name> mobile-phone <phone-number>**	Add the receiver into the current receiver rule, the no command deletes it.
receiver severity [critical| warnings| informational |dubugging] **no receiver severity**	Configure the severity of the SMS receiver rule. Only the messages with the higher severity than the configured severity or same with it can be sent to the receiver. The no command recovers it to be default configuration of critical.
receiver time-range from <start-time> to <end-time> [monday| tuesday| wednesday| thursday| friday| saturday| sunday| weekend| weekday| everyday] **no receiver time-range [monday| tuesday| wednesday| thursday| friday| saturday| sunday| weekend| weekday| everyday]**	This command is used to configure the internal of receiving message for the receiver in the current rule. AC will not send the short message to the receiver out of this internal. The no command recovers it to be default configuration.

3. Configure the parameters of sms server

Command	Explanation
SMS Configuration Mode	
sms server ipv4 <ipaddr> **no sms server**	Configure or update the address of the sms server. The no command deletes the configuration.
sms server authentication username <username> password <password> **no sms server authentication**	Configure the authentication username and password for the sms server. The no command recovers it to be default configuration of empty.

4. Show the configuration of sms

Command	Explanation
Admin Mode	
show sms status	Show the configurations of sms including sms status, server address, port number, server connection status, server

	authentication name and password.
show sms receiver rule [<rule-id>] status	Show the configurations of sms receiver rule.

1.3 SMS Configuration Example

Typical case:

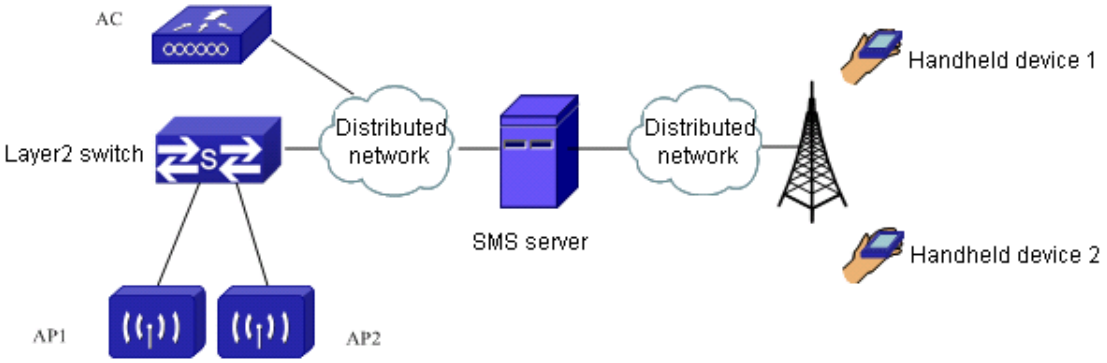

Fig 1-1 sms typical case

The sms application on AC is shown as above. AP1 and AP2 are connected to the network through the layer2 switch, and they provide accessing service for the client. There is also a sms server which is responsible for sending the short messages.

If AC finds the unusual event in the network such as AP losts the connection, it can send the short message to the administrator through the sms server. The administrator can view the received warning message through the handheld device in first time and know the usual event, handle with it to cut loss.

The configuration is as below:

Parameters of sms server:

sms server type: short message platform

sms server address: 192.168.1.200

Authentication user name: test

Authentication password: 123

Requests for sending short message:

A. The general staff (admin 18000000000) should monitor the network status all day, pay attention to the network events with the severity of warning or above it, and handle with the serious network events.

B. The department manager (admin1 18888888888) only pays attention to the network events with the severity of critical or above it, and only receives the short messages from 8:00 am to 11:00 pm.

The configuration of AC sms is as below (other configurations are shown in "Wireless Function Configuration"):

Enable the sms function and enter into the sms configuration mode.
AC(config)#sms

Configure the sms server address as 192.168.1.200
AC(config-sms)#sms server ipv4 192.168.1.200

Configure the sms server authentication parameters: user name is text, password is 123.
AC(config-sms)# sms server authentication username test password 123

Configure a receiver rule and the receiver in this rule monitors the network events with the severity of warning or above it all day.
AC(config-sms)#receiver rule 1

Configure the description information of this rule: general staff - any time receive warnning sms (the general staff should receive the short messages of the events with the severity of warning or above it any time)
AC(config-sms-rule)#receiver description general staff - any time receive warnning sms

Configure the receiver address in this rule as admin 18000000000.
AC(config-sms-rule)# receiver name admin mobile-phone 18000000000

Configure the severity of the event that the receiver in this rule pays attention to.
AC(config-sms-rule)#receiver severity warnings

The internal of receiving the short message requires no configuration; the default configuration is all day.

The rule is configured completely, exit the receiver rule mode.
AC(config-sms-rule)#exit

Configure another receiver rule and the receiver only pays attention to the network events with the severity of critical or above it, the receiver will not receive the short messages at break time.
AC(config-sms)#receiver rule 2

Configure the description information of this rule: department manager - working time

receive critical sms (the department manager receives the short messages of the events with the severity of critical or above it at work time.)
AC(config-sms-rule)#receiver description department manager - working time receive critical sms

Configure the receiver in this rule as admin1 18888888888
AC(config-sms-rule)# receiver name admin1 mobile-phone 18888888888

Configure the severity of the event that the receiver in this rule pays attention to.
AC(config-sms-rule)#receiver severity critical

Configure the internal of receiving the short message.
AC(config-sms-rule)#receiver time-range from 8:00 to 23:00 everyday

The configuration is completed.

1.4 SMS Troubleshooting

In using, if the short message sending cannot be effective, please check the following steps:

- ☞ Check if the phone number of the sms receiver is correct.
- ☞ Check if the time of the sms receiver is configured correctly.
- ☞ Check if the severity of the sms receiver is configured correctly.
- ☞ Check if the address of the sms server on AC is same with the server configuration.
- ☞ If the above configurations are correct, the short message sending is failed, please check if the AC router is configured correctly for sms server.