ZYXEL

Software Release Note
NebulaFlex Switch XS3800 Series

Date: Jul. 15, 2022

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V4.80(ABML.0)C0 Release Note

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This document describes the features in the XS3800 series for its 4.80(ABML.0)C0 release.

XS3800 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 XS3800-28	V4.80(ABML.0)C0	V3.00	06/14/2019

New Feature and Enhancements

	New Feature and Enhancements	Cloud	Standalone
1.	Renovate Web GUI layout for better usability of Switch management.	V	V
2.	Support search bar on local Web GUI.	V	V
3.	Strengthen security for network management with built-in notification in case of abnormal login attempt.	V	V
4.	Support Flex link as a pair of Layer 2 interfaces for link redundancy.	-	V
5.	Support "Account Security" option on WEB GUI to encrypt admin/user account password and options to display user/AAA/SNMP credentials.	V	V
6.	Nebula Switch supports IP source guard (IPSG) to prevent IP spoofing attacks.	V	-
7.	Support Auto configuration recovery on Nebula to prevent loss connection with NCC by misconfiguration.	V	-

	New Feature and Enhancements	Cloud	Standalone
8.	Intuitive Cloud connection status with help message.	V	V
9.	Unlock CLI to support full configuration in cloud mode (managed switches only).	V	-
10.	Nebula Switch supports SSH connection to access command line for advanced features.	V	-
11.	Support OSPF network type broadcast/point-to-point.	-	V
12.	Support redistributing "Connected" interface subnet to OSPF database directly.	-	V
13.	Support IPv6 Interface Route Prefix to 128.	-	V
14.	Allow to change the IP address from DHCP to static type directly for Layer 3 switch.	V	V
15.	Support user uses "setup.zyxel.com" directly to access local web GUI.	V	V
16.	Support auto STP path cost which determines path cost by the port's current link speed.	-	V
17.	Strengthen user security with the encryption of TACACS+ & Radius shared secret.	-	V
18.	Extend RADIUS server support range from IPv4 to IPv6.	-	V
19.	Enhance Guest VLAN to isolate broadcast packets between VLANs.	-	V
20.	Supports IP failover function by setting backup default route.	-	V
21.	Support Smart Fan Control.	V	V
22.	SNMP is disabled by default.	V	V
23.	Disable insecure_SSL_cipher of HTTPs to enhance security.	V	V
24.	The year of Time Range page starts with current system time.	V	V

Bug fix

	Bug fix	Cloud	Standalone
1.	[eITS#210401140] The Port description of neighbor switch has unrecognized character. When NCC server gets LLDP information form Nebula switch, the connection between Nebula switch and NCC server will be disconnected.	V	-
2.	[eITS#210500522] Every time, switch updates igmp-snooping client statistic may cause reboot due to memory leak.	V	V
3.	[eITS#210501222] Web GUI login page may encounter display error or problem to display proper login page when Switch is under concurrent TCP ping task.	-	V
4.	[eITS#210900900] Nebula CC may display incorrect ports' TX/RX data.	V	-
5.	[eITS#210701300] Switch supports IGMPv3 packet for source-type of "block source" parameter.	-	V
6.	[eITS#211100996] Compound authentication loose mode combined with MAC-authentication should allow traffic to proper VLAN upon authentication approval, it currently moves all traffic to guest VLAN regardless of authentication status.	-	V
7.	[eITS#220400279] Modify switch DNS re-query behavior to prevent NCC displays 0.0.0.0 LAN IP address and	V	-

	Bug fix	Cloud	Standalone
	online status on switch monitor page.		
8.	[eITS#220400686] Allow to configure an existed IPv4 address to a different VLAN via wizard on Networked AV mode.	-	V
9.	[eITS#220500960] Enabling and disabling 802.1x or Guest VLAN on an unauthenticated or empty switch port causes all authenticated ports to disconnect.	V	V

Known Issue

Known Issue	Cloud	Standalone
1. ACL policy rule's priority and 802.1p queue (in Basic setting -> Port Setup) action should be combined to take effect.	-	V
2. ACL cannot support configuration of layer 4 socket port range when using IPv6.	-	V
3. Fiber ports 21-28 cannot support port speed mode: Auto-Negotiation 1000M.	V	V
4. SFP transceiver incompatible with delta LCP-1250RJ3SR-S.	V	V
5. Check illegal ARP packets and illegal IP packets should be dropped while enable IPSG, port security and LACP.	-	V
6. DHCP discover packets would be incorrectly flooded to other ports in case of enabling ARP Inspection + DHCP Snooping + Ingress Check + Port Security simultaneously.	-	V
7. Alignment error packet count error on boundary packet size.	V	V
8. Queuing method using WRR or WFQ queue based traffic rate is correct, but multiple traffic mapping to same queue, those traffic rate won't be balanced.	V	V
9. Change the IP source guard mode, the ARP Inspection Filter table cloud not be flushed.	-	V
10. 10G port throughput can't reach full rate when the traffic is go through stacking port because control packets occupy few bandwidth.	-	V
11. Plugin 1000T transceiver without cable, port will link up when set to 1000-full.	V	V

Known Issue	Cloud	Standalone
12. The cable diagnostic result may not be accurate.	V	V

Limitation of Settings:

	Limitation of Setting	Cloud	Standalone
1.	VLAN1Q static entry	1k	4k
2.	Static MAC forwarding entry	-	256
3.	MAC filtering entry	256	256
4.	Cluster member	-	24
5.	IP routing domain	128	128
6.	IGMP Filtering entry	256	256
7.	IGMP MVR entry	-	256
8.	VRRP entry	-	64
9.	Protocol based VLAN entries per port	-	7
10.	Port-security max address-limit number	32k	32k
11.	DHCP Server	-	16
12.	Syslog server entry	2	4
13.	IP source guard entry	128	1k
14.	IP subnet based VLAN entry	-	16
15.	MVR VLAN entry	-	5
16.	VLAN-stacking Selective QinQ entry	-	1k
17.	VLAN -mapping entry	-	1k
18.	MAC table	32k	32k
19.	Routing table	2k	2k
20.	DHCP snooping binding table	-	16k
21.	Multicast group	1k	1k
22.	ACL	128	512
23.	Policy route	-	64
24.	DHCP option 82 profile	-	130
25.	Remote port monitoring vlan	-	10
26.	Static ARP entry	-	256
27.	Static route max entry	64	64
28.	MAC-based VLAN	-	1k

Limitation of Setting	Cloud	Standalone
29. Voice VLAN OUI entry	6	10
30. ZON neighbor per-port maximum clients	-	10
31. IPv6 Source Guard binding table	-	100
32. Queue	6	8

Change History

- V4.80(AMBL.0) | 07/15/2022
- V4.70(AMBL.1) | 03/23/2021
- V4.70(AMBL.0) | 10/12/2020
- V4.60(AMBL.3) | 09/12/2019
- V4.60(AMBL.2) | 05/30/2019
- V4.60(AMBL.1) | 01/04/2019