



Software Release Note
NebulaFlex Switch GS1920V2 Series

Date: Apr. 18, 2023

Zyxel NebulaFlex Switch GS1920V2 Series

V4.80(AB__.0)C0 Release Note

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This document describes the features in the GS1920V2 for its 4.80(AB__.0)C0 release.

GS1920V2 series is a hybrid switch with NebulaFlex technology to support operation in either Standalone mode or Nebula cloud management mode.

Supported Platforms

Support Platform	Firmware version	Boot Version
Zyxel GS1920-8HPv2	V4.80(ABKZ.0)C0	V1.00 04/12/2018
Zyxel GS1920-24v2	V4.80(ABMH.0)C0	V1.00 04/12/2018
Zyxel GS1920-24HPv2	V4.80(ABMI.0)C0	V1.00 04/12/2018
Zyxel GS1920-48v2	V4.80(ABMJ.0)C0	V1.00 04/12/2018
Zyxel GS1920-48HPv2	V4.80(ABMK.0)C0	V1.00 04/12/2018

New Feature and Enhancements

New Feature and Enhancements	Cloud	Standalone
1. Renovate Web GUI layout for better usability of Switch management.	V	V
2. Intuitive Cloud connection status with help message.	V	V
3. Strengthen security for network management with built-in notification in case of abnormal login attempt.	V	V
4. Provide time-stamp on filename title when backup configuration file.	V	V
5. Supports "Account Security" option on WEB GUI to encrypt admin / user account password and options to display user/AAA/SNMP credentials.	-	V

New Feature and Enhancements	Cloud	Standalone
6. Support auto configuration recovery on Nebula to prevent loss connection with NCC by misconfiguration.	V	-
7. The year of Time Range page starts with current system time.	V	V
8. Nebula Switch supports SSH connection to access command line for debugging.	V	V
9. Supports auto STP path cost which will determine path cost by the port's current link speed.	-	V
10. Support user uses "setup.zyxel.com" directly to access local web GUI.	V	V
11. NCC discovery adds reminder to save configurations.	-	V
12. Strengthen user security with the encryption of TACACS+ & Radius shared secret.	-	V
13. Extend RADIUS server support range from IPv4 to IPv6	-	V
14. Enhance Guest VLAN to isolate broadcast packets between VLANs.	-	V
15. Add note on cable diagnostics to inform the operating limits for local web GUI.	-	V
16. Provide the Nebula password reminder on login page of web GUI.	V	-
17. Nebula Switch supports IP source guard(IPSG) to prevent IP spoofing attacks	V	-
18. Support MAC authentication by cloud authentication on NCC.	V	-
19. Support IGMP Report Proxy setting	V	V
20. Support Dynamic VLAN assignment through 802.1x authentication.	V	V

New Feature and Enhancements	Cloud	Standalone
21. The interval time of Loop errdisable recovery can be configured now.	V	V

Bug fix

Bug fix	Cloud	Standalone
1. [eITS #221101865] Fixed IOP issue on the specific 1G-NIC will link on 10M when using auto-negotiation.	V	V
2. [eITS #221100146] LACP configuration may leads switch not handle the 802.1x authentication.	V	V
3. [eITS #221101240] Fix recording syslog may cause memory leak.	V	V
4. [eITS #221101132] After restoring config via SFTP may cause fail due to syntax error.	V	V
5. [eITS #230400140] Fix the crash issue caused by Nessus tool scan.	V	V

Known Issue

Known Issue	Cloud	Standalone
1. [Bandwidth Control] Ingress rate limit of TCP traffic is inaccurate when value limits above 300M.	V	V
2. [IP source guard] Create an IP static binding first, and then send an illegal IP traffic with the same MAC address but different IP address. The illegal IP traffic cannot be filtered.	-	V
3. [Diagnostic] The accuracy of cable diagnostic is +-15m.	V	V

Known Issue	Cloud	Standalone
When without cables, the value of distance to fault would not be 0.		
4. [Diagnostic] Does not support to diagnose 10M-Full Duplex, "unknown" message will appear.	√	√
5. [GS1920-48HP, PoE] To change PoE configuration may take seconds to effect.	-	√
6. [Cluster] The switch cannot access cluster member when cluster member's password been encrypted.		√
7. [Link aggregation] Link aggregation only can use 4 criteria at the same time. Trunks using the fifth criteria won't link up.		√

Limitation of Settings:

Limitation of Setting	Cloud	Standalone
1. 802.1Q Static VLANs	1K	1K
2. Static MAC forwarding entry	-	256
3. MAC filtering entry	256	256
4. Cluster member	-	24
5. Port-security max address-limit number	16K	16K
6. Syslog server entry	2	4
7. MAC table	16K	16K
8. Multicast group	1K	1K
9. ACL	128	256
10. DHCP Relay Entry	-	16
11. Static ARP entry	-	256
12. Static route max entry	-	32
13. Trunk groups	5/14/16	5/14/16
14. Per trunk group port number	8	8
15. MSTP instance	-	0-16
16. Voice VLAN OUI entry	6	6

Limitation of Setting	Cloud	Standalone
17. Vendor-ID based VLAN	8	8
18. MAC-based VLAN	-	50
19. ZON neighbor per-port maximum clients	10	10
20. IP source guard	128	512

Change History

- V4.80(AB__.0) | 04/18/2023
- V4.70(AB__.8) | 10/14/2022
- V4.70(AB__.7) | 08/26/2022
- V4.70(AB__.6) | 03/07/2022
- V4.70(AB__.5) | 12/15/2021
- V4.70(AB__.4) | 06/18/2021
- V4.70(AB__.3) | 06/01/2021
- V4.70(AB__.2) | 03/15/2021
- V4.70(AB__.1) | 01/20/2021
- V4.70(AB__.0) | 08/04/2020
- V4.60(AB__.0) | 10/10/2019