

Previous SWX2322P Firmware version information

V2.06.20

Vulnerability Response

- Addressed an SSH-related vulnerability (CVE-2023-48795).

Improvements

- IGMP Snooping Function Improvements
 - Added enhancements to prevent video interruption or block noise during switching.
 - When the querier receives a GSQ (Group Specific Query), it now forwards it to downstream receivers.
 - In IGMPv3 (SSM) environments, when a BLOCK_OLD_SOURCES message results in an empty source list and fast-leave is enabled, the device now immediately leaves the multicast group.
 - Changed the method for detecting a switch-connected port: from “System Capabilities” in LLDP Basic Management TLV to “Enabled Capabilities”.
- SD Card Mount Status Display
 - The show environment command now displays the Micro SD card's mount status.
- Web GUI Maintenance Menu Update
 - Removed the Web GUI page: [Administration] → [Maintenance] → [Command Execution].
- Categorized Output in the show environment
 - The show environment command now displays information grouped by category.

- L2MS Notification Enhancement
 - Enhanced L2MS to support power module-based notifications:
 - LAN map notifications & history
 - Email notifications
- Dashboard Traffic Graph Limit Update
 - Increased the upper limit of the traffic graph in the Web GUI dashboard from 10 Gbps to 100 Gbps.
- Device ID Display in the show environment
 - Added Device ID information to the show environment output.
- Automatic Dante Optimization via LLDP
 - Revised the settings applied by LLDP-based Dante optimization.

Note: This optimization applies only when all related settings are in the factory default state. Some factory default values changed in this revision; if prior revision settings were saved (e.g., password changes), Dante optimization may not apply. A cold start (factory reset) will restore applicability.
- Security Enhancements
 - The minimum password length for the username and enable password commands has been increased to 8 characters.
 - Users whose passwords are shorter than eight characters will experience:
 - Privileged users: forced to change the password on login.
 - Non-privileged users: login denied.
- Web GUI Login Screen Updates
 - Admin users with passwords shorter than eight characters will be prompted to change their password at login.

- General users with passwords shorter than eight characters will be blocked from logging in.
- Password change screens and [Administration] → [Access Control] → [User Settings] no longer allow passwords under eight characters.
- Restricted Commands in Command Execution Menu
 - Prohibited commands in Web GUI [Administration] → [Maintenance] → [Command Execution]: username, no username.
- UI and Help Documentation Improvements
 - Several UI enhancements and help document reviews were implemented.

Bug Fixes

- VLAN Selection Issue in Tag VLAN Settings
 - Solved the problem where a VLAN configured as a trunk could be incorrectly selected as a native VLAN after returning from a confirmation screen.
- Time Zone Display Inconsistency
 - Corrected the inconsistent timezone labeling in [Administration] → [System Settings] → [Time Settings].
 - Added support for time zones: GMT-4:30, GMT-3:30, GMT+3:30, GMT+4:30, GMT+5:30, GMT+5:45, GMT+6:30, GMT+9:30.
- IGMP Report Checksum Error
 - Solved the problem where extra bytes at the end of IGMP reports caused invalid packet checksums.
- Missing Commands in ProAV Profile Setup
 - Solved the problem where commands (spanning-tree bpdu-filter enable, l2ms filter enable) were not applied when configuring redundant Dante profiles.

- IGMPv3 (SSM) Decoder Stop Issue
 - Solved the problem where, in an IGMPv3 (SSM) environment with a querier present, stopping one decoder also stopped other decoders in the same multicast group.
- IPv6 Route Display After VLAN Deletion
 - Solved the problem where routes for deleted VLANs still appeared in show ipv6 route.
- VLAN State Dependency Issue
 - Solved the problem where the presence of a disabled VLAN prevented other VLANs from coming up.
- Traffic Graph Display Error
 - Solved the problem where the traffic widget on the dashboard displayed lower values than actual traffic.
- VLAN Interface Removal Reboot Issue
 - Solved the problem where, after certain operations on a VLAN interface followed by its deletion, a reboot could occur when performing:
 - SNMPv1 trap send
 - Accessing [Layer 3 Functions] → [Routing] in the Web GUI
- Solved several minor bugs

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Specification Changes

- Support for New Hardware Components

- This firmware adds support for newly introduced hardware components.

Please note: devices with these new components cannot be downgraded to firmware versions earlier than V4.02.17.

Bug Fixes

- SFP Module Link-Up Issue
 - Solved an intermittent issue where the link would fail to establish on startup when an SFP module was connected.
- IGMP Snooping Fast-Leave Behavior Correction
 - Solved an issue where, when operating as a non-querier, VLANs configured with “ip igmp snooping fast-leave auto-assignment” stopped forwarding streams upon receiving a Leave message.
- L2MS Mode Failure Under Rapid Mode Change
 - Solved an issue specific to V4.02.17: when the device operated as an L2MS manager and its mode was switched to agent or was disabled within 4 seconds of detecting an L2MS agent, L2MS would stop functioning.

V2.06.17

Feature Additions

- Support for ProAV Quick Setup
 - Added and updated the following commands:

ip igmp snooping fast-leave auto-assignment

ip igmp snooping check ra enable/disable

ip igmp snooping check tos enable/disable

ip igmp snooping report-forward enable/disable

ipv6 mld snooping report-suppression

show ip igmp snooping interface

show ipv6 mld snooping interface

proav profile-type

Specification Changes

- Default Configuration Updates
 - Added the following settings:
 - ip igmp snooping disable
 - ipv6 mld snooping disable
- Web GUI ProAV Menu Enhancements
 - Added a new ProAV profile screen.
 - Added a new multicast screen.
 - Updated the Web GUI's Dante optimization settings:
 - Reviewed commands applied during manual configuration.
 - When flow control is enabled, commands now disable this feature.
 - When LLDP is disabled, commands will now allow it.
 - Updated the Web GUI dashboard:
 - Added a bandwidth usage button to the interface gadget to display per-port usage.
 - Added new settings in Web GUI:
 - [Multicast] - [IGMP Snooping]
 - RA Check
 - ToS Check
 - Report Forwarding Feature
 - Automatic Fast Leave Assignment

- [Multicast] - [MLD Snooping]
 - Report Suppression Feature
- Port Initial Layout Update
 - Changed the default port layout from Vertical to Horizontal.
 - Set the upper row as Dante Primary and the lower row as Secondary in a Horizontal layout.
 - Displays an error if the VLAN ID limit is exceeded:
 - "Profile cannot be set as the VLAN ID limit has been reached."
- Command Updates
 - Updated LAN/SFP port configurations:
 - Added, tlv-select basic-mgmt(LLDP).
 - Removed, spanning-tree enable/disable.
 - Removed the no spanning-tree command from the ProAV profile reset configurations.
- Initialization Specification Changes
 - Changed the "Reset to Default Settings" button in the Web GUI ProAV profile screen to restore factory settings.
 - Made the following adjustments:
 - System Initialization:
 - Replaced, "no lldp run" with "lldp run".
 - Added, "lldp auto-setting enable".
 - VLAN Interface Initialization:
 - Added, "l2-mcast flood 239.192.128.250".

- Added, "ip igmp snooping disable" and "ipv6 mld snooping disable".
 - LAN/SFP Port Initialization:
 - Replaced, "no lldp-agent" with "lldp-agent".
 - Added, "no tlv-select basic-mgmt".
 - Multicast Default Reset Update
 - Changed the "Reset to Default Settings" action for VLAN interfaces to restore factory settings.

Bug Fixes

- IGMP/MLD Snooping Setting Fix
 - Solved an issue where the following commands, when executed in "no" format, did not reflect changes:

ip igmp snooping version

ipv6 mld snooping version
- Dante Optimization Display Fix
 - Solved an issue where Dante optimization status was not displayed correctly in the RM-CR GUI.
- VLAN-ID Error Fix
 - Solved an error in the ProAV multicast settings screen when selecting profiles with VLAN IDs of 257 or higher.
- Toggle Button Height Alignment
 - Unified toggle button heights in the following ProAV settings screens:
 - Dante Primary/Secondary Connection Settings
 - CUSTOM Settings

- SDVoE Item Visibility Fix
 - Solved an issue where SDVoE items were not displayed on multi-speed devices in stack configurations.
- Menu Display Issue Fix
 - Solved an issue where menu items were not visible when the Web GUI language was set to English, and the browser window was resized.
- Error Message Update
 - Updated error messages in the Web GUI [ProAV Settings] - [Profile] when LAG member ports exist:
 - "Remove the ports that belong to a logical interface from the logical interface."
- Unused Legend Display Fix
 - Solved an issue where unused legends were displayed in the Web GUI ProAV profile.