



## OS Image for UC-4400A Series (MIL v3.4) Release Notes

<b>Version: v1.2</b>	<b>Build: 25061603</b>
<b>Release Date: Sep 19, 2025</b>	

### Applicable Products

UC-4400A Series

### Supported Operating Systems

Moxa Industrial Linux 3 (Debian 11)

### New Features

- Supports mDNS for device discovery with the default port 5353 enabled.
- Moxa Connection Manager (MCM):
  - Adds the "dyn\_conf" option to the "moxa-connect-manager" command to modify the configuration cache.
  - Software Wi-Fi AP support enables remote access to devices.

The software Wi-Fi AP supports up to three clients, operates only on the 2.4 GHz frequency, and is recommended for troubleshooting purposes rather than critical data transmission or essential functions.

- Supports "Multi-WAN", a new interface type to route traffic to the interface from which it originates.
- Adds the "mx-connect-mgmt debug diag" command to UC-445xA models with a 5G module.
- Supports Wi-Fi Enhanced Open™ based on the Opportunistic Wireless Encryption (OWE)

### Enhancements

- EN 18031-1 (RED) compliant wireless cybersecurity.  
To comply with EN 18031-1 wireless cybersecurity, the standard version of Moxa Industrial Linux (MIL) 3.4 includes the following changes:
  - Adds a PAM login policy  
The "pam\_tally2" mechanism locks the account for 300 seconds after five failed login attempts.
  - Disables SNMPv1 and SNMPv2.
  - Moxa Guardian (MG): Adds a new mode 4 in moxa-guardian.
- Moxa Computer Interface Manager (MCIM):
  - Adds a snapshot script for the push-button.
  - The auto-mount partition feature provides additional log information to verify the success or failure of the mount operation.
  - Supports new DIO commands: add/delete/list/set hook scripts.
  - Supports new button commands: add/delete/list action scripts.
- Moxa Connection Manager (MCM):
  - Adds RSSI and RSRQ signal values.
  - Supports up to two IP target hosts for the ping mechanism.
  - Supports recovery of the cellular module when it unexpectedly stops responding
- Moxa System Decommission (MSM): Enhances the "moxa-system-manager" decommission workflow to improve resilience against interruptions, such as power failures, ensuring reliable system decommissioning.
- All tools: Adds a "-J" command option to support JSON format output for Moxa tools, including MCIM, MCM, MBM, and MSU.
- The Ethernet DHCP client ID, previously fixed to the client's MAC address, can now be configured/modified.
- The username and password fields are auto-populated when the credentials are available in the



APN profile data.

- The log-rotate strategy for standard models has been adjusted to apply daily rotation with 14 logs retained in the rsyslog group.

### **Bugs Fixed**

- Configuring eth0 as a Docker interface causes the MCM tool to fail.
- Moxa Bootloader Manager (MBM): The bootloader log is displayed incorrectly in cases where it wraps (e.g., in a circular buffer).

### **Changes**

- Moxa Computer Interface Manager (MCIM):
  - Deprecates the "user-defined" option for a button. Use the "add\_action" command to add an action script for unique names.
  - Deprecates the "DIO reload" command for UC-4400A and UC-8200 Series. The active status is now automatically updated.
- Moxa Connection Manager (MCM):
  - The software Wi-Fi AP and Wi-Fi P2P mode cannot be enabled simultaneously
  - The DHCP server will be enabled by default when the Ethernet interface is configured as a LAN.

### **Notes**

- The standard models of the UC-1200A, UC-2200A, UC-3400A, UC-4400A, and UC-8200 Series can achieve EN 18031-1 (RED) compliant wireless cybersecurity via two methods:
  - Clean OS installation: The default system is preconfigured to comply with EN 18031-1 (RED) compliant wireless cybersecurity requirements.
  - System upgrade: After upgrading to the latest OS version, execute the mx-guardian red set command to ensure EN 18031-1 (RED) compliant wireless cybersecurity.
- The "SNR metric" has been renamed to "SINR for LTE/NR cellular interfaces" in both the CLI and D-Bus interfaces.

- **Known Issues:**

Using the command "mx-sw-updater upgrade --local" to upgrade the system may fail if the device does not have Internet access.

The root cause is that the default installation strategy of "moxa-software-updater" (aligned with APT package management tool) also includes "Recommends" (not mandatory for the standard releases) packages, which may need Internet access to install.

**Workaround:** Before performing the upgrade, run the command "echo 'APT::Install-Recommends \"false\";' | sudo tee /etc/apt/apt.conf.d/99no-recommends" to exclude the "Recommends" packages from the installation process. After the upgrade is complete, run the command "sudo rm -f /etc/apt/apt.conf.d/99no-recommends" to remove this temporary setting.



<b>Version: v1.1</b>	<b>Build: 241213_061306</b>
<b>Release Date: Feb 19, 2025</b>	

### **Applicable Products**

UC-4400A Series

### **Supported Operating Systems**

Moxa Industrial Linux 3 (Debian 11)

### **New Features**

N/A

### **Enhancements**

- Includes the latest security patches.
- MCM Tool:
  - Supports IPv6 address on LAN1 when the Type changes from "managed" to "none" in Moxa Connection Manager (MCM).
  - Supports configuring the GPS antenna type (active/passive, default: passive) with MCM.
- Supports a serial port to connect to UPort "-G2" Series devices.
- Supports alias name "mg" for "mx-guardian" command.
- MSM Tool:
  - Supports compression function with Moxa System Manager (MSM) to reduce backup file size.

### **Bugs Fixed**

- LAN1 sometimes fails to obtain IPv4 and IPv6 addresses when Type is set to "none" in Moxa Connection Manager (MCM).
- Cellular data usage is displayed as zero in MCM.

### **Changes**

- The "set to default" option will only reset the configuration file and does not restart MCM.

### **Notes**

- Known Issue: The time format of the bootloader log is incorrect (e.g., 20124-mm-dd).
- For detailed release notes, including a change list for the packages, visit the Moxa Industrial Linux document center at: <https://docs.moxa.online/mil/>.



<b>Version: v1.0</b>	<b>Build: 24072202</b>
<b>Release Date: Oct 18, 2024</b>	

**Applicable Products**

UC-4400A Series

**Supported Operating Systems**

Moxa Industrial Linux 3 (Debian 11)

**New Features**

- First release.

**Enhancements**

N/A

**Bugs Fixed**

N/A

**Changes**

N/A

**Notes**

N/A