RUCKUS
COMMSCOPE

FastIron 10.0.00 for RUCKUS ICX Switches Release Notes Version 2

Supporting FastIron Software Release 10.0.00

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Contents

Document History

Version	Summary of changes	Publication date
FastIron 10.0.00 for ICX Switches Version 1	- New software features and enhancements - Known and Resolved issues	November 07, 2022
FastIron 10.0.00 for ICX Switches Version 2	- ICX 8200 hardware availability - LRM optics support for ICX 7550 devices - New ICX 8200 software features and enhancements - Known and Resolved issues	December 15, 2022

Introduction

About RUCKUS FastIron Release 10.0.00

NOTE
Beginning with FastIron release 10.0.0, a switch ("Layer 2") image will no longer be provided for ICX devices. Only the router ("Layer 3") image will be available. On upgrade to FastIron 10.0.00, the configuration of any ICX devices operating with the switch image will automatically be translated to the equivalent router image configuration.
The following features are deprecated as a result of this change:

- The IP default gateway

- The management VLAN

- Global configuration of the IP address (Going forward, the IP address must be configured at the interface level for each port.)
Refer to the *RUCKUS FastIron Software Upgrade Guide* for additional details.

RUCKUS FastIron release 10.0.00 introduces the RUCKUS ICX 8200 Series of switches.

FastIron release 10.0.00 introduces several new features and manageability enhancements. Key additions include the following:

- Stacking support for the new ICX 8200 Series switches

- Downloadable ACLs from RADIUS

- DDOS features for ICX 8200 switches

- First packet forwarding for IGMP and MLD snooping

- Short-path-forwarding feature introduced for IPv6 Virtual Router Redundancy Protocol Extended (VRRP-E)

- IPv6 support over MCT

- ICX Power over Ethernet (PoE) Oversubscription

- Precision Time Protocol (PTP) and Precision Time Protocol-Transparent Clock (PTP-TC) Packet Prioritization on ICX7650-48P, ICX7550-24/48/48P/48ZP/48F, and ICX7850-48C switches

- Dynamic VLANs increased to 32 per client

- For VLAN-based mirroring, the maximum number of monitor-configured VLANs increased from 8 to 256.

Refer to Software Features on page 11 for a detailed list of features and enhancements in the Fastron 10.0.00 release.

Document Feedback

RUCKUS is interested in improving its documentation and welcomes your comments and suggestions.

You can email your comments to RUCKUS at #Ruckus-Docs@commscope.com.

When contacting us, include the following information:

- Document title and release number
- Document part number (on the cover page)
- Page number (if appropriate)

For example:

- RUCKUS SmartZone Upgrade Guide, Release 5.0
- Part number: 800-71850-001 Rev A
- Page 7

RUCKUS Product Documentation Resources

Visit the RUCKUS website to locate related documentation for your product and additional RUCKUS resources.

Release Notes and other user documentation are available at https://support.ruckuswireless.com/documents. You can locate the documentation by product or perform a text search. Access to Release Notes requires an active support contract and a RUCKUS Support Portal user account. Other technical documentation content is available without logging in to the RUCKUS Support Portal.

White papers, data sheets, and other product documentation are available at https://www.commscope.com/ruckus .

Online Training Resources

To access a variety of online RUCKUS training modules, including free introductory courses to wireless networking essentials, site surveys, and products, visit the RUCKUS Training Portal at https://commscopeuniversity.myabsorb.com/. The registration is a two-step process described in this video. You create a CommScope account and then register for, and request access for, CommScope University.

Contacting RUCKUS Customer Services and Support

The Customer Services and Support (CSS) organization is available to provide assistance to customers with active warranties on their RUCKUS products, and customers and partners with active support contracts.

For product support information and details on contacting the Support Team, go directly to the RUCKUS Support Portal using https://support.ruckuswireless.com, or go to https://www.commscope.com/ruckus and select **Support**.

What Support Do I Need?

Technical issues are usually described in terms of priority (or severity). To determine if you need to call and open a case or access the self-service resources, use the following criteria:

- Priority 1 (P1)—Critical. Network or service is down and business is impacted. No known workaround. Go to the **Open a Case** section.
- Priority 2 (P2)—High. Network or service is impacted, but not down. Business impact may be high. Workaround may be available. Go to the **Open a Case** section.
- Priority 3 (P3)—Medium. Network or service is moderately impacted, but most business remains functional. Go to the **Self-Service Resources** section.
- Priority 4 (P4)—Low. Requests for information, product documentation, or product enhancements. Go to the **Self-Service Resources** section.

Open a Case

When your entire network is down (P1), or severely impacted (P2), call the appropriate telephone number listed below to get help:

- Continental United States: 1-855-782-5871

- Canada: 1-855-782-5871

- Europe, Middle East, Africa, Central and South America, and Asia Pacific, toll-free numbers are available at https://support.ruckuswireless.com/contact-us and Live Chat is also available.

- Worldwide toll number for our support organization. Phone charges will apply: +1-650-265-0903

We suggest that you keep a physical note of the appropriate support number in case you have an entire network outage.

Self-Service Resources

The RUCKUS Support Portal at https://support.ruckuswireless.com offers a number of tools to help you to research and resolve problems with your RUCKUS products, including:

- Technical Documentation—https://support.ruckuswireless.com/documents

- Community Forums—https://community.ruckuswireless.com

- Knowledge Base Articles—https://support.ruckuswireless.com/answers

- Software Downloads and Release Notes—https://support.ruckuswireless.com/#products_grid

- Security Bulletins—https://support.ruckuswireless.com/security

Using these resources will help you to resolve some issues, and will provide TAC with additional data from your troubleshooting analysis if you still require assistance through a support case or RMA. If you still require help, open and manage your case at https://support.ruckuswireless.com/case_management.

New in This Release

Hardware

The following new switch models were introduced in FastIron release 10.0.00:

- ICX 8200-24
- ICX 8200-24P
- ICX 8200-48
- ICX 8200-48P
- ICX 8200-48PF
- ICX 8200-48PF2
- ICX 8200-C08PF

Support for ICX LRM adapters was added on RUCKUS ICX 7550 devices.

Software Features

The following section lists new, modified, and deprecated software features in release 10.0.00.

New Software Features in 10.0.00

NOTE
Features introduced in FastIron release 09.0.10d are not supported in FastIron release 10.0.00 but will be supported in FastIron release 10.0.10.[1]

The following software features and enhancements are introduced in this release. Refer to the FastIron Features and Standards Support Matrix, available at www.ruckuswireless.com, for a detailed listing of feature and platform support.

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[1] Support for Network Segmentation, Dynamic Bootstrap Protocol (BOOTP) Support, DHCP - IP to Physical Port Mapping, VXLAN with Routing in and out of tunnels (RIOT), VXLAN - VXLAN Network Identifier (VNI) Scale Enhancement, VXLAN - VXLAN Remote Site Monitoring and Redundancy, and Proactive Monitoring of Cable Signal Errors and Logging

Feature	Description
Downloadable ACLs Sent from a RADIUS Server	User profiles configured with ACLs on a RADIUS server can be downloaded to an ICX device using Access-accept message attributes containing ACL filter statements. Refer to the *RUCKUS FastIron Security Configuration Guide*.
Expanded Maximum VLANs in Tunnel-Private-Group-ID	The maximum number of Tunnel-Private-Group-IDs has increased from 8 VLAN IDs to 32.
Defense against Distributed Denial of Services (DDOS) Attacks on ICX 8200 Switches	New commands are available on ICX 8200 switches for rate limiting TCP SYN and ICMP control traffic at the global or interface level to prevent Denial of Service (DOS) attacks. Several commands have also been introduced on ICX 8200 switches to drop irregular, suspect TCP SYN and ICMP control packets in order to prevent DOS attacks. Refer to the *RUCKUS FastIron Security Configuration Guide*.
ICX 8200 Stacking Support	All ICX 8200 switches introduced in this release can be connected in a stack of up to 12 units. Available stacking speeds for ICX 8200 devices are 10 Gbps and 25 Gbps. Refer to the *RUCKUS FastIron Stacking Configuration Guide*.
sFLOW Differences on ICX 8200 Switches	ICX 8200 devices support sFLOW sampling rate configuration only at the global level. ICX 8200 devices do not support the **sflow sample** command at the interface level. However, the **sflow enable** and **sflow forwarding** commands are supported at the interface level on ICX 8200 devices. On ICX 8200 switches, sFlow and mirroring cannot be configured on the same interface. Refer to the *RUCKUS FastIron Monitoring Configuration Guide*.
Multicast Snooping First Packet Forwarding	From this release, ICX switches will create IGMP/MLD snooping mcache when one of the following report messages is received: • IGMPv2/MLDv1 Report based *,G group creation • IGMPv3/MLDv2 INCLUDE(S) Report based (S,G) group creation This prevents the loss of the initial packets when multicast traffic arrives. Refer to the *RUCKUS FastIron IP Multicast Configuration Guide*.
IPv6 Virtual Router Redundancy Protocol Extended (VRRP-E) Enhancement	IPv6 VRRP-E short-path forwarding is introduced. Refer to the *RUCKUS FastIron Layer 3 Routing Configuration Guide*.
Precision Time Protocol-Transparent Clock (PTP-TC) Packet Prioritization	PTP-TC is supported on RUCKUS ICX 7550, ICX 7650, and ICX 7850 devices. Refer to the *RUCKUS FastIron Management Configuration Guide*.
Power over Ethernet (PoE) Oversubscription	The **inline power allocation dynamic** command was introduced for dynamic PoE management. Refer to the *RUCKUS FastIron Management Configuration Guide* and to the command page in the *RUCKUS FastIron Command Reference*.
Spanning Tree Protocol **show** command updates and new **clear** commands	Topology details at the VLAN and interface level have been added to certain **show** commands for Spanning Tree protocols (802.1D, 802.1W, MSTP). Related new **clear** commands for xSTP have also been introduced. Refer to the *RUCKUS FastIron Layer 2 Switching Configuration Guide* and to the *RUCKUS FastIron Command Reference* for specific command pages.
IPv6 Multicast NSR	Non-stop IPV6 multicast routing is supported during stack switchover or failover by keeping the software state on the active controller and standby controller in sync so that there is no disturbance in the multicast traffic during the transition of standby to active.

Feature	Description
IPv6 Support on Multi-Chassis Trunking (MCT)	IPv6 support on MCT has been added for the following: • VRRP-E • Show-path forwarding • IPv6 PIM Refer to the *RUCKUS FastIron Layer 2 Switching Configuration Guide* and the *RUCKUS FastIron Layer 3 Routing Configuration Guide.*
VLAN-Based Mirroring Ehancement	For VLAN-based mirroring, the maximum number of monitor-configured VLANs increased from 8 to 256. Refer to the *RUCKUS FastIron Monitoring Configuration Guide* for more information on VLAN-based mirroring.
ACL Scaling on ICX 8200 Switches	ACL scaling has been updated. Refer to "ACLs" in the *RUCKUS FastIron Security Configuration Guide.*
IPv6 User ACL Fragment Filtering on ICX 8200 Switches	ICX 8200 switches include only the first IPv6 packet fragments in access control list (ACL) rule matching. In contrast, other ICX devices include non-first fragments in rule matching. Refer to "ACLs" in the *RUCKUS FastIron Security Configuration Guide.*
TCAM Usage Show Command Differences on ICX 8200 Switches	ICX 8200 series switches exclusively use the **show access-list tcam stage-snapshot unit** *id* command instead of the **show access-list tcam slice-snapshot unit** *id* command used on other ICX switches. The **show access-list tcam stage-snapshot unit** *id* command is used to review hardware usage, where as the **show access-list tcam slice-snapshot unit** *id*command is used to view the rules configured in TCAM.

Important Changes in Release 10.0.00

The following changes were introduced in FastIron Release 10.0.00:

- Beginning with FastIron release 10.0.0, a switch ("Layer 2") image will no longer be provided for ICX devices. Only the router ("Layer 3") image will be available. On upgrade to FastIron 10.0.00, the configuration of any ICX devices operating with the switch image will automatically be translated to the equivalent router image configuration.

  The following features are deprecated as a result of this change:

  - The IP default gateway
  - The management VLAN
  - Global configuration of the IP address (Going forward, the IP address must be configured at the interface level for each port.)

  Refer to the *RUCKUS FastIron Software Upgrade Guide* for additional details.

- Release 10.0.00 and future releases do not support ICX 7150, ICX 7250, or ICX 7450 devices. FastIron 09.0.10 will be the last supported code stream for ICX 7150, ICX 7250, and ICX 7450 devices. Please check the product support page for a specific device for the current code recommendation.

- HTTPS-based Ruckus Cloud management and network segmentation introduced in FastIron release 09.0.10e are not supported in FastIron release 10.0.0 (including on ICX 8200 series switches). These features will be supported in FastIron release 10.0.10.

Refer to the Software Features on page 11 section for a list of new features in this release. Refer to the FastIron Features and Standards Support Matrix, available at www.ruckuswireless.com, for a detailed listing of feature and platform support.

Operational Notes

In some instances, RUCKUS ICX 7550 switches report the error "PoE severe error: Lost communication link with the PoE controller," and, as part of recovery, power on the ports is removed and added. As a result, PDs connected to the switch are power cycled.

In contrast, when RUCKUS ICX 8200 switches report the same error, the user must power cycle the switch unit itself to trigger recovery.

CLI Commands

The commands listed in this section were introduced, modified, or deprecated in FastIron release 10.0.00.

New Commands for FastIron 10.0.00

The following commands have been added (new for this release).

- **clear 802-1w statistics**
- **clear chassis unit-id**
- **clear mstp statistics**
- **clear span statistics**
- **inline power allocation dynamic**
- **ip icmp burst-max**
- **ip icmp icmp-fragments**
- **ip tcp burst-max**
- **ip tcp fin-urg-psh**
- **ip tcp over-mac-multicast**
- **ip tcp port-zero**
- **ip tcp syn-fin**
- **ip tcp syn-rst**
- **ip tcp tcp-all**
- **ip tcp zero-flags**
- **show ip multicast data-plane**
- **show ipv6 multicast data-plane**
- **show ipv6 pim counter**
- **show statistics dos-attack icmp**
- **show statistics dos-attack icmp fragments**
- **show statistics dos-attack tcp**

Modified Commands for FastIron 10.0.00

The following commands have been modified (updated for this release).

- **copy disk0 system-manifest**
- **copy tftp system-manifest**
- **forwarding-profile**

- **show 802-1w**

- **show ip multicast mcache**

- **show ip multicast vlan**

- **show ipv6 multicast mcache**

- **show ipv6 multicast vlan**

- **show ipv6 pim nsr**

- **show mstp**

- **show span**

- **system-max rmon-entries**

Deprecated Commands for FastIron 10.0.00

The following commands have been deprecated in this release.

- **area authentication (IPsec)**

- **area virtual-link authentication ipsec (OSPFv3)**

- **clear ipsec sa**

- **default-gateway**

- **default-ipv6-gateway**

- **description (IPsec)**

- **dlb-internal-trunk-hash**

- **esn-enable (IPsec)**

- **ip default-gateway**

- **ipv6 default-gateway**

- **ip multicast group upnp drop**

- **ip multicast-nonstop-routing**

- **ipsec profile**

- **ipsec proposal**

- **ipv6 ospf authentication ipsec**

- **ipv6 ospf authentication ipsec disable**

- **ipv6 ospf authentication ipsec spi**

- **lifetime (IPsec)**

- **logging enable ipsec**

- **logging enable ikev2**

- **management-vlan**

- **proposal (IPsec)**

- **qos monitor-queue-drop-counters**

- **qos-internal-trunk-queue**

- **replay-protection (IPsec)**

- **show dlb-internal-trunk-hash**

- **show ip multicast mac-cache**

- **show ipsec card-utilization**
- **show ipsec profile**
- **show ipsec proposal**
- **show ipsec sa**
- **show ipv6 multicast mac-cache**
- **show qos-internal-trunk-queue**
- **system-max l3-interface**
- **tunnel mode ipsec**
- **tunnel protection ipsec profile**
- **tunnel tos**
- **tunnel vrf**

RFCs and Standards

There are no newly supported RFCs or standards in FastIron release 10.0.00.

MIBs

The following MIBs were introduced or updated in FastIron release 10.0.00:

- License module:
  - snSAUICX8200SerialNumber
  - snSAUPoDLicensedSpeed
- Platform module:
  - snAgentPoeUnitEntry

Hardware Support

Supported Devices

The following devices are supported in FastIron release 10.0.00.

- ICX 7550 Series (ICX7550-24, ICX7550-48, ICX7550-24P, ICX7550-48P, ICX7550-24ZP, ICX7550-48ZP, ICX7550-24F, ICX7550-48F)

- ICX 7650 Series (ICX7650-48P, ICX7650-48ZP, ICX7650-48F)

- ICX 7850 Series (ICX7850-32Q, ICX7850-48FS, ICX7850-48F, ICX7850-48C)

- ICX 8200 Series (ICX8200-24, ICX8200-24P, ICX8200-48, ICX8200-48P, ICX8200-48PF, ICX8200-48PF2, ICX8200-C08PF)

Default Username and Password

New ICX switches that are initially deployed using 08.0.90 or later releases must be accessed using the following default local username and password:

- Default local username: super

- Default password: sp-admin

The default username and password apply to all forms of access including Console, SSH, and Web. The administrator will be prompted to create a new password after logging in. ICX devices that are already deployed with a previous release and upgraded to 08.0.90 will not be affected by this change.

Supported Power Supplies

For a list of supported power supplies, refer to the Data Sheet for your device. Data Sheets are available online at www.ruckuswireless.com.

Supported Optics

For a list of supported fiber-optic transceivers that are available from RUCKUS, refer to the latest version of the RUCKUS Ethernet Optics Family Data Sheet available online at https://www.commscope.com/globalassets/digizuite/61722-ds-ethernet-optics-family.pdf.

> **NOTE**
> Optics and transceivers are being re-branded from Brocade to RUCKUS, which includes changes to labels and serial numbers.

Upgrade Information

Image File Names

Download the following FastIron images from www.ruckuswireless.com.

The UFI (which was introduced in 08.0.80) consists of the application image, the boot code image, and the signature file and can be downloaded in a single file.

Beginning with FastIron 08.0.90, any new ICX hardware platform (starting with the ICX 7850) will use only UFI images. Any systems upgraded from 08.0.70 or earlier releases directly to 08.0.90 manually or using the manifest file must be upgraded a second time using the UFI image. If the upgrade is from 08.0.80, then use the UFI image.

> **NOTE**
> If a configuration migration is required between FastIron 09.0.10 and FastIron 09.0.10a or FastIron 09.0.10b, ISSU should not be used.

> **NOTE**
> In-Service System Upgrade (ISSU) does not work for upgrade of FastIron release 09.0.10a or 09.0.10b, due to management changes in the 09.0.10b release.

For detailed instructions on how to upgrade to a new FastIron release, see the *RUCKUS FastIron Software Upgrade Guide*.

Device	UFI file name (boot, image)
ICX 7550	GZR10000ufi.bin
ICX 7650	TNR10000ufi.bin
ICX 7850	TNR10000ufi.bin
ICX 8200	RDR10000ufi.bin

PoE Firmware Files

The following tables lists the PoE firmware file types supported in this release.

Device	Firmware version	File name
ICX 7550	01.55.4 fw	icx7xxx_poe_01.55.04.b001.fw
ICX 7650	02.1.8 fw	icx7xxx_poe_02.1.8.b004.fw
ICX 7850	N/A	Not supported
ICX 8200	01.55.4 fw	icx7xxx_poe_01.55.04.b001.fw

The firmware files are generally specific to their devices and are not interchangeable. For example, you cannot load ICX 7550 firmware on an ICX 7650 device.

NOTE

Please note the following recommendations and notices:

- Inline power is enabled by default as of FastIron release 08.0.70.

- As of FastIron release 08.0.70 **legacy-inline-power** configuration is disabled by default.

- Data link operation is decoupled from inline power by default as of FastIron release 08.0.70.

- Use the **[no] inline power** command to enable and disable POE on one or a range of ports.

- Data link operation is coupled with inline power using the command **inline power ethernet** *x/x/x* **couple-datalink** in Priviliged EXEC mode or in interface configuration mode using the command **inline powercouple-datalink**. The PoE behavior remains the same as in releases prior to 08.0.70 (08.0.30, 08.0.40, 08.0.50, 08.0.61).

- Do not downgrade PoE firmware from the factory installed version. When changing the PoE firmware, always check the current firmware version with the **show inline power detail** command, and make sure the firmware version you are installing is higher than the version currently running.

- PoE firmware will auto upgrade to version 2.1.0 fw during the loading of FastIron Release 08.0.80. This auto upgrade of the PoE firmware will add approximately 10 minutes to the loading of FastIron Release 08.0.80 on ICX 7650 devices.

Open Source and Third Party Code

Ruckus FastIron software contains or references the following third-party or open source software.

Third Party Software	Open source (Yes/No)
avl	Yes
Aquantia - PHY Drivers	No
Broadcom - SDK	No
Broadcom - PHY Drivers	No
Broadcom - Linux	Yes
Broadcom - Uboot	Yes
Boradcom/Marvell - sysroot	Yes
ZeroMQ – Library for Inter Process Communication	Yes
Trusted Computing Group - TPM	Yes
libunwind	Yes
Source for rootfs (Part of Linux)	Yes
Dynamic (.so) and static(.a) libraries	Yes
iptables	Yes
python3	Yes
Ingy dot Net - YAML Parser, libyaml-0.2.5	Yes
diffios - conf_archive	Yes
IP Infusion - MVRP	No
WindRiver - IPSec	No
WindRiver - PKI	No
WindRiver - OSPFv3	No
OpenSSL	Yes
Bind9	Yes
Network Security Services (NSS)	Yes

Third Party Software	Open source (Yes/No)
WindRiver - SNMP	No
curl	Yes
zlib	Yes
libxml	Yes
python	Yes
Nginx - szagent Uwsgi - szagent curl - szagent zlib - szagent libxml - szagent	Yes
flask_package - webui node_module - webui openssl - webui	Yes
OpenSSH - SSH client / server	Yes
Python-PAM - Python based PAM authentication module	Yes
Pyrad - Radius	Yes
Tacacs_plus - Tacacs+	Yes
Linux-Pam - PAM authentication	Yes
Radsecproxy - Proxy radius server	Yes
Nettle - Cryptographic library for radsecproxy	Yes
ISC - DHCPv6 Server ISC - DHCPv4 server client	Yes
Abduco - Console	Yes
FCGI2 - RESTConf	Yes
FCGIWrap - RESTConf	Yes
Nginx - RESTConf/Web	Yes
Libtelnet - RConsole	Yes
Busybox - Telnet	Yes
Ulogd - Management access	Yes
SSL - OpenSSL	Yes

Known Behavior

This section describes known behaviors for certain RUCKUS ICX devices and recommended workarounds where they exist.

ICX 7550 Port LED in PoE Mode

When a RUCKUS ICX7550-24ZP or a RUCKUS ICX 7550-48ZP device is operating in PoE mode and the user connects a PD to a 10-Gbps port, the port LED comes up green but immediately goes to amber, although the expected LED color is green.

When the PD is connected while the ICX device is not in PoE mode and is then placed in PoE mode, the port LED remains green as expected.

Workaround: If you encounter the issue, change the device to any other mode, or rotate to the PoE mode again. The LED will then work as expected.

ICX 8200 Fan and Power Supply Numbering

With FastIron release 10.0.00 installed, ICX 8200 fans and power supply units are identified in software with numbering reversed compared to physical hardware numbering.

Known Issues in Release 10.0.00

Issue	FI-266312
Symptom	Switch is not reachable through SZ Management
Condition	When Switch is operating under severe stress conditions
Workaround	None
Recovery	None
Probability	Low
Found In	FI 10.0.00
Technology / Technology Group	Cloud Management

Issue	FI-266180
Symptom	In ICX 7550-48F, a lag configured with 1G speed can go down to 10m-half during bootup when the peer is ICX 7850-48FS.
Condition	When the ICX 7550-48F is reloaded, a lag configured with 1G speed can go down to 10m-half, when the peer is ICX 7850-48FS.
Workaround	Configure 'no speed-duplex 1000-full' on ICX 7550-48F and 'speed-duplex 1000-full' on ICX 7850-48FS on the corresponding lag ports
Recovery	Configure 'no speed-duplex 1000-full' on ICX 7550-48F and 'speed-duplex 1000-full' on ICX 7850-48FS on the corresponding lag ports
Probability	
Found In	FI 10.0.00
Technology / Technology Group	

Issue	FI-266158
Symptom	MACSec Control Sessions are up after MACSec configuration in ICX devices. After predetermined intervals, data traffic loss was observed in some MACSec links. The loss was unidirectional flow in MACSec non keyserver side.
Condition	MACSec configured and Sessions are up across ICX devices. Based on link speed after some duration, traffic loss was observed in MACSec links even though MACSec Control traffic was up.
Workaround	No Workaround
Recovery	No recovery possible
Probability	
Found In	FI 10.0.00
Technology / Technology Group	

Known Issues in Release 10.0.00

Issue	FI-266070
Symptom	In ICX7550, configuring "gig-def neg-off" on a lag port consisting of 1G Fiber ports displays an error message
Condition	In ICX7550, user is unable to set the "gig-def neg-off" on a lag port consisting of 1G Fiber ports.
Workaround	No workaround
Recovery	No recovery.
Probability	
Found In	FI 10.0.00
Technology / Technology Group	

Issue	FI-266029
Symptom	After changing stack priority, in some corner case timing scenarios, stack active/standby election is not successfully happening.
Condition	After stack priority change, in some corner case timing scenarios.
Workaround	None
Recovery	
Probability	Low
Found In	FI 10.0.00
Technology / Technology Group	Stacking - Traditional Stacking

Issue	FI-252452
Symptom	SNMP Walk fails when LLDP is enabled on interfaces which are configured with IPv6 Address.
Condition	IPv6 Address are configured on interfaces.
Workaround	None
Recovery	None
Probability	High
Found In	FI 10.0.00
Technology / Technology Group	Management

Issue	FI-251663
Symptom	With 32k DHCP snoop entries, few entries are missing in "show ip dhcp snoop inf"
Condition	On ICX Router/Switch if dhcp snooping scale increases above 8k, we may see few dhcp snoop entries missing in dhcp snoop data base. And it can grow up till 500 entries when scale reaches maximum.
Workaround	
Recovery	
Probability	Low
Found In	FI 10.0.00
Technology / Technology Group	System - CLI

Issue	FI-265907
Symptom	Establishment of telnet session is possible even when the service is not enabled
Condition	Though service is not enabled, user will be able to establish the telnet session
Workaround	NA
Recovery	NA
Probability	High
Found In	FI 10.0.00
Technology / Technology Group	Management

Issue	FI-265893
Symptom	CPU spike may be noticed after a user session is terminated or closed.
Condition	CLI Session is terminated while it is in the middle of any Data processing Job or a CLI session is closed while device is loaded and CPU is already busy with other activity
Workaround	None
Recovery	None
Probability	High
Found In	FI 10.0.00
Technology / Technology Group	Management

Issue	FI-265880
Symptom	The log message "Error: cannot enable this feature while the DHCP-Client is enabled" will not be seen when dhcp-server feature is enabled from SZ, when client is already enabled.
Condition	When dhcp-client is already running in ICX, dhcp-server service cannot be started. When dhcp-server is enabled from SZ the expectation is to be display the message "Error: cannot enable this feature while the DHCP-Client is enabled" but this will not be displayed.
Workaround	
Recovery	
Probability	Medium
Found In	FI 10.0.00
Technology / Technology Group	Management

Issue	FI-265733
Symptom	Show hardware route device <ID> will not display any route
Condition	Show hardware route is not showing output when routes count is close to max limit
Workaround	Instead of using Show hardware route device <ID> which shows all the routes, show hardware route <prefix> can be used
Recovery	None
Probability	
Found In	FI 10.0.00
Technology / Technology Group	Layer 3 Routing/Network Layer - BGP4 - IPv4 Border Gateway Protocol

Known Issues in Release 10.0.00

Issue	FI-265660
Symptom	Syslog host will not come UP with Cipher TLS_DHE_RSA_WITH_AES_128_GCM_SHA256
Condition	Syslog host will not come UP if key is configured using TLS_DHE_RSA_WITH_AES_128_GCM_SHA256 algorithm.
Workaround	None
Recovery	NA
Probability	Low
Found In	FI 10.0.00
Technology / Technology Group	Management

Issue	FI-265637
Symptom	Sometimes, ICX 7550-48F link with 1G-TX optic may go down when configured with 100M speed .
Condition	Sometimes, ICX 7550-48F link with 1G-TX optic may go down when configured with 100M speed .
Workaround	No workaround possible in 100M speed.
Recovery	If the link goes down on the mentioned conditions, disable and enable the port to bring it back up.
Probability	
Found In	FI 10.0.00
Technology / Technology Group	

Issue	FI-265634
Symptom	During stack switch-over, traffic loss will be seen if VLAN mirroring is enabled with PFC priority-to-pg group map configuration.
Condition	Traffic loss will be seen in Mirrored traffic for few seconds during switch-over.
Workaround	None
Recovery	None
Probability	Medium
Found In	FI 10.0.00
Technology / Technology Group	Traffic Management - Buffer Queue Management

Issue	FI-265504
Symptom	OSPF is not originating default-route after the config default-information-originate always
Condition	OSPF is not originating default-route after the config default-information-originate always
Workaround	None
Recovery	None
Probability	
Found In	FI 10.0.00 FI 09.0.10
Technology / Technology Group	

Issue	FI-253896
Symptom	Resetting of VLAN advance setting does not reset VLAN basic settings
Condition	Clicking Reset button on VLAN advance setting(WEBUI)
Workaround	Clicking Reset button on VLAN Basic setting(WEBUI)
Recovery	None
Probability	Medium
Found In	FI 10.0.00
Technology / Technology Group	Management

Issue	FI-265510
Symptom	After continuous telnet login/logout from a script for 2 days, the system goes for a reload
Condition	continuous telnet login/logout from a script for 2 days
Workaround	Avoid continuous telnet login/logout
Recovery	None
Probability	Low
Found In	FI 10.0.00
Technology / Technology Group	System - System

Issue	FI-265436
Symptom	syslog host session is unable to come up with TLSv1.1
Condition	After syslog host session is up with TLSv1.2, stop the session from server side and explicitly specify TLS version to TLSv1.1 in stunnel(server side) and restart stunnel
Workaround	None
Recovery	Delete and reconfigure logging host
Probability	Low
Found In	FI 10.0.00
Technology / Technology Group	Management

Issue	FI-265055
Symptom	BGP session is not coming up when tcp adjust-mss is configured in transit network
Condition	If in one of the router which is in the path of BGP neighbor has VE interface in user vrf with tcp adjust-mss configured.
Workaround	None
Recovery	Remove the tcp adjust-mss configuration
Probability	
Found In	FI 10.0.00
Technology / Technology Group	

Known Issues in Release 10.0.00

Issue	FI-265047
Symptom	When "qos scheduler-profile" CLI command fails due to incomplete parameters, it still configures whatever parameters provided
Condition	Running "qos scheduler-profile" CLI command with incomplete parameters
Workaround	Run "qos scheduler-profile" CLI command with proper parameters / input.
Recovery	Correct any unintended configurations set after "qos scheduler-profile" command fails due to "Incomplete command" error.
Probability	Medium
Found In	FI 10.0.00
Technology / Technology Group	Traffic Management - QoS - Quality of Service

Issue	FI-265010
Symptom	"show cpu" output shows "sec" instead of "second(s) ago" when displaying "x percent busy from y sec ago"
Condition	"show cpu" output shows "sec" instead of "second(s) ago" when displaying "x percent busy from y sec ago"
Workaround	NA
Recovery	NA
Probability	High
Found In	FI 10.0.00
Technology / Technology Group	System - CLI

Issue	FI-265000
Symptom	With the "show logging debug" command when specifying a timestamp to view all logs beyond that timestamp, it still displays other logs.
Condition	Attempting to view debug logs beyond a specific time by specifying the timestamp option in "show logging debug"
Workaround	NA
Recovery	NA
Probability	High
Found In	FI 10.0.00
Technology / Technology Group	Monitoring/RAS

Issue	FI-264840
Symptom	In ICX switch: 7850-48F, the egress rate shaping is not happening if it is configured for more than 5100000kpbs.
Condition	Configure egress shaping on 10G interface with greater than 5100000kpbs.
Workaround	No workaround.
Recovery	No recovery.
Probability	
Found In	FI 10.0.00
Technology / Technology Group	

Issue	FI-264487
Symptom	member unit goes out of stack after removing L3 interface from a 100G physical port
Condition	Removing L3 configuration from a 100G port
Workaround	Disable the physical interface before removing L3 interface
Recovery	Disabling the involved 100G port and then reloading the stack might recover.
Probability	Low
Found In	FI 10.0.00
Technology / Technology Group	Traffic Management - Buffer Queue Management

Issue	FI-264411
Symptom	During stack switch-over, traffic loss will be seen if Port mirroring is enabled with PFC priority-to-pg group map configuration.
Condition	Port mirroring is enabled with PFC priority-to-pg group map configuration
Workaround	None
Recovery	None
Probability	High
Found In	FI 10.0.00
Technology / Technology Group	Monitoring - Port Mirroring

Issue	FI-248085
Symptom	The error "miur_phy_module_read: Failed. rc = -9" is printed on the console and protocols might flap.
Condition	When optical monitoring is enabled on ICX device with 1GE M-SX, Part# : PL-XPL-VC-S13-19, PHY read fails and CPU is hogged. And so, the error "miur_phy_module_read: Failed. rc = -9" is printed and protocols flap.
Workaround	None
Recovery	None
Probability	Medium
Found In	FI 08.0.90
Technology / Technology Group	System - Optics

Issue	FI-254775
Symptom	Force-up port goes to blocking state
Condition	LACP expiry of the LAG on which the force-up port is part of.
Workaround	None
Recovery	Disable and enable the force-up port.
Probability	Low
Found In	FI 09.0.10 FI 08.0.95
Technology / Technology Group	Layer 2 - Link Aggregation

Known Issues in Release 10.0.00

Issue	FI-264091
Symptom	ARP learning is not happening if dot1x authentication is delayed for more than 90 seconds
Condition	1. Authentication order configured as macauth then dot1x. 2. macauth authentication must get success and dot1x authentication must get delayed more than 90 seconds.
Workaround	After macauth succeeds , Dot1x client must start authentication with in 90sec.
Recovery	clear authentication session will retrigger authentication and ARP will be learnt properly.
Probability	
Found In	FI 10.0.00
Technology / Technology Group	

Issue	FI-263720
Symptom	Snmp set is not working for snVrrpVirRtr2Table entries
Condition	Snmp set is not working for snVrrpVirRtr2Table entries
Workaround	Use Telnet/SSH/Console to configure same functionality
Recovery	None
Probability	
Found In	FI 10.0.00
Technology / Technology Group	Layer 3 Routing/Network Layer - VRRPv2 - Virtual Router Redundancy Protocol Version 2

Issue	FI-262902
Symptom	For the below OIDs snmpget will not work, when the FlexAuth port belongs to standby or member unit. ruckusAuthSessionAge ruckusAuthSessionTimeout ruckusAuthSessionFailureReason ruckusAuthSessionTaggedVlan ruckusAuthSessionVlanType ruckusAuthSessionAddr ruckusAuthSessionAddrType ruckusAuthSessionVlanType
Condition	SNMP configured and SNMPWalk/SNMPGet issued for FlexAuth Tables. It was observed the standby/member unit ports specific values were incorrect for the following MIB objects where as SNMP output was fine for Active unit flexauth ports. ruckusAuthSessionAge ruckusAuthSessionTimeout ruckusAuthSessionFailureReason ruckusAuthSessionTaggedVlan ruckusAuthSessionVlanType ruckusAuthSessionAddr ruckusAuthSessionAddrType ruckusAuthSessionVlanType
Workaround	No Workaround possible
Recovery	No recovery available
Probability	
Found In	FI 10.0.00
Technology / Technology Group	

Issue	FI-262568
Symptom	syslog message is not displayed incase of wrong format of acl filters in Radius attributes Foundry-NAS-Ipv4-Filter-Rule or Foundry-NAS-Ipv6-Filter-Rule.
Condition	wrong format in Foundry-NAS-Ipv4-Filter-Rule or Foundry-NAS-Ipv6-Filter-Rule.
Workaround	No Workaround
Recovery	No Recovery
Probability	
Found In	FI 10.0.00
Technology / Technology Group	

Issue	FI-262427
Symptom	Device will not be able to connect with radius server after specific set of steps
Condition	If management source interface <interface> protocol radius is configured and then removed followed by removing the ip address from the interface which was earlier used
Workaround	None
Recovery	Re configuring the source interface will fix the issue
Probability	
Found In	FI 10.0.00
Technology / Technology Group	

Issue	FI-261385
Symptom	Hostnames are not supported in Radius returned acl filters
Condition	Configure user profile with acl filters with hostname like "permit ip host google.com any"
Workaround	No workaround, user has to use ip-address instead of hostname
Recovery	
Probability	
Found In	FI 10.0.00
Technology / Technology Group	

Issue	FI-261227
Symptom	when a stack link isremoved using "no multi-stack-trunk", occasionally some debug messages are seen on the console
Condition	stack link being removed using "no multi-stack-trunk"
Workaround	None
Recovery	None
Probability	Low
Found In	FI 10.0.00
Technology / Technology Group	Stacking - Traditional Stacking

Issue	FI-260261
Symptom	PIMv4/v6 mcache DB are not getting sync after first switchover on new standby
Condition	Issue is seen when Two Switchovers are done in succession.
Workaround	None
Recovery	None
Probability	Medium
Found In	FI 10.0.00
Technology / Technology Group	IP Multicast - IPv4 Multicast Routing

Known Issues in Release 10.0.00

Issue	FI-257005
Symptom	Command "nslookup" will not list IPv6 address of a domain name.
Condition	Command "nslookup <domain name>" is executed on the device.
Workaround	None
Recovery	None
Probability	High
Found In	FI 10.0.00
Technology / Technology Group	Management

Issue	FI-255181
Symptom	In SNMP get or walk whitelist ip-address is not displayed properly in hexadecimal format if we are using snmp utility in linux
Condition	snmp get or walk on oid ruckusWebAuthWhiteListAddr
Workaround	we can use -Ox (print all strings in HEX format) option in linux snmp utility to print/decode ipaddress in HEX
Recovery	No recovery
Probability	
Found In	FI 09.0.10
Technology / Technology Group	

Issue	FI-255024
Symptom	TFTP copied file is empty when management source-interface loopback 1 protocol tftp is enabled
Condition	TFTP copied file is empty when management source-interface loopback 1 protocol tftp is enabled
Workaround	Use SCP for file transfer
Recovery	None
Probability	
Found In	FI 10.0.00
Technology / Technology Group	

Issue	FI-242556
Symptom	Duplicate DHCPACK packets are received in the DHCP client
Condition	When an ICX relay device is present in between DHCP client and server
Workaround	
Recovery	
Probability	High
Found In	FI 09.0.10
Technology / Technology Group	Management

Issue	FI-209506
Symptom	The IPv4 route table full SYSLOG message will be generated though the hardware table is not full.
Condition	With more VRFs configured, if the advertised BGP routes to all the VRFs are increased more than MAX route per VRF, sometimes the hardware route table is not added with MAX route per VRF and route table full SYSLOG will be thrown.
Workaround	Disabling and Enabling the interface will add back the routes upto MAX route per VRF.
Recovery	
Probability	Low
Found In	FI 10.0.00 FI 08.0.95
Technology / Technology Group	Layer 3 Routing/Network Layer - Multi-VRF

Issue	FI-249375
Symptom	MCT client has ospf neighborship with both MCT cluster peers and it learns a route prefix (say X) from both peers. When the entire MCT cluster (i.e. both peers) are reloaded and then icl link is disabled, route for prefix X gets removed from mct client's route table. It is re-learned in few seconds. During this time of ospf route deletion and addition temporary traffic drop can be seen and it can be upto 1 minute.
Condition	This issue will be seen only when icl link is disabled for the first time. After that icl disable/enable doesn't create this problem
Workaround	None
Recovery	Issue recovers after ospf route is re-learned
Probability	
Found In	FI 09.0.10
Technology / Technology Group	IP Multicast - IPv4 Multicast Routing

Issue	FI-242761
Symptom	Port LED corresponding to 10G Fiber ports of ICX7650, may not be provide a visible blink during high traffic.
Condition	Port LED corresponding to 10G Fiber ports of ICX7650, may not be provide a visible blink during traffic. If the blink frequency is high this may appear as a solid green.
Workaround	No workaround
Recovery	No recovery
Probability	
Found In	FI 09.0.10
Technology / Technology Group	

Issue	FI-230954
Symptom	on configuring authentication methods as radius followed local or local followed by radius, if user authentication fails with first auth-method, 2nd auth-method is not getting triggered.
Condition	auth-methods in webauth must be radius followed by local (or) local followed by radius.
Workaround	No Workaround
Recovery	
Probability	
Found In	FI 09.0.00
Technology / Technology Group	

Known Issues in Release 10.0.00

Issue	FI-249452
Symptom	The ICX device is not switchover back to the new active SZ cluster once the failover to backup SZ cluster is complete.
Condition	New SZ active cluster is sent to ICX device after failover to backup cluster
Workaround	
Recovery	configure 'no manager active-list' manually from ICX
Probability	Low
Found In	FI 09.0.10
Technology / Technology Group	Management

Issue	FI-241213
Symptom	unwanted messages showing 0% progress during a tftp timeout
Condition	Any copy operation involving tftp and it is timing out due to network / tftp server issues
Workaround	None. the issue is cosmetic and has no functional impact
Recovery	None. the issue is cosmetic and has no functional impact
Probability	High
Found In	FI 09.0.00
Technology / Technology Group	Management - Software Installation and Upgrade

Issue	FI-241311
Symptom	Not able to collect supportsave logs from specific unit in stacking setup.
Condition	Customer will not able to collect supportsave logs from specific unit in stacking setup.
Workaround	None
Recovery	
Probability	Low
Found In	FI 09.0.00
Technology / Technology Group	Stacking

Issue	FI-241498
Symptom	After stack failover or switchover, Vxlan traffic forwarding will not be operational, if the traffic is arriving at the slave unit, if previous Vxlan unconfigure operation hadn't happened in a particular order.
Condition	Execute no lag(tunnel) followed by no overlay gateway.
Workaround	Unconfigure overlay before deleting lag
Recovery	None.
Probability	
Found In	FI 09.0.00
Technology / Technology Group	

Issue	FI-249281
Symptom	"show lldp neighbors detail" doesn't show the details of all the neighbors in scaled scenario. "show lldp neighbors", doesn't show all the neighbors in scaled scenario.
Condition	In scaled LLDP scenario not all neighbors are shown in "show lldp neighbors" and "show lldp neighbors detail" cmds
Workaround	
Recovery	
Probability	Low
Found In	FI 09.0.10
Technology / Technology Group	Management

Issue	FI-214157
Symptom	BUM(Broadcast-Unknown unicast-Multicast) traffic coming from VxLAN network port leaks to VxLAN access port which is in BLOCKED state.
Condition	Physical loop in VxLAN access ports side topology and spanning tree(Any flavor of spanning tree) is configured on VxLAN access ports to break the loop.
Workaround	None except avoiding loop on VxLAN access port side.
Recovery	None.
Probability	
Found In	FI 08.0.95
Technology / Technology Group	

Issue	FI-252062
Symptom	In ICX7850 and ICX7550, enabling packet-inerror-detect does not bring the port to err-dis state when the appropriate conditions are met. Statistics for the CRC count also does not increment.
Condition	In ICX7850 and ICX7550, enabling packet-inerror-detect does not bring the port to err-dis state when CRC errors are found in the incoming traffic.
Workaround	No workaround available
Recovery	No recovery available
Probability	
Found In	FI 10.0.00
Technology / Technology Group	

Issue	FI-249335
Symptom	"show ip multicast mcache" and "show ip multicast group" commands does not display complete output in scale scenario
Condition	When 'skip-page-display' is enabled "show ip multicast mcache" and "show ip multicast group" complete output is not displayed
Workaround	use paged mode display to see complete output
Recovery	None
Probability	Medium
Found In	FI 10.0.00 FI 09.0.10
Technology / Technology Group	IP Multicast

Known Issues in Release 10.0.00

Issue	FI-237769
Symptom	With bigger frames not supported there might be slowness in data transfer, bigger MTU configured but still data is sent in smaller frame i.e., 1500. But it again depends what customer would attempt by establishing with telnet kind of session, we see the impact might not of concern.
Condition	When MTU is set as 9000/JUMBO
Workaround	None
Recovery	None
Probability	Low
Found In	FI 08.0.95 FI 09.0.00
Technology / Technology Group	None

Issue	FI-266462
Symptom	Customer may not able to use DEVICE_PROFILE for radius/tacacs/syslog servers for SSL connection
Condition	If user wants to use tpm certificate for radius/tacacs/syslog servers for SSL connection, user may not be use as DEVICE_PROFILE is not available on the system
Workaround	Customer can use User created SSL profiles for radius/tacacs/syslog servers for SSL connection
Recovery	
Probability	High
Found In	FI 10.0.00
Technology / Technology Group	Security

Issue	FI-266412
Symptom	Syslog for events like Image backup and configuration save are not reported when an upgrade is done via SZ
Condition	Upgrade done through SZ
Workaround	None
Recovery	None
Probability	Medium
Found In	FI 10.0.00
Technology / Technology Group	Cloud Management

Issue	FI-262223
Symptom	On ICX switch, when ACL is configured with traffic policer having CIR and PIR for adaptive rate-limit, and if it receives traffic matching the ACL and rate is above CIR limits, then we would see yellow and red counters incrementing identically.
Condition	Configure ACL with the traffic policer, and if it receives traffic matching the ACL and rate is above CIR limits.
Workaround	No workaround
Recovery	No recovery
Probability	
Found In	FI 10.0.00
Technology / Technology Group	

Issue	FI-265923
Symptom	DDoS config changes done after the first ISSU are lost after the second ISSU. This is seen on all ICX platforms.
Condition	Configure DDoS (C1) and save the config Perform ISSU. Once the stack comes up with config C1, do changes to DDoS configurations (C2). Perform ISSU. The stack comes up with DDoS C1 configurations
Workaround	No workaround
Recovery	No recover
Probability	
Found In	FI 10.0.00
Technology / Technology Group	

Issue	FI-265919
Symptom	Show DDoS stats for lag interface does not include stats for lag ports from member unit. This is seen only for ICX 8200
Condition	Configure DDoS TCP Syn port level config for a lag port which has ports from member units. Show DDoS stats for LAG interface.
Workaround	No workaround
Recovery	No Recovery
Probability	
Found In	FI 10.0.00
Technology / Technology Group	

Issue	FI-265917
Symptom	On ICX 8200, Clear DDoS stats was not clearing interface level DDoS stats if its configured on non continuous ports and global config is not present.
Condition	Configure DDoS on non continuous ports. Global DDoS config should not be present. Send traffic so that DDoS stats increase. Clear the stats. The show stats will still show the stats for the ports.
Workaround	No workaround
Recovery	No Recovery
Probability	
Found In	FI 10.0.00
Technology / Technology Group	

Issue	FI-265869
Symptom	Show statistics tunnel [tunnel-id] not incrementing HW Counters
Condition	When show statistics tunnel [tunnel-id] is executed
Workaround	None
Recovery	None
Probability	
Found In	FI 10.0.00
Technology / Technology Group	

Known Issues in Release 10.0.00

Issue	FI-265631
Symptom	
Condition	Creating dynamic lags with one port each with ports (1/1/1 and 1/1/2)
Workaround	Crate dynamic lags by other ports except 1/1/1 and 1/1/2.
Recovery	
Probability	
Found In	FI 10.0.00
Technology / Technology Group	

Issue	FI-265434
Symptom	CPU spike up to 99% may be observed when the device is subjected to an NMAP Scanner test for few hours.
Condition	Issue seen only when the device is subjected to NMAP Scanner test for few hours
Workaround	None
Recovery	None
Probability	High
Found In	FI 10.0.00
Technology / Technology Group	Management

Issue	FI-265171
Symptom	standby unit can not be selected in stacking unit after doing multiple stack switch-over.
Condition	standby unit can not be selected in stacking unit after doing multiple stack switch-over due to mismatch in DHCP lease-count configuration
Workaround	None
Recovery	None
Probability	Low
Found In	FI 10.0.00
Technology / Technology Group	Stacking

Issue	FI-265237
Symptom	Ipv4 and IPv6 unicast Traffic is not forwarded out of module 2 port if ICX 8200 remote unit when ingress on ICX8200-C08P
Condition	In stack setup with ICX8200-C08 as ingress unit and traffic needs to be routed to ports of module 2 on other ICX8200 units in stack
Workaround	None
Recovery	None
Probability	
Found In	FI 10.0.00
Technology / Technology Group	

Issue	FI-264963
Symptom	Support Save Files are not downloaded in RODAN
Condition	Initiate support save trigger via WEBUI on RODAN
Workaround	Support save file can be downloaded via CLI
Recovery	None
Probability	Low
Found In	FI 10.0.00
Technology / Technology Group	Management

Issue	FI-264901
Symptom	
Condition	MSTP is configured on the cross-unit lag and ISSU is triggered.
Workaround	None
Recovery	This will auto-recover after a second.
Probability	
Found In	FI 10.0.00
Technology / Technology Group	

Issue	FI-264899
Symptom	InFlowCtrlPkts and OutFlowCtrlPkts counters in the "show statistics" output don't increment even though flow control PAUSE frames are being received/transmitted on the interface(s).
Condition	PAUSE frames being transmitted/received on interfaces due to symmetric flow control
Workaround	None
Recovery	NA
Probability	High
Found In	FI 10.0.00
Technology / Technology Group	Monitoring

Issue	FI-264848
Symptom	
Condition	Issue will happen with either one of the below conditions, 1. 16 K MACs received on two different units in a stack simultaneously. (32K Macs in total) 2. When system reload in progress, 16 K MACs are received on two different units in a stack simultaneously. (32K Macs in total)
Workaround	None
Recovery	
Probability	
Found In	FI 10.0.00
Technology / Technology Group	

Known Issues in Release 10.0.00

Issue	FI-264667
Symptom	secure wipe feature does not work in ICX 8200 in Release 10.0.0
Condition	secure wipe feature does not work in 8200 in Release 10.0.0
Workaround	No workaround exists
Recovery	No recovery needed
Probability	
Found In	FI 10.0.00
Technology / Technology Group	

Issue	FI-264173
Symptom	With ingress ACL with log option configured, IPv6 routed packets are not logged to syslog.
Condition	ingress ACL with log option for IPv6 routed packets
Workaround	None
Recovery	None
Probability	High
Found In	FI 10.0.00
Technology / Technology Group	Monitoring/RAS

Issue	FI-264087
Symptom	
Condition	QinQ Tunnel config with CVLAN as 720.
Workaround	None
Recovery	
Probability	
Found In	FI 10.0.00
Technology / Technology Group	

Issue	FI-262186
Symptom	An user acl with traffic policy attached is configured on an interface, when the ingress traffic on the interface reduces from above the configured rate to a rate below the configured rate, then the show traffic policy stats will show a value in Red packets. This is seen only on 8200.
Condition	Traffic policy is attached to an user acl. Configure the user acl on an interface. Traffic received on the interface to be more than the configured rate. Clear the traffic policy stats and then if the traffic received on the interface is less than configured, the show traffic policy stats will show a value in the red packet stats.
Workaround	Clear the traffic policy stats again
Recovery	No recovery
Probability	
Found In	FI 10.0.00
Technology / Technology Group	

Issue	FI-261587
Symptom	
Condition	When RSPAN source and destination port is configured in same unit of stacking device or in stand-alone device.
Workaround	None
Recovery	
Probability	
Found In	FI 10.0.00
Technology / Technology Group	

Issue	FI-261428
Symptom	On ICX 8200 switch, if the same traffic policer is attached to multiple acl filters, then traffic policer statistics are shared across the filters, hence show will cumulative statistics of all filters
Condition	Attach same traffic policer to multiple filters in different acls.
Workaround	create multiple different traffic policers with same parameters and then we can attach each of these policers to different acl filters
Recovery	No Recovery.
Probability	
Found In	FI 10.0.00
Technology / Technology Group	

Issue	FI-261215
Symptom	"show cfg-sync status" sometimes don't provide the status when the cfg-sync is in progress
Condition	cfg-sync between stack units in progress and "show cfg-sync status" command is executed.
Workaround	None
Recovery	None
Probability	Medium
Found In	FI 10.0.00
Technology / Technology Group	Stacking - Traditional Stacking

Issue	FI-259735
Symptom	If we configure IPSG static entries (Consider 500 entries Copied and pasted on the console) console would not be accessible.
Condition	On ICX Router if we configure the Scale (500 or more copied and pasted)IPSG static entries we may see that console wont be accessible and it will never come back.
Workaround	We can use telnet to access the console or better to avoid copy and pasting the large number of IPSG static entries at a time.
Recovery	No recovery
Probability	
Found In	FI 10.0.00
Technology / Technology Group	

Closed Issues with Code Changes in Release 10.0.00

Issue	FI-262110
Symptom	When APs moved over to 7550s seeing APs hit a PD Overload state and go offline
Condition	There is high inrush current with R650 AP when connected to 4pair poe port.
Workaround	None
Recovery	None
Probability	Medium
Found In	FI 08.0.95
Technology / Technology Group	Other - Other

Issue	FI-245408
Symptom	Unable to configure bpdu-flood-enable command
Condition	Unable to configure bpdu-flood-enable command which results in error.
Workaround	No Workaround
Recovery	None
Probability	High
Found In	FI 08.0.95
Technology / Technology Group	IP Multicast - IPv4 Multicast Routing

Issue	FI-250982
Symptom	System name displayed in the binary format in show lldp neighbor output when ICX is connected with other vendor devices
Condition	1. Connect ICX with other vendor devices(cisco/extreme) 2. Enable lldp 3. Execute show lldp neighbor command in ICX. System name would be displayed in binary format
Workaround	show lldp neighbor details CLI command output displays valid system name
Recovery	None
Probability	High
Found In	FI 08.0.90 FI 08.0.95
Technology / Technology Group	Layer 2 - Topology Groups

Issue	FI-252809
Symptom	Switch may become unresponsive when 'ip default-network' command is configured.
Condition	Switch may become unresponsive when 'ip default-network' command is configured.
Workaround	None
Recovery	None
Probability	High
Found In	FI 09.0.10
Technology / Technology Group	Layer 3 Routing/Network Layer

Closed Issues with Code Changes in Release 10.0.00

Issue	FI-254961
Symptom	ICX7550 may sometimes report "PoE severe error: Lost communication link with the PoE controller" error.
Condition	ICX7550 may sometimes report "PoE severe error: Lost communication link with the PoE controller" error.
Workaround	None
Recovery	If this issue happens, ICX7550 will trigger PoE recovery causing PDs to get power cycled.
Probability	High
Found In	FI 08.0.95
Technology / Technology Group	Management - PoE/PoE+

Issue	FI-255299
Symptom	When VRRP-E is configured on a VE, the ICX device will take up the main role even though , if it has the "active Backup" command configured.
Condition	1. Set the track-ports on the Vrrp-e in master device and then "activate backup" . 2. Reload the device. The Unit comes back as the Master from Backup.
Workaround	None
Recovery	None
Probability	High
Found In	FI 10.0.00 FI 08.0.95
Technology / Technology Group	Layer 3 Routing/Network Layer - VRRPv2 - Virtual Router Redundancy Protocol Version 2

Issue	FI-260225
Symptom	Unexpected reload might be observed when LLDP neighbor details are fetched and displayed
Condition	ICX device might reload unexpectedly when "show lldp nei detail" is executed
Workaround	None
Recovery	None
Probability	Medium
Found In	FI 09.0.10
Technology / Technology Group	System - CLI

Issue	FI-261257
Symptom	High CPU might be observed because of ssh session being closed abnormally.
Condition	When SSH session is closed abnormally and the show CLI command output displayed partially in page mode.
Workaround	None
Recovery	None
Probability	Low
Found In	FI 09.0.10
Technology / Technology Group	Other - Other

Issue	FI-262408
Symptom	System started time might be drifting in the output of "show version" command.
Condition	Output of "show version" CLI has System start time which keeps changing continuously.
Workaround	None
Recovery	None
Probability	Low
Found In	FI 08.0.95
Technology / Technology Group	Other - Other

Issue	FI-262243
Symptom	When management VRF is configured along with management ACL to allow SSH for specific network. SSH login failed from the specific network.
Condition	When management VRF is configured along with management ACL to allow SSH for specific network. SSH login failed from the specific network.
Workaround	None
Recovery	None
Probability	Medium
Found In	FI 09.0.10
Technology / Technology Group	Management

Issue	FI-261062
Symptom	Help string of the DHCP server CLI "Lease count" is not very clear
Condition	Help string of the DHCP server CLI "Lease count" is not very clear
Workaround	None
Recovery	None
Probability	Low
Found In	FI 10.0.00 FI 09.0.20 FI 09.0.00 FI 10.0.10
Technology / Technology Group	Management - CLI - Command Line Interface

Issue	FI-254237
Symptom	TFTP image copy might fail with timeout error, when sflow is enabled with sample rate less than 1024.
Condition	When sflow is enabled and if tftp image copy is triggered, copy might fail when UDP packets are received in out-of-order.
Workaround	Set the sflow sample rate to 1024 or Higher.
Recovery	None
Probability	Medium
Found In	FI 08.0.95
Technology / Technology Group	Management - sFlow

Closed Issues with Code Changes in Release 10.0.00

Issue	FI-254184
Symptom	Unexpected reload of ICX might be experienced, when ACL logging is enabled.
Condition	When IPv4 ACL Logging is applied in ICX.
Workaround	None
Recovery	None
Probability	Low
Found In	FI 08.0.95
Technology / Technology Group	Security - ACLs - Access Control Lists

Issue	FI-223864
Symptom	Ping from any host to CPE device(IP received via dhcp) routed via ICX router might not work.
Condition	Change the mode of customer CPE device from Router Mode to Bridge Mode
Workaround	None
Recovery	Delete the static route configured wait for sometime and reapply of static route helps in recovery. Reboot of ICX device also helps
Probability	Medium
Found In	FI 08.0.70
Technology / Technology Group	Layer 3 Routing/Network Layer - ARP - Address Resolution Protocol

Issue	FI-248787
Symptom	Cosmetic issue. LLDP tagged-packet process command might print twice in show run
Condition	1. Configure LLDP tagged-packet process command using CLI 2. In show running, LLDP tagged-packet process command will print twice
Workaround	None
Recovery	None
Probability	None
Found In	FI 09.0.00
Technology / Technology Group	Management - CLI - Command Line Interface

Issue	FI-251644
Symptom	ICX device might reload unexpectedly when executing "show arp" thro' a SSH session.
Condition	ICX device might reload unexpectedly when a monitoring tool that periodically SSH into the ICX device to collect ?show arp? o/p.
Workaround	None
Recovery	None
Probability	Medium
Found In	FI 08.0.95
Technology / Technology Group	Layer 3 Routing/Network Layer - ARP - Address Resolution Protocol