RELEASE NOTES

FastIron 08.0.95ba for RUCKUS ICX Switches Release Notes, Version 1

Supporting FastIron 08.0.95ba

Part Number: 53-1005678-01
Publication Date: 10 November 2020

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Document History

Version	Summary of changes	Publication date
FastIron 08.0.95ba for ICX Switches Version 1	Resolved software issue FI-218550	November 10, 2020
FastIron 08.0.95b for ICX Switches Version 1	This release includes the following updates: • Resolved issue • Generic CLI configuration feature • Geo-redundancy feature • DHCP client MIB	November 2, 2020
FastIron 08.0.95a for ICX Switches Version 1	Introduction of the ICX 7550 Series switches.	October 5, 2020
FastIron 08.0.95 for ICX Switches Version 1	• New software features • Resolved software issues	September 11, 2020

Introduction

About RUCKUS FastIron Release 08.0.95

FastIron 08.0.95 introduces a number of new features and enhancements, including simplified security configuration, Layer 3 scale enhancements, IEEE 1588v2 PTP Transparent Clock, and DHCP client on a VE.

RUCKUS FastIron release 08.0.95a introduces the RUCKUS ICX 7550 switch series, which delivers premium performance and scalability for Wi-Fi 6 deployments and beyond with up to 48 ports of multigigabit connectivity and full 90 watts of 802.3bt PoE power per port. It offers market-leading stacking density with up to 12 switches (up to 576 gigabit, multigigabit or fiber ports) per stack and combines chassis-level performance with “pay as you grow” scalability of a stackable solution.

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.ruckuswireless.com.

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://training.ruckuswireless.com.

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.ruckuswireless.com 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://forums.ruckuswireless.com/ruckuswireless/categories
- 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 section lists new hardware introduced with this release.

New Hardware in 08.0.95a

Release 08.0.95a introduces the RUCKUS ICX 7550 Series switch, a mid range switch line that offers up to two redundant hot swappable load sharing power supplies (AC or DC), up to three hot swappable fans (exhaust or intake airflow), one RJ-45 Ethernet port for out of band network management, one USB Type-C port for console management, one RJ-45 port for serial console management, and one USB port for external file storage. MACsec and Layer 3 Premium licenses are optionally available for the ICX 7550 switches.

NOTE
The ICX 7550 does not support 100 Gbps stacking in 08.0.95 releases.

TABLE 1 RUCKUS ICX 7550 Series Switches

Switch	Description
ICX7550-24	24-port 10/100/1000 Mbps with 2-ports 40 Gbps Uplink/Stack QSFP+, module slot
ICX7550-48	48-port 10/100/1000 Mbps with 2-ports 40 Gbps Uplink/Stack QSFP+, module slot
ICX7550-24P	ICX 7550 24-port 10/100/1000 Mbps 802.3at POE+ with 2-ports 40 Gbps Uplink/Stack QSFP+, module slot
ICX7550-48P	48-port 10/100/1000 Mbps 802.3at POE+ with 2-ports 40 Gbps Uplink/Stack QSFP+, module slot
ICX7550-24ZP	12-port 10/100/1000/2500 Mbps 802.3bt POE, 12-port 100/1000/2500/50000/10000 Mbps 802.3bt POE with 2-ports 40/100 Gbps Uplink/Stack QSFP28, module slot
ICX7550-48ZP	36-port 10/100/1000/2500 Mbps 802.3bt POE, 12-port 100/1000/2500/50000/10000 Mbps 802.3bt POE with 2-ports 40/100 Gbps Uplink/Stack QSFP28, module slot
ICX7550-24F	24-port 1/10 Gbps with 2-ports 40/100 Gbps Uplink/Stack QSFP28, module slot
ICX7550-48F	36-port 1000 Mbps SFP 12-port 1/10 Gbps SFP+ with 2-ports 40/100 Gbps Uplink/Stack QSFP28, module slot

New Hardware in 08.0.95

No new hardware was introduced in release 08.0.95.

Software Features

The following section lists new, modified, and deprecated software features for this release.

New Software Features in 08.0.95ba

No new features were added in this release.

New Software Features in 08.0.95b

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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Feature	Description
Generic CLI configuration	Release 08.0.95b, along with SmartZone 6.0[1], introduces capability to provision switches using predefined CLI configuration, making it easy for users to deploy any feature that ICX supports. • Group level CLI config: Users can predefine configuration for switch groups with the option to define different configurations based on the switch model. Switches will automatically inherit the configuration upon joining the group. • CLI templates: CLI templates enable users to make incremental configuration changes to the selected switches.
Geo redundancy	Geo-Redundancy (Active-Passive mode) is now supported for switches with SmartZone 6.0.[1]
DHCP client MIB	Adds SNMP support for DHCP client on a VE.
CLI configuration changes on RUCKUS Cloud	Release 08.0.95b along with RUCKUS Cloud Version 20.11[2] introduces capability to make configuration changes via CLI even when the switch is connected to the Cloud.

New Software Features in 08.0.95a

No new features were added in this release.

New Software Features in 08.0.95

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.

[1] SmartZone 6.0 is scheduled to release in December 2020.
[2] RUCKUS Cloud Version 20.11 is scheduled to release in November 2020.

Feature	Description
Security feature enhancements	FastIron 08.0.95 release brings several security feature enhancements making it easier to apply and monitor them across Layaer-2 and Layer-3 images. • **No reboot required** Users are no longer required to reboot the switch when trying to enable DHCP/DHCP6 snooping, Dynamic ARP inspection etc. ACL-per-port-per-vlan configuration is implicitly enabled and is no longer required to be configured separately. • **Ability to configure security features at a VLAN level** The following features can now be configured directly on a VLAN without having to create a VE interface. – IPv4 and IPv6 ACLs – Denial of Service protection • **MAC Access Control Lists** MAC ACLs are introduced to make MAC-based traffic filter usage similar to IPv4 ACLs. MAC ACLs replace the previously supported MAC filters feature. CLI configuration will automatically be converted from MAC filters to MAC ACLs when upgrading from e releases. • **Source Guard ACL** Source Guard ACLs are introduced to work in conjunction with IP Source Guard (IPSG). • **Enhanced Show commands** The output is enhanced for a wide range of Access-list and security feature commands, providing easy access to feature settings.
MVRP with Per-VLAN STP and Per-VLAN RSTP	MVRP is enhanced to support Per-VLAN Spanning Tree (PVST). On both Layer 2 switch images and router images, PVST is enabled by default on MVRP untagged VLANs. You can use the mvrp spanning-tree command to choose the type of spanning tree to be added to the dynamic VLANs.
ICX 7850 as control bridge	ICX 7850 devices can be enabled as a control-bridge standalone or stack in an 802.1br (SPX) Campus Fabric configuration.
Nexthop scale enhancements	A higher IP nexthop table size is supported for all platforms. For ICX 7850 devices, a new entry has been added to the predefined forwarding profiles. The IP nexthop table size has been added to the predefined forwarding profile for these devices.
Unicast and Multicast scale enhancements on the ICX 7850	New forwarding profiles with enhanced unicast and multicast scale numbers are supported in this release.
FDB scale enhancements for the ICX 7850	For the ICX 7850, the maximum number of FDB table entries has been increased, and four predefined forwarding profiles are now supported.
Slowpath forwarding of IPv4 and IPv6 multicast packets	The slow path forwarding of IPv4 and IPv6 multicast data packets is enabled by default for PIM-SM groups and disabled by default for PIM-SSM groups. Default settings for slow path forwarding of IPV4 and IPV6 multicast data packets can be changed by configuration.
Show IP traffic for TCP and UDP statistics	The command output for the **show ip traffic** and **show ipv6 traffic** commands was modified to show more detailed information for Transmission Control Protocol (TCP) and User Datagram Protocol (UDP) statistics.
DHCP client on non-default Virtual Ethernet port	The DHCP client can now be enabled for a non-default Virtual Ethernet (VE) port. By default, the DHCP client is enabled for the default VE port.
IEEE 1588v2 PTP Transparent Clock	PTP ensures clock synchronization in a packet-based network corrects the latency and time delays. A Transparent Clock (TC) measures the time taken for a PTP event message to transit the device, and provides this information to clocks receiving this PTP event message.

Feature	Description
Inter-VRF route leaking using static routes	VRF route leaking between different VRFs allows you to share selective route information between different VRFs. Inter-VRF route leaking allows leaking of route prefixes from one VRF instance to another VRF instance on the same physical router, which eliminates the need for external routing.
L3 syslog for IPv6 route table exhaust	Added Syslogs that indicate the routing table is full.
VxLAN support	VXLAN support is extended to ICX 7650 and ICX 7850.

Changed Behavior in Release 08.0.95

Please note that Campus Fabric is supported in 08.0.95 and will continue to be supported in 08.0.95 maintenance releases. Campus Fabric will not be supported in later FastIron releases, such as 09.0.0.

Refer to the Software Features on page 12 section for a list of new features in the 08.0.95 release. Refer to the FastIron Features and Standards Support Matrix, available at www.ruckuswireless.com, for a detailed listing of feature and platform support.

CLI Commands

The commands listed in this section were introduced, modified, or deprecated in FastIron 08.0.95.

New Commands in 08.0.95

- **access-list accounting timer**
- **authentication filter**
- **enable accounting** (ACL)
- **inline power poe-ha**
- **ip dhcp-client ve**
- **ip sg-access-group**
- **ip sg-access-list**
- **ipv6 access-group**
- **ipv6 nd stale-time**
- **logmgr clear-fetched-logs**
- **logmgr fetch**
- **logmgr list**
- **lsdb-limit**
- **lsdb-overload-interval**
- **mac access-group**
- **mac access-list**
- **mvrp spanning-tree**
- **ptp-clock transparent**
- **show access-list accounting vlan**
- **show access-list software cam**

- **show access-list tcam**
- **show file-manager details**
- **show ip access-list bindings**
- **show ip access-list brief**
- **show ipv6 access-lists bindings**
- **show ipv6 access-lists brief**
- **show log debug**
- **show mac access-lists**
- **show mac access-lists bindings**
- **show mac access-lists brief**
- **show mac access-lists name**
- **show policy-routing** (PBR)
- **show ptp-clock**
- **show running-config access-list**
- **slow-path-forwarding**
- **system-max ip6-neighbor**

Modified Commands in 08.0.95

- **clear arp**
- **clear dhcp**
- **clear ipv6 neighbor**
- **forwarding-profile**
- **ip access-group**
- **ip access-list**
- **ip dhcp snooping relay information disable**
- **ip dhcp snooping vlan**
- **ip dscp-remark**
- **ip igmp max-response-time**
- **ip pcp-remark**
- **ip route**
- **ipv6 access-list**
- **ipv6 dhcp6 snooping vlan**
- **ipv6 mld max-response-time**
- **ipv6 route**
- **show access-list all**
- **show access-list accounting**
- **show arp**
- **show default values**
- **show forwarding-profile**

- **show hardware ipv6-route**
- **show hardware nexthop usage**
- **show hardware route**
- **show interfaces ethernet**
- **show ip arp inspection entries**
- **show ip dhcp relay information**
- **show ip dhcp relay information brief**
- **show ip dhcp snooping**
- **show ip dhcp snooping info**
- **show ip igmp group**
- **show ip pim resource**
- **show ip pim sparse**
- **show ip route**
- **show ip tcp traffic**
- **show ip traffic**
- **show ipv6 dhcp6 snooping**
- **show ipv6 dhcp6 snooping info**
- **show ipv6 neighbor**
- **show ipv6 ospf**
- **show ipv6 pim resource**
- **show ipv6 pim sparse**
- **show ipv6 raguard**
- **show ipv6 route**
- **show ipv6 tcp traffic**
- **show ipv6 traffic**
- **show mvrp**
- **source-guard enable**
- **system-max ip6-cache**
- **traffic-policy rate limit adaptive**
- **traffic-policy rate limit fixed**

Deprecated Commands in 08.0.95

- **acl-logging**
- **acl-policy**
- **authentication auth-filter** (Flex auth)
- **dot1x auth-filter**
- **enable-accounting** (ACL)
- **enable acl-per-port-per-vlan**
- **enable nd hop-limit**

- **ip dhcp snooping flash-update-interval**
- **ipv6 traffic-filter**
- **logging-enable**
- **mac filter**
- **mac filter enable-accounting**
- **mac filter log-enable**
- **mac filter-group**
- **mac filter-group log-enable**
- **show access-list named-acl**
- **show access-list hw-usage**
- **show acl-policy info**
- **show ip dhcp snooping flash**
- **show l2 dist-filter-list**
- **show l2 filter-list**
- **suppress acl-seq**
- **system-max hw-traffic-conditioner**
- **system-max l3-vlan**
- **system-max max-dhcp-snoop-entries**
- **system-max max-static-inspect-arp-entries**

RFCs and Standards

Support for the following IEEE standards were introduced in release 08.0.95:

- IEEE 802.3bt Ethernet Amendment 2: Physical Layer and Management Parameters for PoE over 4 pairs. Supported on the ICX 7550 only.
- IEEE 1588v2 Precision Timing Protocol (PTP) Transparent Clock. Supported on the following models: ICX7150-24, ICX7150-C12P, ICX7850-48F, and ICX7850-32Q

MIBS

Support for the following MIB was added in 08.0.95b:

- DHCP Client MIB

Support was added for the following MIBs in 08.0.95:

- RUCKUS ACL MIB
- MIB support for switch port groups
- SNMP support for the ICX 7550 models

Hardware Support

Supported Devices

The following devices are supported in releases 08.0.95 and 08.0.95a.

Supported Platforms in 08.0.95a

- ICX 7150 Series (ICX 7150-C08P, ICX7150-C08PT, ICX7150-C10ZP, ICX7150-C12P, ICX7150-24, ICX7150-24F, ICX7150-24P, ICX7150-48, ICX7150-48P, ICX7150-48PF, ICX7150-48ZP)
- ICX 7250 Series (ICX7250-24, ICX7250-24G, ICX7250-24P, ICX7250-48, ICX7250-48P)
- ICX 7450 Series (ICX7450-24, ICX7450-24P, ICX7450-32ZP, ICX7450-48, ICX7450-48F, ICX7450-48P)
- 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 7750 Series (ICX7750-26Q, ICX7750-48C, ICX7750-48F)
- ICX 7850 Series (ICX7850-32Q, ICX7850-48FS, ICX7850-48F)

Supported Platforms in 08.0.95

- ICX 7150 Series (ICX 7150-C08P, ICX7150-C08PT, ICX7150-C10ZP, ICX7150-C12P, ICX7150-24, ICX7150-24F, ICX7150-24P, ICX7150-48, ICX7150-48P, ICX7150-48PF, ICX7150-48ZP)
- ICX 7250 Series (ICX7250-24, ICX7250-24G, ICX7250-24P, ICX7250-48, ICX7250-48P)
- ICX 7450 Series (ICX7450-24, ICX7450-24P, ICX7450-32ZP, ICX7450-48, ICX7450-48F, ICX7450-48P)
- ICX 7650 Series (ICX7650-48P, ICX7650-48ZP, ICX7650-48F)
- ICX 7750 Series (ICX7750-26Q, ICX7750-48C, ICX7750-48F)
- ICX 7850 Series (ICX7850-32Q, ICX7850-48FS, ICX7850-48F)

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 UFIs. 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.

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 7150	SPR08095baufi.bin/SPS08095baufi.bin
ICX 7250	SPR08095baufi.bin/SPS08095baufi.bin
ICX 7450	SPR08095baufi.bin/SPS08095baufi.bin
ICX 7550	GZR08095baufi.bin/GZS08095baufi.bin
ICX 7650	TNR08095baufi.bin/TNS08095baufi.bin
ICX 7750	SWR08095baufi.bin/SWS08095baufi.bin
ICX 7850	TNR08095baufi.bin

PoE Firmware Files

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

Device	Firmware version	File name
ICX 7150	2.1.8 fw	icx7xxx_poe_02.1.8.b004.fw
ICX 7250	2.1.8 fw	icx7xxx_poe_02.1.8.b004.fw
ICX 7450	2.1.8 fw	icx7xxx_poe_02.1.8.b004.fw
ICX 7550	2.1.8 fw	icx7xxx_poe_01.54.00.b001.fw
ICX 7650	2.1.8 fw	icx7xxx_poe_02.1.8.b004.fw

The firmware files are specific to their devices and are not interchangeable. For example, you cannot load ICX 7250 firmware on an ICX 7450 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.
- The PoE microcontrollers are pre-programmed at the factory. The firmware can be loaded as an external file. The PoE firmware version string will be kept updated to match the corresponding FastIron software version; however, this is only a cosmetic change, and the firmware itself remains unchanged. If a new version of the code is released, Ruckus Technical Support will notify its customers of the needed code upgrade. Finally, in the remote case that a failure occurs during an upgrade process, the switch would still be functional but without PoE circuitry. If you encounter such an issue, please contact Ruckus Technical Support.
- 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 7150, ICX 7250, ICX 7450, and ICX 7650 devices.

Open Source and Third Party Code

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

Manufacturer	Third Party Software
InMon	Sflow
Broadcom Inc	SDK 6.5.13
open source S/W	u-boot 2011.09
open source S/W	u-boot 2015.01
open source S/W	u-boot 2016.01
open source S/W	Linux OS: • ICX 7150, ICX 7250, ICX 7450: Linux 4.4 • ICX 7650, ICX 7850: Linux 3.14.65 • ICX 7750: Linux 2.6.34.6
Aquantia Inc	Aquantia phy driver AQR API 2.1.0
Aquantia	Aquantia phy drivers: • ICX 7150: AQR 3.5.E • ICX 7450: AQR 2.C.5 • ICX 7650: AQR 3.5.E
open source S/W	Parted utility
Broadcom Inc	Miura Phy driver 1.8
Broadcom Inc	EPDM driver 1.7.4

Manufacturer	Third Party Software
Spansion	Flash driver
http://www.bzip.org/	Bzip
http://www.hackersdelight.org/	Integer square root computation
GNU (http://www.gnu.org/)	LZMA SDK (compression method)
Freescale (NXP)	Software for PowerPC chip
Open Source SW	openssl_tpm_engine-0.4.2
Open Source SW	tpm-tools-1.3.8
Open Source SW	trousers-0.3.11.2
Infineon Technologies AG	ELTT_v1.3
Allegro Software	HTTP/HTTP-S, SSHv2
WindRiver	SNMPv1,v2c,v3; IPSecure
Interlink	Radius
SafeNet Sentinel RMS	Software Licensing Code - SafeNet Sentinel RMS
open source S/W	NSS 3.12.4 with NSPR 4.8
open source S/W	OpenSSL FIPS Object Module v2.0.5
open source S/W	OpenSSL crypto Ver 1.0.1e
GubuSoft	Javascript based tree display
GNU (The Regents of the University of California)	Syslog
BSD(The Regents of the University of California)	DNS Query/Resolution
BSD(The Regents of the University of California)	TimeZone Code (SNTP)
BSD(The Regents of the University of California)	Router Renumbering
BSD(The Regents of the University of California)	IPv6 defines
RouterWare Inc	TCP/IP stack, IPX, OSPFv2, TELNET, STP, LSL, TFTP client, BOOTP client and relay
IP Infusion	RIPng, OSPFv3, BGP4
open source S/W	libunwind
Wind River Systems, Inc.	Wind River MIB Compiler, version 10.2

Known Issues in Release 08.0.95b

This section lists open software issues with Critical, High, and Medium Technical Severity in FastIron 08.0.95b.

Issue	FI-221520
Symptom	The ISSU image upgrade run on a ICX stack/campus fabric with PoE model having regular power supply (non-PoE) would get aborted.
Condition	This issue is seen when a regular power supply is used on a PoE capable unit.
Workaround	Use AC-Poe power supply on the PoE supported units to prevent this issue from happening.
Recovery	Do a normal image upgrade if ISSU gets aborted.
Probability	
Found In	FI 08.0.95
Technology / Technology Group	

Issue	FI-203682
Symptom	ISSU upgrade gets aborted in SPX setup.
Condition	When ISSU upgrade is done in SPX setup, occasionally PE unit is getting detached which causes the ISSU to be aborted.
Workaround	None
Recovery	None
Probability	
Found In	FI 08.0.95
Technology / Technology Group	

Known Issues for the ICX 7550

This section lists open software issues with Critical, High, and Medium Technical Severity.

Issue	FI-220101
Symptom	ICX7550 platform with 1G-TX optics may show a false link up.
Condition	ICX7550 platform with 1G-TX optics may show a false link up when the peer system is down.
Workaround	No workaround
Recovery	Disable port ensures link is down.
Probability	
Found In	FI 08.0.95
Technology / Technology Group	

Issue	FI-219831
Symptom	ICX-7550 4x10GF flex module, With LACP short LAG flaps over 10GF links once in 12hrs.
Condition	ICX-7550 4x10GF flex module, With LACP short LAG flaps over 10GF links once in 12hrs.
Workaround	Use lacp long
Recovery	Don’t use LACP short for 10GF ports
Probability	
Found In	FI 08.0.95
Technology / Technology Group	Security - MACsec - Media Access Control security

Issue	FI-218957
Symptom	While booting ICX7550 may show the message "ERROR: PLL Lock Failed" in the console and fail to boot from the preferred boot partition
Condition	on multiple reloads, ICX7550 may not boot from the preferred boot partition
Workaround	Maintain stable images on other partition, so that system boot with other partion. Then copy image to the partion where observed ERROR.
Recovery	reload the system from the correct partition
Probability	
Found In	FI 08.0.95
Technology / Technology Group	Other - Other

Issue	FI-218769
Symptom	ICX7550 with 1G Fiber port with 100-fx connected optic may not link up
Condition	ICX7550 with 1G Fiber port with 100-fx connected optic may not link up
Workaround	None. 100-fx optic is not supported at the moment
Recovery	None
Probability	
Found In	FI 08.0.95
Technology / Technology Group	

Known Issues in Release 08.0.95

This section lists open software issues with Critical, High, and Medium Technical Severity in FastIron 08.0.95.

Issue	FI-219366
Symptom	With high traffic rate, some times ICX device can be exposed to DOS attack even when the ICMP, TCP DOS protection is enabled on ICX.
Condition	1. Configure ICMP and TCP DOS Protection for local or transit attack. 2. The ingress traffic should be of very high rate.
Workaround	No Workaround
Recovery	No Recovery
Probability	
Found In	FI 08.0.95
Technology / Technology Group	

Issue	FI-219133
Symptom	While SNMP walk query for wired client MIB OID returns wrong value
Condition	Query SNMP OID for IPv4 address in wired client MIB.
Workaround	No Workaround.
Recovery	No Recovery.
Probability	
Found In	FI 08.0.95
Technology / Technology Group	

Issue	FI-218949
Symptom	In the console session, when logged in as super-user, the user may not be able to execute privilege level commands.
Condition	For the super user, when the privilege level is changed from super user to read-only mode.
Workaround	No workaround is available
Recovery	User has to exit from privileged EXEC mode to user EXEC mode and then re-enter to the privilege EXEC mode by entering the username and password.
Probability	
Found In	FI 08.0.95
Technology / Technology Group	

Issue	FI-218550
Symptom	7150 stuck in boot mode after power outage
Condition	Power outage
Workaround	None
Recovery	TFTP of FI image needs to be done from boot prompt at primary or secondary
Probability	
Found In	FI 08.0.70
Technology / Technology Group	System - System

Issue	FI-218658
Symptom	ICX DHCP Client is not getting dynamic IP address.
Condition	When ICX DHCP Client is connected to Palo Alto DHCP Server, ICX is not getting the dynamic IP address assigned.
Workaround	None
Recovery	None
Probability	High
Found In	FI 08.0.92
Technology / Technology Group	Management - DHCP (IPv4)

Issue	FI-214650
Symptom	With IPSG and User ACLs IPv4 configured on default and upon upgrade the redundant ip access-group commands show up in "show running".
Condition	On ICX device: 1. configure User ACL on default VLAN. 2. Enable IPSG on selective ports of default VLAN. 3. Upgrade with the above configuration from any pre-8095 release to 8095.
Workaround	None
Recovery	None
Probability	
Found In	FI 08.0.95
Technology / Technology Group	Security - IP Source Guard

Issue	FI-218524
Symptom	Upon reload, the SNMPv2 community string mapped with numbered acl id will not show up in "show running-config".
Condition	On ICX Device 1 Configure numbers ACL using standard access-list command. 2. Configure snmp comunity strings mapped with numbered acl id. 3. After write memory and reload of ICX device, The SNMPv2 comunity strings mapped with acl id configuration will not show up in "show running-config".
Workaround	No Workaround
Recovery	No recovery
Probability	
Found In	FI 08.0.95
Technology / Technology Group	

Issue	FI-217870
Symptom	40GE-LR4 links may not come up after reload.
Condition	After a power loss or a reload, some 40GE-LR4 links do not come up.
Workaround	Disable/Enable recovers the link.
Recovery	Another reload or disable/enable recovers the 40GE-LR4 link.
Probability	Medium
Found In	FI 08.0.90
Technology / Technology Group	System - Optics

Issue	FI-217597
Symptom	When ISSU command is used in a campus fabric setup, ISSU might abort and not complete.
Condition	The ISSU may abort when it is triggered on a campus fabric system, where port extender units have PoE capability.
Workaround	ISSU provides for an on-error option where the system can be reloaded from either primary or secondary partition when an ISSU abort is encountered. User can use this option to workaround this issue.
Recovery	The campus fabric system to be reloaded when the issue is encountered.
Probability	
Found In	FI 08.0.95
Technology / Technology Group	

Issue	FI-216753
Symptom	On ICX, After Addiing MAC ACL Ethertype via SNMP set operation. Removal of applied MAC ACL Ethertype filter via CLI configuration command will fail.
Condition	1. Configure MAC ACL Ethertype fitler OID via SNMP set. 2. Run "no" of the configured Ethertype filter via CLI configuration command.
Workaround	No Workaround.
Recovery	No Recovery.
Probability	
Found In	FI 08.0.95
Technology / Technology Group	

Issue	FI-216418
Symptom	OSPFv3 sessions are in Loading state with uRPF and NSR configured along with triggers of multiple switchover
Condition	OSPFv3 sessions are in Loading state with around 2500 LSAs with NSR and uRPF configured with multiple stack switchovers for the OSPFv3 to go into loading state.
Workaround	Clearing the ospfv3 neighbor sessions bring the session back to full state
Recovery	Clearing the ospfv3 neighbor sessions
Probability	
Found In	FI 08.0.95
Technology / Technology Group	

Issue	FI-216227
Symptom	Deploying Ingress ACL on ICX through SZ interface will fail
Condition	Enable Source Guard configuration on the interface and deploy ingress acl on ICX.
Workaround	No Workaround
Recovery	No Recovery.
Probability	
Found In	FI 08.0.95
Technology / Technology Group	

Issue	FI-216304
Symptom	When the ICX unit is reloaded, the system may trigger an unexpected coredump before the rebooting of the unit.
Condition	When the ICX unit is reloaded, the system may trigger an unexpected coredump before the rebooting of the unit.
Workaround	No workaround available.
Recovery	No recovery needed. System would automatically recover.
Probability	
Found In	FI 08.0.95
Technology / Technology Group	

Issue	FI-208489
Symptom	Link may not come up when a 100M M-FX-SR SFP is used to connect to a remote device, after switch reboot.
Condition	Connect ICX and a remote device using 100M M-FX-SR SFP.
Workaround	NA
Recovery	Port disable and enable will recover the issue.
Probability	Medium
Found In	FI 08.0.90
Technology / Technology Group	System - Optics

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-210895
Symptom	Few IPv6 routes will fail in installation to HW in the scenarios mentioned in the condition for this to occur.
Condition	Few IPv6 routes will fail in forwarding profile 1 (default profile) in following particular sequence of execution o Two BGP neighbors – V4 & V6 o First establish V4 neighbor and send 300K /24 routes o After the HW table in full sync, establish V6 neighbor and send 11K /64 routes o Then bring down V6 neighbor and on V4 send 300K Custom prefix routes (without affecting the session) o Then establish V6 neighbor and send 11K V6 Custom prefix routes. o At this point we are seeing few hundreds of routes are failed to add to HW
Workaround	Clear both v4 and v6 routes
Recovery	Clear both v4 and v6 routes
Probability	
Found In	FI 08.0.95
Technology / Technology Group	

Issue	FI-213575
Symptom	
Condition	
Workaround	Sending Tagged traffic OR having a MAC Table entry will prevent flooding.
Recovery	Changing the interface type to a non-hybrid interface thereby preventing the un-tagged packets from being redirected to the L2/L3 Processing by default will stop the traffic from flooding.
Probability	
Found In	FI 08.0.95
Technology / Technology Group	

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	None
Probability	Low
Found In	FI 08.0.95
Technology / Technology Group	Layer 3 Routing/Network Layer - Multi-VRF

Issue	FI-213387
Symptom	IPv6 hardware route table full SYSLOG messages are generated when the hardware table is not full.
Condition	Only when there are more than 30K routes in a singe VRF, these SYSLOG messages will be generated.
Workaround	None
Recovery	None
Probability	Low
Found In	FI 08.0.95
Technology / Technology Group	Layer 3 - Other IPv6

Issue	FI-211885
Symptom	When the MIRRORED port is on CB and Egress port MONITORING is on PE port then the known unicast packets are not getting forwarded.
Condition	When the CB port is configured as Mirrored port for Egress port monitoring of a port on PE and the unicast packets are not getting forwarded.
Workaround	None
Recovery	None
Probability	
Found In	FI 08.0.95
Technology / Technology Group	Monitoring - Port Mirroring

Issue	FI-211410
Symptom	SNMP walk for DAI with IPaddress as index will show incorrect values.
Condition	1. Configure DAI on VLAN 2. SNMP walk on DAI MIB
Workaround	CLI show commands to fecth the DAI Dynamic and Static entries.
Recovery	No Recovery
Probability	
Found In	FI 08.0.95
Technology / Technology Group	

Issue	FI-202413
Symptom	ICX7650 / ICX7850 port connected to VDX will be down with port shut/no shut at VDX.
Condition	shut/no shut at VDX (or) port disable/enable at ICX.
Workaround	VDX port shut/no shut and ICX reload will recover the issue.
Recovery	NA
Probability	High
Found In	FI 08.0.70
Technology / Technology Group	System - Optics

Issue	FI-210309
Symptom	On Standalone ICX device which supports breakout ports (For Ex: 10x4g). DDoS Port Statistics OID for Breakout Ports will be skipped when the user initiates SNMP walk.
Condition	1. Configure DoS Protection on ICX device. 2. Initiate SNMP Walk for DDoS Port Statistics OID.
Workaround	User can fetch the DDoS port statistics using CLI command : "show statistics dos-attack"
Recovery	No Recovery Mechanism
Probability	
Found In	FI 08.0.95
Technology / Technology Group	

Issue	FI-193316
Symptom	The configured rate-limit will be changed when mld or igmp rate-limit (any one) is disabled once after the rate-limit configuration is set for mld and igmp.
Condition	1. On ICX device configure both IGMP and MLD snooping on two different VLANs. 2. Configure multicast ratelimit. 3. Disable IGMP Snooping or MLD Snooping (any one) under both the VLANs. The effective rate-limit for multicast packets will be changed which is unexpected.
Workaround	No Workaround.
Recovery	No Recovery.
Probability	
Found In	FI 08.0.90
Technology / Technology Group	Layer 2 - Link Aggregation

Issue	FI-202954
Symptom	DHCPv6 Snooping Table Doesn't have Entry for DHCPv6 Address
Condition	While IPv6 Addresses are getting allocated to hosts via DHCPv6 process and DHCPv6 Snoop is enabled on the Switch/Router, the snoop table have entry only for prefix but not for the Address
Workaround	No Work-Around
Recovery	No Recovery
Probability	Medium
Found In	FI 08.0.95
Technology / Technology Group	Security - IP Source Guard

Issue	FI-201580
Symptom	Mcast client sees traffic interruption when a new receiver connected to active unit joins the group or existing receiver connected to active unit leaves, other receivers connected to active unit experience a momentary traffic loss (few packets < 10).
Condition	Problem is seen when source is connected to standby and receivers are connected to active.
Workaround	Apply the command “no ip multicast-routing optimization oif-list all”
Recovery	Apply the command “no ip multicast-routing optimization oif-list all”
Probability	Medium
Found In	FI 08.0.80 FI 08.0.90 FI 08.0.91 FI 08.0.92 FI 08.0.95
Technology / Technology Group	IP Multicast - IGMP - Internet Group Management Protocol

Issue	FI-185144
Symptom	On an ICX 7K stack, if a packet having Invalid Source Module ID in the Higig header enters the stack link, it will keep looping within the stack.
Condition	By design, all the packets sent over the HiGig links are initialized with valid Source Module ID. It is not known at this point any specific sequence of steps that lead to the Source Module ID becoming invalid.
Workaround	no workaround
Recovery	
Probability	
Found In	FI 08.0.70 FI 08.0.61 FI 08.0.60 FI 08.0.80
Technology / Technology Group	Stacking - Traditional Stacking

Resolved Issues in Release 08.0.95ba

This section lists software issues with Critical, High, and Medium Technical Severity that were resolved with a code change in release 08.0.95ba.

Issue	
Symptom	7150 stuck in boot mode after power outage
Condition	Power outage
Workaround	None
Recovery	TFTP of FI image needs to be done from boot prompt at primary or secondary
Probability	
Found In	FI 08.0.70
Technology / Technology Group	System - System

Resolved Issues in Release 08.0.95b

This section lists software issues with Critical, High, and Medium Technical Severity that were resolved with a code change in release 08.0.95b.

Issue	FI-219089
Symptom	Incorrect watch port was displayed while retrieving open flow dump-groups information from the controller.
Condition	1. Configure open-flow groups in the ICX using open flow controller. 2. Retrieve open flow dump-groups information using controller.
Workaround	None
Recovery	None
Probability	
Found In	FI 08.0.80 FI 08.0.92
Technology / Technology Group	

Resolved Issues in Release 08.0.95

This section lists software issues with Critical, High, and Medium Technical Severity that were resolved with a code change in release 08.0.95.

Issue	FI-216846
Symptom	Device might reload unexpectedly due to excessive usage of memory and memory leak.
Condition	High number of RSTP events and port flap in short period of time can cause the Memory leak.
Workaround	NA
Recovery	NA
Probability	
Found In	FI 08.0.30
Technology / Technology Group	Layer 2 Switching - xSTP - Spanning Tree Protocols

Issue	FI-216132
Symptom	DHCP snooping lease time decreasing too slow compared to show clock output.
Condition	1. Configure DHCP snooping 2. Compare show clock and DHCP snooping lease time value. There will be a huge time difference after few hours.
Workaround	None
Recovery	None
Probability	Medium
Found In	FI 08.0.30 FI 08.0.90 FI 08.0.92
Technology / Technology Group	Management - DHCP (IPv4)

Issue	FI-214870
Symptom	ICX7450 slot 2 4x10GF ports traffic forwarding failed while having stacking and MACsec configured simultaniously.
Condition	The issue is ICX7450 slot 2 4x10GF module specific because of HW limitations. SW sanity check has been added to avoid stacking and MACsec configured simultaniously on ICX7450 slot 2 4x10GF module.
Workaround	Move stacking port configuration onto slot 3 or 4.
Recovery	
Probability	High
Found In	FI 08.0.90
Technology / Technology Group	Security - MACsec - Media Access Control security

Issue	FI-192530
Symptom	DOS attack ‘ip tcp burst’ and ‘ip icmp attack-rate’ don’t work as expected, when the traffic is destined for subnet broadcast.
Condition	when DOS attack ICMP/TCP traffic is sent with destination IP as subnet broadcast IP.
Workaround	No
Recovery	
Probability	
Found In	FI 08.0.61
Technology / Technology Group	Security - DoS (Denial of Service) protection

Issue	FI-209171
Symptom	When sending TCP packet with TTL as 1 and the destination IP address as unknown, CPU spikes to 99%.
Condition	1. Send TCP packet with TTL as 1 and the destination IP address as unknown 2. CPU will be increased to 99%. 3. Issue is seen with or without DOS commands.
Workaround	None
Recovery	None
Probability	Medium
Found In	FI 08.0.90
Technology / Technology Group	Security - ACLs - Access Control Lists

Issue	FI-213144
Symptom	ICX device may occassionally go for an unexpected reload when NTP domain name server is configured.
Condition	If the NTP server has more than 8 names registered with domain name server and when DNS returns more than 8 names during lookup, ICX might reload.
Workaround	None
Recovery	None
Probability	Medium
Found In	FI 08.0.90
Technology / Technology Group	Management - NTP - Network Time Protocol

Issue	FI-214174
Symptom	Unexpected re-load of the ICX device when CPU profiled data is dumped on the console.
Condition	After collecting CPU profiling data, execute the command "cpu profiling show" multiple times on the console.
Workaround	None
Recovery	None
Probability	Low
Found In	FI 08.0.90
Technology / Technology Group	Monitoring/RAS

Issue	FI-211738
Symptom	7250 lost licenses and config after upgrading from 8030 to 8090
Condition	1.Load 8030 image 2. After upgrading the device from 8030 to 8090, Licenses and config will be lost
Workaround	None
Recovery	None
Probability	Low
Found In	FI 08.0.70
Technology / Technology Group	System - System

Issue	FI-213990
Symptom	Static Route is not getting updated in the Routing table
Condition	1. Add a new static route 2. Add a prefix list with respect to that static route.
Workaround	
Recovery	
Probability	Medium
Found In	FI 08.0.30 FI 08.0.90
Technology / Technology Group	Layer 3 Routing/Network Layer - Static Routing (IPv4)

Issue	FI-214152
Symptom	In show running-config command's O/P the IP ACL entries were correct, but the display was not indented correctly
Condition	Step 1: configure IP ACL with some entries Step 2: Apply command: show running-config
Workaround	No workaround
Recovery	
Probability	
Found In	FI 08.0.90
Technology / Technology Group	Security - ACLs - Access Control Lists

Issue	FI-212451
Symptom	Occassionaly, Incoming SSH connection fail to a L3 switch. When this happens new connections are not getting allowed.
Condition	Incoming ssh to a L3 switch might fail.
Workaround	None
Recovery	None
Probability	Low
Found In	FI 08.0.90
Technology / Technology Group	Management - SSH2 & SCP - Secure Shell & Copy

Issue	FI-209852
Symptom	Added a CLI command to turn off alarm and warning syslogs generated for optical monitoring enabled on down ports
Condition	1. Enable optical monitoring for down port 2. Warn and alarm syslog generated when there is a power change.
Workaround	
Recovery	
Probability	Medium
Found In	FI 08.0.92
Technology / Technology Group	Monitoring - Syslog

Issue	FI-199753
Symptom	Hostname configured statically through CLI will be overwritten by hostname received through DHCP messages.
Condition	1. Configure the hostname through CLI in ICX. 2. Configure the different hostname for clients at DHCP server. 3. hostname will be replaced once ICX receives the offer message from DHCP server.
Workaround	NA
Recovery	NA
Probability	Medium
Found In	FI 08.0.90
Technology / Technology Group	Layer 3 Routing/Network Layer - DHCP - Dynamic Host Configuration Protocol

Issue	FI-211898
Symptom	Sometimes SSH client session got terminated as soon as user logged in
Condition	The cause is sometimes the SSH connection state machine initial state was not properly set, which caused SSH client session being logged into wrong state and terminated.
Workaround	None
Recovery	None
Probability	High
Found In	FI 08.0.90
Technology / Technology Group	Management - SSH2 & SCP - Secure Shell & Copy

Issue	FI-212770
Symptom	IPG value of the interfaces displays as 0
Condition	Execute "show interface" command in ICX devices.
Workaround	None
Recovery	None
Probability	High
Found In	FI 08.0.70 FI 08.0.90
Technology / Technology Group	System - CLI

Issue	FI-212669
Symptom	One of the port in dynamic LAG will not come up post reload with gig-default neg-off configured.
Condition	1. Create dynamic LAG with ports that have gig-default neg-off configured. 2. After reload, one of the port will not come up.
Workaround	None
Recovery	None
Probability	Medium
Found In	FI 08.0.70 FI 08.0.90 FI 08.0.92
Technology / Technology Group	System - Optics

Issue	FI-212293
Symptom	"Error: OID not increasing" is displayed while snmp walk for the ACL OIDs (1.3.6.1.4.1.1991.1.2.2.15.2.1.1 and 1.3.6.1.4.1.1991.1.2.2.15.2)
Condition	SNMP error is thrown when adding an ACL rule with sequence number less than the already existing rule's sequence number for that ACL.
Workaround	Reload the ICX device
Recovery	Reload the ICX device
Probability	Medium
Found In	FI 08.0.90
Technology / Technology Group	Security - ACLs - Access Control Lists

Issue	FI-211026
Symptom	ICX DHCP Client will keep downloading the configuration file from the TFTP server.
Condition	When DHCP Auto-Provisioning is enabled and dynamic IP address configuration is there in the config file, the ICX DHCP Client will keep downloading the config file from the TFTP server.
Workaround	None
Recovery	None
Probability	Medium
Found In	FI 08.0.90
Technology / Technology Group	Management - DHCP (IPv4)

Issue	FI-211189
Symptom	Added support for "debug ip ssh"
Condition	Added support for "debug ip ssh"
Workaround	None
Recovery	None
Probability	Low
Found In	FI 08.0.70 FI 08.0.90
Technology / Technology Group	Management - SSH2 & SCP - Secure Shell & Copy

Issue	FI-211141
Symptom	When SSL-Based RADIUS-authentication is enabled and the server is not reachable, the user will not be able to access the ICX device.
Condition	SSL-Based RADIUS Authentication is enabled and the RADIUS-server does not respond to authentication request.
Workaround	None
Recovery	None
Probability	High
Found In	FI 08.0.90
Technology / Technology Group	Management - AAA

Issue	FI-209998
Symptom	Port speed of the 100M SFP member port in stacking configured with 100-fx command changes from 100M to 1G
Condition	Reload of member unit or entire stack
Workaround	Delete and Reconfigure the member port with 100-fx command after reload
Recovery	Delete and Reconfigure the member port with 100-fx command after reload
Probability	High
Found In	FI 08.0.30
Technology / Technology Group	System - System

Issue	FI-211374
Symptom	Customer with old ACL configuration commands running any 8030 patch version would not be able to upgrade to 8090 patch releases in two steps. It needs three setup upgrade.
Condition	This issue is found when user with old ACL configuration commands, running any 8030 patch version try to upgrade to 8090x patch release.
Workaround	The upgrade can still be done in a three step process. Upgrade from 8030 patches to 8070 latest patch, then to 8080e patch and then finally to 8090 patch release.
Recovery	Not applicable.
Probability	Medium
Found In	FI 08.0.80 FI 08.0.90
Technology / Technology Group	Management - Software Installation & Upgrade

Issue	FI-210594
Symptom	802.1x over IPsec VPN not working. Radius request with Packet size > 1762 gets dropped.
Condition	802.1x over IPsec VPN not working. Radius request with Packet size > 1762 gets dropped.
Workaround	None
Recovery	None
Probability	Low
Found In	FI 08.0.70
Technology / Technology Group	Security - 802.1x Port-based Authentication

Issue	FI-210784
Symptom	Sometimes SSH client was logged out unexpectly
Condition	Reverse SSH TCP forwarding channels might use up system SSH channel resource and forcefully log out the existing SSH client. SSH client and TCP forwarding channel limit check has been added to avoid the issue.
Workaround	
Recovery	
Probability	High
Found In	FI 08.0.90
Technology / Technology Group	Management - SSH2 & SCP - Secure Shell & Copy

Issue	FI-208931
Symptom	When ICX Telnet server source interface is assigned by 'ip telnet source-interface ...' command, SZ's ICX config backup feature will not work
Condition	SZ's ICX config backup feature uses reverse SSH TCP forward to Telnet to local host 127.0.0.1:23. With ICX Telnet server source interface configured, telnet to local host 127.0.0.1:23 will miss the ICX Telnet server listener and thus failed. Added fix to allow reverse SSH TCP forward Telnet local host 127.0.0.1:23 being accepted always.
Workaround	
Recovery	
Probability	Medium
Found In	FI 08.0.90
Technology / Technology Group	Cloud Management - Cloud Agent

Issue	FI-210235
Symptom	Ruckus AP R730 downshifts to 1G or 100M when connected to ICX7150-48ZP.
Condition	When the port in ICX7150-48ZP connected to R730 AP is flapped, the port speed changes to 1G or 100M.
Workaround	None
Recovery	None
Probability	Medium
Found In	FI 08.0.90 FI 08.0.92
Technology / Technology Group	System - System

Issue	FI-209994
Symptom	ICX crash while register with vSZ server
Condition	vSZ server configured 8 IP addresses in active IP list
Workaround	vSZ server configures less than 4 IP addresses in active IP list
Recovery	Increase ICX active IP list max IP number from 4 to 8, and add crashing prevention logic.
Probability	Medium
Found In	FI 08.0.90
Technology / Technology Group	Cloud Management - Switch Registrar/Tunnel Aggregator

Issue	FI-209479
Symptom	ACL name gets removed from the running config when we remove and add the same ACL through tftp config copy command.
Condition	Run a tftp config copy command to remove and add same ACL.
Workaround	Run the delete ACL script and add ACL script separately.
Recovery	
Probability	High
Found In	FI 08.0.90
Technology / Technology Group	Security - ACLs - Access Control Lists

Issue	FI-209587
Symptom	Mobotix camera is not powering up when connected to PoH ports (1 to 8) in ICX7450-P.
Condition	When Mobotix camera is connected to PoH ports (1 to 8) in ICX7450, the camera won't be powered up. Note: If Mobotix camera supports only half duplex mode, then the camera can't be connected to 2.5g PoH ports in ICX7150-48ZP and ICX7650-48ZP.
Workaround	
Recovery	
Probability	High
Found In	FI 08.0.90 FI 08.0.92
Technology / Technology Group	Management - PoE/PoE+

Issue	FI-209135
Symptom	While "LLDP med network-policy ..." Command is applied on LAG member ports, the LLDP med network-policy configuration may be lost after system reloading.
Condition	The issue happens with LLDP med network-policy being configured on LAG member ports
Workaround	NA
Recovery	For LAG, LLDP config can only apply to LAG's ethernet member ports, but not to LAG interface. While LLDP med network-policy configuration is applied to LAG's member ports, running-config may generate the LLDP config port list with both LAG's member ports and LAG interface; as a result, with system reloading, LLDP med network-policy running-config replay may fail because the generated LAG interface is not accepted. The fix is to add checking logic to skip the LAG interface during LLDP med network-policy running-config generation.
Probability	Medium
Found In	FI 08.0.90
Technology / Technology Group	Management - LLDP - Link Layer Discovery Protocol

Issue	FI-208411
Symptom	switch changes the port speed from 100-full to 100-half on reload of the device
Condition	Reload of the device
Workaround	Reconfigure the port with 100-full configuration after reload of the device
Recovery	Recovers on re-configuration after reload
Probability	High
Found In	FI 08.0.30
Technology / Technology Group	System - System

Issue	FI-209135
Symptom	While "LLDP med network-policy ..." Command is applied on LAG member ports, the LLDP med network-policy configuration may be lost after system reloading.
Condition	The issue happens with LLDP med network-policy being configured on LAG member ports
Workaround	NA
Recovery	For LAG, LLDP config can only apply to LAG's ethernet member ports, but not to LAG interface. While LLDP med network-policy configuration is applied to LAG's member ports, running-config may generate the LLDP config port list with both LAG's member ports and LAG interface; as a result, with system reloading, LLDP med network-policy running-config replay may fail because the generated LAG interface is not accepted. The fix is to add checking logic to skip the LAG interface during LLDP med network-policy running-config generation.
Probability	Medium
Found In	FI 08.0.90
Technology / Technology Group	Management - LLDP - Link Layer Discovery Protocol

Issue	FI-206954
Symptom	If a route X is being injected into backbone area 0 by RTC1 or RTC2 (with same cost or diff cost) and got installed into the routing table,and if there is an SFP calculation, RTA and RTB might reset the route uptime back to 0.
Condition	When ever there is a change in the routes or SPF calculation is done. Issue is triggered. OSPF incorrectly update routing engine (RTM), where route entries uptime can get reset back to 0 if there is an SFP calculation being triggered.
Workaround	NA
Recovery	No recovery available with the existing code. With the fix issue is not seen.
Probability	Low
Found In	FI 08.0.30
Technology / Technology Group	Layer 3 Routing/Network Layer - OSPF - IPv4 Open Shortest Path First

Issue	FI-208289
Symptom	QSFP Links are not correctly detected and "show media" provides incorrect information.
Condition	1. Upgrade the ICX device to 8090 release and reload. 2. Another way to hit this problem is repeated fast plug-in and plug-out of QSFP
Workaround	NONE
Recovery	NONE
Probability	High
Found In	FI 08.0.90
Technology / Technology Group	System - Optics

Issue	FI-207339
Symptom	Port showing up in ICX7650-48F on insertion of 1G M-TX(SFP) to a fibre port without cable or end device connected
Condition	Insert 1G M-TX(SFP) in ICX7650-48F without cable or end device connected
Workaround	Admin disable/enable of port
Recovery	Admin disable/enable of port
Probability	High
Found In	FI 08.0.91
Technology / Technology Group	System - System

Issue	FI-207936
Symptom	Port link down is seen on megamind with 40GE LM optics
Condition	Publication:Ports are connected back to back between ICX7850-32Q devices. Multiple reloads of device 1 or device 2 or both the devices
Workaround	None
Recovery	Admin disable/enable of port helped sometimes in recovery. Setting speed to 40Gb helped few times in recovery.
Probability	Medium
Found In	FI 08.0.90
Technology / Technology Group	System - System

Issue	FI-208376
Symptom	Will not be able to configure BUM logging/port-dampening commands under multiple interface mode.
Condition	BUM logging/port-dampening commands under multiple interface mode
Workaround	None
Recovery	None
Probability	Low
Found In	FI 08.0.90
Technology / Technology Group	Security - ACLs - Access Control Lists

Issue	FI-208346
Symptom	Upgrade to 8090 release sometimes causes unexpected reload of the ICX device.
Condition	Upgrade to 8090 release
Workaround	The device comes up gracefully after the 2nd boot
Recovery	Automatically recovers after the 2nd boot
Probability	Low
Found In	FI 08.0.90
Technology / Technology Group	Management - Software Installation & Upgrade

Issue	FI-208119
Symptom	"sh mem" displays high memory usage
Condition	Multiple iteration of snmpwalk to the ICX IF MIB creates memory leak
Workaround	None
Recovery	None
Probability	Low
Found In	FI 08.0.90
Technology / Technology Group	Management - SNMP - Simple Network Management Protocol

Issue	FI-207772
Symptom	After a reload there will be a mismatch between lag interface and member ports gig-default mode value, because of which lag becomes inactive.
Condition	Add ports which have GIG default mode configuration into the LAG. After a reload, LAG will be down.
Workaround	
Recovery	None
Probability	High
Found In	FI 08.0.70 FI 08.0.90
Technology / Technology Group	System - CLI

Issue	FI-207928
Symptom	Unsupported CFM Trap is displayed in "sh snmp server" output.
Condition	Execute "sh snmp server"
Workaround	None
Recovery	None
Probability	Low
Found In	FI 08.0.90
Technology / Technology Group	Management - SNMP - Simple Network Management Protocol

Issue	FI-207613
Symptom	Link is not coming up for a port while configuring the gig-default neg-off configuration on FCX648s-HPOE 8.0.30h fiber port. Peer device port is configured with neg-off configuration
Condition	gig-default neg-off configuration on FCX648s-HPOE 8.0.30h fiber port
Workaround	Reload of device
Recovery	Reload of device
Probability	High
Found In	FI 08.0.30
Technology / Technology Group	System - System

Issue	FI-207596
Symptom	LG STB electronic devices loss connectivity with ICX devices.
Condition	When VLAN movement happens on MAC authentication, LG Set top boxes loss connectivity with ICX devices.
Workaround	None
Recovery	None
Probability	Low
Found In	FI 08.0.90 FI 08.0.91
Technology / Technology Group	Security - MAC Port-based Authentication

Issue	FI-206986
Symptom	SmartZone Config Backup does not work.
Condition	When 'telnet server enable vlan x' is configured, SZ config backup feature is not working.
Workaround	Remove the configuration, 'telnet server enable vlan x'.
Recovery	None
Probability	Low
Found In	FI 08.0.90
Technology / Technology Group	Management - Configuration Fundamentals

Issue	FI-206861
Symptom	Unexpected reload can be observed in a stack and some of the members can be disconnected.
Condition	When ever we receive the EAPOL response length exceeding the limit we might see the unexpected reload
Workaround	NA
Recovery	NA
Probability	Low
Found In	FI 08.0.30
Technology / Technology Group	Security - 802.1x Port-based Authentication

Issue	FI-206967
Symptom	IPC error message is printed when one of the stack member unit freeze during stack formation.
Condition	One of the unit in a stack freeze during stack formation.
Workaround	None
Recovery	None
Probability	Low
Found In	FI 08.0.90
Technology / Technology Group	Stacking - Stack Management

Issue	FI-206570
Symptom	Will experience excessive DHCP snooping syslog on DHCP snooping trusted port
Condition	Getting IP address from DHCP server will print this syslog Initiation of request for IP address from DHCP client to server will exchange many packets in the following order client to server ---- Discover server to client --- Offer client to server -- Request server to client - ACK When ACK is received on DHCP snooping trusted port this syslog will be logged
Workaround	None
Recovery	None
Probability	Low
Found In	FI 08.0.90
Technology / Technology Group	Security

Issue	FI-206214
Symptom	SFLOW Counter samples does not have proper values and contain only zeros
Condition	Configure SFLOW in non-active unit interface and reload stack
Workaround	SFLOW disable and re-enable
Recovery	SFLOW disable and re-enable
Probability	Low
Found In	FI 08.0.90
Technology / Technology Group	Monitoring - sFlow

Issue	FI-204830
Symptom	SFLOW counter samples might not be received.
Condition	Configure SFLOW and reload the ICX device
Workaround	Disable and re-enable SFLOW
Recovery	Disable and re-enable SFLOW
Probability	Low
Found In	FI 08.0.90
Technology / Technology Group	Monitoring - sFlow

Issue	FI-194362
Symptom	New SSH Sessions might be rejected by the device.
Condition	Rare condition where Log-out Accounting never comes to an end for a particular SSH session.
Workaround	None
Recovery	Reload of the device.
Probability	Low
Found In	FI 08.0.30
Technology / Technology Group	Management - SSH2 & SCP - Secure Shell & Copy

Issue	FI-183000
Symptom	"show cli-command-history" does not display output in page mode.
Condition	"show cli-command-history" output is not displayed in page mode even after executing "page-display" command
Workaround	None
Recovery	None
Probability	
Found In	
Technology / Technology Group	

Issue	FI-185942
Symptom	If SPX setup receives LLC packet with DSAP and SSAP values 0x8940 or 0x89CB, the packet is looped in the network.
Condition	SPX setup receives LLC packet with DSAP and SSAP values as 0x8940 or 0x89CB
Workaround	None
Recovery	
Probability	Medium
Found In	FI 08.0.60
Technology / Technology Group	Security - Stack Management

Issue	FI-186386
Symptom	Crash due to command "dm cpu filock clear"
Condition	command "'d cpu filock clear" when executed is crashing the device.
Workaround	N/A
Recovery	N/A
Probability	Low
Found In	FI 08.0.70
Technology / Technology Group	System - System

Issue	FI-186693
Symptom	Ping from one device to another device present in same vlan is not successful.
Condition	1. Perform stack switch-over followed by write memory and Reload. 2. Ping from one device to the other device.
Workaround	
Recovery	
Probability	
Found In	FI 08.0.61
Technology / Technology Group	

Issue	FI-186770
Symptom	1. When ICX is configured with a flow that should send PacketIn messages to the controller only when "no flow entries are matched", the ICX is instead sending PacketIn messages with the “reason” field set to “0” (NO_MATCH) when there is actually match with the flow entries 2. When ICX is configured with a flow that should send PacketIn messages to the controller only for packets that have matched flow entries, the ICX is sending PacketIn messages as expected but the reason code is set to “0” (NO_MATCH)
Condition	ICX is configured with a flow that should send PacketIn messages to the controller only when "no flow entries are matched" OR ICX is configured with a flow that should send PacketIn messages to the controller only for packets that have matched flow entries
Workaround	None
Recovery	None
Probability	
Found In	FI 08.0.70
Technology / Technology Group	SDN - OpenFlow

Issue	FI-186891
Symptom	Telnet from ICX7150 to Cisco ASA devices fail.
Condition	Cisco ASA negotiates to use terminal type for telnet access. Terminal-type command is not supported by ICX.
Workaround	
Recovery	
Probability	
Found In	FI 08.0.70
Technology / Technology Group	Other - Other

Issue	FI-187565
Symptom	When all the ports in lag is removed, the ICX device reloads spontaneously.
Condition	LAG is configured on an ICX device and all the ports in lag are removed.
Workaround	None
Recovery	None
Probability	Low
Found In	FI 08.0.61
Technology / Technology Group	Layer 2 Switching - LAG - Link Aggregation Group

Issue	FI-187642
Symptom	OSPF neighborship stuck in EXSTART/EXCHG state.
Condition	When the interface is disabled and enabled and if opaque LSA is received, the OSPF neighborship stuck in EXSTART/EXCHG state.
Workaround	None
Recovery	None
Probability	Medium
Found In	FI 08.0.70 FI 08.0.61 FI 08.0.30
Technology / Technology Group	Layer 3 Routing/Network Layer - OSPF - IPv4 Open Shortest Path First

Issue	FI-188544
Symptom	When BUM rate limits are configured on all the ports, stack loops might be observed.
Condition	BUM rate limiting is configured on all ports of a switch.
Workaround	None
Recovery	
Probability	High
Found In	FI 08.0.70
Technology / Technology Group	Security - ACLs - Access Control Lists

Issue	FI-188985
Symptom	On a reload, the ICX device loses configuration for some applications. So, the configuration will not take effect in those applications.
Condition	This happens when the ICX device reloads when its configuration has Management VLAN along with other applications' configuration.
Workaround	None
Recovery	None
Probability	
Found In	FI 08.0.80
Technology / Technology Group	

Issue	FI-189401
Symptom	When Broadcast/Multicast/unknown-unicast logging/dampening feature is configured on most of the interfaces and the MAC-filter is applied, the MAC-filter fails to add even though there are enough hardware resource available.
Condition	Broadcast/Multicast/unknown-unicast logging/dampening feature is configured on many interfaces and the MAC filter is being applied on the interface.
Workaround	None
Recovery	
Probability	High
Found In	FI 08.0.70 FI 08.0.61 FI 08.0.80
Technology / Technology Group	Security - ACLs - Access Control Lists

Issue	FI-190835
Symptom	Spurious syslog messages similar to the ones below are seen Oct 8 17:22:53:I:System: SSL server 192.168.11.1:443 is disconnected Oct 8 17:22:53:I:System: SSL server 192.168.11.1:443 is now connected
Condition	Only seen in FI 08.0.80c
Workaround	The command "no sz registrar" when applied as below will stop the messages Router#conf t Router(config)#no sz registrar
Recovery	None
Probability	High
Found In	FI 08.0.80
Technology / Technology Group	Cloud Management - Switch Registrar/Tunnel Aggregator

Issue	FI-190837
Symptom	some of the ports will not power PDs and "show inline power" shows different ports as powered while the PDs are connected on some other ports.
Condition	one or more PoE HWs are sensing voltage drift. This HW may or may not recover.
Workaround	move to 8070d
Recovery	move to 8070d
Probability	Low
Found In	FI 08.0.70
Technology / Technology Group	Management - PoE/PoE+ - Power over Ethernet

Issue	FI-190909
Symptom	In ICX7150 10G data port logged Micro flap detected but there is a no Physical link down
Condition	Every one sec syslog generated for Micro flap detected on 10G data port
Workaround	None
Recovery	
Probability	Low
Found In	FI 08.0.70
Technology / Technology Group	System - Optics

Issue	FI-192149
Symptom	On a ICX7650-48F stack, the standby/member gets deleted from the stack and then reloads unexpectedly. After reboot the module gets stuck in continuous boot loop.
Condition	On a ICX7650-48F stack, while configuring "speed-duplex 1000-full" in interface range mode for standby/member, the module is stuck for some time and then reloads unexpectedly.
Workaround	Configure the "speed-duplex 1000-full" in a smaller range of interfaces.
Recovery	Remove "speed-duplex 1000-full" configuration in standby/member and Configure the "speed-duplex 1000-full" in a smaller range of interfaces.
Probability	Medium
Found In	FI 08.0.70
Technology / Technology Group	System - System

Issue	FI-193051
Symptom	When the cable is unplugged from the ICX standby unit, the port stays up.
Condition	Port remains up when the cable is unplugged from the ICX standby unit.
Workaround	None
Recovery	None
Probability	Low
Found In	FI 08.0.70
Technology / Technology Group	System - System

Issue	FI-204805
Symptom	In ICX7150, the 2.5g port downshifts to 1g.
Condition	When ICX7150 is connected with R730 AP, the 2.5g port downshifts to 1g.
Workaround	None
Recovery	None
Probability	Low
Found In	FI 08.0.90
Technology / Technology Group	System - System

Issue	FI-204469
Symptom	ICX7250 losts start-up and license files when there is power outage.
Condition	This is a NAND flash HW (ECC) error, and this can occur randomly at boot time.
Workaround	
Recovery	
Probability	
Found In	FI 08.0.70
Technology / Technology Group	Management - Licensing

Issue	FI-204399
Symptom	The console login prompt overlaps with the longer MOTD message configured.
Condition	
Workaround	
Recovery	
Probability	
Found In	FI 08.0.90
Technology / Technology Group	

Issue	FI-204154
Symptom	ICX switch may encounter unexpected reload.
Condition	The ICX switch may be reloaded when 'dm verify-device-cert' command is issued.
Workaround	Do not use the 'dm verify-device-cert' command.
Recovery	None,
Probability	
Found In	FI 08.0.90
Technology / Technology Group	

Issue	FI-204085
Symptom	During stack switchover active unit system resets when we have uRPF and IPv6 static route with NULL0 nexthop interface configured.
Condition	When uRPF is enabled globally and IPv6 static route with NULL0 nexthop interface is configured, system reset is seen during stack switchover.
Workaround	None
Recovery	None
Probability	
Found In	FI 08.0.90
Technology / Technology Group	

Issue	FI-203688
Symptom	10 G port ICX7150-C12 is not coming up when connected to ICX7150-C08P via 1Gig SFP
Condition	Connect 10 G port of ICX7150-C12 to 1G port of ICX7150-C08P with 1G SFP
Workaround	
Recovery	None
Probability	Low
Found In	FI 08.0.91
Technology / Technology Group	

Issue	FI-202279
Symptom	Unexpected reload will be observed when SZ disconnect command is invoked.
Condition	Invoke SZ disconnect command from console.
Workaround	None
Recovery	None
Probability	
Found In	FI 08.0.91
Technology / Technology Group	Other - Other

Issue	FI-202974
Symptom	No warning message is displayed when Deny Acl drops the traffic.
Condition	Configure Deny ACL to drop traffic from a particular host via SNMP. When the deny ACL is hit, the warning message is not displayed.
Workaround	None
Recovery	None
Probability	Low
Found In	FI 08.0.90
Technology / Technology Group	

Issue	FI-203554
Symptom	ICX sends PIM Join/Prune messages with prefix set to 32 for IPv6 SSM group addresses.
Condition	When ICX device is configured with IPv6 SSM group addresses, it sends PIM Join/Prune messages with prefix set to 32 instead of 128. As a result, the client would not join/prune.
Workaround	None
Recovery	None
Probability	
Found In	FI 08.0.91
Technology / Technology Group	

Issue	FI-203449
Symptom	The excessive DHCP Snooping SYSLOGs will be generated.
Condition	
Workaround	
Recovery	
Probability	
Found In	FI 08.0.90
Technology / Technology Group	

Issue	FI-203359
Symptom	Password is displayed as plain text on configuring "password display"
Condition	"show ip bgp neigh" displays the password as plain text
Workaround	
Recovery	None
Probability	High
Found In	FI 08.0.90
Technology / Technology Group	

Issue	FI-203345
Symptom	IPC error message is printed when one of the stack member unit freeze during stack formation.
Condition	One of the unit in a stack freeze during stack formation.
Workaround	None
Recovery	None
Probability	Low
Found In	FI 08.0.90
Technology / Technology Group	Stacking - Stack Management

Issue	FI-202303
Symptom	Occasionally ICX might unexpectedly reload while executing CLI "show snmp engineid".
Condition	1. When SNMP engine UP time is more than a day 2. Invoke CLI "show snmp engineid".
Workaround	None
Recovery	None
Probability	Medium
Found In	FI 08.0.90
Technology / Technology Group	Management - SNMP - Simple Network Management Protocol

Issue	FI-202630
Symptom	Adding support for Juniper's SPQ-CE-LR-CDFB-R1 100G LR4 support on Ruckus ICX switch
Condition	Adding support for Juniper's SPQ-CE-LR-CDFB-R1 100G LR4 support on Ruckus ICX switch
Workaround	NA
Recovery	NA
Probability	High
Found In	FI 08.0.90 FI 08.0.92 FI 08.0.95
Technology / Technology Group	

Issue	FI-202215
Symptom	The interface configuration "ip ospf active" is not taking precedence over the global configuration "default-passive-interface".
Condition	If "default-passive-interface" is configured under "router ospf" after "ip ospf active" is configured on the interface, then the interface is incorrectly placed in the passive mode.
Workaround	Configure "no ip ospf active" followed by "ip ospf active" on the interface.
Recovery	
Probability	
Found In	FI 08.0.90
Technology / Technology Group	Layer 3 Routing/Network Layer - OSPF - IPv4 Open Shortest Path First

Issue	FI-201629
Symptom	Adding the second DC power supply causes the ICX device to reload.
Condition	When the ICX device is running with one DC power supply, inserting another DC or AC power supply causes the device to be reloaded.
Workaround	
Recovery	
Probability	
Found In	FI 08.0.80
Technology / Technology Group	Other - Other

Issue	FI-202035
Symptom	Unexpected reload of the ICX device is seen when nslookup command is invoked through SSH session.
Condition	1. Configure Ipv6 DNS server 2. Call nslookup from SSH Session
Workaround	None
Recovery	None
Probability	High
Found In	FI 08.0.90 FI 08.0.91
Technology / Technology Group	Layer 3 Routing/Network Layer - DNS - Domain Name System

Issue	FI-202004
Symptom	ICX7750 port LEDs do not light up when upgraded to 8090c.
Condition	This symptom is seen after the switch is upgraded to 8090c release.
Workaround	Switch can be downgraded to 8090b.
Recovery	Switch can be downgraded to 8090b.
Probability	High
Found In	FI 08.0.90
Technology / Technology Group	System - Optics

Issue	FI-201783
Symptom	Link is down on 10GF port with 1G optic after a reboot
Condition	Link is down on 10GF port with 1G optic after a reboot
Workaround	no workaround
Recovery	set the speed to 10G and reset it to 1G
Probability	
Found In	FI 08.0.91
Technology / Technology Group	System - Optics

Issue	FI-201895
Symptom	Openflow command is accepted on LAG interface which is not supported.
Condition	Apply open flow command on LAG interface and it is accepted without any error.
Workaround	None
Recovery	None
Probability	Low
Found In	FI 08.0.90
Technology / Technology Group	Other - Other

Issue	FI-201881
Symptom	"Invalid port" error is thrown in the ICX device for a non-existent interface.
Condition	1. Configure sflow in an interface 2. Make the interface invalid by removing the corresponding module 3. write mem and re-load
Workaround	None
Recovery	None
Probability	
Found In	FI 08.0.70
Technology / Technology Group	Management - sFlow

Issue	FI-201618
Symptom	standby unit reboot on ARP sync from master
Condition	ARP sync from master to standby on the stack environment
Workaround	
Recovery	
Probability	Low
Found In	FI 08.0.90
Technology / Technology Group	Layer 3 Routing/Network Layer - ARP - Address Resolution Protocol

Issue	FI-200698
Symptom	A stack can see two Active switches under certain conditions.
Condition	When an active unit resets, the standby unit takes over and becomes the new active controller. The old active comes back as an active controller, but it will be reset by the new active controller to come up as a member. (A stack system can have only one active controller.) The problem is that it takes more than one minute for the new active controller to reset the old active controller. The data ports of the old unit have come up. Then other devices that has link aggregation (LAG) to the ports of both units will messed up because the old unit will soon be reloaded.
Workaround	The issue eventually recovers after the old active controller is reloaded again. However, this cause traffic interruption for the transit period.
Recovery	None
Probability	Low
Found In	FI 08.0.80 FI 08.0.90 FI 08.0.91
Technology / Technology Group	Stacking - Stack Management

Issue	FI-200759
Symptom	DHCP packets are dropped at the ICX which operate as DHCP-Relay
Condition	DHCP-Relay and DHCP-Server are enabled in ICX with no address pool configuration.
Workaround	If there are no address-pool, the DHCP-Server configuration can be removed.
Recovery	
Probability	
Found In	FI 08.0.90
Technology / Technology Group	

Issue	FI-201269
Symptom	Unexpected reload is seen when fitrace is issued through ssh
Condition	Invoke the below mentioned fitrace commands from a SSH session fitrace reset fitrace rate-limiting dis fitrace max unlimited fitrace destination terminal fitrace modules szagt_debug all level 1,2,3,4,5 fitrace modules ssh all level 1,2,3,4,5
Workaround	
Recovery	None
Probability	Medium
Found In	FI 08.0.90
Technology / Technology Group	

Issue	FI-201109
Symptom	The phone session gets cleared around every minute with the error message "[Termination-cause: Phone-Toggle]".
Condition	Phone session is constantly cleared with Mac-filter override for 802.1x port is configured.
Workaround	
Recovery	
Probability	
Found In	FI 08.0.70 FI 08.0.90
Technology / Technology Group	Security - 802.1x Port-based Authentication

Issue	FI-200763
Symptom	ICX does not re-authenticate the clients under certain rare conditions.
Condition	When the MAC address moves from port to port, MAC authentication also needs to be re-tried.
Workaround	None
Recovery	Issue 'clear auth session' to trigger the re-authentication.
Probability	Medium
Found In	FI 08.0.90
Technology / Technology Group	Security - MAC Port-based Authentication

Issue	FI-201171
Symptom	ICX devices running as CB unit in SPX setup goes for unexpected reload.
Condition	When the ACL filter is modified/duplicated, ICX devices running as CB unit in SPX setup goes for unexpected reload.
Workaround	
Recovery	
Probability	
Found In	FI 08.0.90
Technology / Technology Group	Security - ACLs - Access Control Lists

Issue	FI-200747
Symptom	In ICX7850 devices, the transfer rate is only around 1 Gbits/sec on 10 Gig interfaces.
Condition	When connected to the devices which sends out huge traffic without congestion control, the ICX7850 device's traffic rate is lowered.
Workaround	
Recovery	
Probability	
Found In	FI 08.0.90
Technology / Technology Group	

Issue	FI-200094
Symptom	ICX reports PD Detection Fault log and CLI command "show inline power debug-info <port>" output shows 0x1E Underload State.
Condition	Legacy Samsung phone is being connected on PoE port rarely goes to underload state.
Workaround	None
Recovery	None
Probability	Low
Found In	FI 08.0.60 FI 08.0.90
Technology / Technology Group	System - System

Issue	FI-200719
Symptom	OSPF adjacency will not form when MD5 authentication and KEYCHAIN is enabled.
Condition	Configure KEYCHAIN and MD5 authentication. Ospf adjacency will fail.
Workaround	
Recovery	None
Probability	Medium
Found In	FI 08.0.90
Technology / Technology Group	Layer 3 Routing/Network Layer - OSPF - IPv4 Open Shortest Path First

Issue	FI-200553
Symptom	IGMP join messages that are initiated by the client are not reflected in the IGMP tables.
Condition	When the client application is leaving a group and joining another group and if it is sending IGMP join messages that are initiated by the client (not as a response to a query) are not reflected in the IGMP tables.
Workaround	
Recovery	
Probability	
Found In	FI 08.0.70
Technology / Technology Group	IP Multicast - IGMP - Internet Group Management Protocol

Issue	FI-196017
Symptom	In ICX7450, the link fault signalling is not working in 10G port.
Condition	When ICX7450 devices are connected through 10G ports, if Rx cable of one of the devices is removed, the other side port status is still shown as Up though link fault signalling is configured.
Workaround	
Recovery	
Probability	
Found In	FI 08.0.70 FI 08.0.80
Technology / Technology Group	System - Optics

Issue	FI-199642
Symptom	PoE power flap might be observed for some of the ports connected to POE device
Condition	When link is down on multiple ports and if PDs are not connected, POE port flaps will be experienced.
Workaround	Disable Non-PD detection using "no inline power non-pd-detection enable"
Recovery	Power recovers automatically.
Probability	Low
Found In	FI 08.0.70
Technology / Technology Group	Management - PoE/PoE+ - Power over Ethernet

Issue	FI-196102
Symptom	POE devices losing power during simulated redundant PS failure even though allocated power at failure is <740 watts
Condition	Have a redundant power source and make sure power drawn from ports. Make the redundant source to power down.
Workaround	None
Recovery	None
Probability	Medium
Found In	FI 08.0.61
Technology / Technology Group	

Issue	FI-198548
Symptom	ICX device might experience NTP Synchronization error occasionally when the server is not reachable.
Condition	When there is NTP synchronization error and the ICX device is not able to recover by itself, invoke the new NTP reset CLI.
Workaround	Stack Switch-over
Recovery	None
Probability	Low
Found In	FI 08.0.70
Technology / Technology Group	Management - NTP - Network Time Protocol

Issue	FI-199944
Symptom	LLDP will not work. Link level peer system detection will not work.
Condition	When peer system uses destination MAC addresses 0180.c200.0000 or 0180.c200.0003 for sending LLDP packets, ICX system will not detect these packets as LLDP packets.
Workaround	None at ICX.
Recovery	None
Probability	
Found In	FI 08.0.70
Technology / Technology Group	

Issue	FI-200159
Symptom	The switch gets into boot cycle when the image in USB and the flash version are the same.
Condition	1.Have an ICX7150 with 8091 image 2.Have a USB drive with the system-files plugged in into the ICX7150 3.Reboot the ICX7150 4.The Switch will go into a boot cycle flashing the image.
Workaround	
Recovery	
Probability	
Found In	FI 08.0.91
Technology / Technology Group	

Issue	FI-200346
Symptom	The next-bootstrap-server option config is not allowed.
Condition	When configuring the next-bootstrap-server feature, the error "Error: Configured option <54> is default/unsupported" is thrown.
Workaround	
Recovery	
Probability	
Found In	FI 08.0.70
Technology / Technology Group	

Issue	FI-200299
Symptom	UDP ports 2068 to 2090 are seen as OPEN when connected via console/telnet/ssh
Condition	When scanning for UDP ports using tools like netcat, the ports 2068 to 2090 are seen as OPEN when connected via Console/Telnet/SSH
Workaround	
Recovery	
Probability	
Found In	FI 08.0.90
Technology / Technology Group	Cloud Management - DNS

Issue	FI-199873
Symptom	Multicast application traffic works for 40 seconds then it stops for 20 seconds before returning for 40 seconds and so on.
Condition	1. Have multicast routing traffic 2. mcahce entry might get deleted before subsequent packet can come after the first packet
Workaround	1. Add static igmp-group for all 6 groups under ve2267 2. change the PIM timers to less than default timer of 60s (e.g. to 30 sec)
Recovery	
Probability	
Found In	FI 08.0.30 FI 08.0.90
Technology / Technology Group	IP Multicast - IPv4 Multicast Routing

Issue	FI-198638
Symptom	In the ICX devices running with 8090x or later code, the memory leak might be seen when it is connected to SmartZone.
Condition	Memory leaks are seen when ICX is connected to SmartZone.
Workaround	None
Recovery	None
Probability	
Found In	FI 08.0.90
Technology / Technology Group	

Issue	FI-190564
Symptom	RSTP may flap occurs due to high CPU utilization while supportsave execution is in progress.
Condition	Executing supportsave command occasionally causes RSTP flap.
Workaround	None
Recovery	None
Probability	Low
Found In	FI 08.0.61
Technology / Technology Group	System - System

Issue	FI-199351
Symptom	SnmpGet of the OID “dot1qVlanStaticTable” fetches wrong values
Condition	When SnmpGet of the OID “dot1qVlanStaticTable” is performed, it retrieves wrong values.
Workaround	None
Recovery	None
Probability	High
Found In	FI 08.0.30
Technology / Technology Group	Management - SNMP - Simple Network Management Protocol

Issue	FI-198991
Symptom	When ICX is connected with SZ, outbound SCP SSH connection will fail occassionally.
Condition	Invoke SCP or SSH connection when SZ is connected.
Workaround	Retry the SSH or SCP connection
Recovery	None
Probability	Medium
Found In	FI 08.0.90
Technology / Technology Group	Cloud Management - SSH

Issue	FI-198824
Symptom	Not able to backup ICX Running Config to Linux Machine through SCP.
Condition	Trigger Running-config copy from Linux Machine through SCP.
Workaround	None
Recovery	None
Probability	High
Found In	FI 08.0.30
Technology / Technology Group	Management - SSH2 & SCP - Secure Shell & Copy

Issue	FI-198920
Symptom	"show authentication all" sometimes show data-VLAN for phones.
Condition	MAC-Authentication/802.1x authentication is enabled on interface and a phone is authenticated.
Workaround	-
Recovery	-
Probability	High
Found In	FI 08.0.90
Technology / Technology Group	Security - 802.1x Port-based Authentication

Issue	FI-199067
Symptom	Stack unit might reload when ping to VRRP IP address.
Condition	Ping to VRRP IP address.
Workaround	
Recovery	
Probability	
Found In	FI 08.0.70
Technology / Technology Group	Other - Other

Issue	FI-190519
Symptom	Access points show offline on virtual smart zone when the ICX reboots when it is connected in 2.5 GBPS port.
Condition	When ICX is connected with virtual smart zone on 2.5GBPS port.
Workaround	None
Recovery	None
Probability	Medium
Found In	FI 08.0.70
Technology / Technology Group	System - System

Issue	FI-198838
Symptom	DSCP traffic is not load balanced according to the configured value.
Condition	Configure ingress rate limiting
Workaround	None
Recovery	None
Probability	
Found In	FI 08.0.61
Technology / Technology Group	

Issue	FI-198474
Symptom	Port utilization Receive and Transmit Peak values are displayed more than 100% while checking through web-management.
Condition	Device statistics are read by accessing the device through web-management.
Workaround	-
Recovery	-
Probability	
Found In	FI 08.0.90
Technology / Technology Group	Management - Web Management

Issue	FI-198815
Symptom	The standby unit of ICX device reboots while configuring local username and password.
Condition	ICX is in stack and local username is configured.
Workaround	-
Recovery	-
Probability	
Found In	FI 08.0.70
Technology / Technology Group	Management - CLI - Command Line Interface

Issue	FI-198247
Symptom	Image copy might fail to PE via USB UFI upgrade.
Condition	
Workaround	
Recovery	
Probability	
Found In	FI 08.0.90
Technology / Technology Group	System - System

Issue	FI-197864
Symptom	This issue can be caused by the UBIFS errors and re-formatting as follows. UBIFS error (ubi0:0 pid 566): ubifs_recover_leb: corrupt empty space LEB 3:12288, corruption starts at 1009713 UBIFS error (ubi0:0 pid 566): ubifs_scanned_corruption: corruption at LEB 3:1022001 UBIFS error (ubi0:0 pid 566): ubifs_scanned_corruption: first 8192 bytes from LEB 3:1022001 UBIFS error (ubi0:0 pid 566): ubifs_recover_leb: LEB 3 scanning failed mount: mounting ubi0:config on / fast_iron failed: Structure needs cleaning Mounting Config partition failed, non-recoverable file system corruption Reformatting the flash, please download config and keys again ... Formatting Done
Condition	This is a NAND flash HW (ECC) error, and this can occur at random at boot.
Workaround	There is no workaround.
Recovery	
Probability	
Found In	FI 08.0.60
Technology / Technology Group	System - System

Issue	FI-197115
Symptom	System resets occasionally while upgrading software in ICX stack.
Condition	While upgrading ICX software from 8030x, ICX stack resets.
Workaround	None
Recovery	None
Probability	Medium
Found In	FI 08.0.70
Technology / Technology Group	Stacking - Secure Setup, Autoconfig, Manifest files, Autocopy

Issue	FI-197616
Symptom	Active unit of the stack reloads unexpectedly when console to member units.
Condition	When console to any of the member units in a 7 or more units stack, the active unit reloads after few minutes.
Workaround	None
Recovery	None
Probability	
Found In	FI 08.0.70
Technology / Technology Group	

Issue	FI-197061
Symptom	Ocassionally, when the SCP script is run in the background to backup the running Config of ICX device, access to flash will be denied for 20 minutes.
Condition	User will receive the message "Flash access in progress. Please try later" when issuing 'write mem' and if SCP script is run in the background to backup the running Config.
Workaround	NA
Recovery	NA
Probability	Low
Found In	FI 08.0.70
Technology / Technology Group	

Issue	FI-197601
Symptom	System startup time is incorrect in "sh version" output.
Condition	Execution of the command "show version"
Workaround	None
Recovery	None
Probability	High
Found In	FI 08.0.30
Technology / Technology Group	Management - NTP - Network Time Protocol

Issue	FI-197402
Symptom	When connected to the member unit console, cannot get into the enabled mode.
Condition	When consoled into any of the member units in a 7 or more units stack, enabled mode is not allowed.
Workaround	
Recovery	
Probability	
Found In	FI 08.0.70
Technology / Technology Group	

Issue	FI-197605
Symptom	When stack is disabled, other feature configs is not allowed in stack ports.
Condition	Disable the stack with "no stack enable" Apply configs to the stack port. Error will be received.
Workaround	
Recovery	None
Probability	Medium
Found In	FI 08.0.90
Technology / Technology Group	

Issue	FI-197128
Symptom	Occasionally, 'show flash' command shows the primary and secondary image files are empty and flash free space is zero.
Condition	'show flash' CLI command output shows the primary and secondary image files are empty and flash free space is zero.
Workaround	None
Recovery	None
Probability	Low
Found In	FI 08.0.70
Technology / Technology Group	System - System

Issue	FI-197382
Symptom	Unexpected reboot on removing lag config
Condition	In MCT setup, issue "no lag <lag-id>" command to remove lag config
Workaround	None
Recovery	None
Probability	
Found In	FI 08.0.61
Technology / Technology Group	Layer 2 Switching - LAG - Link Aggregation Group

Issue	FI-197358
Symptom	The member units in a stack reloads unexpectedly.
Condition	When MAC notification is enabled, sometimes the member units in a stack reloads unexpectedly due to memory leak.
Workaround	None
Recovery	None
Probability	
Found In	FI 08.0.70
Technology / Technology Group	

Issue	FI-197066
Symptom	When enabling the advanced features such as as 'router ospf', 'router pim', 'tunnel mode gre ip', in ICX device, it won't accept Y or N for user acceptance message.
Condition	The ICX devices won't accept Y or N when enabling the advanced features such as 'router ospf', 'router pim', 'tunnel mode gre ip', if 'aaa accounting commands 0 default start-stop tacacs+ none' and 'aaa console' or 'aaa authentication login default tacacs+ local' configs are present.
Workaround	
Recovery	
Probability	
Found In	FI 08.0.70
Technology / Technology Group	

Issue	FI-197251
Symptom	The ICX device reloads spontaneously when SCP is performed from or to the device.
Condition	SCP is tried from/to the ICX device.
Workaround	-
Recovery	-
Probability	
Found In	FI 08.0.70
Technology / Technology Group	Management - SSH2 & SCP - Secure Shell & Copy

Issue	FI-195514
Symptom	ACL applied on physical interfaces/virtual interface will not block all UPnP packets.
Condition	ACL is applied to block UPnP packets.
Workaround	None
Recovery	None
Probability	Medium
Found In	FI 08.0.80
Technology / Technology Group	Security - ACLs - Access Control Lists

Issue	FI-191652
Symptom	Crash is seen when IPV6 client is trying to get an IP address from dhcpv6 server with dhcpv6 snooping enabled.
Condition	Issue is seen only when Dhcpv6 snooping is enabled and client is getting IP address from the server .
Workaround	N/A
Recovery	N/A
Probability	
Found In	FI 08.0.70
Technology / Technology Group	

Issue	FI-193916
Symptom	On ICX device, ssh session hangs sometimes without displaying prompt.
Condition	Sometimes ssh login might hang after the initial password entry.
Workaround	Retry the ssh login, and it'll succeed.
Recovery	None
Probability	
Found In	FI 08.0.80
Technology / Technology Group	Management - SSH2 & SCP - Secure Shell & Copy

Issue	FI-196466
Symptom	Private VLAN port is allowed to be configured in a regular VLAN and vice versa with the following message. "Warning: port <x> in Private VLAN is added to Regular VLAN <y> as Tagged Member.
Condition	Customer should have PVLAN and regular VLAN configured.
Workaround	N/A
Recovery	N/A
Probability	High
Found In	FI 08.0.80
Technology / Technology Group	Security

Issue	FI-194094
Symptom	In SPX setup, CB unit might reload unexpectedly after several days of uptime.
Condition	If we trigger a scp script when there is a configuration change in the SPX set-up to copy running-config from device to scp server .
Workaround	NA
Recovery	NA
Probability	Medium
Found In	FI 08.0.70
Technology / Technology Group	Layer 2 Switching - Switch Port Extender

Issue	FI-193199
Symptom	Removing a sequence from a ACL and reapplying doesn't work as expected.
Condition	Issue is seen only when ACL has multiple sequences. The sequence which is removed and re-added should be before a deny rule for the issue to occur.
Workaround	Remove and re-add entire ACL resolve's the issue.
Recovery	Remove and re-add entire ACL recover's the issue.
Probability	
Found In	FI 08.0.80
Technology / Technology Group	Security - ACLs - Access Control Lists

Issue	FI-193353
Symptom	IPv6 Route table full and IPv4 route table Full error messages would be printed in console.
Condition	1. Configure reverse-path-check. 2. Ping or tcp/udp scan an IPv6 subnet on ICX7K device to add more than 1024 IPv6 routes.
Workaround	
Recovery	
Probability	
Found In	FI 08.0.70
Technology / Technology Group	

Issue	FI-196472
Symptom	Sflow data showing default VLAN ID instead of VLAN where user is placed.
Condition	Sflow data shows incorrect VLAN ID in the standby unit, when the host on the port is mac-authenticated.
Workaround	None
Recovery	None
Probability	
Found In	FI 08.0.70
Technology / Technology Group	

Issue	FI-196247
Symptom	After reloading, client is not able to get the ruckus prompt for Cloudpath webauthentication if trust port Lag is applied for webauth. access-switch#sh captive-portal weblogin Configured Captive Portal Profile Details cp-name :weblogin virtual-ip :training.cloudpath.net (0.0.0.0) -->no ip and captive-portal is not reachable virtual-port :443 login-page :/enroll/RuckusWireless-26/Production/
Condition	when trust-port lag is configuration under webauth and reloaded.
Workaround	Remove and add "trust port lag" from webauth configuration
Recovery	Remove and add "trust port lag" from webauth configuration
Probability	
Found In	FI 08.0.70
Technology / Technology Group	Security - Web Authentication

Issue	FI-196484
Symptom	Mac-Authentication Syslog's and Traps are not generated
Condition	Syslog's and Traps are not generated in the following scenarios 1. Mac-Authentication failure due to Access Reject from Radius. 2. Mac-Authentication Success 3. Mac-Authentication Radius Timeout
Workaround	None
Recovery	None
Probability	High
Found In	FI 08.0.80 FI 08.0.90
Technology / Technology Group	

Issue	FI-196530
Symptom	Show stack discover neighbor command make the switch to reboot
Condition	when the cli "show stack discover neighbor" is executed.
Workaround	None
Recovery	None
Probability	Medium
Found In	FI 08.0.70
Technology / Technology Group	Cloud Management - Cloud Agent

Issue	FI-196172
Symptom	Port speed setting is not getting reverted back to auto speed-duplex on uplink 1G copper ports.
Condition	Issue is seen only with 1G copper uplink ports.
Workaround	N/A
Recovery	N/A
Probability	
Found In	FI 08.0.90
Technology / Technology Group	

Issue	FI-196064
Symptom	The edge devices will not be able to get through MAC/Dot1x authentication process.
Condition	This could happen when RADIUS server does not send response or sends the response with invalid key.
Workaround	None.
Recovery	Clear the entries using the command, clear radius radius-queue <entry-id>
Probability	Medium
Found In	FI 08.0.70 FI 08.0.30
Technology / Technology Group	Security - MAC Port-based Authentication

Issue	FI-196158
Symptom	ICX switch may reload when making configuration changes to LAG configuration.
Condition	The conditions in which the issue is occurring is not evident. This issue can happen under rare scenarios.
Workaround	None
Recovery	None
Probability	Low
Found In	FI 08.0.70
Technology / Technology Group	Layer 2 - Link Aggregation

Issue	FI-191375
Symptom	Openflow controller does not communicate to ICX on management VRF
Condition	On ICX devices, enabling VRF on management interface does not communicate with openflow controller.
Workaround	No
Recovery	NA
Probability	
Found In	FI 08.0.70 FI 08.0.80
Technology / Technology Group	SDN - OpenFlow 1.3

Issue	FI-195708
Symptom	When active unit goes down in a spanning tree enabled switch, the reachability issue is seen.
Condition	In a spanning tree enabled 2 unit stack, when active unit goes down and the standby becomes standalone, the reachability with the neighbor is lost.
Workaround	Disabling and enabling the interface connected to the neighbor.
Recovery	
Probability	
Found In	FI 08.0.70
Technology / Technology Group	

Issue	FI-195054
Symptom	Optical Monitoring is not working for 1G M-LHA(SFP)
Condition	Issue is seen only with SFP types 1G M-LHA(SFP) Part# : 57-0000194-01
Workaround	N/A
Recovery	N/A
Probability	Medium
Found In	FI 08.0.30
Technology / Technology Group	System - Optics

Issue	FI-194710
Symptom	BPDU loop causes high CPU in MSTP.
Condition	When RSTP is configured on ICX setup, where ICX receives MSTP packets from peer device.
Workaround	None
Recovery	None
Probability	Medium
Found In	FI 08.0.70
Technology / Technology Group	Layer 2 - Link Aggregation

Issue	FI-194208
Symptom	ICX7750-48F 10/40 Gbps LED stays as steady green.
Condition	When traffic is passing through ICX7750-48F, 10/40 Gbps LED stays as steady green instead of blinking.
Workaround	None
Recovery	None
Probability	
Found In	FI 08.0.70
Technology / Technology Group	

Issue	FI-190581
Symptom	The reading of optics power fails.
Condition	When the customer runs "show optic" command, the error "Optical monitoring is in progress, please try later" is thrown and so not able to read the optics power.
Workaround	
Recovery	
Probability	
Found In	FI 08.0.70 FI 08.0.61 FI 08.0.80
Technology / Technology Group	Monitoring - Hardware Monitoring

Issue	FI-194347
Symptom	Sensors connected to ICX on 10Gb port stops working after a period of time.
Condition	When sensors are connected to ICX on 10Gb port, they stop working due to autonegotiation issue with 100M after a period of time.
Workaround	Disable and enable the port recovers ths issue.
Recovery	None
Probability	Low
Found In	FI 08.0.70
Technology / Technology Group	System - System

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