



Software Package for ThingsPro 2 (ThingsPro Gateway v2.5.2 patch file for UC-8100A-ME-T Series) Release Notes

Version: v2.5.2	Build: 19103016
Release Date: Oct 30, 2019	

Applicable Products

UC-8100A-ME-T Series

Supported Operating Systems

Moxa Industrial Linux (Debian 9)

New Features

N/A

Enhancements

N/A

Bugs Fixed

- GPS port number conflict with the first serial port.
- Incorrect cellular location indicator LAC; the correct one should be CellID.
- The cellular profile retry timeout does not work.

Changes

- Signal strength indicator display changed from RSSI value to signal-level indicator (level 0 to level 5 (highest)) for uniform readability across 3G and 4G broadband cellular networks.

Notes

- This patch file is for applying a fix related to the unstable cellular connection issue in the ThingsPro Gateway V2.5.1 installation on the UC-8100A-ME-T Series.



Version: v2.5.1	Build: Build 19061318
Release Date: Jun 14, 2019	

Applicable Products

UC-2104-LX, UC-3100 Series, UC-5112-LX, UC-5112-T-LX, UC-8112-LX, UC-8112-ME-T-LX, UC-8112-ME-T-LX1, UC-8112-ME-T-LX-US-LTE, UC-8100A-ME-T Series

Supported Operating Systems

Moxa Industrial Linux (Debian 9)

New Features

- Remote-Control: New API allows users to include customized properties.
- Sparkplug: Sparkplug version 2.1, payload B support and store and forward function.
- Data Acquisition: New data type float, (u) int16, and (u) int32.
- Data Acquisition: Modbus API supports data type float, (u) int16, and (u) int32.

Enhancements

- Import/export: Adds check model name mechanism during configuration import.
- IPTABLES: A “MOXA-“ prefix chain to apply ThingsPro rules.
- Time: Uses ntpd to improve performance.
- Cloud: Aliyun SDK upgraded to v 2.2.1 and includes the Aliyun reconnect mechanism.
- Cloud: Maximum tag limit increased to 512.

Bugs Fixed

- IPTABLES: Cellular connection goes down when a packet larger than the MTU limit is detected.
- IPTABLES: Resource lock issue when multiple simultaneous GET network status requests are sent.
- IPTABLES: NAT WAN interface is not updated when the default route and rules are changed.
- Wi-Fi: High CPU usage when refreshing the Wi-Fi status.
- GPS: A configuration change to a GPS module is applied even though the module is down.
- System Status: CPU and memory usage information is not updated on the Dashboard.
- Import/export: Import configuration does not include the GPS option.
- Cellular: Keep alive for cellular devices fails if the IP is not assigned by the carrier.
- Cellular: Connection retry should stop after all the profiles have been tried and no connection is established.
- Cloud Connectivity: Add a mechanism in the ThingsPro cloud applications to detect if the MQTT broker has started.
- Cloud Connectivity: Adding more than 64 tags results in a segmentation fault.
- Cloud Connectivity: Optimized connectivity to the Aliyun Cloud.
- Data acquisition: Write failed in Python API when byte array starts with a zero.
- Data acquisition: Tag value issue in Python API when the value type is byte array or string.

Changes

- Brute-force attack protection only applies to web access.
- Sets default MQTT QoS value to 0.
- Wi-Fi: Network scan does not lock the Wi-Fi page and supports non-blocking scan and displays a list of available networks.
- Cloud: Data is logged in the device log using FIFO sequence.

Notes

N/A



Version: v2.5.0	Build: Build 18112901
Release Date: Nov 29, 2018	

Applicable Products

UC-8112-LX1, UC-8112-LX, UC-8112-ME-T-LX, UC-8112-ME-T-LX1, UC-8112-ME-T-LX-US-LTE, MC-1121-E2-T, MC-1121-E4-T, UC-2104-LX, UC-3101-T-US-LX, UC-3101-T-EU-LX, UC-3101-T-AU-LX, UC-5112-LX, UC-5112-T-LX

Supported Operating Systems

N/A

New Features

- Fail2ban—an intrusion prevention software framework that protects against brute-force logins to the SSH server.
- Supports dual SIM for specific models with multiple SIM-card slots.
- NE CLI command, mx-tp-ctl to enable/disable ThingsPro.
- Supports data upload to Aliyun (Alibaba Cloud).
- Supports DHCP server maximum lease time of up to 30 days.
- API token to extend the expiration date for up to 7 days.
- User-defined IP routing rules.
- ThingsPro Gateway is run on Linux Kernel 4.4 and Debian 9.
- Supports the following additional devices: UC-2104-LX, UC-3101-T-US-LX, UC-3101-T-EU-LX, UC-3101-T-AU-LX, UC-5112-LX, and UC-5112-T-LX.

Enhancements

N/A

Bugs Fixed

- Error displaying byte arrays in Modbus.
- Connection retry if tag polling fails.
- Remove legacy configuration files mxmodbusmaster.init and mxmodbusgateway.init.
- Too many events logged in the syslog file.
- Modbus slave crashes if tag polling fails.
- Removed valid MAC check because it is not necessary.
- CoAP option is not available when uploading data to Azure IoT.
- Date and time of exported configuration and log files remain the same as the first time.
- Error: mantis (0000015) write coil fail.

Changes

- Installation process no longer requires model name.
- Automatic scan of available storage paths for cloud apps.
- The maximum length of the tag name has been increased to 128 bytes.
- The maximum numbers of tags per equipment has been increased to 1024.
- Azure IoT SDK upgraded to version 2018-07-11.
- Mosquitto version upgraded to 1.4.15-0mosquitto4.
- Web UI enhancements.

Notes

- This installation file is for Debian 8 Kernel 4.1.



Version: v2.3.17	Build: Build 18072709
Release Date: N/A	

Applicable Products

UC-8112-LX, UC-8112-LX1, UC-8112-ME-T-LX, UC-8112-ME-T-LX1, UC-8112-ME-T-LX-US-LTE, MC-1121-E2-T, MC-1121-E4-T

Supported Operating Systems

Debian 8.x

New Features

N/A

Enhancements

- Includes TLS Cert and Key file options for ThingsPro MQTT.
- A maximum tag name length of 256 characters is supported for cloud applications (MQTT, Azure, Aws IoT, and Wonderware).

Bugs Fixed

- SSDP: Failure when getting the device serial number.
- Upgrade: ThingsPro frm file is removed when ThingsPro is reinstalled.
- AWS IoT: Add schema validation to prevent unexpected crashes.
- Cloud Apps: Crash when bundle calculates the maximum storage days (MQTT, AWS IoT, and Wonderware)
- Cloud Apps: Web UI displays incorrect information for data type, description, and unit after multiple on/off of a device.
- Cloud Apps: Remove fixed values in the storage path options for cloud apps.
- Route: Socket address didn't bind with correct address after switching the default route.
- Modbus: Fixed the error log by put the init script with the right name.
- Removed file type hints for AWS IoT and MQTT.

Changes

N/A

Notes

- This installation file is for Debian 8 Kernel 4.1.



Version: v2.3.0	Build: Build 18022412
Release Date: N/A	

Applicable Products

UC-8112-LX, UC-8112-LX1, UC-8112-ME-T-LX, UC-8112-ME-T-LX1, UC-8112-ME-T-LX-US-LTE, MC-1121-E2-T, MC-1121-E4-T

Supported Operating Systems

Debian 8.x

New Features

- Web Server protocol/port configuration.
- Auto retrieval of GPS position.
- Default route modification.
- Upgrades the Modbus Framework.
- Supports continuous upload, tag selector, and connection status for applications (excluding Sparkplug and Azure).
- Supports additional cloud applications: Azure and Wonderware.
- Supports MC-1121 Series.
- Supports Telit LE910 on MC-1121-LX.
- DHCP server provides status by interface.
- Supports software upgrade from v2.1 to v2.3.
- UI: Network Overview page and User Program management.

Enhancements

- Robust firmware upgrade that enables upgrade during bootup.
- Firmware download on to remote devices and resume interrupted download function.
- Updated data type from string to value in Generic MQTT.

Bugs Fixed

- Data Acquisition: Application auto scaling type error.
- DHCP Server: Server may not restart in some cases.
- Status: Hostname sync issue at boot time.
- SSDP: "Kill all child processes" does not work as expected.
- User programs/Serial interface: Add missing API endpoint.
- GPS locations of gateways is not synched to the server.
- Modbus: Modbus status sign is yellow when there is any active _Write tag in the template.
- Sparkplug failed to get the tag value and initialize it with the configuration.

Changes

N/A

Notes

- This installation file is for Debian 8 Kernel 4.1.



Version: v2.1.0	Build: Build 17072504
Release Date: N/A	

Applicable Products

UC-8112-LX, UC-8112-LX1, UC-8112-ME-T-LX, UC-8112-ME-T-LX1, UC-8112-ME-T-LX-US-LTE

Supported Operating Systems

Debian 8.x

New Features

- Adds Wi-Fi support (only for UC-8112-LX).
- Updates the Sparkplug application version.
- Adds popup to confirm the modifications to a device/device group.
- New UI: Network overview and Cellular carrier switch.

Enhancements

- Updates the Python module voluptuous.
- Updates Mosquitto.
- UI: Adds countdown information and includes some text enhancements.

Bugs Fixed

- Get serial number issue (only for UC-8112-LX).
- Modbus TCP equipment cannot be deleted.
- Modbus local socket closed unexpectedly.
- Typo in Modbus C API class name.

Changes

- Remove function only removes the selected gateways from a group and not all gateways.

Notes

- This installation file is for Debian 8 Kernel 4.1.



Version: v2.0.0	Build: Build 17011611
Release Date: N/A	

Applicable Products

UC-8112-LX, UC-8112-LX1, UC-8112-ME-T-LX, UC-8112-ME-T-LX1, UC-8112-ME-T-LX-US-LTE

Supported Operating Systems

Debian 8.x

New Features

- First release.

Enhancements

N/A

Bugs Fixed

N/A

Changes

N/A

Notes

- This installation file is for Debian 8 Kernel 4.1.