

RELEASE NOTES FOR S3900 SYSTEM

Content

| | |
|--|----|
| Notice | 3 |
| 1. Introduction | 3 |
| 2. Current Release | 3 |
| V1.6.9..... | 3 |
| S3900-24T4S-MR-V0169.bin..... | 3 |
| S3900-48T4S-MR-V0169.bin..... | 3 |
| S3900-24F4S-MR-V0169.bin..... | 3 |
| V1.6.7..... | 3 |
| S3900-24T4S-MR-V0167.bin..... | 3 |
| S3900-48T4S-MR-V0167.bin..... | 3 |
| S3900-24F4S-MR-V0167.bin..... | 3 |
| V1.6.4..... | 3 |
| S3900-24T4S-MR-V0164.bin..... | 3 |
| S3900-48T4S-MR-V0164.bin..... | 3 |
| S3900-24F4S-MR-V0164.bin..... | 3 |
| V1.6.2..... | 3 |
| S3900-24T4S-MR-V0162.bin..... | 3 |
| S3900-48T4S-MR-V0162.bin..... | 3 |
| 3. New Changes | 4 |
| 3.1 V1.6.9..... | 4 |
| New Functions..... | 4 |
| Existing Functions Optimization..... | 4 |
| 1) CLI Optimization..... | 4 |
| 2) Web Optimization..... | 8 |
| 3) SSH Optimization..... | 8 |
| 4) Bug Fixes..... | 8 |
| 3.2 V1.6.7..... | 8 |
| 1) Bug Fixes..... | 8 |
| 3.3 V1.6.4..... | 9 |
| 1) CLI Optimization..... | 9 |
| 2) Web Modification..... | 9 |
| 3) Trunk Group Optimization..... | 9 |
| 4) Fan Speed Control Optimization..... | 9 |
| 5) Bug Fixes..... | 9 |
| 3.4 V1.6.2..... | 10 |
| 1) CLI Optimization..... | 10 |
| 2) Web Modification..... | 10 |
| 3) Company OID Node Modification..... | 10 |
| 4) Features Modification..... | 10 |
| 5) Bug Fixes..... | 11 |



Notice

Due to command changes, upgrading will result in the loss of the modified command. Please pay attention to save the configuration and modify it according to the changed command.

1. Introduction

2. Current Release

V1.6.9

[S3900-24T4S-MR-V0169.bin](#)

[S3900-48T4S-MR-V0169.bin](#)

[S3900-24F4S-MR-V0169.bin](#)

Runtime: V0.1.6.9

Loader: V1.4

V1.6.7

[S3900-24T4S-MR-V0167.bin](#)

[S3900-48T4S-MR-V0167.bin](#)

[S3900-24F4S-MR-V0167.bin](#)

Runtime: V0.1.6.7

Loader: V1.1

V1.6.4

[S3900-24T4S-MR-V0164.bin](#)

[S3900-48T4S-MR-V0164.bin](#)

[S3900-24F4S-MR-V0164.bin](#)

Runtime: V0.1.6.4

Loader: V1.1

V1.6.2

[S3900-24T4S-MR-V0162.bin](#)

[S3900-48T4S-MR-V0162.bin](#)

Runtime: V0.1.6.2

Loader: V1.1

Note: MR: master runtime

3. New Changes

3.1 V1.6.9

New Functions

- The S3900-24F4S switch is compatible with 100M optical transceiver module
- NTP/SNTP support domain name configuration on CLI
- Image version is upgraded, and the configuration files upgrade automatically
- IP routing isolation between Craft port and vlan port
- Add Settings for console/vty on CLI
- Formatting file system under u-boot is supported

Existing Functions Optimization

1) CLI Optimization

a. The partial command and behavior of the VLAN are changed to Cisco mode:

There are three different modes: access, trunk, hybrid.

In Access mode:

pvid: switchport access vlan

In Trunk mode:

pvid: switchport trunk native vlan

tagged vlan: switchport trunk allowed vlan add/remove

In Hybrid mode:

pvid: switchport hybrid pvid

vlan: switchport hybrid allowed vlan add/remove [tagged/untagged]

b. The STP CLI command is modified in cisco format.

The original "host name" is changed to "system-name", and "prompt" is changed to "host name".

Content formats of some show command are adjusted.

Running configure commands of static trunk are complete.

SFP compatibility is optimized.

When setting port mode, error messages are optimized.

c. Add and set console and vty commands

| Type | Original Format | Original Location | New format | New Location |
|---------------|--|--------------------|--|----------------|
| Modify | switchport access vlan | swith(config-if) | switchport access vlan (access mode only) | |
| Modify | switchport allowed vlan add | swith(config-if) | switchport trunk allowed vlan add/remove xxx | |
| Modify | switchport access vlan | swith(config-if) | switchport trunk native vlan (trunk mode only) | |
| Modify | switchport allowed vlan add | swith(config-if) | switchport trunk allowed vlan all | |
| Modify | switchport allowed vlan add | swith(config-if) | switchport hybrid allowed vlan add xxx tagged untagged | |
| Modify | switchport access vlan | swith(config-if) | switchport hybrid pvid (hybrid mode only) | |
| Modify | switchport allowed vlan remove | switch(config) | switchport hybrid allowed vlan remove (hybrid mode only) | switch(config) |
| Modify | switchport allowed vlan remove | switch(config) | switchport trunk allowed vlan remove (trunk mode only) | switch(config) |
| Modify | no switchport access vlan | swith(config-if) | no switchport access vlan (access mode only) | |
| Modify | no switchport allowed vlan | swith(config-if) | no switchport trunk allowed vlan | |
| Modify | no switchport access vlan | swith(config-if) | no switchport trunk native vlan (trunk mode only) | |
| Modify | no switchport allowed vlan | swith(config-if) | no switchport hybrid allowed vlan | |
| Modify | no switchport access vlan | swith(config-if) | no switchport hybrid pvid (hybrid mode only) | |
| Modify | spanning-tree edge-port [auto] | swith(config-if) | spanning-tree portfast [auto] | |
| Modify | spanning-tree system-bpdu-flooding to-all | switch(config) | spanning-tree bpdu flooding | |
| Modify | spanning-tree system-bpdu-flooding to-vlan | switch(config) | spanning-tree bpdu filtering | |
| Modify | spanning-tree port-bpdu-flooding | switch (config-if) | spanning-tree bpdu | |
| | no spanning-tree port-bpdu-flooding | switch(config-if) | no spanning-tree bpdu | |

| Type | Original Format | Original Location | New format | New Location |
|---------------|--|-----------------------------|--|-----------------------------|
| Modify | spanning-tree root-guard | switch(config-if) | spanning-tree guard root | |
| Modify | max-hops hop-count | switch(config-mstp) | spanning-tree mst max-hops hop-count | switch(config) |
| Modify | show spanning brief | | show spanning active detail | |
| Modify | show spanning {ethernet <1-1>/<1-x> port-channel <1-6>} | | show spanning-tree interface {ethernet <1-1> port-channel <1-6>} mst <0-4094> | |
| Modify | show spanning-tree mst <0-4094> {ethernet <1-1>/<1-x> port-channel <1-6>} | | show spanning-tree mst <0-4094> | |
| Delete | ip ssh server-key size | switch(config) | | |
| Add | | switch(config-line-console) | databits | switch(config-line-console) |
| Add | | switch(config-line-console) | exec-timeout | switch(config-line-console) |
| Add | | switch(config-line-console) | help | switch(config-line-console) |
| Add | | switch(config-line-console) | login | switch(config-line-console) |
| Add | | switch(config-line-console) | parity | switch(config-line-console) |
| Add | | switch(config-line-console) | password | switch(config-line-console) |
| Add | | switch(config-line-console) | password-thresh | switch(config-line-console) |
| Add | | switch(config-line-console) | show | switch(config-line-console) |
| Add | | switch(config-line-console) | silent-time | switch(config-line-console) |
| Add | | switch(config-line-console) | speed | switch(config-line-console) |
| Add | | switch(config-line-console) | stopbits | switch(config-line-console) |
| Add | | switch(config-line-console) | timeout | switch(config-line-console) |
| Add | | switch(config-line-console) | no databits | switch(config-line-console) |
| Add | | switch(config-line-console) | no exec-timeout | switch(config-line-console) |
| Add | | switch(config-line-console) | no login | switch(config-line-console) |
| Add | | switch(config-line-console) | no parity | switch(config-line-console) |
| Add | | switch(config-line-console) | no password | switch(config-line-console) |
| Add | | switch(config-line-console) | no password-thresh | switch(config-line-console) |
| Add | | switch(config-line-console) | no silent-time | switch(config-line-console) |
| Add | | switch(config-line-console) | no speed | switch(config-line-console) |
| Add | | switch(config-line-console) | no stopbits | switch(config-line-console) |
| Add | | switch(config-line-console) | no timeout | switch(config-line-console) |
| Add | | switch(config-line-vty) | timeout | switch(config-line-vty) |
| Add | | switch(config-line-vty) | no exec-timeout | switch(config-line-vty) |
| Add | | switch(config-line-vty) | no login | switch(config-line-vty) |
| Add | | switch(config-line-vty) | no password | switch(config-line-vty) |
| Add | | switch(config-line-vty) | no password-thresh | switch(config-line-vty) |
| Add | | switch(config-line-vty) | no silent-time | switch(config-line-vty) |
| Add | | switch(config-line-vty) | no timeout | switch(config-line-vty) |

| Type | Original Format | Original Location | New format | New Location |
|---------------|--------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| Delete | aaa accounting command ... | switch(config) | | switch(config) |
| | aaa accounting dot1x | | aaa accounting dot1x | |
| Modify | default/WORD start-stop group ... | switch(config) | default/WORD start-stop list ... | switch(config) |
| | aaa accounting exec | | aaa accounting login | |
| Modify | default/WORD start-stop group ... | switch(config) | default/WORD start-stop list ... | switch(config) |
| | aaa authorization exec | | aaa authorization login | |
| Modify | default/WORD group ... | switch(config) | default/WORD list ... | switch(config) |
| Modify | aaa group server ... | switch(config) | aaa list server ... | switch(config) |
| Delete | no aaa accounting command | switch(config) | | switch(config) |
| Modify | no aaa accounting exec | switch(config) | no aaa accounting login | switch(config) |
| Modify | no aaa authorization exec | switch(config) | no aaa authorization login | switch(config) |
| Modify | no aaa group | switch(config) | no aaa list | switch(config) |
| Delete | accounting commad | switch(config-line_console) | | switch(config-line_console) |
| Modify | accounting exec | switch(config-line_console) | accounting login | switch(config-line_console) |
| Modify | authorization exec | switch(config-line_console) | authorization login | switch(config-line_console) |
| Delete | no accounting command | switch(config-line_console) | | switch(config-line_console) |
| Modify | no accounting exec | switch(config-line_console) | no accounting login | switch(config-line_console) |
| Modify | no authorization exec | switch(config-line_console) | no authorization login | switch(config-line_console) |
| Delete | accounting commad | switch(config-line_vty) | | switch(config-line_vty) |
| Modify | accounting exec | switch(config-line_vty) | accounting login | switch(config-line_vty) |
| Modify | authorization exec | switch(config-line_vty) | authorization login | switch(config-line_vty) |
| Delete | no accounting command | switch(config-line_vty) | | switch(config-line_vty) |
| Modify | no accounting exec | switch(config-line_vty) | no accounting login | switch(config-line_vty) |
| Modify | no authorization exec | switch(config-line_vty) | no authorization login | switch(config-line_vty) |
| Delete | show accounting command | switch | | switch |
| Modify | show accounting exec | switch | show accounting login | switch |
| Modify | bridge-ext gvrp | switch(config) | gvrp enable | switch(config) |
| Delete | auto-traffic-control | switch | | |
| Delete | auto-traffic-control | switch(config-if) | | |

2) Web Optimization

- a. Configuration optimization
- b. Data display optimization
- c. Web frame construction optimization

3) SSH Optimization

SSH, the maximum length of secret key is 1024.

4) Bug Fixes

- a. The web NTP project cannot be deleted.

- b. LACP of S3900-24F4S equipment, firstly one optical port is added to LACP, then multiple electronic ports are added to the same LACP, and the electronic ports continuously linkup and linkdown.
- c. The byte order of IP address in the message is wrong.
- d. Computer crashed while telnet executes time-zone command.
- e. Internet explorer compatibility problem.
- f. In stacking mode, port error while setting 802.1x attribute via CLI.
- g. In stacking mode, port error while setting netaccess via CLI.
- h. In stacking mode, RMON does not create default configuration for slave devices.
- i. RMON creates the default configuration, which cannot be created on the port-channel.
- j. The packet length problem of LACP.
- k. CLI command tree error in AAA mode.
- l. Each time the SSH reboots, it will regenerate the host key.
- m. Some vlans are not effective due to big endian and little endian.
- n. The 1G module can not link up on port 49 and 50 of S3900-48T4S.
- o. Info error of Show CPU.
- p. Access port should not allow to add vlan.
- q. Error messages in hybrid mode while setting vlan.
- r. Error while setting the maximum QinQ entries.
- s. OUI inspection of voice vlan has bug.
- t. The maximum entries of vlan translate has bug.
- u. Web page configuration OAM problem.
- v. Check setting of ACL entry has bug.

3.2 V1.6.7

1) Bug Fixes

- a. Fix bug: Can not enable/disable event log remote host
- b. Fix bug: Console port will has no response after switch runs some days.

3.3 V1.6.4

1) CLI Optimization

| Type | Original Format | Original Location | New format | New Location |
|---------------|--------------------|-------------------|-------------------------------|-------------------|
| Modify | Show interfaces | | Show interfaces configuration | |
| | switchport xxx | | xxx | |
| Add | | | Channel-group xxx mode on | Switch(config-if) |
| Add | | | Channel-group xxx mode auto | Switch(config-if) |
| Modify | Show lacp internal | Switch | Show lacp | Switch |
| Delete | Show lacp | Switch | | |
| | neighbor | | | |
| Delete | Show lacp sysid | Switch | | |
| Delete | Lacp | Switch(config-if) | | |

2) Web Modification

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Trunk group configuration page improvement.

3) Trunk Group Optimization

a. The configuration method of static trunk group as follows:

Example: Add the eth 1/1 to group 1

```
Interface port-channel 1
```

```
Interface eth 1/1
```

```
Channel-group 1 mode on
```

b. The configuration method of the LACP as follows:

In the port configuration mode, create the group and add the ports to the group, which is completed by one command.

Example: In the eth 1/3 mode, create the lacp group 2, add the eth 1/3 to group 2

```
Interface eth 1/3
```

```
Channel-group 2 mode auto
```

4) Fan Speed Control Optimization

5) Bug Fixes

When Layer 3 forwarding of the first member in the trunk group fails, the traffic is limited.

3.4 V1.6.2

1) CLI Optimization

| Type | Original Format | Original Location | New format | New Location |
|---------------|--------------------------------|--------------------|---|--------------------|
| Modify | Console# | | Switch# | |
| Modify | Config | Switch# | Config terminal | Switch# |
| Modify | switchport native vlan | Switch(config-if)# | switchport access vlan | Switch(config-if)# |
| Modify | show interfaces transceiver | Switch# | Show transceiver ethernet x/x detail | Switch# |
| Add | | | ip ssh server enable | Switch(config)# |
| Modify | ip http server | Switch(config)# | server http enable | Switch(config)# |
| Modify | ip http secure-server | Switch(config)# | server https enable | Switch(config)# |
| Modify | ip telnet server | Switch(config) | service telnet enable | Switch(config) |
| Modify | username gyt access-level | Switch(config)# | username uyt privilege | Switch(config)# |
| Modify | Show vlan | Switch# | Show vlan all | Switch# |
| Modify | Show ip inerface | Switch# | Show ip interface brief | Switch# |
| Modify | Ip address xx.xx.xx.xx/xxx | Switch(config-if)# | Ip add xx.xx.xx.xx/xxx | Switch(config-if)# |
| Modify | access-list arp | Switch (config) # | arp access-list | Switch(config)# |
| Modify | access-list ip | Switch (config) # | ip access-list | Switch(config)# |
| Modify | access-list ipv6 | Switch (config) # | ipv6 access-list | Switch(config)# |
| Modify | access-list mac | Switch (config) # | mac access-list | Switch(config)# |
| Modify | Ethernet cfm | Switch# | cfm | Switch(config)# |
| Modify | Process cpu | Switch(config)# | Cpu | Switch(config)# |
| Modify | efm | Switch# | efm | Switch(config)# |
| Modify | erps | Switch# | erps | Switch(config)# |
| Modify | Sflow | switch# | Sflow | Switch(config)# |
| Modify | ip access-group | Switch(config-if) | ip service-acl | Switch(config-if) |
| Modify | ipv6 access-group | Switch(config-if) | ipv6 service-acl | Switch(config-if) |
| Modify | mac access-group | Switch(config-if) | mac service-acl | Switch(config-if) |
| Modify | clear ethernet cfm | Switch# | clear cfm | Switch# |
| Modify | switch stacking | Switch# | stacking | Switch(config)# |

2) Web Modification

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3) Company OID Node Modification

51134 changed to 52642.2

4) Features Modification

a. 10G SFP+ port supports manual/auto speed negotiation(10G/1G).

b. The default management IP address is changed to 192.168.1.1.

c. SSH enable mode is changed to directly execute IP SSH server enable.

5) Bug Fixes

a. The ARP table of the slave device is unstable in the stacking mode.

b. Fan alarms falsely.