Release Note

Important Notice:

1. The certificate keyword in the RADIUS configuration command has been changed to ca-profile-id. The corresponding configuration will be lost after downgrading the firmware, and the RadSec certificate must be re-imported.
2. To improve security, each device now randomly generates its own default HTTPS certificate and private key. If you imported an HTTPS certificate and private key on an earlier firmware version, you must upload both again after upgrading.
3. Due to security enhancements, downgrading from this firmware version to an earlier version may cause cloud authentication to fail. If cloud management or cloud-based firmware upgrade features become unavailable after a downgrade, please contact technical support.

Version Info:

1. **Firmware Version:** 6.4.4 Build 20261112 Rel.83902
2. **Applied Model:**

   a) SG3452XMPP(UN) v1.20

   b) SG3452XMPP(UN) v1.26
3. **Fully Adapted Omada Controller version:** 6.4.
4. **Fully Adapted Omada App version:** N/A.
5. For downloading any firmware version, please refer to Omada Download Center .

New Features

1. Integrated the next-generation network operating system FEP 2.0 platform, fully transitioning to a data-driven architecture to improve system stability and service reliability.
2. Added support for Dynamic SDM, enabling dynamic TCAM resource sharing to maximize resource utilization and significantly increase ACL capacity.
3. Added support for displaying ports in the Port Isolation interface according to the physical switch panel layout.
4. Added IPv6 support for Controller Ping, Traceroute, and DNS Lookup tools.
5. Added support for recording and reporting client connection events during device disconnection periods.
6. Added display of Tx/Rx optical power values in dBm on the Controller DDM page.
7. Added support for a high-strength password hashing algorithm, improving the security of password data.
8. Added support for configuring IP Group ranges in the Controller.
9. Added support for PMTUD.
10. Added support for TLS 1.3.
11. Added support for selecting the source IP interface used for communication with the RADIUS server.
12. Added support for encrypted switch configuration file export.
13. Added support for Jumbo Ping.

Enhancements

1. Optimized DHCP Server and DHCP Relay performance in high-concurrency environments.
2. Increased the maximum number of DHCP-acquired interfaces to 128.
3. Enhanced Ping and Traceroute functions to support concurrent operations from multiple UI sessions.
4. Significantly improved ARP packet processing performance.
5. Improved the usability of OUI-Based VLAN and changed the configuration mechanism from dynamic forwarding based on FDB learning to static forwarding upon configuration. When the number of entries exceeds the supported limit, entries configured earlier take priority.
6. Optimized the authentication and configuration delivery mechanisms between the device and Cloud-Based/Local Controller, enhancing credential protection and communication security.
7. Optimized the authentication mechanism when devices are initially onboarded to the cloud management platform, improving registration security.
8. Optimized Time Range configuration interaction.
9. Optimized the output of the `show controller` command to reduce ambiguity.
10. Optimized ARP detection logging.
11. Reduced the transition interval to Guest VLAN after MAC authentication failure.
12. Optimized the minimum bandwidth limit of Broadcast Storm Control to 1 kbps.
13. Increased the maximum number of LAG groups to half of the available ports.
14. Changed the default packet discard behavior of ACL deny rules from hard drop to soft drop. Certain protocol packets are no longer blocked by ACL or IMPB rules.
15. Added the harddrop action for ACL rules in CLI mode.
16. Expanded the ERPS Ring ID range to 255.
17. Enhanced VLAN name support to allow additional special characters.
18. Enhanced DHCP Filter to filter invalid DHCP packets when the device itself acts as a DHCP client.

Bug Fixed

1. Fixed an issue where the implementation of BRIDGE-MIB and Q-BRIDGE-MIB in SNMP did not comply with RFC standards.
2. Fixed an issue where the Length field was displayed incorrectly in the show cable-diagnostics interface command.
3. Fixed an issue where the total site traffic displayed on the Dashboard > Traffic page was inaccurate and unrealistically high.
4. Fixed an issue where wired client traffic increased abnormally when clients rapidly disconnected and reconnected within a LAG.
5. Fixed an issue where Controller incorrectly identified Archer AX5400 as a Dahua IPC.
6. Fixed an issue where local user authentication failed when the RADIUS server was unreachable.

Additional Information

1. SHA-256 Value:

   4a99d57f2d7bc98a8a771293a1a94787e86a20658cf59feece933b2093256279

2. SHA-512 Value:

   8b3d52a703ad86ebf2ec35d588f285dac9d0f8e968b0e7e68c6c10d572a6718652a46a3cc5476b35acff6b33ba396cd7f4d71b7a5e486430b8193f203757ae46