

Switch Reset and Recovery System Configuration Guide

Models: N5860 Series; N8560 Series; NC8200 Series; NC8400 Series

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***If you forget the device password, but want to restore the device to the factory settings, you can refer to the "password recovery" operation, enter the operating mode and restore the factory settings as follows.**

1. Restore factory settings

When you can enter the device operating mode normally:

1.1 Enter privileged mode

```
S5860>enable ----->Enter privileged mode
```

1.2 View the current file list of the device flash

```
S5860#dir ----->View the current flash file list
```

Directory of flash:/

| Number | Properties | Size | Time | Name |
|--------|------------|------|--------------------------|-------------------------|
| 1 | drw- | 288B | Wed Mar 4 19:36:50 2020 | at |
| 2 | drwx | 160B | Wed Mar 4 19:36:45 2020 | dev |
| 3 | drwx | 160B | Wed Mar 4 19:36:36 2020 | rep |
| 4 | drwx | 224B | Wed Mar 4 19:36:36 2020 | var |
| 5 | drwx | 160B | Wed Mar 4 19:36:46 2020 | addr |
| 6 | -rw- | 0B | Wed Mar 4 19:36:51 2020 | msg_rtp_lvl2.txt |
| 7 | -rw- | 0B | Wed Mar 4 19:39:15 2020 | msg_rtp_lvl3.txt |
| 8 | -rw- | 0B | Wed Mar 4 19:39:01 2020 | ssc_fp_appmng_debug.txt |
| 9 | -rwx | 82B | Mon Jul 13 17:16:43 2020 | config_vsu.dat |
| 10 | -rw- | 1.7k | Mon Jul 13 17:16:44 2020 | config.text |
| 11 | -rw- | 0B | Wed Mar 4 19:36:55 2020 | ss_ds_debug.txt |
| 12 | -rwx | 21B | Mon Jul 13 17:16:43 2020 | syslog_rfc5424_flag.txt |
| 13 | -rwx | 620B | Wed Mar 4 19:36:47 2020 | rsa_private.bin |
| 14 | -rwx | 616B | Wed Mar 4 19:36:44 2020 | rsa1_private.bin |
| 15 | -rw- | 0B | Wed Mar 4 19:36:50 2020 | ss_comm.txt |
| 16 | drwx | 160B | Wed Mar 4 19:36:46 2020 | upgrade |
| 17 | drwx | 224B | Wed Mar 4 19:36:46 2020 | unify_manage |
| 18 | drwx | 312B | Tue Jul 7 11:07:22 2020 | syslog |
| 19 | -rw- | 0B | Wed Mar 4 19:38:48 2020 | policy_adjust_debug.txt |
| 20 | drw- | 224B | Wed Mar 4 19:38:48 2020 | arpswitch |
| 21 | -rw- | 0B | Wed Mar 4 19:36:55 2020 | ss_ds_timeout.txt |

12 files, 9 directories

6,103,040 bytes data total (5,951,488 bytes free)

266,338,304 bytes flash total (5,951,488 bytes free)

1.3 Delete the configuration file "config.text"

```
S5860#delete config.text ----->Delete the configuration file "config.text"
```

Do you want to delete [flash:/config.text]? [Y/N]:y

File "config.text" is deleted.

1.4 Restart the device. After restarting, the device will return to factory settings:

```
S5860#reload ----->Restart the switch
```

Reload system?(Y/N) y

Press RETURN to get started

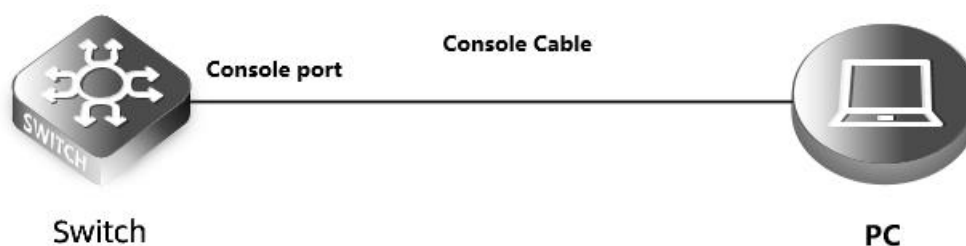
2. Password Recovery

If the administrator forgets the login password and cannot enter the configuration mode for configuration, then you need to use the configuration line to enter the CTRL layer for password recovery.

*Notes on password recovery

- When doing password recovery, please prepare the console line first.
- Password recovery is an operation that is completed when you enter the CTRL layer when you restart the device. You need to disconnect the network to proceed. Please perform password recovery when it is convenient to disconnect the network.
- Please strictly follow the operation steps, improper operation will cause configuration loss.
- The password recovery of the switch is the password recovery of saving the configuration mode.
- After entering the CLI command line interface, if you do not enter any keys within 10 minutes, you still need to enter the password after the timeout. Or the password has not been changed after input, the device will use the previous password after the next restart.

2.1 Network topology



2.2 Configuration steps

2.2.1 Connect the console port of the device with a configuration cable.

2.2.2 Use HyperTerminal to configure network devices

1) Manually power off and restart the device

2) When the Ctrl+C prompt appears, press the CTRL and C keys simultaneously on the keyboard to enter the bootloader

menu

```
Boot 1.2.28-0c4a1bf (Feb 09 2017 - 17:14:53)
```

```
I2C: ready
```

```
DRAM: 1024 MiB
```

```
NAND: 1024 MiB
```

```
In: serial
```

```
Out: serial
```

```
Err: serial
```

```
Unlocking L2 Cache ...Done
```

```
arm_clk=1000MHz, axi_clk=400MHz, apb_clk=100MHz, arm_periph_clk=500MHz
```

```
SETMAC: Setmac operation was performed at 2020-02-28 15:24:58 (version: 11.0)
```

Press Ctrl+C to enter Boot Menu

Net: eth-0

Entering simple UI...

=====
BootLoader Menu("Ctrl+Z" to upper level) =====

TOP menu items.

- 0. Tftp utilities.
- 1. XModem utilities.
- 2. Run main.
- 3. SetMac utilities.
- 4. Scattered utilities.
- 5. Set Module Serial

3) After entering the bootloader menu, enter the Ctrl and Q keys simultaneously to enter the uboot command line

4) In the uboot command line state, enter the command main_config_password_clear.

=====
BootLoader Menu("Ctrl+Z" to upper level) =====

TOP menu items.

- 0. Tftp utilities.
- 1. XModem utilities.
- 2. Run main.
- 3. SetMac utilities.
- 4. Scattered utilities.
- 5. Set Module Serial

Press a key to run the command:

----->Enter the Ctrl key and Q key to enter the uboot command line

bootloader#main_config_password_clear

5) The device will automatically run the main program and print the log

Press a key to run the command:

bootloader#main_config_password_clear

Creating 1 MTD partitions on "nand0":

0x000001000000-0x000002e00000 : "mtd=6"

UBI: attaching mtd1 to ubi0

UBI: physical eraseblock size: 131072 bytes (128 KiB)

UBI: logical eraseblock size: 126976 bytes

UBI: smallest flash I/O unit: 2048

UBI: VID header offset: 2048 (aligned 2048)

UBI: data offset: 4096

UBI: attached mtd1 to ubi0

UBI: MTD device name: "mtd=6"

UBI: MTD device size: 30 MiB

UBI: number of good PEBs: 240

```

UBI: number of bad PEBs:      0
UBI: max. allowed volumes:   128
UBI: wear-leveling threshold: 4096
UBI: number of internal volumes: 1
UBI: number of user volumes:  1
UBI: available PEBs:         19
UBI: total number of reserved PEBs: 221
UBI: number of PEBs reserved for bad PEB handling: 2
UBI: max/mean erase counter: 2/0
UBIFS: recovery needed
UBIFS: recovery deferred
UBIFS: mounted UBI device 0, volume 0, name "kernel"
UBIFS: mounted read-only
UBIFS: file system size:    26030080 bytes (25420 KiB, 24 MiB, 205 LEBs)
UBIFS: journal size:       3682304 bytes (3596 KiB, 3 MiB, 29 LEBs)
UBIFS: media format:       w4/r0 (latest is w4/r0)
UBIFS: default compressor: LZO
UBIFS: reserved for root:  0 bytes (0 KiB)
Unmounting UBIFS volume kernel!
  Uncompressing Kernel Image ... OK
  Loading Device Tree to 823fc000, end 823ff745 ... OK

Starting kernel ...
  
```

6) You can enter the configuration CLI command line interface without a password at this time.

```

S5860>enable
S5860#configure
  
```

NOTE: After entering the CLI command line interface, if there is no button, the password is required when entering again. The default timeout is 10min. Please change the password in time before timeout.

7) Change password

2.3 Functional Verification

Log in to the switch again, and log in with the new user name and password to confirm that the login is successful.



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