Robustel RCMS (Beta) Release Notes

NOTES

These release notes outline new functions and bug fixes applied to the RCMS platform in chronological order (Most recent at the top).

VERSION V3.5.6-patch20261104

Release Date: Nov 04, 2026

Version Inherited: V3.5.6-patch20261028

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	Account - Users - Reset MFA	N/A	Added a manual Multi-Factor Authentication (MFA) reset option in “Account - Users - Action”. The Owner can reset MFA for all users. Administrators can reset MFA for users with the Admin role or lower, excluding the Owner.
2	OpenAPI	N/A	Added support for updating the name of a specified device through the “Update Device Name” API. Please refer to the API Manual in “RCMS - Support - OpenAPI” for details.
3	OpenAPI - Call Status	N/A	Added a real-time “Call Status” field to the “Device Detail Info” API to report “Off-hook” or “Idle” status. Note: This feature is only applicable to the EV8100.
4	R1320LG Supported	Yes	Added support for the R1320LG and LoRa-related

			pages.
5	LG3120 Supported	Yes	Added support for the LG3120 and LoRa-related pages.
6	LG5120 Supported	Yes	Added support for the LG5120 and LoRa-related pages.

IMPROVEMENTS

#	Function	RCMS App Update Required?	Descriptions
1	OpenAPI	N/A	1. Fixed an issue where the “Device Licenses” API returned license information inconsistent with the RCMS portal, including a null “licenseExpireTime” value when an expiration time was displayed in the portal. 2. Fixed an issue where toggling a Digital Output (DO) through OpenAPI returned an error. 3. Added missing API entries and aligned their order across the Beta and Production environments.
2	Device Groups	N/A	Fixed an issue where the group list in the “Move Group” dialog did not display correctly when all devices in the company were grouped and the ungrouped device count was zero.
3	Connection History	N/A	Optimized the display of WWAN connection durations, using days, hours, and minutes instead of decimal minutes.
4	Remote Access	N/A	Added support for copying content from SSH, RDP, and Telnet remote access sessions and pasting externally copied content into the sessions.
5	eSIM Configuration	Yes	Added support for eSIM Configuration on RobustOS Pro devices. Note: Requires RobustOS Pro firmware v2.5.0.

6	Zero Touch	N/A	Added support for eSIM configuration for RobustOS Pro devices in the Zero-Touch Template.
7	Device Password Configuration	N/A	1. Standardized the validation rules for device login passwords configured through RCMS. 2. Passwords must contain 8 – 32 characters and at least three of these four character types: uppercase letters, lowercase letters, numbers, and special characters.
8	Site Survey	N/A	1. Optimized the warning message to clarify that the device must be connected via WWAN1 or WWAN2 before starting a test. 2. Added fixed columns and 4G/5G group headings to the survey results table.

VERSION V3.5.6-patch20261028

Release Date: Oct 28, 2026

Version Inherited: V3.5.6-patch20260723

IMPROVEMENTS

Ref#	Function	RCMS App Update Required?	Description
1	Remote Access (Previous named: Robust Connect)	Yes	1. Changed the feature “RobustConnect” to “Remote Access”. 2. Optimized remote access performance.

VERSION V3.5.6-patch20260723

Release Date: July 23, 2026

Version Inherited: V3.5.6

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	Dark Mode	N/A	Added support for Dark Mode, allowing users to select between UI themes to match their viewing preferences in Account - User Account.

IMPROVEMENTS

#	Function	RCMS App Update Required?	Descriptions
1	RobustConnect	Yes	1. Changed the feature “Remote Access” to “RobustConnect”. 2. Added support for accessing downstream devices connected behind the gateway. 3. Added the new “RobustConnect” menu for centralized, global management of device remote access links. • Global Level: Manage and audit remote access links across the entire devices. • Device Level: View active links and connection history for individual devices. 4. Optimized the UI and interactions of the connection

			creation modal with the following enhancements: • Added support for third-party access methods. • Users can now choose between Manual Setup or Auto Discovery for link creation. • Added support for Source IP Whitelist configuration to enhance access security.
2	Device Connection	N/A	Optimized the device authentication logic.
3	Firmware Downgrade	N/A	1. Added strict downgrade restrictions: Devices running V5.6.0 or higher are prohibited from downgrading to any version prior to V5.3.5 due to EN-18031 requirements. 2. Improved the warning message when downgrading firmware to clearly inform users of potential impacts on device stability or functionality.
4	Device LAN Information	Yes	1. Fixed an issue in the 'Device Status Data' API where LAN information was missing. 2. The new API call has been added to support query LAN interface configuration and the list of connected devices, please refer to the API Manual in "RCMS -> Support -> OpenAPI -> RobustLink - Device" for details: • Device LAN Information: /api/link/device/lanInfo Requires RCMS APP v5.6.0 for RobustOS, 2.4.0 for RobustOS PRO (release date TBC)
5	RobustVPN Client v2.1.7	N/A	A new version of the RobustVPN desktop client has been released. 1. Optimized the disconnection logic for the VPN client to eliminate previous lag issues during the "disconnect" action. 2. Allow the desktop client to dynamically acquire VPN group types for improved configuration flexibility.

			3. Allow users to adjust the UI width within the client interface for a more customized and ergonomic workspace. For the latest installation package, please refer to Support > Resources > RVPN Manager in the RCMS platform.
6	User Invitation Status	N/A	Optimized the invitation process for users with only RVPN Client role.
7	Device License	N/A	Optimized the prompt text relating to Captive Portal licenses.

VERSION V3.5.6

Release Date: Feb 10, 2026

Version Inherited: V3.5.5-patch20251119

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	Docker Service	Yes	1. Added a centralized view to monitor all Docker-compatible devices, showing whether the Docker App is installed. 2. Enabled support for batch installation and uninstallation of Docker Apps across multiple devices, including a comprehensive update history. 3. Added support for administrators to remotely restart Docker services on online devices.
2	Container Monitoring	Yes	1. Added a 24-hour health snapshot trend chart based on the monitored status to assist in deeper diagnostics.

			2. Added a dedicated log view to track the full lifecycle events of containers.
3	Digest Check & Image Update	Yes	1. Implemented an image update mechanism using status lights to indicate if a version was Up to Date, Update Available, or Unknown. 2. Supported updating multiple containers simultaneously using either Immediate or Scheduled update strategies.
4	Registry Management	N/A	1. Integrated a verification mechanism in the "Add/Edit Registry" window to test credentials and connection status instantly. 2. Provided options to configure credential storage duration, supported manually activating credential key and updating duration. 3. Added "Credential Activity Logs" to record every access attempt triggered by the platform or devices.
5	Licensing	N/A	Updated the Container Manager feature to require a valid Essentials License for functional access.
6	Operations Console - Internet Access Control	Yes	Allows users to globally disable internet access for all LAN and Wi-Fi devices connected to the router with a single click.

IMPROVEMENTS

#	Function	RCMS App Update Required?	Descriptions
1	Container Logs	N/A	1. Set the default real-time log fetch interval to the last 10 minutes and added functionality to remember the user's last selected interval. 2. Added support for exporting container logs with a standardized filename format.

2	Registry Management	N/A	1. Renamed "Custom Registry" to "Harbor" in the registry creation window to reflect specific support. 2. Optimized the interaction styles for repository and image lists within the Registry pop-up for faster navigation
3	Create Container	Yes	1. Introduced a health check configuration that enabled real-time monitoring of container health status. 2. Added fuzzy search and drop-down selection for all registry image fields to streamline entry from existing repositories.
4	OpenAPI	N/A	1. Updated terminology for API parameters, changing "true / false" labels to "Required / Optional". 2. Added detailed functional descriptions for every API. 3. Optimized the Sample section of the API documentation with a high-contrast dark-themed code block for better readability.
5	RVPN Group	N/A	1. Added Validity Period, Status, and Expired Date fields to user list, including an Update button for managing expiration. 2. Introduced a Description field in the "Add User" popup window that displays in both the Account - User List and RVPN - User List. 3. Added the "Group Name" field before the "Initialization Status" on the VPN Group details page. 4. Fixed an issue where the "End Time" was not recorded in connection logs when a connected device was removed from a VPN group
6	Operations Console	N/A	1. Changed the default state of the Auto-Installation setting to Disabled. 2. Fixed an issue where registered devices would automatically install to the Installation list before the Operations Console module was activated.

VERSION V3.5.5-patch20251119

Release Date: Nov 19, 2025

Version Inherited: V3.5.5-patch20250828

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	Email Settings	N/A	1. Supports the use of the OAuth 2.0 method to verify email settings, addressing the trend of legacy password verification modes being phased out. 2. Supports enterprise email servers like Gmail, Microsoft 365 Outlook, Zoho, etc. 3. Optimized the synchronization logic for email settings between the account and distributor console module.
2	eSIM Configuration	Yes	An eSIM Configuration feature has been added to the existing Configuration tab in the device details page. 1. Supports viewing the latest eSIM configurations and the failsafe settings on the device. 2. Allows users to view, edit, delete, enable, and disable eSIM profiles, delivering enhanced control and flexibility in managing the eSIM lifecycle. Note: Only devices with an eSIM chip or plastic (removable) eSIM card can use this feature.
3	Zero Touch	Yes	Added support for eSIM configuration in Zero-Touch Template, enabling users to configure multiple eSIM

			profiles in bulk. Note: Only devices with an eSIM chip or plastic (removable) eSIM card can use this feature.
4	Compact OEM Logo	N/A	Added support for uploading a custom compact logo to display in the sidebar when collapsed.
5	Copy Device SN	N/A	Added a copy button for device SN throughout RCMS global lists, allowing users to quickly copy device identifiers.

IMPROVEMENTS

#	Function	RCMS App Update Required?	Descriptions
1	Device License	N/A	Optimized the license upgrade pop-up to automatically identify required license types and display available quantities.
2	RCMS	N/A	1. Improved the warning message when downgrading firmware to clearly inform users of potential impacts on device stability or functionality. 2. Added an “Ungrouped” option in Device Group dropdown filter, making it easier to view devices that are not assigned to any group. 3. Optimized the prompt message when importing illegal files. 4. Fixed an issue where device-tag filtering failed when applied from non-first pages in the device list.

VERSION V3.5.5-patch20250828

Release Date: Aug 28, 2025

Version Inherited: V3.5.5-patch20250718

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	Voice Call Test	Yes	Added a new 'Voice Call Test' tab to the device details for testing call functionality, supporting for scheduled automatic tests. Note: This feature is only available for EV8100 device model. Requires ROS PRO RCMS APP V2.3.0
2	Account - OEM	N/A	Added an "APP Sort" feature to Account - OEM, allowing companies to customize the app sorting in RCMS GUI to meet business needs.
3	Open API	N/A	The following API calls have been added to query the device power status and device call records, please refer to the API Manual in "RCMS -> Support -> OpenAPI -> RobustLink - Device" for details: 1. Device Power Status: /api/link/device/devices/{sn}/powerStatus 2. Device Call Records: /api/link/device/devices/{sn}/callRecords

IMPROVEMENTS

#	Function	RCMS App Update Required?	Descriptions
1	Device Groups - Configuration	N/A	Added a new field called 'Target Devices' for customer to quickly select all online devices to apply.
2	Device Groups - Upgrade Module Firmware	N/A	Adjusted the display order of the fields 'Target Version' and 'Original Version' and the logic for upgrading module firmware.
3	IO Control - DO Schedule	Yes	1. Added a new field 'Schedule status' to show the enable status of each Digital Output (DO) schedule settings. 2. Added the ability to configure schedule settings for each Digital Output (DO) and apply the updates to the device. Requires firmware v5.4.0 & RCMS APP v5.3.0 for RobustOS, and rosp core v2.4.0 & RCMS APP v2.3.0 for RobustOS Pro.
4	Data Unit Display Optimization	N/A	Added unit labels (e.g., MB, ms) to field headers in lists and export reports, and removed units from the corresponding data fields in Device Information, Device Groups, Passenger WiFi, and VPN Groups pages.
5	Distributor Console	N/A	1. Optimized the logic to modify the company type to 'Reseller' in the Edit Company Type popup window. 2. Adjusted the display logic for the end customer count. 3. Added the ability to resend the invitation emails or generate invitation links for company accounts with a 'pending' status. 4. Fixed an issue where distributor-customized insufficient license notifications were not dynamically displayed as the distributor's account in the pop-up when triggered. 5. Added a 'Target Customer' field to the 'Assign Product' dialog for companies of type 'Reseller', allowing Distributor to assign licenses either to the downstream company or

			directly to its end customers. Note: It is visible to Distributors only after Reseller applies and Robustel Support enables license assignment permission.
6	RCMS License	N/A	Added the ability to view the total devices to be renewed for the next billing period on the RCMS license product list.

VERSION V3.5.5-patch20250718

Release Date: July 18, 2025

Version Inherited: V3.5.5

IMPROVEMENTS

#	Function	RCMS App Update Required?	Descriptions
1	Passenger WiFi	N/A	1. Removed the Terms & Conditions template from the popup window when creating a portal template. 2. Removed the background image settings from the popup window of session settings. 3. Changed the portal image limit to 400KB per image.

VERSION V3.5.5

Release Date: July 1, 2025

Version Inherited: V3.5.4-patch20250611

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	MQTT Broker Test	Yes	Added a built-in MQTT test broker for receiving and validating the payload of E2C end devices allowing topic subscriptions to view real-time JSON data.
2	Remote Access -SFTP Protocol	N/A	Added a new protocol 'SFTP' to the Remote Access feature, allowing users to remotely access the file server of the gateway. Note: This protocol is only supported on RobustOS PRO devices.

IMPROVEMENTS

#	Function	RCMS App Update Required?	Descriptions
1	LoRa information	Yes	Optimized LoRa information display to adapt field content based on firmware version, ensuring compatibility across different firmware versions.
2	Site Survey	Yes	1. Renamed tab label 'Survey Result' to 'Survey Results'. 2. Added new columns 'Network Name' and 'Band' in survey results list. 3. Grouped all survey results within a test into one row, with a popup summary view showing color-coded key metrics. 4. Added a new column called 'Method' to distinguish the survey tests initiated from device or RCMS in Survey History. 5. Optimized the prompt interaction logic when starting the survey. 6. Hid the Site Survey tab on the device details page for

			unsupported device series: R131x, R2000, M120X, R3010, R2100, MG460, R3020, AMR104X, AMR105X, AMR994X.
3	Passenger WiFi	Yes	1. Added 'Users' in the Portal Group, allowing Administrator to add/remove users to manage the access permission of portal group. 2. Updated the portal template UI of default WiFi portal for both PC and mobile preview page in the pop-up window of creating portal template. 3. Added the ability to export portal statistics reports, including data from six individual charts within the portal group.
4	Operations Console - Tech Support	Yes	1. Disable click interaction and removed connected device popup when the port is enabled in Tech Support - Ping. 2. Added route table information display below Result History in Tech Support - Ping. 3. Optimized the time selection of DO Schedule Settings. 4. Renamed 'Toggle DO' in Tech Support to 'DO Control', and renamed 'CLI Access' to 'Terminal' . 5. Removed the text box of SpeedTest and renamed command label 'Select' to 'Select Network' in Most Used Commands list.
5	Operations Console - Commercial	N/A	Added popup to show generated reports after clicking Export button in Generated Report Again popup window.
6	Operations Console - Estate Log	N/A	Updated the click 'here' hyperlink in the Event Notification Settings popup under Log Settings TAB.
7	OpenAPI	N/A	The following API calls have been added to support specifying multiple portal groups, please refer to the API Manual in "RCMS -> Support -> OpenAPI -> Portal Manager" for details: • Query Device List of Portal Multiple Template Group /api/link/captivePortal/templates/devices

			• Portal Multiple Template Group Reports /api/link/captivePortal/templates/charts
8	RCMS	N/A	Improved logic for displaying OEM logo.

VERSION V3.5.4-patch20250611

Release Date: Jun. 11, 2025

Version Inherited: V3.5.4-patch20250512

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	Docker Manager	Yes	Added Docker Manager as a RobustLink module with the following functions: 1. Registry Management: Allowed to manage the registries of Docker you have, supports Azure & DockerHub public registry and custom private registry. 2. Container Management: 1- Add the ability to create and deploy containers with a variety of container settings (such as restart strategies) on different devices with minutes. 2- Added the ability to remote control Docker containers, allowing users to start, stop, restart, pause, and manage containers. 3- View the real-time monitoring of container status, including Memory, CPU, I/O usage and Network usage. 4- View the container real-time logs and historical logs

			on each container. 3. Image Management: View the details of images that are currently used in the container on the device. 4. Volume Management: View the details of volumes used in the container on the device. 5. Network Management: View the networks used in the container on the device, including Bridge/Host/None/Custom network. 6. Overview: View the summary of device docker status, shows total containers, images, volumes, and networks on each edge device. 7. Update History: View real-time container installation logs on the device or group and all the operational record.
2	Version Control	N/A	1. Added 'Version Control' in backend platform to manage the existing product series and boards, allowing to define the minimum firmware version based on the product board. 2. Adjusted the display and upgrade logic of version in relation to firmware upgrade in device details, device group and Zero Touch.

IMPROVEMENTS

#	Function	RCMS App Update Required?	Descriptions
1	R21xx device series supported	N/A	1. Firmware and APP series for R2110, R2120, and R2111A are grouped under the unified device series "R21xx". 2. Adjusted the display of device series related to firmware and APP upgrade for R2110, R2120, and R2111A in device details, device group, Zero Touch and Operations console.
2	Distributor Console	N/A	Added new columns in the customer list to display the available number of Captive Portal Pro license and

			Operations Console licenses.
3	Device Group - Apps	N/A	Added support to search the device SN and APP name in the Device Group - Apps.
5	Device Group - Devices	N/A	Added support to bulk import devices to the group via XLS file.
4	ROS PRO Firmware	N/A	ROS PRO firmware name is changed to 'rosp'.

VERSION V3.5.4-patch20250512

Release Date: May. 12, 2025

Version Inherited: V3.5.4-patch20250225

IMPROVEMENTS

Bug#	Function	RCMS App Update Required?	Descriptions
1	Device Details - Configuration	N/A	1. Added the EOL (End of Life) notification to the pop-up window of Remote UI. 2. Fixed the issue where the Remote UI displayed abnormally. 3. Fixed the issue where empty tags were formatted as closed tags when downloading device configuration files. 4. Fixed the issue where uploading a configuration file in one device tab could incorrectly apply the update to another open device tab and generate an incorrect update record.
2	Device Details - Apps	N/A	Fixed the issue where an error occurred during batch uninstallation of applications.
3	RCMS	N/A	1. Fixed the issue where API permissions were not updated

			after modifying user roles. 2. Fixed the issue of abnormal permission association for Passenger WiFi and Edge2Cloud. 3. Fixed the issue where existing users were not added to the AAD company group when assigned to a company.

VERSION V3.5.4-patch20250225

Release Date: Feb. 25, 2025

Version Inherited: V3.5.4-patch20250122

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	Elevator IOT - Elevator Management	Yes	1. Added the field 'VoLTE Status' to the elevator list, to view the status of VoLTE of the elevator. 2. Added 'Nice3000 Data' tab to elevator details for users to view more elevator data from the nice3000 control panel.
2	Elevator IOT - Auto Test	Yes	Added a new feature for automatic testing of elevator emergency call status: 3. Testing Schedule - Set target elevator(s) for automatic testing and view their test schedules. Users can manually trigger tests from this page. 4. View All Tests - Allow users to view all the test records of elevators.
3	Elevator IOT - Push Notification	N/A	1. Added field 'Push Type' in CREATE PUSH STRATEGY to support notification configuration for automatic test

			results. 2. Change the field 'Target Elevator' option to 'All Elevators', 'Select Some Elevator Groups', and 'Select Some Elevators', enabling selection of all elevators or a specific range of elevators.
4	Elevator IOT - Private Messages	N/A	Added field 'Message Type' to the list to distinguish the messages originating from automatic test results or event notifications.

IMPROVEMENTS

Bug#	Function	RCMS App Update Required?	Descriptions
1	Elevator IOT - Dashboard	N/A	Optimized the trigger area of the ELEVATOR KEY EVENT module scroll bar.

VERSION V3.5.4-patch20250122

Release Date: Jan. 22, 2025

Version Inherited: V3.5.4-patch20241211

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	Operations Console - Report	N/A	Added 'Report' tab to Commercial for users to manage reports created and to export reports once or periodically.
2	Operations Console - Ping	Yes	Added 'Ping' tab to Tech Support: 1. Added the ability to visualize the port status of device

			and view the interface of each port. 2. Added the ability to view the information of connected device by clicking each active port. 3. Added the ability to ping the IP address and domain to test the network connectivity.
3	Operations Console - Toggle DO	Yes	Added 'Toggle DO' tab to Tech Support: 1. Added the ability to view the Digital Output status of device and remotely toggle Digital Output. 2. Added the ability to set the DO schedule settings of each DO and forward to the gateway.
4	Operations Console - CLI Access	Yes	Added 'CLI Access' tab to Tech Support, provided 'most used commands' list at the right of the page and allow to click the commands to quickly access through the CLI interface.

IMPROVEMENTS

Bug#	Function	RCMS App Update Required?	Descriptions
1	Operations Console - Provisioning	N/A	Changed the field 'Pre-Installed Application' to provide a drop-down list to show the applications can be installed for selection.
2	Operations Console - Tech Support	Yes	1. Changed the column name 'Connected MACs' to 'Connected Devices'. 2. Added new information 'SIM ICCID', 'SIM IMSI' and 'APN' to Diagnostics Check result.
3	Operations Console - Estate Log	N/A	1. Optimized the naming of buttons in the Log Settings. 2. Changed the column name 'Action' to 'Event Notification Settings'. 3. Added 'API Notification' information to Event Notification

			Settings pop-up window. 4. Added the default suppression value ’1440 minutes’ to the help text. And ‘Alert Suppression Interval’ field is set to ‘disabled’ in Event Notification Settings pop-up window when the event does not support alert suppression. 5. The following Alert Event Name have been modified, please see the ‘Estate Log - Log Settings” for details.: • Data limit set in Commercial exceeded -->Global data limit exceeded • Installed router data limit exceeded --> Router data limit exceeded • CRC errors are greater than x% --> LoRa CRC errors exceeded x% • CRC errors recovery --> LoRa CRC errors below limit • Lower Voltage input --> Low Router Supply Voltage • Lower Voltage input Recovery --> Low Router Supply Voltage Recovery • Voltage Dip --> PoE Overload • Voltage Dip Recovery --> PoE Overload Recovery • ETH Over Current --> PoE Overload on ETHx • ETH Over Current Recovery --> PoE Overload on ETHx Recovery
4	Passenger WiFi	N/A	1. Added a new tab ’Overview’ to provide an introduction about how passenger WiFi works. 2. Added the ability to dynamically preview the template when the template is modified. 3. Added a new chart ‘Portal Data Usage Per Day’ for customer to view the total data usage per day within 1 week/15 days/1 month. 4. Added the ability to display a quick overview of portal

			data usage over last 3 months by clicking the icon at the top of portal group.
5	Zero Touch	Yes	1. Added the ability to configure WiFi and E2C point table to the template. 2. Optimized the verification of imported data and provide a pop-up to display the import error.
6	RCMS	N/A	1. The list sequence number displayed after changing pages is changed to sequential numbers throughout RCMS. 2. Optimized the help text in the popup window of IO Control for RobustOS PRO device. 3. Optimized the prompt text when a user clicks a button without selecting an item in the list.
7	Other	Yes	Fixed the bug where the SSID in the report has a value but the SSID in device list is 'No WiFi'.

VERSION V3.5.4-patch20241211

Release Date:Dec. 11, 2024

Version Inherited: V3.5.4-patch20241125

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	Elevator Management	Yes	1. Added the binding of Cabin Gateway to the relevant elevator. 2. Added the ability to unbind a single gateway when the elevator is bound to two gateways.

2	Elevator Statistic	N/A	Added 'Statistic' in elevator details to display the statistical data of the elevator based on the product configuration.
3	Elevator Command Control	Yes	1. Added 'Command Control' in elevator details, which allows users to send control commands to the elevator and records the history of commands sent. 2. Added support for viewing of configuration parameters entered in the Elevator APP during the installation and debugging of the cabin gateway for the elevator.
4	Elevator APP Provisioning	Yes	Added a 'Provisioning' function to the Elevator APP for three debugging steps of the cabin gateway ET8016 installation as follows: 1. Configuration - allow users to configure the elevator floor information used for floor display on the system page and for the Floor Learning in subsequent steps. 2. Install Port - allow installers to configure the sensor equipment for the elevator car installation and verify the connection status between the sensor and the gateway port. 3. Learning & Calibration - include Attitude Calibration, Floor Learning and Door State Learning. Installer can verify the learning result after each self-learning session of the sensor equipment is completed.

IMPROVEMENTS

Bug#	Function	RCMS App Update Required?	Descriptions
1	Elevator Status	N/A	Removed the menu 'Elevator Status', adjusting the 'Elevator Code' field of Elevator Management list to be the sole entrance for elevator details.
2	Elevator Detail	Yes	1. Optimized the UI at the top of the content. 2. Added 'Running Velocity' graph in Elevator Status to display the real-time running speed of the elevator. 3. Added 'ET8016 - Cabin Gateway' content in Elevator

			Status to display the IoT data of elevator cabin. 4. Added the ability to display different content of elevator status based on the products assigned to the company. 5. Removed statistical content from the Elevator Status.
3	Event Manager	Yes	1. Added 'Data Source' to the View All Event list to display the source gateway of the event. 2. Supported displaying different events on the Event Management list based on the products assigned assigned to the company.
4	Elevator Groups	N/A	Optimize the rules of statistical data.
5	Elevator APP-Home	N/A	1. Optimized the UI of Home. 2. Added ‘Provisioning’ feature button.
6	Elevator APP Installation	Yes	1. Updated the button name ‘Register’ to ‘Installation’. 2. Optimized the installation process: Supports searching for the target elevator to be installed in the list first, and then binding the corresponding gateway.

VERSION V3.5.4-patch20241125

Release Date: Nov. 25, 2024

Version Inherited: V3.5.4-patch20241031

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	Site Survey	Yes	1. Added the ability to start survey and view the survey result for the last three months in the device details

			page. 2. Added the ability to remote turn on/off the 'Automatic Upload To RCMS' setting. 3. Added the ability to execute the instructions of the site survey through CLI interface and remote SSH. 4. Added the field 'Site Survey' to the device list in 'View All Devices', to view the enable status of site survey on the device. 5. Added the ability to synchronize license type of the device to the device WebUI.
2	Operations Console - Estate Log	Yes	Added an event 'Smart Roaming network changed' to Operations Console - Estate Log.

IMPROVEMENTS

Bug#	Function	RCMS App Update Required?	Descriptions
1	Zero Touch	Yes	1. Updated the menu name 'Device Template' to 'Zero Touch'. 2. Optimized the UI of banner and content in the overview. 3. Added a prompt and link for new per-device parameter template for ROS and ROS PRO devices templates on Create Template page. 4. Removed the 'Parameter Selection' step from the popup window when applying a template. 5. Changed the wording for the Update Time option in the Apply Template popup window in Zero touch, device group and device details page.
2	Insufficient License Notification	N/A	4. Optimized the Auto-renew status processing logic for devices when the amount of license is insufficient to complete the next cycle renewal.

			5. Optimized the cycle calculation for Auto-renew. 6. Optimized the email notification frequency for insufficient licenses. 7. Optimized the insufficient licenses notification email to display only the license types that are insufficient. 8. Added new notification modes for insufficient license, private message notification and page banner prompt.
3	Account	N/A	Updated the menu 'RCMS Asset' to 'RCMS Licenses'.

VERSION V3.5.4-patch20241031

Release Date: Oct. 31, 2024

Version Inherited: V3.5.4

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	R2120 Support	Yes	Added 'POE Status' to R2120 device detail page: 1. Added the ability to monitor the POE status of each ETH port. 2. Added the ability to configure the POE output status and mode of each ETH port.
2	POE Alerts	Yes	Added six alert events about POE to RobustLink - Alert Center and Operations Console - Estate Log: • Voltage Dip / Voltage Dip Recovery • ETH Over Current / ETH Over Current Recovery

			• Low Voltage Input / Low Voltage Input Recovery

VERSION V3.5.4

Release Date: Oct. 17, 2024

Version Inherited: V3.5.3-patch20240806

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	R131x Supported	Yes	Removed 'Update only' option for R131x device series firmware upgrade in device details, device group - firmware and device template.
2	Batch Remove Devices	N/A	1. Added the ability to remove devices in batches. 2. Changed the button name 'Import status' to 'Batch Status' in Add/Remove devices, click to view the batch import and batch remove records. 3. Added the field 'Type' to the status list and removed 'Description' field from the status list. 4. Added the filter 'Type' to the popup window of Batch Status.

IMPROVEMENTS

Bug#	Function	RCMS App Update Required?	Descriptions
1	Signal Strength	Yes	1. Added 'Network Architecture' to 'Connection log' and 'full status report' report to distinguish between 5G NSA and

	Optimization		SA networks. 2. Optimized the signal strength range of Signal Strength states for different network types. 3. Adjusted the Y-axis of the signal strength chart to RSRP and RSSI values and added coordinate point styles to distinguish different network types.
2	ROS PRO Firmware Optimization	N/A	1. Added 'Firmware' tab to ROS PRO device details page to manage firmware upgrade. 2. Added ROS PRO series and firmware version selection in the Update popup in Device Group - Firmware. 3. Added 'Firmware' field to the popup window of Create Template and ROS PRO device series template details.
3	Email Settings	N/A	1. Added the ability to reset email settings with one click. 2. Added the ability to test the email settings currently displayed in the popup window by clicking Test button.
4	Device Group	N/A	Supported to fuzzy search for device groups by device group name, device SN, and user account in device groups list.
5	OpenAPI	N/A	1. Optimized the button style and text in the popup of View secret key. 2. Added new API 'Query Portal Data Usage' to Portal Manager. 3. Update the document of 'Operation Instruction'.
6	Role Permission Control	N/A	Added 'View upload configuration' and 'Delete configuration file' permission to role permission.
7	CLI	Yes	Fixed CLI command message duplication problem.

VERSION V3.5.3-patch20240806

Release Date: Aug. 6, 2024

Version Inherited: V3.5.3-patch20240624

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	Elevator Call Logs	Yes	Added 'Elevator Call Logs' in elevator status details to record the history of elevator call, included Car Call and Landing Call.
2	Elevator Stop Logs	Yes	Added 'Stop Logs' in elevator status details to record the history of elevator stop.
2	Elevator Report Graph	Yes	1. Added 'Elevator call counts' graph in elevator status details to display the total number of elevator calls for each day within a certain time range. 2. Added 'Floor stop statistics' graph in elevator status details to display the total number of stops on each floor for each day within a certain time range. 3. Added '3 months' option to statistics graph.
4	Elevator Status Fresh Setting	N/A	Added the ability to refresh data in real time. If no interaction on the current page within 5 minutes, the setting is automatically disabled.

IMPROVEMENTS

Bug#	Function	RCMS App	Descriptions

		Update Required?	
1	Device Templates	N/A	Device Templates is categorized into four distinct sections for better user experience: 1. Overview section - providing introduction text and images describing zero-touch configuration to enhance user understanding. 2. Create Template section - allows customers to manage and create device templates for different device series. 3. Apply Template section - optimized the process of template application. Device series and template name are required to apply a template. 4. Update History section - provides the update history of device templates, including requested time, actioned time, update status etc.
2	Apply template	N/A	Removed the restriction that required a reboot before template can be updated when a device is online in the following: Device Template, Device Details - Device template, Device Groups - Device Template.
3	License prompt	N/A	Added prompts to confirm licenses consumption based on device count or to advise on additional purchases if there are insufficient licenses.
4	Elevator License	N/A	Adjusted the assignment object of elevator license to gateway and updated the function permissions included in the elevator license.
5	Elevator Location	N/A	Supported to display the location on the map after manually entering an address in Select Location popup window.
6	Elevator Event	N/A	Removed search for event names and added a filter for event names in Elevator Status- Event Logs and Event Manager.
7	Portal Manager	N/A	Add data unit MB to the field name of 'Download Data', 'Upload data' and 'Total Data' in Session History and unify their data units to MB.

8	RCMS	N/A	Updated the title of TIPS popup window to NOTE.

VERSION V3.5.3-patch20240624

Release Date: June 24, 2024

Version Inherited: V3.5.3

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	Upgrade Module Firmware	N/A	1. Added the ability to remotely upgrade module firmware for multiple devices and view the upgrade history. 2. Added 'Module Series' and 'Module Firmware Version' fields in View All Device list and Device Group-Devices list. 3. Added 'Module Series' and 'Module Firmware Version' filter for searching. 4. Added 'Module Firmware' to view and download the supported module Firmware version file in the App Center. Note: Only the company account whose module firmware upgrade Settings are enabled can view the content related to module firmware.

IMPROVEMENTS

Bug#	Function	RCMS App Update Required?	Descriptions
1	RobustLink - Add	N/A	Added 'Device Series' field on Add Device popup window, it will be automatically populated with the device series when

	Device		a Serial Number is entered.
2	Device Template	N/A	Added the ability to see devices with Basic license when assigning a template to devices.
3	Remote Access	N/A	1. Added 'Generation status' and 'Error details' field in Generate Links popup window. 2. Added 'Valid Links' tab to display all valid links. 3. Added 'Link History' tab to display the history of previously generated links, including generation history and expiration history.

VERSION V3.5.3

Release Date: May 21, 2024

Version Inherited: V3.5.2-patch20240321

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	Elevator IoT - License	N/A	Added an Elevator IoT license which provides the ability to bind gateways and 30 days of access to IoT related data for the nominated elevator, such as real-time operating status, fault records etc.
2	Elevator IoT - OpenAPI	N/A	Added APIs for customers to obtain real-time IoT data and alert information of the Elevator.
3	Elevator IoT - Remote Reset Faults	Yes	Added the ability to remotely reset partial elevator faults within the 'Elevator Status' feature, allowing for easy troubleshooting without the need to physically go to the site.

			Note: Only certain faults are eligible for reset, and the specifics are subject to the details displayed on the page.
4	Elevator IoT - Automatic Location	N/A	Added automatic location option to 'Address' field on Create Elevator popup window, after selecting, it will use the location information of the gateway.
5	LoRa Alert	Yes	Added four alert events about 'LoRa CRC Errors' and "LoRa Packet Forwarder status change" to RobustLink - Alert Center and Operations Console - Estate Log.
6	Remote Access	Yes	1. Optimized the process of link generation, added process display for better user experience. 2. Added APP version prompt page display when access link is unavailable. 3. Added server allocation based on the device area to improve access speed.

IMPROVEMENTS

Bug#	Function	RCMS App Update Required?	Descriptions
1	Elevator IoT - Mapview	N/A	Added Color indicators to represent connection status for the icons of individual elevator and aggregate elevator.
2	Elevator IoT	N/A	1. Remove the online status icon of gateway in the elevator list. 2. Added 'Online' column to show the status of elevator. 3. Optimized the sorting rules for the elevator list to sort by elevator status.
3	Elevator IoT - Elevator Status	N/A	Updated the icon style to accurately reflect the real-time status, including call status, battery status, SIM or WLAN connection status.
4	Distributor Console -	N/A	1. Updated the displayed text when VPN data low or VPN

	Custom Alert Emails		data exhausted is selected. 2. Added 'Insufficient Elevator IoT License' option to 'Email Type' field and changed 'Insufficient Licenses'.
5	Elevator IoT - Import Elevators	N/A	Changed elevators import function to asynchronous import in Elevator IoT for better user experience.
6	Update Firmware	N/A	Optimized firmware upgrade logic when updating to v5.3.0.

VERSION V3.5.2-patch20240321

Release Date: Mar 21, 2024

Version Inherited: V3.5.2-patch20240202

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	RobustLink - Alert Center	N/A	1. Added the ability to allow customers to customize new alert rules and trigger conditions based on device behaviour. 2. Added the ability to allow users to view alert statistics and alert event logs over a specified period. 3. Added the ability to allow customers to set an alert level for each alert.
2	Time-Based Access Restriction Settings	N/A	Added Time-Based access restrictions for customers to limit user access within a specified time range. Note: This can only be set by the account owner or admin.

IMPROVEMENTS

Bug#	Function	RCMS App Update Required?	Descriptions
1	Operations Console	N/A	1. Optimized uptime calculation rules on Operations Console. 2. Added information text advising of the minimum device firmware and RCMS app versions required for using Operations Console module. 3. Fixed the bug that the ROS PRO device series options were missing when creating SOW.
2	Remote Access	N/A	Optimized remote access speed and performance.
3	OpenAPI	N/A	Added the ability to allow customers to collect alert logs of devices within a group, within a specified time range including alert name, alert level and alert time.
4	Other	N/A	1. Fixed the bug that some devices in China failed to display location. 2. Added 'TAC' parameter in Dynamic report.

VERSION V3.5.2-patch20240202

Release Date: Feb. 2, 2024

Version Inherited: V3.5.2-patch20240124

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description

1	Elevator IoT	Yes	Added Elevator IoT module with the following functions: 1. Dashboard - provides multi-dimensional statistical charts and a map overview, allowing users to view the overall status of all company elevators on this interface. 2. Elevator Management - allow users to maintain and view basic elevator information, e.g. elevator code, elevator name, etc. 3. Elevator Status - allow users to view details about a specific elevator, e.g. basic information (code, name, type, etc.), IOT data (running status, floor, elevator status, etc.), event logs and call logs. 4. Elevator Groups - allow users to manage elevators in groups. Admins can define which elevators users can see. 5. Map View - displays the geographic distribution of elevators. Users can also view the details of a specific elevator 6. Event Manager - allows configuration of the severity of various events and historical event records of all elevators 7. All Calls - allow users to view the call history of all elevators 8. Push Notification - allow users to configure the system notification rules, including triggering nodes, notification objects, and notification methods. 9. Private Message - allow users to check and read all the notifications of private message.

VERSION V3.5.2-patch20240124

Release Date: Jan. 24, 2024

Version Inherited: V3.5.2-patch20240117

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	Operations Console - Quickstart Videos	N/A	Added a new menu called “Quickstart Videos” providing short video guides for each section to help customers get up to speed quickly and easily.

IMPROVEMENTS

Bug#	Function	RCMS App Update Required?	Descriptions
1	Operations Console - Dashboard	N/A	Change the free trial period of Operation Console module to 60 days.
2	Operations Console - Provisioning	N/A	Increase the limit of provisioning templates from 10 to 50.
3	Operations Console - Installation	N/A	1. When uninstalling a device from RobustLink, the installation of this device will be removed. 2. Add “Model” field in the Installation List. 3. Add a button to copy serial numbers.
4	Operations Console - Tech Support	N/A	1. Added “Speed Test” function under Tech Support. 2. Pre-populated with HTTPS to Protocol field and added a note in Generate Link popup window.
5	Operations Console - Commercial	N/A	1. Added “Local Time” and “Model” field in the Site List. 2. Reduced column width of Site List. 3. Added a button to copy serial numbers. 4. Updated the text size and order of Data Usage header. 5. Changed the text color of “Cumulative Data Usage” column in Data Usage and “Uptime” column in Uptime to

			red.
5	Operations Console - Estate Log	N/A	1. Changed the default value of Alert Suppression Interval to zero on the popup window of Notification Settings. 2. Added a new event called ”Battery Switch is on” in Log Settings. 3. Removed “SIM1/2 card enabled” event from Log settings. 4. Changed “Eth” to “ETH” in Estate log and log settings
6	Operations Console - RCMS Asset	N/A	1. Hide “Use” button in the Product list after customer starts to use Operations License. 2. Updated the description of Operations Console license.
7	RobustLink - Alert Settings	N/A	Added a new event called ”Battery Switch is on” in Alert Settings.

VERSION V3.5.2-patch20240117

Release Date: Jan. 17, 2024

Version Inherited: V3.5.2-patch20231226

IMPROVEMENTS

Bug#	Function	RCMS App Update Required?	Descriptions
1	Device Detail (EV8100 only)	Yes	1. Updated the reporting type for battery status and call status. Battery status now uses dynamic, call status to use on change. 2. Added a Refresh button for customer to manually refresh the data of battery charge status.

VERSION V3.5.2-patch20231226

Release Date: Dec. 26, 2023

Version Inherited: V3.5.2

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	Account	N/A	Added a "Default module after login" setting to allow users to set RobustLink, RobustVPN, or Operation Console as the default module.
2	Test Emails	N/A	Added "Test" button in Email Settings for users to verify the mail server configuration.

IMPROVEMENTS

Ref#	Function	RCMS App Update Required?	Description
1	Operations Console-Dashboard	N/A	1. Added hyperlinks to the corresponding data list when clicking the headline statistics indicators. 2. Updated the text of the headline statistics indicators.
2	Operations Console-Tech Support	Yes	1. Added a graph called “Rolling 30 days connection history under the “Last 20 connections entries” in Diagnostic Check. 2. Led Test Results displays the results of all devices where the has been run when viewing the Led Test page. 3. Added Remote Access function in the Tech Support

			section of Operations Console. 4. Removed the restriction for individual device licenses in the OC module. All licenses are handled by the OC module
3	Operations Console-Commercial	N/A	Adjusted the statistics text in Commercial to a larger font size.
4	Operations Console-Estate Log	N/A	1. Changed the field name from “Redundant filtering interval” to “Alert Suppression Interval” in Notification Settings. 2. Updated the text prompt for Alert Suppression Interval field. 3. Changed “Unregistered” to “Not applicable” displayed text of model field in the event list for non-router based events. 4. Adjusted the trigger condition rules of SIM1/2 ICCID Change event. 5. Added two event types called “SIM card enabled” and “Active link changed” in Log Settings list.
5	Operations Console-License	N/A	1. Renamed “TIME POOL FOR OPERATIONS CONSOLE LICENSE” to “REMAINING OPERATIONS CONSOLE LICENSES” in Operations Console license graph. 2. Operations Console license graph displays in different colors according to the number of remaining licenses. 3. Removed auto-renew licenses setting and Set & Use button. 4. Allowed users to enable the new license, the remaining available licenses will continue to be used until no licenses are available. 5. Updated the price and MOQ of Operations Console licenses.
6	Other	Yes	Adjusted the input verification rules of device Serial Numbers throughout RCMS and only support English letters

			and numbers, up to 50 characters.

VERSION V3.5.2

Release Date: Dec. 6, 2023

Version Inherited: V3.5.1-patch20231031

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	RobustLink - Remote Access	N/A	Added the ability to generate a temporary link with different protocols (HTTPS, SSH, Telnet and RDP) to allow users to easily access devices remotely.
2	View All Devices - Export Reports Periodically	Yes	Added the ability to generate reports periodically for each report under the Reports tab. When this function is enabled, reports are periodically generated and sent to the specified email address.
3	Device Group - Export Reports	Yes	Added 'Reports' tab to device group for user to manage the report created and to export reports once or periodically.

IMPROVEMENTS

Ref#	Function	RCMS App Update Required?	Description
1	RobustLink Improvements	Yes	1. Any reference to "ROS" is changed to "RobustOS" throughout RCMS. 2. Added options to schedule update & reboot in 'Update to RobustOS 5' popup in device detail and device group.

			3. Optimized the version selection of Firmware and Apps TAB hiding the version currently installed. 4. 'Version' is changed to non-required field in Uninstall APP popup window. 5. Added 'Speed Test' function to Remote Actions tab. 6. Added APIs for updating device tags, device group, description and RVPN group.

VERSION V3.5.1-patch20231031

Release Date: Oct. 31, 2023

Version Inherited: V3.5.1-patch20230918

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	Operations Console - Dashboard	N/A	Added a summary page for Operations Console module to show statistic data, license status and device location map, provided shortcuts to access page.
2	Operations Console - Estate Log	Yes	1. Added functionality to manage event priority, enable status and notification settings. 2. Events with higher priority are highlighted in Red in the log list.
3	RobustLink - ROS PRO Software Repository	Yes	Implemented operations for ROS PRO devices to install, upgrade and uninstall apps with the software repository.
4	RobustLink - Remote Access	Yes	Added functionality to generate a temporary link, allowed users to access device remotely.

IMPROVEMENTS

Ref#	Function	RCMS App Update Required?	Description
1	Operations Console Improvements	Yes	7. Updated the note text in RCMS Provisioning and the prompt text in Auto-installation. 8. Added functionality to preview SOW document in the browser. 9. Optimized the formatting in the exported PDF document. 10. Displayed the last month result history in LED Test. 11. Added the selection of 'Use Global Data Limit', upper limit of Global Data Limit is changed to 10TB. 12. 'Online Status' and 'Site Data Limit' fields are added to the Site List. 13. 'Model' and 'Device Group' fields are added to Estate Log list. 14. 'IP Address' field is added to Connected MAC popup window of Diagnostic Check.
2	EV8100 Improvements	Yes	Improvements to EV8100 details page: 1. 'Off-Hook' status is added to Call Status. 2. Added 'Call Mode' display when the call status is 'In-Call'. 3. Optimized the visual notification of power source status. 4. Added an alert called 'Battery switch is off' to EV8100 devices. 5. Removed the relevant information of WAN in EV8100 details. 6. 'Voltage' is changed to 'Battery Level', displayed as 0-

			100%. 7. 'Battery Level' graph is added in EV8100 details. 8. Added a new TAB called 'Call Record' for users to view the call history of device.
3	RobustLink - ROS PRO Software Repository	Yes	Improvements to RobustLink: 1. Removed 'Firmware' TAB in the ROS PRO device details page. 2. Removed the model series of ROS PRO device from the Update and Update To ROS5 popup window in the Firmware TAB of the device group. 3. Removed the 'Device Firmware' fields in the Create Template popup window in Device Template. Note: 'rosp-core' and 'rosp-rcms' apps for ROS PRO devices cannot be uninstalled.
4	Other	N/A	Optimized the operation permission of 'Installer' role.

VERSION V3.5.1-patch20230918

Release Date: Sept. 18, 2023

Version Inherited: V3.5.1

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	Multi-Factor Authentication	N/A	Add multi-Factor authentication option to RCMS login. Note: This can only be set by the account owner or admin.

2	Electronic Invoice	N/A	Add issuing of electronic invoices when customers purchasing RCMS products online.
3	Email Subscription	N/A	Allows users to disable account related email notifications sent from the RCMS platform e.g. purchase notification, release notes etc.
4	RVPN - Service Client	N/A	Allows users to manage the service client and view the Client ID & Key.
5	RVPN - Service Client	N/A	Allow RVPN Client to run as a backend service in Windows and Linux.

IMPROVEMENTS

Ref#	Function	RCMS App Update Required?	Description
1	RVPN Improvements	N/A	1. Allows users to filter the VPN Group by VPN Region. 2. Allows users to view the VPN group type and group data usage (month to date) in the VPN Group information
2	RVPN Desktop Client	N/A	1. Update RVPN desktop client UI to provide a better user experience. 2. Include more detailed information of VPN groups.
3	LoRa Information	Yes	Allows users to view the Whitelisted DevEUIs in LoRa popup window.

VERSION V3.5.1

Release Date: July. 27, 2023

Version Inherited: V3.5.0-patch20230612

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	EV8100 Supported	Yes	Support to display call status,power supple mode, battery status in the device details page of EV8100 model device.
2	Call Record	Yes	Adds 'Call Record' report to show the record reported by device when device call ends, which is only supported for EV8100 model.

IMPROVEMENTS

Ref#	Function	RCMS App Update Required?	Description
1	Operations Console-Provisioning	N/A	3. Change all the drop-down box default value to 'NO' in Create SOW popup. 4. Change the field 'Router test process' and 'other instructions' to non-mandatory in Create SOW popup. 5. Optimized the layout of exported document of SOW zip file. 6. Adds the text about shipping manifest in RCMS Provisioning.
2	Operations Console-Tech Support	N/A	1. Adds 'Result History' in LED Test tab for user to view the last 20,50 or 100 test result history. 2. Change 'Implement help' to 'About Wireshark'. 3. Optimized the information text that is displayed after clicking 'START' button on Wireshark Trace.
3	Operations Console-Commercial	N/A	1. Fixed the time zone problem for uptime and data usage calculation.

			2. Change the tip of uptime field in the list of Uptime tab. 3. Allows the field 'Site Name' to be edited. 4. Change the 'Enable Auto-Installation' default value to 'Enabled'.
4	Operations Console-Commercial	N/A	1. Change 'System Log' menu name to 'Estate Log'. 2. Adds six alert log types to Log Settings.
5	Other	N/A	1. Optimized the operation permission of 'Installer' role. 2. Supported searching and filtering by MAC Address in 'View All Devices' and the display of 'Mac Address' field in the list.

VERSION V3.5.0-patch20230612

Release Date: Jun. 12, 2023

Version Inherited: V3.5.0-patch20230602

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	Portal Manager - Multi-Language	N/A	Allows users to define "Alert Message" text in the Multi-language template popup window.

IMPROVEMENTS

Ref#	Function	RCMS App Update Required?	Description

1	Portal Manager - Edit Template	N/A	Adds a prompt to update template to device after clicking Save.
2	Portal Manager - Default Portal Template	N/A	Change the text of Terms & Conditions and Connect Button in the default portal template.
3	Portal Manager - Create/Edit Template	Yes	Remove Chinese characters support from SSID.

VERSION V3.5.0-patch20230602

Release Date: Jun. 02, 2023

Version Inherited: V3.5.0-patch20230417

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	Portal Manager - Multi-Language	Yes	Added “Multi-Language” tab for users to configure multiple language templates for portal.
2	Portal Manager - Content Filtering	N/A	Added “Content Filtering” to introduce content filter partners.
3	Reset Data usage	N/A	Allows users to reset data usage of portal and the member devices immediately, or set the auto-reset setting for portal data usage and member devices.
4	Alert Message Setting	N/A	Allows users to define whether an alert message is sent to the client device when session time/data exhausted.
5	Captive Portal - OpenAPI		Allows users to collect captive portal information and historical data through RCMS OpenAPI.

IMPROVEMENTS

Ref#	Function	RCMS App Update Required?	Description
1	Portal Manager - Overview	N/A	Change the tab name from ”Information” to “Overview”. Change the exported report of Average Client Session Time and Average Data Per Session, column header to include unit , the cell data contain only numbers.
2	Portal Manager - Devices	N/A	Change “Data usage” column to display the total sessions data usage of the device.
3	Portal Manager - Session History	N/A	Some improvements to Session History: 1. Change tab name from “Clients History” to “Session History”. 2. Added a column called “Device Name”. 3. Hyperlink all serial numbers in the list.
4	Create Portal Template	Yes	Some improvements to Overview: 1. Change the “Title Text” and ”Introduction Text” fields to accept formatting e.g. new line and carriage return. 2. Allows users to define “Terms & Conditions Text”, “Connect Button Text”, “WiFi SSID” and “Background Images” in the template.
5	RVPN	Yes	1. Remove the DeviceOS field from the pop-up window of creating a VPN group. 2. Add the ability to support two different deviceOS types devices in the same VPN group.
6	Other	N/A	1. Change all export functions to asynchronous export in RCMS and backend for better user experience. 2. Clear the search box after switching pages. 3. Added the display of device name on the portal page.

			4. Remove the screen icon on the portal page.

VERSION V3.5.0-patch20230417

Release Date: Apr. 17, 2023

Version Inherited: V3.5.0-patch20230310

IMPROVEMENTS

Ref#	Function	RCMS App Update Required?	Description
1	Operations Console-Provisioning	N/A	Some improvements to Provisioning: 1. Added new tabs for “Router Provisioning” and “RCMS Provisioning”. 2. Change the character limit of Router test procedure to 400. 3. Remove the “File name” field and use the SOW name for the exported SOW file name.
2	Operations Console-Installation	N/A	Some improvements to Installation: 1. Auto-populate installer with the logged in username when register installation, improve user experience. 2. Change the character limit of site note to 400. 3. Remove the “Connected Equipment”field. 4. Added the ability to create and view the additional assets of Installation.
3	Operations Console-Tech Support	Yes	Some improvements to Tech Support: 1. Added ”Active Connection” and ”Connected MACs”

			columns in the results list in diagnostics Check. 2. Change Signal Strength to show “N/A” when active connection is not WWAN or device is offline. 3. Change “Last Seen” field to show the last connected timestamp in connection logs. 4. Added a new tab called “Wireshark Trace” to allow users to capture data packets and analyse the .CAP file in Wireshark to obtain useful information.
4	Operations Console-Commercial	Yes	Some improvements to Commercial: 1. Allows users to view the rolling 30 days of data usage and uptime. 2. Added the ability to edit and delete installations in Site list page. 3. Added the ability for customers to set site data limit or global data limit for installed device. 4. Added a new tab called “Uptime” to view the total uptime of installed devices and display from low to high(0% upwards). 5. Added a new tab called “Auto-Installation” to allow users to pre-configure installation parameters for auto-install. 6. Allows users to set a customized view of top 10, top 20, top 50 or custom in the Data Usage and Uptime list.
5	Operations Console-System Log	Yes	1. Allows users to view the ETH0-4 Up/Down status change logging. 2. Allows users to view the Data limit set in Commercial exceeded logging. 3. Create API for ”System Log” to allow user to retrieve log events.
6	Other	N/A	1. Any reference to “Installer console” is changed to “Operations Console” throughout RCMS.

			2. Hyperlink all serial numbers in Operations Console. 3. Added a new role “Provisioner” that only has read/write permissions for RobustLink - Add/remove Devices functions.

VERSION V3.5.0-patch20230310

Release Date: Mar. 10, 2023

Version Inherited: V3.5.0-patch20230209

IMPROVEMENTS

Ref#	Function	RCMS App Update Required?	Description
1	View All Devices - Captive Portal	N/A	Some improvements to Captive Portal: 1. General spelling update throughout. 2. Change column headers of exported reports to be more descriptive. 3. Increase data limits to 100GB in Session Settings. 4. Added 5GHz AP information in AP status. 5. Added “Current Clients” and ”Clients History” tabs to show the currently connecting clients and connected clients history, remove “Connected Clients” tab.
2	Portal Manager	N/A	Some improvements to Portal Manager: 1. General spelling update throughout. 2. All time range of graphs on Information tab change to include the current day.

			3. Added RVPN Virtual IP to portal group device list. 4. Added 2.4GHz and 5GHz information to device list and client history list. 5. Added Portal Group Total Data Usage and removed portal name at the top indicator. 6. Added SSID , the number of current clients and the current clients information for 5GHz in Current Clients. 7. Change to show all ended client sessions of all devices in the portal group and remove Session History button in the clients history list.
3	Captive Portal License	N/A	Implemented a payment method for Captive Portal function, adds Essential Plus license and Advanced Plus license to provide access to captive portal feature.
4	DI Counter	Yes	Some improvements to the DI Counter: 1. Allows users to customize DI counter next reset time by minute and it will be reset in the nearest time to the value. 2. The unit of reset interval change from hours to minutes. 3. Allows user to view the count total within a period of time and the timestamp of each count. 4. Adds OpenAPI for DI Counter to report the count total within a period of time.

Note:Currently only R2110 and R5020 model device support 5GHz.

VERSION V3.5.0-patch20230209

Release Date: Feb. 09, 2023

Version Inherited: V3.5.0-patch20221207

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	ROS PRO Supported	N/A	Added the ability for customers to add ROS PRO devices to RCMS: • Allows users to view new ROS PRO type details page in device and device group. • Allows users to create ROS PRO type device templates and custom reports. • Allows users to download ROS PRO type firmware and apps in APP Center . • Allows users to create ROS PRO type groups in RVPN group.

VERSION V3.5.0-patch20221207

Release Date: Dec. 7, 2022

Version Inherited: V3.5.0-patch20221031

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	Installer Console License	N/A	Implemented a payment method for the Installer Console, adds an Installer Console license which provides 30 days of

			access to all features for the Installer Console Module.
2	Installer Console Access control	N/A	Adds a role called “Installer” that only has read & write permissions for the Installer Console Module & functions and limits them to viewing only their own installation information in the Installer Console.

IMPROVEMENTS

Bug#	Function	RCMS App Update Required?	Descriptions
1	Location	N/A	Added Color indicators to represent connection status for groups of devices
2	View all device	N/A	Added a new field called “Installed” in the device list.
3	Set Auto-renewal	N/A	Changes the default value of license to Advanced and the default value of period to continuous.
4	Support	N/A	In the left menu of Support , swapped the display location of OPEN API and Resources.
5	Point Table	N/A	Some improvements to the point table: • Data type field adds a new type ”Double” • Endianness field adds four options “ABCDEFGH / GHEFCDAB / BADCFEHG / HGFEDCBA” • Add “Trigger” and “Trigger Upload”fields • Update Point table template
6	DI Event Report	N/A	Allows users to view every DI event with a time stamp and cumulative count
7	IO Control	N/A	Adds a button called ”RESET TIMER” in DI status to set a timed reset of each DI counter in hours

8	Captive Portal	N/A	Improvements to captive portal page UI
9	Installer Console - Provisioning	N/A	1. Changes the pre-filled text of “Pre-installed application” filed. 2. Allows users to upload a router config file when creating a new SOW
10	Installer Console - Installation	N/A	1. Optimizes the display order of list fields and hide IMEI field by default. 2. Allow users to view the site image by clicking image icon in the action column and maximize the view of image
11	Installer Console - Tech Support	N/A	1. Allows users to view last 20 connection logs. 2. Allows users to export the last 20 connection logs. 3. Deletes the date range selection box of connection logs. 4. Adds a prompt text “Please note that not all routers have USR LED” in the LED Text page. 5. Adds “SMS Test” subsection in Tech Support.
12	Installer Console - Commercial	N/A	1. Optimizes the display order of list fields in the site list. 2. Adds the statistics display of Total Installed devices and Total data usage consumed by installed devices in the Data Usage.

VERSION V3.5.0-patch20221031

Release Date: Oct. 31, 2022

Version Inherited: V3.5.0-patch20221018

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	Portal Management	N/A	Added Portal Management in RobustLink module with the following functions: • Allows customers to clearly customize and manage the captive portal template of device. • Allows customers to add or remove device to template and update template to device. • Allows customers to view the data and session statistics of all device in template for a period of either the past seven days, 15 days, 1 month previous. • Allows customers to view the amount of data downloaded and uploaded and session length by MAC Address of each client. • Allows customers to customize session settings for individual devices or template based on client behaviour.

Note: This is a concept demo that may include potential bugs. Only for concept discussion.

VERSION V3.5.0-patch20221018

Release Date: Oct. 18, 2022

Version Inherited: V3.5.0

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	Reset device password	N/A	Allows device password to be reset from RCMS
2	Remote Action - access serial port	N/A	Adds an USB port and allows customer to access the Cisco router via the USB console port
3	Remote Action -Comms check	N/A	Add a button called"Comms Check", after clicking , USR in the device will flash 5 times

IMPROVEMENTS

Bug#	Function	RCMS App Update Required?	Descriptions
1	Device Details	N/A	Add Lan0 IP Address and delete Hardware Version / Kernel Version field in the information
2	Distributor Console	N/A	Improvements to the assignment of license
3	RCMS Asset	N/A	Remove the product of endpoint from the product list and delete message pool for endpoint manager
4	All functions	N/A	Improved text box content limits to provide a better user experience.

VERSION V3.5.0

Release Date: Sep. 9, 2022

Version Inherited: V4.0.2

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	Installer Console Module	N/A	Added Installer Console module with the following functions: • Allow customers to clearly identify and manage the deployment process of their devices. • Allow customers to easily register a new installation and to manage a database of existing installs. • Allow customers to perform diagnostic checks and LED tests at the click of a button. • Allow customers to view data usage by site, and number of installs by an installer across a given date range. • Allow customers to view the key events across an estate of devices over the previous three months.

Note: This is a concept demo that may include potential bugs. Only for concept discussion.

VERSION V4.0.2

Release Date: Aug. 5, 2022

Version Inherited: V4.0.1-patch20220527

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	Firmware Update to ROS5	N/A	Allows users a simple upgrade path for RobustOS enabled devices to RobustOS V5 for supported devices.
2	Device list view	N/A	Add LAN0/LAN1/LAN2 fields in device mapping in the device list, LAN1 and LAN2 fields are hidden by default

IMPROVEMENTS

Bug#	Function	RCMS App Update Required?	Descriptions
1	Device list view	N/A	Show/Hide Firmware Version field in the list
2	Lincense - auto-renew	N/A	Improvements to auto-renewal functionality
3	Export device list	N/A	Allows users to export the device list and view the export records for the current day

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VERSION V4.0.1-patch20220527

Release Date: May 27, 2022

Version Inherited: V4.0.1

Note: All historical data; including products and endpoints from the Endpoint Manager module will be deleted after this version is published and will need to be recreated.

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	Endpoint Manager Licensing	N/A	Implemented a payment method for Endpoint Manager, which includes an extra 80000 messages with an Advance License and add a Message Package with 30000 messages
2	Endpoint Manager - Products	N/A	1. Simplified the Parameter Code format to {tag} in the point table for each parameter 2. Support to create a product with a point table.

IMPROVEMENTS

Bug#	Function	RCMS App Update Required?	Descriptions
1	Endpoint Manager - UI Improvement	N/A	Improve the UI elements of Endpoint Manager to make it comparative to other RCMS module

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VERSION V4.0.1

Release Date: Apr 11, 2022

Version Inherited: V4.0.0

Note: All historical data; including products and endpoints from the Endpoint Manager module will be deleted after this version is published and will need to be recreated.

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	Point Table	N/A	Allows RCMS users to create, export and forward a point table for use with the Edge2Cloud App on gateways.
2	Endpoint Manager - Southbound App	N/A	Allow users to select which southbound app will process endpoint data when creating an endpoint.
3	Endpoint Manager - Device Locations	N/A	Allow users to set the location of endpoints, which can be set to collect location data from the associated gateway or the endpoint.
4	Endpoint Manager - OpenAPI	N/A	Allow users to collect endpoint information and historical data through RCMS OpenAPI.

IMPROVEMENTS

Bug#	Function	RCMS App Update Required?	Descriptions
1	Endpoint Manager - User and Role Permissions	N/A	Allow users to manager the role & permission settings for the Endpoint Manager module.
2	Endpoint Manager - Alert rules restrictions	N/A	Restricted the use of symbols and characters when creating alert rules to avoid errors.
3	Endpoint Manager - Data Upload Strategy	N/A	Allow users to customize the upload method of specific and custom endpoints.
4	Endpoint Manager	N/A	Other improvements to the endpoint manager module: • Endpoint Manager Module now supports Azure IoT hub. • Created a redundancy mechanism to manage endpoint

			subscription messages in the event they are not received or lost.
5	OpenAPI	N/A	The following API calls have been modified, please see the API Manual in "RCMS -> Support -> OpenAPI" for details. *For the following APIs, begintime and Endtime are required when requesting parameters.* • /api/link/device/devices/{sn}/alertLogs *Remove the following return parameters: alertStatus, severity, groupId, ipAddress, source, deviceName, groupName, companyId, createdTime, id, busType, timestamp, status* • /api/log/device/devices/{sn}/syslog *Remove the following return parameters: fromHost, deviceReportedTime, id, priority, facility* • /api/link/device/gpsReport • /api/link/device/devices/{sn}/signalStrengthLog • /api/link/device/devices/{sn}/statusData • /api/link/device/devices/{sn}/regularReport *Remove the following return parameters: id* • /api/link/device/connectionHistory • /api/link/devices/{sn}/firmwares *Remove the following return parameters: applicableDevices*

VERSION V4.0.0

Release Date: Jan 5, 2022

Version Inherited: V3.4.9

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	Endpoint Manager Module	N/A	Add Endpoint Manager module with the following functions: • Allow the customer to connect end devices to RCMS and collect end device data. • Allow customers to customize the dashboard of the endpoint manager module. • Allow customers to create custom reports based on end device data. • Manipulate end device data into custom graphs & charts. • Allow customers to customize alert rules and trigger conditions based on end device behaviour.

Note: Endpoint Manager is currently only supported by Robustel Edge2Cloud gateways. For more information, please speak to your Robustel account manager.

VERSION V3.4.9

Release Date: Dec 16, 2021

Version Inherited: V3.4.8 - patch20210930

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	RCMS Distributor Rebate Information	N/A	Allow distributors to obtain view eligible rebates and spending from downstream customers in the Distributor

			portal.
2	Resources Folder Structure	N/A	The Resources module now supports hierarchical structure of folders and files and can create a shareable link valid for 48 hours.
3	Data Packs	N/A	Allow customers to manually use data packs on demand, or set the priority of automatically using data packs.
4	App Uninstallation	N/A	Allow customers to set a specified time to uninstall Apps on a device.
5	OpenAPI	N/A	Allow customers to obtain the licenses and location information through the RCMS OpenAPI.
6	PoE Status	Yes	Allow customers to view current PoE status and enabled / disabled status for each Ethernet/LAN port

IMPROVEMENTS

Bug#	Function	RCMS App Update Required?	Descriptions
1	RCMS Free Trial	N/A	If a registered device is deleted and added to another company in RCMS, then the device is automatically granted another free trial.
2	Device List View	N/A	Allow customers to search SSID, IMEI, ICCID, IMSI fields in the “View All Devices” list.
3	5G Signal Strength	N/A	RSRP parameters used to display the signal strength of 5G devices.
4	RemoteUI	N/A	Fixed a bug that after an item is deleted through the RemoteUI function, the sequence number is displayed abnormally, and a new item cannot be added.

VERSION V3.4.8 - patch20210930

Release Date: Sep 17, 2021

Version Inherited: V3.4.8 - patch20210917

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	RobustVPN	N/A	Allow customers to select VPN region when creating a RVPN group, and devices in the group will be assigned to VPN servers in the selected region.

VERSION V3.4.8 - patch20210917

Release Date: Sep 17, 2021

Version Inherited: V3.4.8

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	App Center	N/A	Allow customers to view E2C apps in RCMS and update to the device remotely.
2	Distributor Console	N/A	Allow distributors to turn their end customers into re-seller.
3	Distributor Console	N/A	Allow distributors to view the number of end customers of

			their re-seller.

IMPROVEMENTS

Bug#	Function	RCMS App Update Required?	Descriptions
1	Device Compatibility	N/A	RemoteUI and device software update function support R201X and ET801X series devices.
2	Device List View	N/A	Allow customers to customize the width of each field of “View All Devices” list.
3	All functions	N/A	Improved text Formatting and UI to provide a better user experience.

VERSION V3.4.8

Release Date: Jul 28, 2021

Version Inherited: V3.4.7 - patch20210820

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	New Company Type ‘Re-seller’	N/A	Added a new tier in the company hierarchy called ‘Re-seller’, which sits below ‘distributor’. This new company type can be used to manage multi-tiered sales relationships.
2	Device Allocation	N/A	Distributor and re-seller level accounts can now transfer devices from their account to downstream accounts.

3	Bulk uninstall of Apps	N/A	Allow users to uninstall multiple apps on a single device.
4	Device List View	N/A	Allow users to view ICCID/IMSI in “View All Devices”.
5	LoRa Status	Yes	Allow users to view all LoRa status information in RCMS. *(only for LoRa enabled gateways like the R3000-LG)*
6	RemoteUI - Status	Yes	Allow users to view ROS status while using RemoteUI.

IMPROVEMENTS

Bug#	Function	RCMS App Update Required?	Descriptions
1	User Activity Log	N/A	The user activity log now logs more functions including group, license and VPN changes.
2	OpenAPI Limitations	N/A	Limited the number of OpenAPI calls to five per second to ensure fidelity of service.
3	Device Templates	Yes	Improved the device templates layout and delivery for offline devices.

VERSION V3.4.7 - patch20210820

Release Date: Apr 20, 2021

Version Inherited: V3.4.7

NEW FEATURES

Ref#	Function	Descriptions
1	New Role Type ‘Limited-User’	Added a new RoleType called ‘Limited-User’ that only has read & write permissions on devices assigned to them.

2	RVPN Advanced Settings	Allow customers to change MTU/Fragment parameters in RVPN - Settings.

IMPROVEMENTS

Bug#	Function	Descriptions
1	Device Support Update	Fixed a bug where update firmware/APP/RemoteUI were not functioning as intended on newer model devices.
2	OTA Error Messaging	When an OTA update to a device fails more specific error messaging will be displayed to help the user locate the issue.
3	Unicode Support	Device tags and custom naming in RCMS now support all Unicode character sets.
4	Delete Data on Device Removal	Allows customers to choose to delete all associated data when a device is removed from their RCMS account or not (Device data will only be retained if the device is added back to the same company)
5	RVPN Client automatic reconnection	The RVPN client now supports automatic reconnection attempts.
6	RVPN client logs	RVPN client now stores logs by date for audit and troubleshooting purposes.

VERSION V3.4.7

Release Date: Jan 14, 2021

Version Inherited: V3.4.6 – patch20201202

NEW FEATURES

Ref#	Function	Descriptions

1	RVPN access only default role	Creates a role that is only given RVPN client permission and cannot access the RCMS GUI
2	List View Options	Allows customers to view SSID and Smart Roaming status in the View All Devices list – Custom views are now saved.
3	LoRa Information	Allows customers to view the current LoRa status of a device and edit the LoRa config through RemoteUI (R3000 LG only).
4	IO Control	Allows customers to view the current DI/DO/AI status and change the DO status.
5	RobustOS App Status & Control	Allows customers to view installed apps on their device and Enable/Disable them remotely.

VERSION V3.4.6 – patch20201202

Release Date: Dec 2, 2020

Version Inherited: V3.4.6

NEW FEATURES

Ref#	Function	Descriptions
1	RVPN 3.0	An infrastructure and functionality overhaul of RVPN, adding the following features: • Support for load balancing to improve VPN throughput and resiliency • Allows the creation of different categories of VPN groups • Provision of 'maintenance' VPN groups for remote end point access
2	RVPN Client Update	The RVPN Desktop client has now been updated to support Windows and Linux

VERSION V3.4.6

Release Date: Nov 24, 2020

Version Inherited: V3.4.5

NEW FEATURES

Ref#	Function	Descriptions
1	Bulk uninstalling apps	Allows customers to uninstall RobustOS apps in bulk and view uninstallation records.
2	Update progress and failure reasons	Allows customers to view apps/firmware update progress and failure reasons if the update fails.
3	Device update timer	Allows customers to set a specified time to update the device app/firmware or apply templates on devices.
4	RVPN Dual Encryption	Allows customers to select the encryption method when creating a group.
5	Sniffer Capture Tool	Added the ability to capture data packets via RCMS – The same as the Sniffer function in RobustOS.
6	List of errors when adding devices in bulk.	Allows customers to view the error log for each device in a list when adding devices to RCMS in bulk.
7	Historical Syslog	Allows customers to export & download historical syslog data.

IMPROVEMENTS

Bug#	Function	Descriptions
1	RemoteUI	Fixed a bug causing a parameter display issue when editing configuration in RemoteUI.
2	Test COM Port &	Optimized error message when no serial ports are available or when serial

	Send Serial String	ports are disconnected.

VERSION V3.4.5

Release Date: Sep 27, 2020

Version Inherited: V3.4.4

NEW FEATURES

Ref#	Function	Descriptions
1	RCMS Quick Start	Gives users a short tutorial and instructions the first time they log into RCMS.
2	Historical Syslog	Allows customers to export & download historical syslog data.
3	XML Update Improvement	Updated error details when uploading an XML file to a device fails.
4	CSQ Display	Display the CSQ of both SIM slots in RCMS.
5	Test COM Port & Send Serial String	Allow users to access the COM port of a device and open a new command window to send user defined ASCII strings to simulate a conversation.
6	Insufficient RAM (95% RAM) Alert	Add an alert when customers devices have insufficient RAM to install new Applications to RobustOS.

IMPROVEMENTS

Bug#	Function	Descriptions
1	Users & Roles	• Added a new RoleType called 'Operator' that has read & write permissions • Renamed CommonUser to ReadOnly

2	Transaction history	Allows distributors to view all online/offline transaction history from their end customers.

VERSION V3.4.4

Release Date: Aug 27, 2020

Version Inherited: V3.4.3 - patch20200731

NEW FEATURES

Ref#	Function	Descriptions
1	DI Events	Allow users to view reports based on different connected Digital Inputs (DI) and receive alerts notifications when there is a status change.
2	GPS Report and Settings	Allow customers to view and configure reports based on GPS data from their Robustel gateway.
3	OpenAPI Upgrade	Updated the API to provide “RCMS Connection History” calls.

IMPROVEMENTS

Bug#	Function	Descriptions
1	All functions	Improved text Formatting and UI to provide a better user experience.

VERSION V3.4.3 - patch20200731

Release Date: Jul 31, 2020

Version Inherited: V3.4.3

NEW FEATURES

Ref#	Function	Descriptions
1	RemoteUI	Allow users to visualize the current configuration of a device and modify it using the GUI instead of an XML file. Note: Extend this feature to the R2000, R3000, R1500, R1510, R1520 series.
2	Device Area	Automatically assign the closest device area based on company account location.
3	RCMS New Data Report	Allow customers to view GPS data reports and optimize all RCMS data reports.

BUG FIXED

Bug#	Function	Descriptions
1	CSQ Status	Change the state when CSQ equals 0 to "Pending".
2	RCMS Registration	Modified RCMS terms of services and privacy policy.

VERSION V3.4.3

Release Date: Jul 17, 2020

Version Inherited: V3.4.2

NEW FEATURES

Ref#	Function	Descriptions
1	RVPN Group Data Limit	Allow customers to set an RVPN data limit on a group level.
2	Device 'Tagging' System	Allows customers to add tags to devices and use tags to manage and filter devices in RCMS.
3	RCMS OpenAPI Upgrade	Updated the writable API to provide the following calls: 1. Add/Remove Devices. 2. Update Firmware/Apps/XML. 3. Remote Actions (including Data Parameters, Reboot, Speed Test). 4. Start/Stop Group and Device VPN Connection.
4	RVPN Alert Email Settings	Allow distributors to whitelabel alert emails when their end customer's licenses or RVPN data is insufficient.
5	Production Device List	Allows the RCMS SuperAdmin to view and manually modify the list of devices in the production library.
6	Device Geography	Allows customers to set different geographic regions for their devices to connect to the closest available server to reduce latency and ping time to RCMS. Note: By default all devices are set the West Europe region - Regions can be changed in the Device List.

BUG FIXED

Bug#	Function	Descriptions
1	Syslog	Fixed a bug where users could repeatedly turn on/off real-time syslog before receiving action results.

VERSION V3.4.2

Release Date: Jun 2, 2020

Version Inherited: V3.4.1

NEW FEATURES

Ref#	Function	Descriptions
1	Device Templates	Allow customers to edit variable parameters for different devices in one template. Merged the creation and application of device templates into the same module.
2	OPENAPI Extension	Updated the API to provide the following calls: 1. Device location information. 2. Device full status report. 3. Device regular report. 4. Device alert logs. 5. Device latest/history syslog.
3	Data Report & Keep Alive	Allow the setting of Keep Alive and Data Report Settings in RCMS and ROS.
4	Device Speed Test	Allow users to test the upload/download speed of their device and to choose the size of the test package.
5	Super Administrator Feature Optimization	Allows SuperAdmin to manually edit and enable RCMS maintenance notices, and control whether the Robustel software is available to the customers for download.
6	User Experience	Optimized user experience, such as make device list column headers clickable to sort and view the device locations with more filters, etc.

BUG FIXED

Bug#	Function	Descriptions
1	All functions	Improved text Formatting and UI to provide a better user experience.

VERSION V3.4.1

Release Date: Apr 30, 2020

Version Inherited: V3.4.0

NEW FEATURES

Ref#	Function	Descriptions
1	License Auto-Renewal Period	Allow customers to configure a set auto-renewal period for a device instead of having a device auto-renew in perpetuity.
2	PLC Remote Access	Allows customers to add eligible PLC devices to their RobustVPN 'Virtual IP only' Group(s) to remotely access and control PLCs from a RobustVPN Virtual LAN.
3	Roles and Permissions	Overhauled the User module: There are now 3 default Role Types: "Owner", "Administrator" and "CommonUser". Owner is a unique role that is allocated to the user that created the RCMS Company Account and can perform all functions. Administrator can perform Note: Since the CommonUser role will now only have read-only permissions, any previous CommonUser with write permissions, will be changed to Administrator automatically.

4	RemoteUI	Allows users to visualize the current configuration of a device and modify it using the GUI instead of an XML file.

BUG FIXED

Bug#	Function	Descriptions
1	App/Firmware OTA	Allow customers to view installed software as a list with a history.
2	OEM	Moved the OEM menu under the "Account" module.
3	OpenAPI	Allow users to remove the API client.

VERSION V3.4.0

Release Date: Apr 10, 2020

Version Inherited: V3.3.0

NEW FEATURES

Ref#	Function	Descriptions
1	Custom Reports	Added the ability to allow customers to create and view custom reports for each device.
2	RVPN Initialization	Added the ability for customers to initialize VPN group/device/user manually and view the initialization status, to improve RVPN connectivity.
3	Azure IoT Connector	Added the ability for customers to add edge IoT devices (Sensors) connected to Robustel devices to Microsoft Azure IoT Central through RCMS.

VERSION V3.3.0

Release Date: Mar 5, 2020

Version Inherited: V2.2.0

NEW FEATURES

Ref#	Function	Descriptions
1	Extended Access	Added the ability for same email account to be used across multiple company accounts and added the option to switch companies without having to login again.
2	Data Graph	Added the ability to allow customers to view Signal Strength/Connection History/Latency as a graph in RCMS, also export related data as a file
3	Data Graph	Added the ability to allow customers to view WAN Traffic Usage as a graph in RCMS, also export related data as a file. (This feature is currently available only on R2000/R3000 devices, and requires the latest version of firmware and RCMS App).
4	Alert	Added LAN up/down alert setting and alert sound function.
5	Switch Connection Type	Added the ability to allow customers to switch connection type manually.
6	Syslog	Enabling real-time syslog to collect data continuously until turned off.
7	RVPN	Added the ability to allow customers to create different types of VPN groups: Including 'Virtual IP + pushed Subnet' and 'Virtual IP only' (This feature requires the latest version of RCMS app).
8	Free Trial	Added the ability for all newly registered Robustel devices to automatically receive three free Advanced Licenses (90 days validity).

9	NON-ROS Supported	Added the ability for customers to add NON-ROS devices to RCMS.

Software versions and above that support WAN Traffic Graph:

Series / Software	R2000	R3000	R2100	M1200	R2110	R1500	R1510	MEG 5000	R3000 LG	R3010
Firmware	V3.0.24	V3.0.17	NA	NA	NA	NA	NA	NA	NA	NA
RCMS App	V3.0.2	V3.0.2	NA	NA	NA	NA	NA	NA	NA	NA

Software versions and above that support RVPN Group Type features:

Series / Software	R2000	R3000	R2100	M1200	R2110	R1500	R1510	MEG 5000	R3000 LG	R3010
RCMS App	V3.0.3	V3.0.3	V1.0.2	V1.0.2	V3.1.2	V1.0.2	V3.1.1	V3.1.2	V3.1.2	V3.1.2

BUG FIXED

Bug#	Function	Descriptions
1	OEM	Fixed a bug where RCMS interprets transparent backgrounds as black when uploading an OEM logo.
2	Invitation Email	Remove the extra 'Ltd' after Customer Name on the invitation email template.
3	RCMS Email Templates	Improved the text description of RCMS email templates to make content easier to read.
4	All functions	Improved text Formatting and UI to provide a better user experience.

VERSION V2.2.0

Release Date: Dec 13, 2019

Version Inherited: V2.1.0 - patch20191025

NEW FEATURES

Ref#	Function	Descriptions
1	Free Trial	Added the ability for all newly registered Robustel devices to automatically receive one free Essentials License (30 days validity).
2	Export Function	Added the ability to allow customers to export a complete list of all registered devices from the 'View All Devices' Page.
3	Resources	Customers can now download the latest official Robustel documentation and files directly RCMS.
4	FAQ	Added RCMS FAQ Page.
5	OEM/Whitelabel	Added the ability for distributor level users to upload a custom Logo and App name for a re-branded End Customer experience.
6	Email Notification	Added the ability to send system notifications and insufficient license level notifications via email.

BUG FIXED

Bug#	Function	Descriptions
1	Register an Account	Optimized the RCMS invitation template for compatibility with common mail clients.
2	App Center	Fixed a bug where End Customers could not use Custom Apps published by Distributors.

VERSION V2.1.0 - patch20191025

Release Date: Oct 25, 2019

Version Inherited: V2.1.0 - patch20191010

NEW FEATURES

Ref#	Function	Descriptions
1	Distributor Console	Added the ability to let Distributors enable/disable online payment of their End Customers.
2	Distributor Console	Added the ability to allow Distributors to see the invitation status of invited customers.

BUG FIXED

Bug#	Function	Descriptions
1	All functions	Text Formatting and UI changes to make content easier to read.
2	Device Locations	Improved the speed for updating location information after a device reconnects.
3	App Center	Optimised the display format of uploaded images.
4	Add/Remove Devices	Optimised the downloadable template used for batch importing of devices.

VERSION V2.1.0 - patch20191010

Release Date: Oct 10, 2019

Version Inherited: V2.1.0

NEW FEATURES

Ref#	Function	Descriptions
1	App Center	Allow customers to download Firmware.

BUG FIXED

Bug#	Function	Descriptions
1	Notifications	Fixed the bug that words get split across multiple lines and the wrong title/prompt of pop-up windows.
2	Notifications	Optimize user interface, make column headers clickable to sort and add Release Notes to Notifications module.
3	Device Templates	Allow users to upload their image for better templates management.
4	Device Templates	Fixed the bug that prompt error when template enable/disable.
5	Purchase Invoice	Optimize the invoice email template.

VERSION V2.1.0

Release Date: Sep 27, 2019

Version Inherited: V2.0.2

NEW FEATURES

Ref#	Function	Descriptions
1	App Center	Provide Apps/Firmware for customers to update devices remotely.
2	Zero Touch	Device Template can be created with Apps, Firmware, and Configuration file and applied on device(s) remotely.
3	Manual License	Device Template can be created with Apps, Firmware, and Configuration file and applied on device(s).
4	Release Notes	Super Admin and distributors can allocate license to customers who finish offline payment.
5	Notifications	For customers to read notifications from RCMS team or distributors.
6	Distributor Console	Allow distributors to manage their own customers, including device overview, licenses allocation and notifications sending.

PERFORMANCE IMPROVEMENT

Ref#	Function	Descriptions
1	All functions	Improve the user interface and text description for some features to provide better user experience.
2	All functions	Device Security mechanism improvement.

BUG FIXED

Bug#	Function	Descriptions
1	Customer Setting	Fixed the bug that prompt error when setting price of license.

VERSION V2.0.2

Release Date: Sep 20, 2019

Version Inherited: V2.0.1 - patch20190808

NEW FEATURES

Ref#	Function	Descriptions
1	RobustVPN	Supports all functionality of RobustVPN.
2	Purchase Invoice	Email invoice for every purchase.

PERFORMANCE IMPROVEMENT

Ref#	Function	Descriptions
1	All functions	Improve the text description for some features to provide better user experience.
2	All functions	Improve VPN traffic monitoring function.

BUG FIXED

Bug#	Function	Descriptions
1	View All Devices	Fixed the bug that prompt error when connecting device.

VERSION V2.0.1 - patch20190808

Release Date: Aug 8, 2019

Version Inherited: V2.0.1 - patch20190801

PERFORMANCE IMPROVEMENT

Ref#	Function	Descriptions
1	Payment	Update Payment gateway

VERSION V2.0.1 - patch20190801

Release Date: Aug 1, 2019

Version Inherited: V2.0.1 - patch20190701

PERFORMANCE IMPROVEMENT

Ref#	Function	Descriptions
1	Payment	Close the payment function for payment gateway upgrade until further notice.

VERSION V2.0.1 - patch20190701

Release Date: Jul 4, 2019

Version Inherited: V2.0.1

PERFORMANCE IMPROVEMENT

Ref#	Function	Descriptions
1	All functions	Improve the text description for some features to provide better user experience.

BUG FIXED

Bug#	Function	Descriptions
1	View All Devices	Fixed the bug when a device is offline accidently, RCMS cannot show the offline status correctly.

VERSION V2.0.1

Release Date: Jun 26, 2019

Version Inherited: V2.0.0

NEW FEATURES

Ref#	Function	Descriptions
1	User Register	Add the Verification Code to improve the security of registration.
2	Add/Remove Devices	Add the batch import function

PERFORMANCE IMPROVEMENT

Ref#	Function	Descriptions
1	All functions	Improve the control authority for basic licenses.
2	All functions	Improve the service performance.
3	All functions	Improve the website security.
4	All functions	Improve some text description for better user experience
5	View All Devices	Improve the device series definition

BUG FIXED

Bug#	Function	Descriptions
1	View All Devices	Fixed the bug that some devices will be frequent offline.
2	View All Devices	Fixed the bug that cli commands will be abnormal sometimes.
3	View All Devices	Fixed the bug some pop-out window will pop out twice.
4	View All Devices	Fixed the bug sometimes the SIM cannot get location.
5	Device Group	Fixed the bug that no tag appears when opening Device Group