Release Note

Important Notice:

1. The certificate keyword in RADIUS configuration commands has been changed to ca-profile-id. Any configuration that uses it will be lost if you downgrade the firmware, so you'll need to re-import the RadSec certificates after downgrading.
2. To enhance security, the default certificate and key are now randomly generated on each device, ensuring that every device has a unique certificate and key. If you have previously imported an HTTPS certificate and key, please be aware that you will need to re-upload them after upgrading the firmware.

Version Info:

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

   a) SG3452X(UN) 1.30

   b) SG3452X(UN) 1.36

   c) SG3452X(IN) 1.38
3. **Fully Adapted Omada Controller version:** 6.4.0.
4. **Fully Adapted Omada App version:** N/A.
5. For downloading any firmware version, please refer to Omada Download Center .

New Features

1. Added support for the next-generation network operating system FEP 2.0 platform, fully transitioning to a data-driven architecture that improves system stability and single-node service reliability.
2. Added support for Dynamic SDM, which enables dynamic sharing of TCAM resources so that resource allocation no longer needs to be considered during network deployment, maximizing resource utilization and significantly increasing ACL capacity.
3. Added support for aligning the port diagram layout on the device's standalone port page with the physical port layout of the switch panel.
4. Added support for IPv6 in controller-based Ping, Traceroute, and DNS Lookup.
5. Added support for devices to record and report client connection logs generated while disconnected.
6. Added support for displaying dBm-converted values alongside Tx/Rx power readings on the controller DDM page.
7. Added support for a high-strength password hashing algorithm, improving the storage and protection mechanism for device management account passwords and enhancing the security of password data.
8. Added support for configuring IP Groups by range on the controller.
9. Added support for PMTUD (Path MTU Discovery).
10. Added support for TLS v1.3.
11. Added support for selecting which IP interface the switch uses to communicate with the RADIUS server.
12. Added support for encrypting configuration files exported from the switch.
13. Added support for Jumbo Ping.

Enhancements

1. Optimized DHCP Server/Relay performance in high-concurrency scenarios.
2. Optimized the number of interfaces that can obtain addresses via DHCP by increasing it to 128.
3. Optimized the Ping/Traceroute functions to support simultaneous operation from multiple UIs.
4. Optimized ARP packet transmission and reception performance significantly.
5. Optimized the usability of OUI-based VLAN. Configuration is now delivered statically once configured, instead of dynamically based on FDB learning. If the specification limit is exceeded, the entries configured first take effect.
6. Optimized the authentication and configuration delivery mechanism between devices and Cloud-Based/Local Controllers, strengthening credential protection during device registration and configuration, eliminating the risk of credential leakage caused by network eavesdropping or device impersonation attacks, and improving the trustworthiness and security of the communication link.
7. Optimized the authentication mechanism used when a device first connects to the cloud management platform, strengthening security throughout the device registration process.
8. Optimized the Time Range interaction.
9. Optimized the show controller output to remove ambiguity.
10. Optimized ARP Detection log records.
11. Optimized the delay before a client is moved to the Guest VLAN after MAC authentication fails by shortening it.
12. Optimized the minimum Broadcast Storm Control rate limit to 1 kbps.
13. Optimized the LAG specification to half the number of available ports.
14. Optimized the default packet-drop behavior of ACL deny rules from hard drop to soft drop; certain protocol packets are no longer blocked by ACL or IMPB.
15. Optimized ACL configuration in CLI mode by adding a hard-drop action.
16. Optimized the ERPS Ring ID range by extending it to 255.
17. Optimized VLAN naming by expanding the set of allowed special characters.
18. Optimized DHCP Filter to support filtering illegitimate DHCP packets when the device itself acts as a DHCP client.

Bug Fixed

1. Fixed an issue where the SNMP BRIDGE-MIB and Q-BRIDGE-MIB implementations did not comply with RFC standards, as reported from the field.
2. Fixed an issue of incorrect display of the Length field in show cable-diagnostics interface, as reported from the field.
3. Fixed an issue where the total site traffic shown on the Dashboard → Traffic page was incorrect and unrealistically high, as reported from the field.
4. Fixed an issue where wired client traffic spiked when a client under a LAG disconnected and reconnected in rapid succession, as reported from the field.
5. Fixed an issue where the controller identified the Archer AX5400 as a Dahua IPC, as reported from the field.
6. Fixed an issue where local user authentication did not take effect when the RADIUS server was unreachable, as reported from the field.