

## Version Info

**Firmware for SG5428XF(UN) 1.0 and 1.6. Recommended Omada Controller V6.0.0.**

### SHA-256

**9d10bd4178f32721e02dec85035529355a4112ff10ff8ddf09706763fe9189**

### SHA-512

**04f7342e78905f2ade8cba48addcdf0c04c769c8377be116fa457e24f86084818665e9  
7b016250932192761a16aefccc5c334fc16e3df30dc0782c9bd88f47af**

## New features

1. Add support for cloud firmware upgrade in Standalone mode.
2. Add support for adoption by Controller clusters.
3. Add support for manually enabling or disabling switch-to-Controller communication packets via CLI.
4. Add support for more DHCP Option fields in Controller mode.
5. Add support for ONVIF in Controller mode to enable IPC identification.
6. Add support for cable test in Controller mode for troubleshooting purposes.
7. Add display of DDM information in Controller mode, facilitating troubleshooting of uplink optical ports on access-layer PoE switches.
8. Add support for IGMP and MLD configuration adapted for Omada Controller v6.
9. Add support for displaying the routing table and OSPF neighbor table in Controller mode for faster lookup and troubleshooting.
10. Expand the maximum number of VLAN interfaces to 1024 in Controller mode.
11. Add support for QoS for VLAN and QoS Rule features in Controller mode.
12. Add support for configuring Management VLAN in Standalone mode.
13. Add support for ACL blacklist/whitelist mode switching.
14. Add support for VRRP.
15. After disconnecting from Controller management, the device can regain access to configuration mode in Controller mode.

## Enhancements

1. Optimize loop prevention by enabling Spanning Tree Protocol by default, improving network robustness and usability.

2. Optimize the VLAN brief display to show tagged and untagged ports.
3. Optimize port utilization statistics, allowing show system-info interface to display multiple or all interfaces.
4. Optimize log output to display port descriptions.
5. Optimize the WEB interface to display total bandwidth for LAGs.
6. Optimize show interface status in CLI by adding blocked state display.
7. Optimize the performance of DHCP Relay.

#### Bug fixed

1. Fixed an issue where the device could fail to correctly connect to the cloud after the hostname was modified.
2. Fixed an issue where MAC address flapping might occur when LLDP is enabled on STP-blocked ports.