

N Series & NC8200-4TD Switches FSOS Software Release Notes

Models: N5860-48SC; N8560-48BC; N8560-64C; NC8200-4TD

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1. Version Information

Basic Information

Version Number	N8560_FSOS11.0(5)B9P101
Products	N5860-48SC; N8560-48BC; N8560-64C; NC8200-4TD
Version Type	Official Version
Applicable Customers	Data Center Customers
Release Date	2021-07-01
Baseline Version	N8560_FSOS11.0(5)B9P66S2

Use the show version command to view the version number, an example is as follows:

```
FS#show version detail
System description      : FS Data Center Switch(N5860-48SC) By FS.COM Inc
System start time      : 2021-07-01 21:56:48
System uptime         : 0:00:04:17
System hardware version : 1.0B
System software version : N5860_FSOS 11.0(5)B9P101
System patch number    : NA
System software number  : M04492207012021
System serial number    : 1234942573312
System boot version     : 1.3.12.b847872(210513)
System core version     : 2.6.32.c557c0167b79c0
System cpu partition    : 3
Module information:
  Slot 0 : N5860-48SC
    Hardware version    : 1.0B
    Boot version        : 1.3.12.b847872(210513)
    Software version     : N5860_FSOS 11.0(5)B9P101
    Software number      : M04492207012021
    Serial number        : 1234942573312
FS#
```

2. Bug Fixes

2.1 11.0(5)B9P101

Based on B9P66S2 newly added to solve the following problems

1. Solve the problem of the VSU host interruption failure after the upgrade.
2. Solve the problem that packet capture does not open the AP port to capture packets.
3. Solve the problem of high fan speed caused by module compatibility.
4. Solve the problem that the main test and auxiliary test are configured with three-layer sub-interfaces, and the direct connection cannot be connected.

5. Solve the problem of two cap timeouts caused by restarting the copy machine 100 times.
6. Solve the problem that border disconnects all VSL links, BGP is disconnected, and VSU cannot converge quickly after splitting, resulting in disconnection
7. Solve the problem of [vsl link restriction] box-type equipment needs to limit the vsl link to less than 20.

Notice: After the revision, because the old version does not have the limitation of 20 VSL ports, if more than 20 VSL ports are configured before upgrading to the new version, after upgrading the new version, according to the order of the configuration files, the configuration of the VSL ports after 20 will be changed. Was lost. May cause loops and topology splits

8. Solve the problem that the OR port learns 1000 arps incremented by the first 24 high-bit macs, and then modify the arp's mac (the first 24 high-bit macs are different from the 1000 previously learned), and the subsequent equipment learns that the arp can only be sent to the ALPM table , The problem that affects the capacity of the next hop.
9. Solve the problem of ssa coredump when the OR port learns the 256 arps of the first 24 high-bit mac increments, and then modifies one of the arp macs (the first 24 high-bit macs are different from the 256 previously learned), the device will have an ssa coredump problem.
10. Solve the problem that the nsm process restarts and coredump occurs when the active and standby static routes are deleted after the frr is installed.
11. Solve the problem that BGP write warn file to limit the file size does not take effect, resulting in more and more flash occupancy.
12. Solve the problem of opening vxlan tunnel traffic statistics, the total number of tunnels is 154, after the tunnel oscillates, there is a problem that 6 tunnels cannot count the traffic.
13. To solve the overlay+mLAG scenario, the device receives the arp unicast request packet of the anycast-gateway-mac configured for the machine with the destination mac, and forwards the packet, the arp unicast flooding problem.
14. Solve the problem that VRF static routing may fail to be configured and prompt "% Invalid nexthop address. (It's this router).".
15. Solve the problem that the configuration of ip route vrf vrf1 20.1.10.0 255.255.255.0 60.1.1.1 points to a static tunnel, and the Layer 3 traffic with dip of 20.1.10.1-100 sent from the ac port cannot be forwarded.
16. Solve the problem of ECMP-FRR scenario, residual ibgp routing at the bottom layer, and inconsistency between the upper and lower layers.
17. Solve the problem of configuring the layer 2 sub-interface of the peerlink port to enable the address learning capability of the peerlink port (theoretically, the peerlink port has no address learning capability).
18. Solve the problem that the function commands that are not supported by the Layer 2 sub-interface need to be shielded.
19. Solve the problem of MLAG VXLAN scenario where vni is greater than 4094 and vxlan mac cannot be synchronized to the remote end of mlag.
20. Solve the problem of LACP docking with friends, causing the M56 LC02 to experience abnormal packet sending and receiving on the slot3 port, resulting in a 15-minute interruption problem.
21. Solve the problem of DCN3.0 SSH remote probabilistic timeout.
22. Solve the problem that device SNMP-trap messages do not meet expectations.
23. Solve the problem that the traffic statistics of the device sub-interfaces may have an excessively large value.
24. Solve the problem of configuration loss when the master-slave switchover occurs when the agg port is configured with speed, duplex, flowctrl, and nego mode when the member ports of the agg port are all independent ports.

25. Solve the problem of the centralized VXLAN scenario where the TOR device abnormally learns the local MAC table entry as the gateway device MAC, which causes the bridge device network to be abnormal.
26. Solve the problem of the centralized VXLAN scenario where the TOR device abnormally learns the local MAC table entry as the gateway device MAC, which causes the bridge device network to be abnormal.
27. Solve the problem that after the mac-address is configured on the layer 3 interface, the VSU cannot be pinged through the direct connection after the master-slave switch.
28. Solve the problem of multiple CLI commands (show cpu-pro, show int trans) stuck in the URPF+RATE-LIMIT overlay scenario after the device is turned on.
29. Solve the problem that show power shows that the power status is still ok when there is no current in the power supply.
30. Solve the problem of LACP oscillation on multiple ports of WC equipment, causing service traffic interruption for about 5 minutes.
31. Solve the problem of abnormal reset during operation and the stack display as NMI.
32. Solve the problem that the memory utilization rate of CUF equipment periodically increases from 20% to about 90% and then drops back to 20%.
33. Solve the problem of configuring acl under vty, returning to the global after the execution fails, configuring acl in the global, it needs to be modified, and not returning to the previous configuration.
34. Solve the problem of stand-alone access to the AOC module. The device at_cli is displayed as a copper problem.
35. Solve the problem of multi-protocol vrf ipv6 routing in the global routing table after the MGMT port is first bound to single-protocol vrf and then multi-protocol vrf is configured.
36. Solve the problem that the mac cannot be learned, the mapping relationship between the underlying vlan and vxlan is lost, and the subinterface is replaced.
37. Solve the problem that the CPLD register that controls the port TX enable and port lighting is rewritten.
Notice:It is not enabled by default, and the command is enabled: cpld repair enable
38. Solve the problem that the device system name displayed by the show lldp nei command needs to be displayed in one line, and a space needs to be reserved between the device system name and the interface name.
39. Solve the problem that the dut3-TC7 host modifies the mac, the dut4 remote bgp l2vpn evpn entry has been updated, and the dut4 arp pickup entry is not updated. The mac is still old, causing the remote tester to learn the old mac forwarding abnormally.
40. Solve the vxlan host migration conflict, and the problem of EFMP coredump appears after copying the machine for 12 hours.
41. Solve the problem of repairing the abnormal memory problem of the bridge process.
42. Solve the problem that the port vxlan mode access under the second layer sub-interface issued by netconf returns OK, and the actual cli is not only supported.
43. Solve the problem of tacacs original address priority.
44. Solve the problem that the device keeps restarting and reporting coredump errors.
45. Solve the problem that BGP memory is occupied by too much memory and is killed by the LMK module after triggering the system memory waterline.
46. Solve the problem that the DSCP value of the BGP ipv6 protocol packet is inconsistent with the ipv4 protocol packet.

3. Upgrade Instructions

Upgrade File

To upgrade the device to this version or downgrade to this version, you need to use the following upgrade file.

Applicable Products	Upgrade File	
N5860-48SC、N8560-48BC、 N8560-64C、NC8200-4TD	[Upgrade File]	N8560_FSOS11.0(5)B9P101_install.bin
	[File Description]	installation package
	[File Size]	208257599 bytes
	[MD5 Value]	a4e62be1391e86512c50f8e0a719f087



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