



Firmware for ICS-G7850A Series Release Notes

Version: v5.8	Build: 21073015
Release Date: Sep 15, 2021	

Applicable Products

N/A

Supported Operating Systems

N/A

New Features

N/A

Enhancements

- The CPU utilization now displays a percentage instead of "Normal" and "Busy".
- Firmware upgrade processing status is displayed.
- Email addresses can contain up to 39 characters.
- Email Mail Servers can contain up to 39 characters.
- Enhanced SSH with secure key exchange algorithm, Diffie-Hellman Group 14.
- Improved random distribution of TCP Initial Sequence Number (ISN) values.
- Added an additional encryption option and command to the web UI and CLI.

Bugs Fixed

- [MSRV-2017-002][CVE-2019-6563] Predictable Session ID: Supports random salt to prevent session prediction attack of HTTP/HTTPS.
- [MSRV-2017-003][CVE-2019-6526] Encryption of sensitive data is missing: Supports encrypted Moxa service with enable/disable button on the GUI to support the communication of encrypted commands with MXconfig/MXview.
- [MSRV-2017-004][CVE-2019-6524] Improper restriction of excessive authentication attempts: Supports encrypted Moxa service with enable/disable button on the GUI to support the communication of encrypted commands with MXconfig/MXview.
- [MSRV-2017-005][CVE-2019-6559] Resource exhaustion: Supports encrypted Moxa service with enable/disable button on the GUI to support the communication of encrypted commands with MXconfig/MXview.
- [MSRV-2019-006] Denial of Service by PROFINET DCE-RPC Endpoint discovery packets.
- The device would restart due to memory leak during the Nmap (a freeware that can scan the available ports) scanning test.
- RSTP Port Status error with Modbus TCP.
- Trunk port was not shown correctly in the LLDP table.
- The head switch of Turbo Chain was blocked when connecting to a Cisco switch.
- SNMP v3 memory leak.
- The device rebooted when performing a Nessus basic scan.
- MAC authentication bypass with RADIUS re-authentication.
- When SNMP pooled every 10 seconds, the system would perform a cold start after 25 minutes.
- The LLDP Table hung up in a serial console.
- Packet flooding from MGMT VLAN to redundancy port PVID VLAN.
- CERT could not be imported.
- Error with Turbo Ring v2 and port trunk LLDP display, recovery time and log miswrite.
- Relay warning did not work properly after the system rebooted.
- RSTP was not activated correctly through the configuration file import.
- Incorrect value for IGMP Query Interval on the exported configuration file.



- Logging into the web console failed if authentication with local RADIUS and account lockout were both enabled at the same time.
- Turbo Ring v2 looped when too many slaves in the ring were powered on at the same time.
- Switch automatically performed a cold start when receiving specific SNMPv3 packets.
- [CRM #200811300717] If a username had a capitalized letter then the user would not be able to log in using Menu mode.
- [CRM #190726273178] Unauthorized 802.1x devices could receive multicast and broadcast packets.
- [CRM #210115312454] Trap Server Host Name cannot be set via web GUI.
- [CRM #201019305310] Incorrect SNMPv3 msgAuthoritativeEngineBoots behavior that the value will not count up after switch reboot.
- [CRM #200702298391] The relay trigger function by port traffic overload does not work.
- The VRRP advertisement timer may be calculated incorrectly and cause a value overflow. This will cause the VRRP master to be unable to send the VRRP Advertisement, resulting in dual VRRP masters.

Changes

- The IEEE 802.1x traffic enablement method has changed from MAC-based to port-based.
- The length of the 802.1x username is increased from 32 bytes to 64 bytes.
- Implemented VRRP data tracking codes for debugging purposes

Notes

- MSRV is Moxa's internal security vulnerability tracking ID.

Version: v5.6	Build: Build_18110819
Release Date: Jan 18, 2019	

Applicable Products

ICS-G7850A Series

Supported Operating Systems

N/A

New Features

Layer 3:

- Supports tracking function
- Supports DSCP remark
- Supports traceroute in CLI command

Security Related Functions

- System Notification: Definable successful/failed login notification.
- Password Policy: Password strength can be set.
- Account Lockout Policy: Failure threshold and lockout time can be set.
- Log Management: Full log handling.
- Remote Access Interface Enable/Disable.
- Configuration Encryption with password.
- Support SSL certification import.
- Support MAC authentication bypass via RADIUS authentication.
- MAC Address access control list or MAC address filtering.
- Protect against MAC flooding attack by MAC address sticky.
- NTP authentication to prevent NTP DDoS attack.
- Login Authentication: Support primary & backup database servers (RADIUS / TACACS+ / Local Account).
- Login Authentication via RADIUS Server: Support Challenge Handshake Authentication Protocol (CHAP) authentication mechanism.
- RADIUS Authentication: Support EAP-MSCHAPv2 (For Windows 7).
- MXview Security View Feature Support* (with MXstudio V2.4).

Redundancy

- Turbo Ring v2, Turbo Chain Support Port Trunking

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Enhancements

- Web GUI supports web browser Chrome 65.0
- CLI: Supports Multiple Sessions (up to six).
- SMTP Supports Transport Layer Security (TLS) Protocol and Removes SSL v2/v3.
- SNMPv3 Traps and Informs.
- Display Issues with Java Applet.
- Fiber Check: Add Threshold Alarm.
- Static Port Lock with VLAN filtering option.
- When GbE Port Speed is [Auto], MDI/MDIX is [Auto] Fixed.
- Web UI/CLI Command Enhancement and Modification.

Bugs Fixed

- Fix abnormal display of packet counter in the web GUI.



- When the device receives large amounts of BPDU packets on a port, the RSTP function does not enable, which might cause the device to reboot.
- If there is an '&' in either the Switch Name or Switch Location column, the description will not display properly on the relevant page.
- If Turbo Chain is established on slot 9 it might not be stable.

Changes

- Remove the VEE indicator on the PoE function
- Rate limit adds more options on the ingress rate

Notes

Suggestion:

- Reconfigure the device once you have upgraded to v5.x
- To ensure that the system remains stable, do not export configurations from v4.x or prior into v5.x or later



Version: v4.3	Build: Build_16070716
Release Date: Feb 17, 2017	

Applicable Products

ICS-G7850A-2XG-HV-HV

Supported Operating Systems

N/A

New Features

N/A

Enhancements

N/A

Bugs Fixed

- Fixed Fast VRRP instances with double Masters issue when enabling the loop protection function.
- Fixed config import issue (ACL & Multicast local route).
- If the switch had a PoE module and a SFP module, the SFP module may not link when rebooting.
- Fixed L3 switch reboot when enabling OSPF.
- VRRP (V-ON) was unstable when fiber port experienced link-down.
- VRRP (V-ON) backup unit caused CPU to experience very high loading and the web UI was very slow.

Changes

N/A

Notes

N/A



Version: v4.2	Build: Build_15062312
Release Date: N/A	

Applicable Products

ICS-G7850A-2XG-HV-HV

Supported Operating Systems

N/A

New Features

- Added new Multicast Fast Forwarding Mode.
- Added new VRRP Fast Switchover Mode.
- Added new Multicast Local Route.

Enhancements

- Increased IGMP Groups to 4096 (original 1000 groups).
- Improved Turbo Chain link status check mechanism at the head port.

Bugs Fixed

- Device rebooted when it used CLI commands to back up device configurations to the TFTP server.
- Device rebooted when using CLI commands to change SNMP v3 data encryption key and the length of the key is over 100 characters.

Changes

N/A

Notes

N/A



Version: v4.1	Build: Build_15030209
Release Date: N/A	

Applicable Products

ICS-G7850A-2XG-HV-HV

Supported Operating Systems

N/A

New Features

N/A

Enhancements

N/A

Bugs Fixed

- PIM-SM multicast forwarding issues.
- Randomly hang issue while booting up.
- Flow control did not work on the ICS-G7850A Series.
- Topology drawing issue on MXview.
- In IGMPv3, forward multicast packets on MSTP DISABLED-STATUS port failed.
- Failed to add Static default route (0.0.0.0/0) through Web console.
- Randomly failed to recognize Moxa SFP modules.
- In OSPF routing protocol, 10 G ports had incorrect path cost.
- Randomly failed to connect to the ABC-02.
- HTTPS certification validity issue.
- Reboot issue while TFTP upgrading firmware with incorrect CLI command.
- ACL CLI command failed on rules with Ether-type is 0 or IP-protocol is 0.
- Hang issue while IGMP join and leave frequently.

Changes

N/A

Notes

N/A



Version: v4.0	Build: Build_14093015
Release Date: N/A	

Applicable Products

ICS-G7850A-2XG-HV-HV

Supported Operating Systems

N/A

New Features

- First release for the ICS-G7850A Series.

Enhancements

N/A

Bugs Fixed

N/A

Changes

N/A

Notes

N/A