Cisco Nexus 3550-T NX-OS Release Notes, Release 10.2(3v)

Introduction

This document provides information about the currently supported network applications for the Nexus® 3550-T Programmable Network Platform. The product plan is to create and release new 3550 Series platform applications. The new network application releases will be communicated in the quarterly Cisco New Product Introduction (NPI) as they are released.

Note: The documentation set for this product strives to use bias-free language. For the purposes of this documentation set, bias-free is defined as language that does not imply discrimination based on age, disability, gender, racial identity, ethnic identity, sexual orientation, socioeconomic status, and intersectionality. Exceptions may be present in the documentation due to language that is hardcoded in the user interfaces of the product software, language used based on RFP documentation, or language that is used by a referenced third-party product.

Date	Description
July 13, 2023	Release 10.2(3v) became available.

New Software Features

The list of new features for the Cisco Nexus 3550-T switch, Release 10.2(3v) is here.

Product Impact	Feature	Description
Base Functionality	Dynamic NAT	Dynamic Network Address Translation (NAT) translates a group of real IP addresses into mapped IP addresses that are routable on a destination network. For details, see the Configuring Static and Dynamic NAT Translation chapter in the *Cisco Nexus 3550-T NX-OS Interfaces Configuration Guide, Release 10.2(x)*.
	Support for 1G	All 48 ports of the 3550-T chassis support speeds of 1G and 10G. For the supported optics, see the TMG Matrix. For details, see the *Cisco Nexus 3550-T Hardware Installation Guide*.
	Multicast Support Enhancements	Cisco Nexus 3550-T trunk ports support single configured PIM-enabled VLAN with Layer 3 egress multicast capability. For details, see the Multicast Configuration Overview chapter in the *Cisco Nexus 3550-T NX-OS Multicast Configuration Guide, Release 10.2(x)*.
	Support for UTC Offset Correction in HPT	High Precision Timestamping (HPT) now supports Coordinated Universal Time (UTC) offset correction. For details, see the Configuring High Precision Timestamping chapter in the *Cisco Nexus 3550-T NX-OS System Management Configuration Guide, Release 10.2(x)*.
Performance and Scalability	Scale Enhancements	Scale enhancements for this release are: • Increased Unicast / Multicast Scalability • Increased Port Channel Scalability

Product Impact	Feature	Description
		For details, see the *Cisco Nexus 3550-T NX-OS Verified Scalability Guide, Release 10.2(3v)*.

New Hardware Features

No new hardware was introduced for release 10.2(3v).

Open Issues

Click the bug ID to access the Bug Search tool and see additional information about the bug.

Bug ID	Description
CSCvy92285	Headline: Router-on-stick configuration L3 Unicast getting dropped.
	Symptoms: L3 Unicast traffic may get dropped in a corner-case scenario.
	Conditions: Traffic Ingresses and is expected to Egress out of the same L2 trunk Port-Channel interface after getting routed between SVIs.
	Workaround: None
CSCwc68101	Headline: N35-T-48X to N9K-C93180YC-FX Connections: Observing extra reset with reload on multiple links.
	Symptom: An extra interface reset is reported on a few interfaces on N35-T-48X post reload.
	Conditions:
	• At least one interface on N35-T-48X is connected to a N9K-C93180YC-FX.
	• N35-T-48X is reloaded.
	• An extra reset may be seen on the interface(s) connected to N9K-C93180YC-FX.
	Workaround: None
CSCwc98443	Headline: TypeError: unsupported operand type while collecting show tech detail.
	Symptom: A python script error may be seen on executing 'show tech-support detail'. The command continues to collect all the required logs from the system.
	Conditions: 'show tech-support details' command is executed.
	Workaround: None.

Resolved Issues

Click the bug ID to access the Bug Search tool and see additional information about the bug.

Bug ID	Description
CSCwa70130	**Headline:** Exablaze: L3 Routing across the ULL network in the Colo is unstable due to Mac out-of-sync issue. **Symptom:** Host to gateway (SVI IP) ping stops working after certain triggers **Conditions:** • Presence of a STP blocked port. • Triggers - Switch reload, STP root port failover. **Workaround:** Issue the 'clear mac address-table dynamic' command
CSCwb57272	**Headline:** N3550-T static NAT does not translate TCP flow. **Symptom:** TCP flow times out. **Conditions:** TCP flows is going via N3550-T doing static NAT. **Workaround:** N/A
CSCvz73310	**Headline:** Dynamic Nat Entries replicated when shutting L3backup Links in same quad leading to table exhaustion. **Symptom:** Primary link flap (shut/no shut) with NAT or ACL can cause NAT/ACL HW table exhaustion. **Conditions:** • Multiple backup l3 links configured with ACL or NAT and the rules are in the order of hundreds. • L3 Back up Links are configured on the same quad. **Workaround:** • Flap the L3 interfaces on which the ACL/NAT is configured. (or) • Unconfigure and configure ACL/NAT back on the L3 interface.

Known Issues

Click the bug ID to access the Bug Search tool and see additional information about the bug.

Bug ID	Description
CSCvz10166	**Headline:** SFP 1gig mgmt interface didnt come up. **Symptom:** Link does not come up when connected to the 1GbE SFP management port. Management connectivity is not established. **Conditions:** Any supported transceiver connected to the 1GbE SFP management port. **Workaround:** None. Use RJ45 port for management connectivity on N3550-T.
CSCwc54808	**Headline:** Unknown Multicast packets are not flooded to ports on same vlan. **Symptom:** Multicast packets received when "no ip igmp snooping" is configured are not flooded in the VLAN. **Conditions:** "no ip igmp snooping" configured on VLAN. **Workaround:** None

Bug ID	Description
CSCwe99005	Headline: When attempting to reach max. scale, some entries (100) missing in Hardware for L3 Unicast.
	Symptom: Layer 3 Unicast Traffic drop observed after device reload and route entries for those flows are missing in hardware.
	Conditions: The issue is specific to hardware scale boundary scenarios and will be observed only if the IP table utilization in hardware is above 90%.
	Workaround: None
CSCwf17986	Headline: Exablaze to n9k cloudscale (N9K-C93180YC-FX, N9K-C93180YC-EX TOR) switch 1gig link is not coming up.
	Symptom: Link not coming up when Nexus 3550-T switch is connected to a Nexus 9000 switch with 1G optics and interoperability scenario does not work.
	Conditions: The issue is seen only with the following pre-conditions:
	• Nexus 3550-T device connected to Nexus 9000 (or other 3rd-party device) • The connection between those devices is thru 1G optics
	Workaround: The workaround is to disable auto-neg (no negotiation auto) and configure speed manually on Nexus 9000 switch connected to Nexus 3550-T device to get the 1G connection between those UP & running.

Optics

To determine which transceivers and cables are supported by a switch, see the Transceiver Module (TMG) Compatibility Matrix. To see the transceiver specifications and installation information, see the Install and Upgrade Guides.

Cisco Network Insights for Data Center

Cisco NX-OS Release 10.2(3v) supports the Cisco Network Insights on Cisco Nexus 3550-T platform switches. For more information, see the Cisco Network Insights documentation.

Upgrade and Downgrade

To perform a software upgrade to release 10.2(3v), follow the instructions in the *Cisco Nexus 3550-T Software Upgrade and Installation Guide, Release 10.2(3v)*.

Documentation Feedback

To provide technical feedback on this document, or to report an error or omission, send your comments to nexus3k-docfeedback@cisco.com. We appreciate your feedback.

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