

# Previous SWX2320 Firmware version information

## V2.05.20

### 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

## V2.05.18

### 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.

## V2.05.17

### 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.

## **V2.05.16**

### **New Functionality**

- sFlow function was added.
- This function setting page was added to the Web GUI management page.
- The "Find this switch" function in the ADECIA security enhancement was added.
- The RMON function setting page was added to the Web GUI management page.

### **Improvements**

- The loop detection function works on logical interfaces.
- In the ADECIA security enhancement, the automatic device recognition function works even when an IGMP querier does not exist.

- Dante optimization setting by LLDP is no longer automatically applied when the stack is enabled.
- Revised the settings to apply the “Dante optimization” settings by LLDP automatically.
- The LLDP function and basic management TLVs are enabled in the Web GUI's “Dante optimization” settings.
- The following wording in the Web GUI was changed:
  - the wording of "Admin Password" and "Administrator Password" to "Privileged Password"
  - wording when CONFIG is saved
  - unified the wording

## Fixed Bugs

- Fixed a bug in 802.1X authentication that could cause a reboot when receiving a large EAP fragment size RADIUS packet.
- Fixed a bug that could cause stack disconnections when loops were detected.
- Fixed a bug in the ADECIA security enhancement that caused communication to fail in rare cases when security settings were disabled.
- Fixed a bug that could prevent communication by MAC authentication when all FDB entries are cleared, such as when the stack is reconfigured.
- Fixed a bug in the SNMP function that the correct value could not be obtained when acquiring the private MIB of the loop detection information.
- Fixed a bug when a stack member was displayed on the Web GUI dashboard if a period with no data was selected from [Day],[Month],[Year] in the Resource Information and Power Consumption Information gadgets. It took time to switch screens, and an error log was outputted.

- Fixed a bug in which some configuration screens in [Layer2 Functions]-[Spanning Tree] of the Web GUI's advanced settings were garbled when displayed in English.
- Fixed a bug in the following screens of the Web GUI management that the setting values were sometimes not reflected in the setting screens.
  - [SNMP]-[MIB]-[Management Information Settings].
  - [SNMP]-[Community]-[List of Communities]
  - [SNMP]-[SNMPv3 User]-[MIB View List]
  - [SNMP]-[SNMPv3 User]-[Group List]
  - [SNMP]-[SNMPv3 User]-[User List]
  - [SNMP]-[SNMP Trap]-[Trap Type to Send]
  - [SNMP]-[SNMP Trap]-[List of Traps Destinations]
  - [LLDP]-[System Settings]
  - [LLDP]-[Interface settings]
  - [Mail Notification]-[List of Registered Mail Servers]
  - [Mail Notification]-[List of Mail Notifications Settings]
  - [Terminal Monitoring]-[List of Monitored Terminals]
  - [PTP]-[System Settings]
  - [PTP]-[Interface Settings]
- Errors have been corrected with the help of the English display of the Web GUI.

## V2.05.15

### New Functionality

- Support for DHCP snooping functionality was added.  
 A page for DHCP snooping settings was added to the [Layer 2 functions]-[DHCP snooping] page in the Detailed settings screen of the Web GUI.

- PTP support for the “Transparent Clock End-to-End One-step Ethernet” mode was added.

L2 frames can now be specified in the [PTP]-[System settings] of the Management screen of the Web GUI for transfer protocol.

- Functionality for routing jumbo frames was added.

A command was added to set VLAN Interface MTU values.

mtu

Functionality for specifying MTU values was added in the [VLAN]-[Create VLAN] page of the Detailed settings screen of the Web GUI.

- A command was added to specify whether to forward ARP requests by unicasting or broadcasting when an ARP entry times out.

arp-ageing-timeout request

- A command specifying how unknown multicasting frames are processed was added to the VLAN interface mode.

I2-unknown-mcast

Settings related to unknown multicast frames can now be specified for each VLAN in the [Multicast]-[Multicast basic settings] page in the Detailed settings screen of the Web GUI.

- In auto-configure via LLDP settings, a “tlv-select basic-mgmt” command is now automatically specified for ports that receive LLDP frames sent from specific Yamaha devices that support Dante.

- A [Power consumption information] gadget was added to the Dashboard screen of the Web GUI.

- In the [Maintenance]-[Summary data management] page of the Management screen of the Web GUI, summary data can now be exported without inserting an SD card.

- In the [Traffic control]-[QoS] page of the Web GUI Detailed settings screen, the [Web conference applications optimization] was added.

## Improvements

- When an ARP entry times out, an ARP request is sent to reset the ARP entry.
- Certain additional multicast packets (IGMP and MLD) are now subject to the authentication trigger in the MAC authentication function.
- The port authentication function changed the error message that appears if a port authentication command is specified for a physical interface affiliated with a logical interface.
- The following global configuration mode commands were eliminated.

`I2-unknown-mcast forward<ipv4_addr> <vlan_ifname>`

`no I2-unknown-mcast forward<ipv4_addr> <vlan_ifname>`

If the commands are specified by “startup-config”, they are converted to an alternative command during startup.

Also, the following multicast frame transmission setting command was added to the VLAN interface mode.

`I2-mcast flood`

- In IGMP and MLD snooping functionality, log data is no longer extended output whenever a query for a version different than specified in the unit is received.

The following commands for IGMP snooping and MLD snooping functionality now display the number of queries received from a different version than specified in the unit.

`show ip igmp snooping interface`

`show ipv6 mld snooping interface`

- Execution speed was improved for the following commands.

`show inventory`

show ddm status

show tech-support

- The following commands were added to “tech-support” acquired via TFTP.

show inventory

show ddm status

- The format of Help information on the Dashboard screen of the Web GUI was changed.
- In the LAN map screen of the Web GUI, the OUI file used to identify the manufacturer of connected devices was updated.
- The following changes were made to the [Agent list] on the [Device list] page in the LAN map screen of the Web GUI.
  - An IP address column list was created on the far right for displaying IP addresses.
  - IP addresses were added to CSV files obtained using the [Save as CSV] button.
- The IP address of the L2MS manager is now displayed in the [Whole map] of the LAN map screen of the Web GUI.
- The ability to select VLAN interfaces was added to [Dante optimization] and [SDVoE optimization] pages of the Management screen of the Web GUI. Settings are only applied to specified VLAN interfaces and affiliated physical interfaces. The content of settings was also reviewed.
- When optimal Dante settings are specified in the [Dante optimization]-[Manual settings] page of the Management screen of the Web GUI, the following commands are set for the designated VLAN interfaces.

I2-mcast flood 224.0.1.129

I2-mcast flood 224.0.1.130

I2-mcast flood 224.0.1.131

I2-mcast flood 224.0.1.132

I2-mcast flood 239.254.3.3

ip igmp snooping report-suppression disable

## **Fixed Bugs**

- A bug was fixed that prevented sending communications to terminals at interfaces with the port authentication function enabled when the terminals were relocated without linking down due to not updating the ARP entry.
- A bug was fixed in port authentication functionality that caused authentication to fail when conflicting authentication requests were received from multiple supplicants.
- A bug in port authentication functionality was fixed that caused the port authentication function not to function if using a UDP port number which differs to that used in the RADIUS server.
- A bug in port authentication functionality was fixed that caused authentication information not to be synchronized with stack members after a stack reconfiguration.
- A bug was fixed in MLD snooping that caused streams to not necessarily continue to be forwarded without properly deleting registered multicast group address information.
- A bug was fixed that caused overall system settings for processing unknown multicast frames not to be appropriately applied.
- A bug was fixed that displayed an inappropriate error message when the “no ip address” command was executed.
- A MLD snooping bug was fixed that caused an error not to be displayed when an inappropriate interface was specified among multicast router connections.

- A bug was fixed that, in rare cases, caused startup history events not to be appropriately saved when a “reload” command was executed.
- A bug that outputted an error log event was fixed when the loop detection function (for the overall system) was disabled while a loop was still detected.
- A bug that displayed information for no longer necessary VLAN interfaces was fixed when a loop was detected (shutdown) at the physical port with the highest port number, and the “show errdisable” command was executed.
- English language errors were corrected in the following gadgets on the Dashboard screen of the Web GUI.
  - [Traffic information] gadget
  - [Resource information] gadget (graph)
- A bug was fixed that caused English messages to not display correctly in the "History" area of the LAN map screen of the Web GUI after the fan operation was restored.
- A bug that caused the [Print preview] screen layout to not display correctly in the [Whole map] of the LAN map was fixed.
- A bug was fixed that sometimes displayed detected agents as eliminated terminals in the [Terminal list] of the [Device list] in the [LAN map].
- A bug was fixed that sometimes displayed clock values 1 second ahead of the actual value in acquisition date/time information in the “Connected Devices” view when the device management function was enabled in the LAN map.
- A bug was fixed that resulted in not displaying warning information about conflicts between multiple L2MS managers in the warning list on the Help page of the Dashboard screen of the Web GUI.

- A bug was fixed that caused messages about fan operation being restored not to be displayed in the notification history list on the Help page of the LAN map screen of the Web GUI.
- A bug was fixed that showed both yen and backslash symbols on the Help page of the Web GUI.
- A bug was fixed that caused the button name indicated in [Backup settings for summary data]-[Check entered content] explanatory text in the [Summary data management] page of the Web GUI Help page to not match the actual button name.
- Some other Web GUI display bugs were fixed.

## V2.05.13

### New Functionality

- The following command can now forward multicast packets without discarding part of the multicast communication even if "l2-unknown-mcast discard" is specified.  
  
l2-unknown-mcast forward
- Support for "summertime" time zones was added.  
  
User settings for the summertime period and offset hours were added to the "clock summertime" command.  
  
On the Web GUI [Management]->[Interface settings] page, a [Time zone setting] page was added for setting the time zone and summer time settings.
- Security measures were strengthened for accessing the unit.
- A new cable diagnostics function was added.  
  
In addition, a cable diagnostics page was added to the [Management]->[Maintenance] menu of the Web GUI.
- The SDVoE optimization function was added.

- Support for the automatic SD card booting function was enabled.
- A command for changing the authentication order was added in case the same authentication method is also used for the port authentication function.
  - auth order
- Commands that can be registered in the FDB as static entries were added to the MAC authentication function.
  - auth-mac static
- IGMP snooping features were expanded to support the following:
  - A command for enabling/disabling the report suppression function was added.
  - ip igmp snooping report-suppression
  - A command for enabling/disabling the multicast router port data forwarding suppression function was added.
  - ip igmp snooping mrouter-port data-suppression

The following settings were added to the [Multicast]->[IGMP snooping]->[IGMP snooping settings] field in the Detailed settings screen of the Web GUI.

- Report Suppression Function
- Multicast Router Port Data Forwarding Suppression Function
- SYSLOG facility values became changeable.
  - syslog facility

In addition, the ability to change/display SYSLOG facility value settings was added in the [Management]->[Maintenance]->[SYSLOG management] field of the Web GUI.
- Commands were added to restrict access to the SNMP server.

- snmp-server access

In addition, the [Access via SNMP] settings screen was added to the

[Management]->[Access management]->[Various server settings] field of the Web GUI.

- Private MIB support was added for loop detection.
- Support for the following was added to the Web GUI:
  - A [Multicast basic settings] page was added to the Detailed settings.
  - The following settings were enabled in the [Traffic control]->[QoS] field in the Detailed settings:
    - [CoS]->[Transmit queue mapping table] settings
    - [DSCP]->[Transmit queue mapping table] settings
  - The following settings are now displayed in the [Management]->[Dante optimization] field:
    - Unknown multicast frame settings
    - QoS settings

## Improvements

- The maximum number of characters in shared passwords used for port authentication and RADIUS server functionality was increased from 64 to 128.
  - RADIUS server shared password setting (radius-server key)
  - RADIUS server host setting (radius-server host)
  - RADIUS client setting (NAS)
- If PTP functionality is enabled for the overall system and “I2-unknown-mcast discard” is specified, PTP packets are forwarded without being discarded.
- The PTP input/output delay was corrected.

- Improvements were made to multicast address registering and deleting processes for IGMP/MLD snooping.
- The following terminology was changed for Yamaha network products:

Function	Before	After
L2MS	Master	Manager
	Slave	Agent
Stack	Master	Main
	Slave	Member
URL Filter	Black-list	Reject-list
	White-list	Pass-list
Backup route	Master	Main
SNMP (Private MIB)	ysl2msFindSlave	ysl2msFindAgent

- The following ARP changes were made:
  - ARP entries are no longer generated when ARP requests are received.
  - ARP replies are now received for only a fixed period after an ARP request is sent by that unit.
- Support for the IGMP snooping fast-leave function was also included in IGMPv3.
- Improvements were made to the time required by the logical interface to link up for LACP link aggregation.
- The use of characters " ' ` and \ were disallowed in URLs.
- If stacking is enabled, an error message is displayed if a PTP "show"-based command is executed.
- In the Web GUI login screen, a scroll bar is displayed if the browser display is small.
- The accordion menus for Detailed settings and Management screens of the Web GUI were reorganized.

- The “Change the settings related to the community accordingly.” or “Delete from related settings as well.” checkbox can be selected when changing/deleting community settings in the Web GUI [Management]->[SNMP]->[Community] field. These settings specify which clients can access the SNMP servers that determine whether the community is now also changed/deleted accordingly.
- The explanatory text was changed for the JavaScript and Cookie settings in the Web GUI general help page.

## **Fixed Bugs**

- A bug was fixed that caused the system sometimes to reboot if the CPU usage ratio increased after receiving a portion of the IGMP packet.
- A bug was fixed that sometimes returned unwanted IGMP reports if an IGMP report was received from a multicast router port.
- A bug was fixed that sometimes stopped multicast streams from being forwarded correctly if a LAN/SFP port associated with a logical interface is linked up/down with IGMP/MLD snooping.
- A bug was fixed that sometimes caused unwanted log events to be output if an IGMP snooping group registration was deleted.
- A bug that sometimes prevented authentication when a guest VLAN was enabled during MAC authentication was fixed.
- A bug was fixed that resulted in rebooting if an invalid LLDP frame was received.
- The possibility of rebooting was eliminated after specifying the “send from” command for the email notification function.
- A bug that prevented using the following commands to make revisions via an SSH connection was corrected.

- firmware-update execute
  - firmware-update sd execute
- A bug that prevented obtaining tech support via an SSH connection if a stack was configured was fixed.
- In the stack function, a bug was fixed that sometimes prevented communication via a member switch port if a stack was configured concurrently starting up in standalone mode.
- A bug was fixed that enabled a user to log in to the console without a password if the “username” command was used to change only the privilege settings for an existing user without entering the password.
- A bug was fixed that resulted in not reflecting associated LAN/SFP ports in settings when there are port authentication settings for a logical interface, and VLAN access to the logical interface was changed.
- A bug was fixed that sometimes prevented properly load-balancing unicast packets during link aggregation if they were addressed to MAC addresses registered in the FDB.
- A bug that sometimes prevented communication with devices connected to member switches in stack configurations was fixed due to ARP entry inconsistencies between stacks when many ARP entries were registered or deleted simultaneously.
- A bug was fixed that sometimes prevented transmitting packets when the half-duplex mode was used for port communication.
- A bug was fixed in the SNMP function that sometimes prevented obtaining a MIB after a MIB was obtained while rebooting a member switch in a stack.
- A bug was fixed that sometimes prevented transmitting multicast packets to some ports, because IGMP snooping did not function correctly during stack reconfiguration.

- A bug that sometimes resulted in not transmitting streams requiring a multicast router port when "I2-unknown-mcast discard" is specified was fixed.
- A bug that sometimes did not reflect VLAN IP address settings in the sender IP address settings for sending IGMPv2 report messages during IGMP snooping was fixed.
- A bug was fixed that sometimes cleared authentication information before the FDB aging time was complete during MAC authentication.
- A bug was fixed that sometimes caused some functionality to become unstable after the current time setting was changed, such as after the NTP time setting was corrected.
- A bug was fixed that sometimes prevented registering received packets from being routed for stack configurations.
- A bug that prevented URL encoding values from entering HTTP proxy server settings for updating firmware was fixed.
- A bug that sometimes outputted error log events if a dashboard page was opened in the Web GUI while rebooting a stack member switch was fixed.
- A bug in the port security function was fixed that sometimes prevented the blocking status in port security information after a stack was reconfigured.
- A format error in the "no switchport multiple-vlan group" command was corrected.
- A bug that sometimes prevented properly updating information in the "Device details and settings" view in the LAN map screen of the Web GUI was fixed.
- A bug was fixed that prevented some of the physical interfaces from displaying in the [Port authentication] field in the Detailed settings screen of the Web GUI if logical interface settings are deleted after stack reconfiguration.

- A bug was fixed that prevented displaying errors correctly after trying to specify dynamic VLAN settings for trunk ports using the [Interface settings]->[Port authentication]->[Port authentication settings] in the Detailed settings screen of the Web GUI.
- A bug was fixed that resulted in an error if a VLAN had frame transmission disabled when optimization settings were executed on the following pages in the [Management] settings of the Web GUI:
  - [Dante optimization]
  - [SDVoE optimization]
- Inconsistencies in how some information was displayed in the Web GUI help information were corrected.

## **V2.05.07**

### **New Functions**

- Enables using LACP link aggregation with stack configuration.
- Supports web consoles.
- Added the following pages in the Detailed settings screen.
  - Port Authentication
  - Spanning Tree
- Added the Backup / Restoration pages to the Management screen of the Web GUI.
- Enables the interface gadgets to show port block status caused by the spanning tree protocol on the Dashboard screen of the Web GUI. Please note that only the corresponding CIST ports is shown.

### **Enhancements**

- Addressed the following vulnerability in OpenSSL.

- CVE-2020-1971(JPCERT/CC JVNVU#91053554)
- Enables the SYSLOG functions to output the following INFO level logs when more than one L2MS master is detected or the duplicate is resolved.
  - [L2MS]:inf: L2MS master duplication detected. ( ADDR, portX.Y )
  - [L2MS]:inf: L2MS master duplication resolved. ( ADDR, portX.Y )
- The open-source software license is now shown on the Web GUI help.

## Fixed Bugs

- Fixed a problem in which, in rare cases, a LAN port would not be linked-up at the startup.
- Fixed a problem in which the switch would not be able to communicate through the native VLAN when launching the switch using a config where either of the following commands was set to the interface.
  - switchport trunk allowed vlan add VLAN-ID
  - switchport trunk native vlan VLAN-ID
- Fixed a problem in which a port that satisfied the following conditions could be changed to a trunk port.
  - The port authorization setting is enabled and it is not in the multi-supplciant mode.
  - A guest VLAN is set.
- Fixed a problem in which the POWER indicator may not light in orange when an abnormal temperature was detected.
- Fixed a problem in which authentication may fail if the IP address was set and there was a linked-down VLAN interface in the RADIUS server function.
- Fixed a problem in which an IP address would not appear on the Web GUI if the static IPv4 address was set to a link local address (169.254.0.0/16).

- Fixed a problem in which the performance observation function would not show the past observation information (Day and Month) on the Dashboard screen of the Web GUI when the year changed.
- Fixed a problem in which showing the list map on the LAN map screen of the Web GUI with a system that included a switch from other manufacturers would corrupt the tree display.
- Fixed several problems that occurred during stack configuration.
- Fixed a problem in which receiving a certain L2MS message would result in a memory leak when the switch worked as an L2MS slave.
- Fixed some other minor problems.