

# Release Notes

FortiSwitch-AX9000-OS 1.0.1



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FortiSwitch-AX9000-OS 1.0.1 Release Notes

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# Change log

Date	Change Description
January 9, 2026	Initial document release for FortiSwitch-AX9000-OS 1.0.1

# What's new in FortiSwitch-AX9000-OS 1.0.1

Release 1.0.1 provides the following new features:

- Commit mode for configuration
- Backing up and restoring operating information
- Advanced script
- VLAN tunneling (QinQ)
- Outbound filters (access lists)
- Policer
- Port mirroring
- Policy-based routing

Refer to the [Administration Guide](#) for details about the supported features.

# Introduction

This document provides the following information for FortiSwitch-AX9000-OS 1.0.1 build 0012:

- [Supported hardware on page 7](#)
- [Special notices on page 8](#)
- [Resolved issues on page 9](#)
- [Known issues on page 14](#)

See the [Fortinet Document Library](#) for FortiSwitch-AX9000-OS documentation.

# Supported hardware

FortiSwitch-AX9000-OS 1.0.1 supports the following hardware:

Model	Description
FS-AX9004G	Layer 2/3 chassis switch for up to four line cards.
FS-AX9000G-SUP	FS-AX9000G-SUP controls the FS-AX9004G chassis and performs packet forwarding.
FS-AX9000G-LC10P	FS-AX9000G-LC10P line card features 48x 10/5/2.5/1 GE RJ45 ports as well as 2x 10GE SFP+ ports. All RJ45 ports support PoE (802.3bt/at/af, up to 90W per port).
FS-AX9000G-LC10S	FS-AX9000G-LC10S line card features 48x 10/1 GE SFP+/SFP ports as well as 2x 10GE SFP+ ports.
FS-AX9000G-LC25	FS-AX9000G-LC25 line card features 48x 25/10 GE SFP28/SFP+ ports as well as 4x 100/40 GE QSFP28/QSFP+ ports.
FS-AX9000G-LC100	FS-AX9000G-LC100 line card features 32x 100/40 GE QSFP28/QSFP+ ports.
FS-AX9004G-FAN	FAN module for FS-AX9004G.
FS-AX9000G-PS-3KAC	AC power supply for FS-AX9000G series.
FS-AX9000G-PS-2K5DC	DC power supply for FS-AX9000G series.

# Special notices

Supervisor (FS-AX9000G-SUP) redundancy is not supported in FortiSwitch-AX9000-OS 1.0.1.

The following features are not supported in FortiSwitch-AX9000-OS 1.0.1:

- Setting any TPID value feature

# Resolved issues

The following issues have been fixed in FortiSwitch-AX9000-OS 1.0.1. For inquiries about a particular bug, please contact [Customer Service & Support](#).

Bug ID	Description
1198289	The following MIB object is not supported: <ul style="list-style-type: none"> <li>fsaxFlow</li> </ul>
1198289	The following MIB object is not supported: <ul style="list-style-type: none"> <li>fsaxQueue</li> </ul>
1198293	The following configuration commands are not supported: <ul style="list-style-type: none"> <li>qos-queue-group</li> <li>qos-queue-list</li> <li>traffic-shape rate</li> </ul>
1198297	In the access-list configuration for filtering and QoS, the following commands can be configured, but the configuration does not take effect: <ul style="list-style-type: none"> <li>range parameter of tcp port and udp port</li> <li>neq parameter of tcp port and udp port</li> <li>layer2 parameter of deny and permit</li> <li>layer3 parameter of deny and permit</li> <li>advance access-list resequence</li> <li>ip access-list resequence</li> <li>ipv6 access-list resequence</li> <li>mac access-list resequence</li> </ul>
1206660	The following limitations apply when access list logging is configured for protocol control packets addressed to this device. <ul style="list-style-type: none"> <li>It will be excluded from access list logging.</li> <li>Packets are not discarded even if the filter is specified to be discarded.</li> </ul> <p>If you want to discard protocol control packets addressed to this device, do not apply access list logging to the filter.</p>
1206663	Daylight saving time should be set using the number parameter in the "clock timezone". Do not use the "clock summer-time" configuration command.
1206665	When using IGMP snooping, configure one or more multicast router ports for VLAN where IGMP snooping is enabled. When using MLD snooping, configure one or more multicast router ports for VLAN where MLD snooping is enabled.

Bug ID	Description
1206665	<p>When the “system flash-monitor configuration command” is set, the following recovery system message is not displayed even if the free space of the internal flash memory falls below the threshold specified in the recovery-threshold parameter:</p> <pre>01221011 The internal flash memory has enough free space.</pre>
1206665	<ul style="list-style-type: none"><li>• The “show system” operation command and MIB object are set to “1000BASE-T full (auto)” for the speed of the management port, regardless of the configuration.</li><li>• If multiple LCs are used, the LC power status displayed by “show power” is “-”.</li></ul>
1206665	<p>The “system temperature-warning-level” configuration might not take effect when the device starts up. If this occurs, you need to delete and reconfigure the “system temperature-warning-level” configuration.</p>
1206665	<p>The following FAN-related issues occur:</p> <ul style="list-style-type: none"><li>• When the system is powered on, a false FAN unit failure is detected, causing all three FAN units to run at high speed.</li><li>• When a FAN unit is replaced, a false failure of the newly installed FAN unit is detected, causing all three FAN units to continue running at high speed.</li><li>• When a FAN unit is removed, the following system message, which should not normally be generated for the removed FAN unit, is output incorrectly: <pre>S4 FAN FAN:X 01213006 00 fcb0a000000 The fan speed was changed to high.</pre></li></ul> <p>To recover from these issues, the system must be rebooted using the “reload” command without turning the power off. When the system restarts, all three FAN units initially run at high speed. The FAN units slow down gradually and back to normal speed within approximately 30 to 40 minutes.</p>

Bug ID	Description
1206665	<p>Brief outages of packet forwarding intra VLAN (bridging) and SVI (routing) occur after the following events. In the following description, “affected” means a brief outage on that VLAN (for an average of 35 milliseconds).</p> <ul style="list-style-type: none"> <li>• Configuration changes by operator: <ul style="list-style-type: none"> <li>◦ VLANs are affected when they are removed from the list of allowed VLANs for the trunk port.</li> <li>◦ The default VLAN (VLAN 1) is affected when “switchport access vlan &lt;n&gt;” is configured.</li> <li>◦ When IPv4 direct broadcast forwarding is enabled on an SVI, and upon disabling it, the corresponding VLAN is affected.</li> </ul> </li> <li>• Network state changes without the operator’s intervention: <ul style="list-style-type: none"> <li>◦ VLANs are affected when configured as allowed VLANs on the channel group, and the entire channel group goes up or down.</li> <li>◦ The VLAN is affected when the corresponding SVI is the IPv4/IPv6 unicast route’s outgoing interface, ARP/NDP for the next hop is removed, and the MAC address for the next hop is not learned.</li> </ul> </li> <li>• Network state changes when PIM is configured on FS-AX9004G: <ul style="list-style-type: none"> <li>◦ The VLAN is affected when a MAC address learned by IGMP/MLD snooping is removed.</li> <li>◦ The VLAN is affected when a destination port for a MAC address learned by IGMP/MLD snooping is removed.</li> <li>◦ The VLAN is affected when a multicast router port for a MAC address learned by IGMP/MLD snooping is removed.</li> <li>◦ The VLAN is affected when the output interface of a IPv4/IPv6 multicast route is removed.</li> </ul> </li> </ul>
1206668	<p>Device-originated packets sent to an SVI (VLAN interface) are detected by a filter configured for inbound traffic on the same SVI (VLAN interface).</p> <p><b>Workaround:</b> This issue can be avoided by applying a filter to the Ethernet interface. If you want to apply a filter to an SVI (VLAN interfaces), you can set the filter to prevent packets transmitted by this device from being discarded by applying the source MAC address and source IP address to the detection conditions.</p>
1206669	<p>In case of VRF extranet communication, the subnet broadcast traffic is incorrectly forwarded, even if there is no directed-broadcast option in the “ip address” configuration.</p>
1206669	<p>In the “show ip arp” and “show ipv6 neighbors” commands, entries with the “I” (Incomplete) status are not displayed.</p>
1206669	<p>This device does not send ICMP redirect packets or ICMPv6 redirect packets.</p>
1206670	<p>Port-channel subinterfaces cannot be used when they are untagged. You can use them when they are tagged.</p>
1206672	<p>IGMP snooping and IPv4 multicast routing or MLD snooping and IPv6 multicast routing cannot be used at the same time on the same SVI (VLAN interface).</p>

Bug ID	Description
1206676	The mixed use of AC and DC power supply units is not supported. <ul style="list-style-type: none"> <li>AC power supply: FS-AX9000G-PS-3KAC</li> <li>DC power supply: FS-AX9000G-PS-2K5DC</li> </ul>
1206678	VLAN tag translation is not supported on the control VLAN of the Ring Protocol (AXRP).
1206680	The “update software usb-flash-file” operational command does not work. <b>Workaround:</b> Copy the file to the device with the “cp usb-flash-file” operation command in advance and then update the software with the “update software” command.
1206684	The statistics for the following commands and MIBs are fixed to 0. Operation commands: <ul style="list-style-type: none"> <li>show ip interfaces statistics</li> <li>show ipv6 interfaces statistics</li> <li>show ip-dual interfaces statistics</li> <li>show vlan statistics</li> </ul> MIBs: <ul style="list-style-type: none"> <li>ifTable(VLAN,Subinterface)</li> <li>ifXTable(VLAN, Subinterface)</li> </ul>
1206686	Storm control configurations for the LC10S, LC25, and LC100 ports do not take effect when the device is restarted. After restarting the device, delete the storm control settings and then set them up again.
1206687	<ul style="list-style-type: none"> <li>When using VRRP with VRF, you cannot use the accept mode on the virtual router (using the configuration command “vrrp accept”).</li> <li>If you are using VRRP, do not delete all “vrrp ip” or “vrrp ipv6” commands. If you want to delete all “vrrp ip” or “vrrp ipv6” commands, delete all VRRP configurations, save the configuration, and then restart the device.</li> <li>When an interface using VRRP detects duplicate IP addresses, the following system message is produced, but the VRF ID contained in the message is fixed to 0: 00400100 S5 Duplication of IPv4 address with the node was detected.</li> </ul>
1206693	Do not use the “no system-source-address” configuration command on the loopback interface.
1206694	The following SNMP notifications related to the layer-2 loop detection feature are always sent to the SNMP manager, regardless of the “snmp-server notify-filter” configuration command: <ul style="list-style-type: none"> <li>fsaxL2ldLinkDown</li> <li>fsaxL2ldLinkUp</li> <li>fsaxL2ldLoopDetection</li> </ul>
1206694	When you get the IfIndex MIB object of the primary loopback interface, it responds with an invalid value. The correct value: <loopback number>+20000 The invalid value: <vrf id>+20000 (“<vrf id>” is the VRF to which the loopback interface belongs.)

Bug ID	Description
1206694	The following MIB information cannot be retrieved successfully or responds with incorrect values: <ul style="list-style-type: none"><li>• fsaxModelType</li><li>• fsaxSoftware</li><li>• fsaxSystemAlarmTable</li><li>• fsaxFanUnitTable</li><li>• fsaxFanUnitLedStatus</li><li>• Part of fsaxSupBoardTable</li><li>• Part of fsaxSupCpuTable</li></ul>
1206695	<ul style="list-style-type: none"><li>• Policy-based mirroring cannot be used for traffic on VLANs with the Spanning Tree or Ring Protocol enabled.</li><li>• Policy-based mirroring cannot be used when the default VLAN (VLAN 1) is shut down.</li></ul>
1240193	Due to a disk space leak in the temporary directory, operating the system continuously without rebooting might cause the software to stop working properly.

# Known issues

The following known issues have been identified with FortiSwitch-AX9000-OS 1.0.1. For inquiries about a particular bug or to report a bug, please contact [Fortinet Customer Service & Support](#).

Bug ID	Description
1206661	The number of allowaccess settings for the entire device is up to 1,000.
1206665	The SUP status is incorrectly displayed as “active” in the “show system” operation command when the system is stopped automatically due to a faulty SUP restarting 7 times within a one-hour period.
1206665	If the device is restarted with the “reload active” operation command, the dump file pfmosXX.000 is not output. If an SUP failure occurs, the dump file pfmosXX.000 might not be output. If an LC failure occurs, the dump file lcosXX.000 is not output.
1206667	Flow control on LC100 supports only receiving pause frames. Transmitting pause frames is not supported.
1206667	When 1000/2.5G/5G/10GBASE-T ports on LC10P link up as 2.5GBASE-T or 5GBASE-T, just after link-up, the ports might go down once before coming up again.. <b>Workaround:</b> You need to use the “link up-debounce” configuration command to set the debounce timer when linking up for about 5 seconds. You also need to configure the debounce timer on the peer device side as well.
1206669	If a secondary address is set for a multihomed configuration on the IPv4 interface, the source address of the IPv4 packet sent from this device will be the primary address, even if it is supposed to be the secondary address.
1206669	The uRPF strict mode cannot be used on IPv6 interfaces.
1206669	Even if the “no ip source-route” configuration command is set, the forwarding of IPv4 packets with the source route option might not be suppressed.
1206673	When using the non-link-down mode on a standby link in link aggregation, the frames received on the standby port are discarded incorrectly.

Bug ID	Description
1206674	<p>When the MAC address table has a large number of entries, the following settings might not be registered in the hardware:</p> <ul style="list-style-type: none"> <li>• When a static MAC address entry is configured (added or modified)</li> <li>• When the IP address of the SVI (VLAN interface) using “vlan-mac” is configured</li> <li>• When the VRRP virtual IP address is configured</li> <li>• When IGMP snooping or MLD snooping learns MAC addresses</li> </ul> <p>When this issue occurs, it results in one of the following system messages:</p> <ul style="list-style-type: none"> <li>• The MAC address in a static entry cannot be registered to the MAC address table.</li> <li>• The IP configuration cannot be registered to the hardware tables.</li> <li>• The MAC address in an IGMP-snooping entry cannot be registered to the MAC address table.</li> <li>• The MAC address in an MLD-snooping entry cannot be registered to the MAC address table.</li> </ul> <p>For recovery, you need to delete the MAC address table with the operational command “clear mac-address-table” and then reconfigure the configuration.</p>
1206688	<p>The following line card installation operations are not allowed while the system is running. In both cases, you need to power down the chassis, replace or insert the line card, and then power up the chassis.</p> <ul style="list-style-type: none"> <li>• Changing an installed line card to a different type in the same slot</li> <li>• Installing LC10S, LC25, or LC100 to the empty slots</li> </ul> <p>In addition, if there are port configurations in the form of “Interface ethernet &lt;System No.&gt;/&lt;LC No.&gt;/&lt;Port No.&gt;” that do not exist on the line card you are using, you need to delete them.</p> <ul style="list-style-type: none"> <li>• For LC10P and LC10S, delete ports 51-52 if they exist.</li> <li>• For LC100, delete ports 33-52 if they exist.</li> </ul>
1206690	<p>When there are frames with two or more VLAN tags, the frames with the first VLAN ID set to 0 are not discarded.</p> <p>If the second VLAN ID is configured, forward it; if the second VLAN ID is not configured, discard it.</p>
1206691	<p>IPv4 unicast and IPv6 unicast routing table entries cannot be registered up to the capacity limit described in the <i>Administration Guide</i> Volume 1. The total number of entries for IPv4 unicast and IPv6 unicast is limited to 130K.</p> <p>In addition, the configuration command “forwarding-table allocation” supports only the default value.</p> <p>Specifying the following parameters is not applied to the system:</p> <ul style="list-style-type: none"> <li>• 13-route parameter of the forwarding-table allocation</li> <li>• access parameter of the forwarding-table allocation</li> </ul>
1206694	<p>If you get the MIB information of the management port that does not have an IP address, the ifIndex value of the management port is an invalid value. If you want to use the management port, you need to set the IP address.</p>

Bug ID	Description
1241079	<p>In the following operational commands and MIBs, statistics for device-originated packets sent to a VLAN interface are included in the receive count of the VLAN.</p> <p>Operation commands:</p> <ul style="list-style-type: none"> <li>• <code>show vlan statistics</code></li> </ul> <p>MIBs:</p> <ul style="list-style-type: none"> <li>• <code>ifTable(VLAN)</code></li> <li>• <code>ifXTable(VLAN)</code></li> </ul>
1241080	<p>VLAN ID 1 tagged frames are treated as untagged frames. Therefore, the following settings are not supported:</p> <ul style="list-style-type: none"> <li>• Tagged frames on a VLAN 1 trunk port</li> <li>• Tagged subinterfaces with VLAN ID 1</li> <li>• VLAN tunneling access port for VLAN ID 1 tagged frames</li> </ul>
1241081	<p>The following IP packets are not subject to policy-based routing:</p> <ul style="list-style-type: none"> <li>• IPv4 packets with the option header</li> <li>• IPv6 packets with the Hop-by-Hop extension header</li> </ul> <p>So, even if these IP packets match the user-defined policies, they are forwarded along with the routing table.</p>
1241082	<p>When the configuration changes listed below are applied to a VLAN that satisfies the following conditions, packets might not be forwarded correctly after the VLAN interface comes up. Apply the configuration changes according to the procedure described in the workaround.</p> <p>VLAN conditions:</p> <ul style="list-style-type: none"> <li>• Only the port or LAG being modified is up.</li> </ul> <p>Configuration changes:</p> <ul style="list-style-type: none"> <li>• Adding an Ethernet interface to a port-channel using the “<code>channel-group mode</code>” configuration command.</li> <li>• Changing the switchport mode of a port-channel interface or an Ethernet interface using the “<code>switchport mode</code>” configuration command.</li> </ul> <p><b>Workaround:</b></p> <p>Apply the “<code>shutdown</code>” configuration to the target VLAN, make the configuration changes while it is in the shutdown state, wait at least 3 seconds, and then bring it out of the shutdown using the “<code>no shutdown</code>” configuration command.</p> <p>Recovery procedure after the issue occurs:</p> <p>Apply the “<code>shutdown</code>” configuration to the target VLAN, wait at least 3 seconds, and then bring it out of the shutdown using the “<code>no shutdown</code>” configuration command.</p>
1241083	<p>The rate limit configured by the “<code>ipv6 icmp error-interval</code>” configuration command does not apply to the ICMPv6 Redirect generated for packets redirected by hardware forwarding.</p>

Bug ID	Description
1241084	<p>The total number of entries for the following parameters in the access list and policer configurations must not exceed 1000</p> <p>Access list:</p> <ul style="list-style-type: none"> <li>• <code>replace-dscp</code></li> </ul> <p>Policer:</p> <ul style="list-style-type: none"> <li>• <code>penalty-dscp</code></li> <li>• <code>max-rate</code></li> </ul>
1241085	<p>The following parameters in the access list configuration are not supported.</p> <p>Both inbound and outbound:</p> <ul style="list-style-type: none"> <li>• <code>+mf</code></li> <li>• <code>-mf</code></li> <li>• <code>+fo</code></li> <li>• <code>-fo</code></li> </ul> <p>Outbound:</p> <ul style="list-style-type: none"> <li>• <code>priority-class</code></li> </ul>
1241086	<p>The total number of entries for the following parameters in the access list configurations must not exceed 32:</p> <ul style="list-style-type: none"> <li>• <code>"range"</code> parameter of the <code>"tcp port"</code> configuration command</li> <li>• <code>"range"</code> parameter of the <code>"udp port"</code> configuration command</li> <li>• <code>"neq"</code> parameter of the <code>"tcp port"</code> configuration command</li> <li>• <code>"neq"</code> parameter of the <code>"udp port"</code> configuration command</li> </ul>
1241087	<p>When an access list with MAC conditions is configured for outbound, not only layer-2 forwarding packets but also layer-3 forwarding packets are included in flow detection.</p>
1241088	<p>Access lists including the following IPv6 conditions do not detect IPv6 packets with extension headers:</p> <ul style="list-style-type: none"> <li>• IPv6 TCP header</li> <li>• IPv6 UDP header</li> <li>• IPv6 ICMP header</li> </ul>
1241089	<p>Flow detection using an access list does not work on the outbound traffic of Ethernet interfaces that are members of a channel group.</p>
1241090	<p>The port shaper supports only PQ with 8 queues. Changes to scheduling (using the <code>"schedule"</code> configuration command) and changes to the number of queues (using the <code>"number-of-queue"</code> configuration command) are not supported.</p>
1241091	<p>The port shaper supports only tail drop for discard control. Changing to WRED using the <code>"discard"</code> configuration command is not supported.</p>
1241092	<p>Queue statistics are cleared to zero when the queue bandwidth control configuration is added or removed.</p>
1241093	<p>In the CoS queue with the same priority in the SUP-FE LC output queue, the MC queue is scheduled with a higher priority than the UC queue.</p>

Bug ID	Description
1241094	The operation commands “backup” and “restore” must be used with the following options: <ul style="list-style-type: none"> <li>• backup flash &lt;file name&gt; no-software</li> <li>• restore flash &lt;file name&gt; no-software</li> </ul>
1241095	The following SNMP traps are not sent: <ul style="list-style-type: none"> <li>• fsaxSupMemoryUsageAlarmTrap</li> <li>• fsaxSupMemoryUsageRecoveryTrap</li> </ul>
1241096	When a large number of IP interfaces are configured on the switch, retrieving the following MIBs might take several minutes. In addition, SNMP GET requests from the SNMP manager, as well as the “show snmp walk” and “show snmp getnext” commands, might time out. <ul style="list-style-type: none"> <li>• fsaxVrflpAddrTable</li> <li>• fsaxVrflpNetToMediaTable</li> <li>• fsaxVrflpFwNoTable</li> <li>• fsaxVrflpFwTable</li> <li>• fsaxVrflpv6AddrTable</li> <li>• fsaxVrflpv6AddrPrefixTable</li> <li>• fsaxVrflpv6NetToMediaTable</li> <li>• fsaxVrflpv6FwNoTable</li> <li>• fsaxVrflpv6FwTable</li> </ul> If SNMP GET requests from the SNMP manager time out, increase the timeout value.
1241097	In the advanced script feature, even when the command authorization feature is enabled, all commands are permitted if none of the command authorization servers respond.
1241098	In the advanced script feature, if the “aaa authorization commands” configuration is set, the command authorization feature is enabled for scripts executed from a console session, even if the “aaa authorization commands console” configuration is not set.
1241099	In the advanced script feature, the “-W” parameter for the “python” operation command is ignored.
1241100	In the advanced script feature, the extension library “eventmonitor.get_exec_trigger” used by applet scripts to retrieve trigger events fails.
1241101	VRRP does not work properly on Ethernet subinterfaces or port-channel subinterfaces.
1241102	If power supply units with different input voltages are mounted, or if AC and DC power supply units are mixed, the following system messages, which should normally be output, are not output: <ul style="list-style-type: none"> <li>• S3 PS 01202006 A mix of AC and DC power supply units are mounted.</li> <li>• S3 PS 01202007 A mix of AC 100 V and AC 200 V power supply units are mounted.</li> </ul>



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