



9920 v21.2.2.1 Release Notes

New Features, Bug Fixes, and Known Limitations

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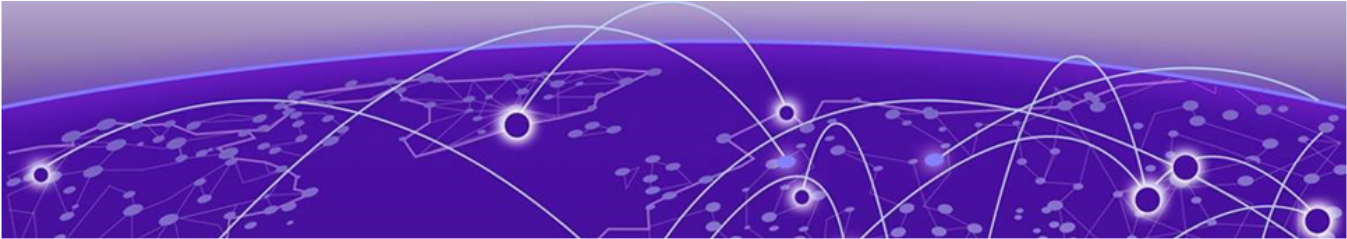


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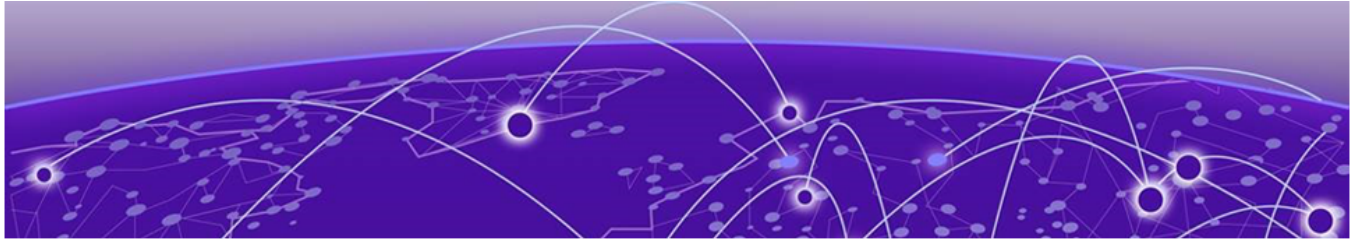
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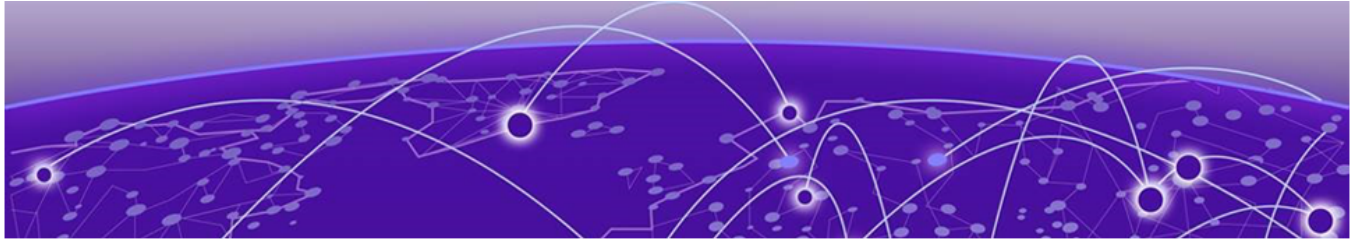
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Abstract

The 9920 Release Notes for version 21.2.2.1 details known limitations and defect resolutions for the 9920 platform. Known limitations include issues like GRE tunnel encapsulation failing to support MPLS packets, SNMP linkUp/linkDown traps being generated during system upgrades, overwriting of mirror sessions and packet capture, and 100G-DR, FR optical transmissions. This release is critical for network administrators optimizing 9920 systems, addressing functionality and improving operational stability.



Release Notes

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The NPB software runs the NPB operating system and provides network packet broker functions.

New in this Release

Version 21.2.2.1 of the Extreme 9920 software with the NPB application offers defect fixes.

For more information, see:

- [Extreme 9920 Software Configuration Guide, 21.2.2.0](#)
- [Defects Closed With Code Changes](#) on page 7

Commands

There are no new or modified commands in this release.

Known Limitations

Two cold start traps

Occasionally, the trap receiver gets two SNMP cold start traps from the 9920 device, even though the 9920 device is reloaded only once.

GRE tunnel encapsulation does not support MPLS packets

When an MPLS packet is subjected to GRE encapsulation, the protocol ID in the GRE header is set to 0.

Listener policy byte count is incorrect when truncation is enabled

On Extreme 9920 devices, the byte count for truncated packets is the actual byte count seen by the egress ACL before truncation.

GRE version-1 packets are not filtered with the 'network-id-type:NETWORK_ID_TYPE_GRE' rule

The rule filters the GRE version-0 packets.

Scale limitation of 2000 ingress groups is not achieved in a certain configuration

When both transport tunnels and ingress groups are configured, some of the non-transport ingress groups are not stored in the hardware table. Ingress groups that are not in the hardware table are not counted toward the scale limit.

Filtering by the authentication header is not supported

You cannot configure ACLs for IP ESP (Encapsulating Security Payload) that filter for the authentication header.

MAC ACL counters are incremented when traffic matches IPv4, IPv6, and MAC ACLs

If multiple matches, in different ACL types, are on permit rules, only the match in the highest-preference type is implemented. Lower-preference matches are ignored. The preference order is Layer 3 > Layer 2. The counters are incremented for all the matching ACLs because they indicate that a match is found.

Matching packets based on IGMP group address for both IPv4 and IPv6 is not supported

You cannot configure ACL rules to match packets based on the IGMP group address for both IPv4 and IPv6.

Transport tunnel termination is supported only for ERSPAN Type II

Transport tunnel termination considers only ERSPAN Type II headers for termination and does not consider any specific SPAN-ID to terminate and further classify the flows.

Device links are not operational for 100G LR4 optic with FEC mode set to auto

To enable the links between Extreme 9920, SLX 9140, and SLX 9240 devices to be operational with 100GBASE-LR4 optics, configure one of the following

- Disable FEC on Extreme 9920 devices.
- Enable RS-FEC on SLX devices when the peer side FEC configuration is set to auto.

IPv6 packets with extension headers cannot be matched, filtered, or forwarded

On Extreme 9920 devices, IPv6 packets with extension headers cannot be matched, filtered, or forwarded on standard TCP or UDP protocols.

Multiple SNMP linkUp or linkDown traps are generated during SNMP upgrade

This situation occurs when you upgrade the SNMP service with the **system service update** command. These traps do not impact functionality and there is nothing you need to do.

Overwriting of mirror sessions and packet capture due to ASIC behavior

A mirror session programmed at one stage will be overwritten by a subsequent stage if the packet matches an entry in the table. Onboard PCAP capture of ACL will overwrite packet capture of ingress interface and tunnel based captures.

100G-DR, FR optical transmission

The 100G-DR, FR uses a single laser and operates with PAM4 modulation at 53.125 Gb on the optical side. Since PAM4 encodes 2 bits per symbol, this results in a 100G transmission rate. Channels 2, 3, and 4 should remain inactive, so the tx, rx, and txbias data will show proper values for channel 1, and either infinity or 0.00 for channels 2, 3, and 4.

Defects Closed With Code Changes

The following defects were closed with code changes in the 21.2.2.1 release of the software.

Parent Defect ID:	NPB-6212		
Severity:	S2 - Major		
Product:	NPB	Reported in Release:	NPB 21.1.2.7
Symptom:	When NPB is upgraded to 21.1.2.7, the traffic is stopped on the egress interface. This issue is due to errors observed during port initialization.		

Parent Defect ID:	NPB-6321		
Severity:	S3 - Moderate		
Product:	NPB	Reported in Release:	NPB 21.1.2.7
Symptom:	show logging file command with include filter does not show all the matching data, some data might be missing.		
Condition:	When the log file contains binary data		

Parent Defect ID:	NPB-6323		
Severity:	S3 - Moderate		
Product:	NPB	Reported in Release:	NPB 21.1.2.7
Symptom:	Cold start trap not received by trap host		
Condition:	NPB 9920 device reload		

Parent Defect ID:	NPB-6324		
Severity:	S3 - Moderate		
Product:	NPB	Reported in Release:	NPB 21.2.2.0
Symptom:	The FPGA Version field is not updated properly. Does not show the fpga version		
Condition:	This generally happens when the fpga version read fails before boot.		

Parent Defect ID:	NPB-6327		
Severity:	S3 - Moderate		
Product:	NPB	Reported in Release:	NPB 21.2.2.0

Symptom:	The "got usage" log is a debug log that is logged by a periodic function repeatedly cluttering the log file.		
Condition:	Normal runtime logging.		
Parent Defect ID:	NPB-6331		
Severity:	S2 - Major		
Product:	NPB	Reported in Release:	NPB 21.1.2.7
Symptom:	The interface counters stopped working after the switch is UP for many days		
Condition:	When the GRPC connection is failed between interface manager and stratum, the connection never recovered and counter polling stopped working.		

Defects Closed Without Code Changes

There are no defects closed without code changes in the 21.2.2.1 release of the software.

Open Defects

The following defects are open in this release of the software.

Parent Defect ID:	NPB-5182		
Severity:	S2 - Major		
Product:	NPB	Reported in Release:	NPB 21.1.1.0
Symptom:	Entity MIB item entPhysicalVendorType does not return any Vendor type OIDs, instead it just returns {0 0} when SNMP walk is performed.		
Condition:	This happens during SNMP walk of entPhysicalVendorType in the entity MIB.		

Parent Defect ID:	NPB-5188		
Severity:	S3 - Moderate		
Product:	NPB	Reported in Release:	NPB 21.1.1.0
Symptom:	"Link Fault Status" field in "Show interface ethernet" might show incorrect fault status.		
Condition:	"no shutdown" on the ethernet interface.		
Recovery:	No functional impact.		

Parent Defect ID:	NPB-5724		
Severity:	S3 - Moderate		
Product:	NPB	Reported in Release:	NPB 21.1.2.0
Symptom:	LACP port-channel remains down after replaying the configuration with LACP rate as 'fast' in the member interfaces.		

Condition:	The issue is seen when the LACP configurations are replayed with the node in default-configs. only when "lacp rate fast" is configured on member ports.		
Workaround:	If we reboot the system with config, it will work properly or change the "lacp rate normal", and after the port-channel comes up again, change it to "lacp rate fast" on member ports.		
Recovery:	Disable & enable lacp in the global config mode. ('no protocol lacp' & 'protocol lacp')		

Parent Defect ID:	NPB-6285		
Severity:	S3 - Moderate		
Product:	NPB	Reported in Release:	NPB 21.2.2.0
Symptom:	The 100G-DR, FR is a single laser. On the optical side it runs PAM4 at 53.125 Gb. PAM4 is 2 bits per symbol which gives you 100G. Channels 2,3 and 4 should be quiet. Hence tx, rx, txbias data shows proper for channel-1, inf or 0.00 on channel-2,3,4		

Parent Defect ID:	NPB-6302		
Severity:	S3 - Moderate		
Product:	NPB	Reported in Release:	NPB 21.2.1.0
Symptom:	Help string has to be updated to display the range from 1-4095. Documentation has been updated.		
Condition:	While configuring the ACL rules, the help string shows the priority range as 1-65535.		
Workaround:	Configure the rules with priority ranging from 1 to 4095.		
Recovery:	Configure the rules with priority ranging from 1 to 4095.		

Parent Defect ID:	NPB-6311		
Severity:	S3 - Moderate		
Product:	NPB	Reported in Release:	NPB 21.1.2.5
Symptom:	"show grpc-server gnmi statistics" command output does not indicate external IP address which originated the gnmi subscription request.		
Condition:	"show grpc-server gnmi statistics" command output always indicates internal IP address as the originator of GNMI subscriptions		

Parent Defect ID:	NPB-6313		
Severity:	S3 - Moderate		
Product:	NPB	Reported in Release:	NPB 21.2.2.0
Symptom:	For single lane optics, currently the 'show cli' command displays the media information for all the lanes.		

Condition:	This is applicable for single lane optics like FR and DR.		
Workaround:	Only the first lane data to be considered for single lane optics.		
Parent Defect ID:	NPB-6315		
Severity:	S3 - Moderate		
Product:	NPB	Reported in Release:	NPB 21.1.2.7
Symptom:	All line cards of NPB restarted randomly.		
Condition:	Issue happened with NPB box powered using DC PSU and there is voltage fluctuation causing all LCs to go down.		
Workaround:	Use 'system slot on' command to bring up the LC, if LCs are in Present state.		
Recovery:	All LCs recover when voltage is normal.		

Help and Support

If you require assistance, contact Extreme Networks using one of the following methods:

Extreme Portal

Search the GTAC (Global Technical Assistance Center) knowledge base; manage support cases and service contracts; download software; and obtain product licensing, training, and certifications.

The Hub

A forum for Extreme Networks customers to connect with one another, answer questions, and share ideas and feedback. This community is monitored by Extreme Networks employees, but is not intended to replace specific guidance from GTAC.

Call GTAC

For immediate support: (800) 998 2408 (toll-free in U.S. and Canada) or 1 (408) 579 2800. For the support phone number in your country, visit www.extremenetworks.com/support/contact.

Before contacting Extreme Networks for technical support, have the following information ready:

- Your Extreme Networks service contract number, or serial numbers for all involved Extreme Networks products
- A description of the failure
- A description of any actions already taken to resolve the problem
- A description of your network environment (such as layout, cable type, other relevant environmental information)
- Network load at the time of trouble (if known)
- The device history (for example, if you have returned the device before, or if this is a recurring problem)
- Any related RMA (Return Material Authorization) numbers

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