Firmware for ICS-G7848A 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-G7848A 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 atack 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-G7848A-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 loop protection function.
• Fixed config import issue (ACL & Multicast local route)
• If the switch have PoE module and SFP module, SFP module may do not link when rebooting.
• Fixed L3 switch reboot when enabling OSPF.
• VRRP (V-ON) is unstable when fiber port is link-down.
• VRRP (V-ON) backup unit causes CPU high loading and web UI display very slowly.

Changes

N/A

Notes

N/A

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

Applicable Products

ICS-G7848A-HV-HV

Supported Operating Systems

N/A

New Features

• Add new Multicast Fast Forwarding Mode.
• Add new VRRP Fast Switchover Mode.
• Add new Multicast Local Route.

Enhancements

• Increase IGMP Groups to 4096 (original 1000 groups).
• Improve Turbo Chain link status check mechanism at the head port.

Bugs Fixed

• Device will reboot when using CLI command to backup device configuration to TFTP server.
• Device will reboot when using CLI command to change SNMP v3 data encryption key and the length of key is over than 100 characters.

Changes

N/A

Notes

N/A

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

Applicable Products

ICS-G7848A-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 not work on ICS-G7852A series
- Topology drawing issue on MXview
- In IGMPv3, fail to forward multicast packets on MSTP DISABLED-STATUS port
- Fail to add Static default route (0.0.0.0/0) through Web console
- Randomly fail to recognize Moxa SFP modules
- In OSPF routing protocol, 10G ports have incorrect path cost
- Randomly fail to connect to ABC-02
- HTTPS certification validity issue
- Reboot issue while TFTP upgrading firmware with incorrect CLI command
- ACL CLI command fail 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-G7848A-HV-HV

Supported Operating Systems

N/A

New Features

• First release.

Enhancements

N/A

Bugs Fixed

N/A

Changes

N/A

Notes

N/A