

Robustel RCMS 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 V3.5.0

Release Date: Jun.15 , 2023

Version Inherited: V3.4.9-patch20230605

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	ROS PRO Support	Yes	Added support for RobustOS PRO devices.
2	Portal Manager	Yes	Added the ability for users to add and manage their own portal template group, including device management, session history, and multi-language.
3	Captive Portal	Yes	Added the ability for user to view current captive portal clients, session history and update history of captive portals.
4	Captive Portal License	N/A	Added Captive Portal PRO license to provide access to captive portal feature.
5	Reset Device Password	Yes	Allows device password to be reset from RCMS
6	Remote Action - Access Serial Port	Yes	Adds the ability for customers to access Cisco routers via the USB console port when connected via supported Robustel devices
7	Remote Action - Comms Check	Yes	Add a "Comms Check" button. After clicking,USR LED on the device will flash 5 times
8	IO Control	Yes	Add a "RESET TIMER" feature in DI status. Allowing users to customize the DI counter reset time and interval
9	DI Event Report	Yes	Allows user to view the count total within a period of time and the timestamp of each count.

10	OpenAPI	N/A	<ol style="list-style-type: none"> 1. Adds API for DI Counter to report the count total within a period of time. 2. Adds API for users to collect captive portal information and historical data.
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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	Point Table	Yes	<p>Some improvements to the point table:</p> <ul style="list-style-type: none"> • Data type field adds a new type "Double" • Endianness field adds four options "ABCDEFGH/ GHEFCDAB / BADCFEFG / HGFEDCBA" • Add "Trigger" and "Trigger Upload" fields • Update Point table template
3	Location	N/A	Added Color indicators to represent connection status for groups of devices
4	Set Auto-renewal	N/A	Changes the default value of license to Advanced and the default value of period to continuous.
5	Support	N/A	In the left menu of Support , swapped the display location of OPEN API and Resources.
6	Distributor Console	N/A	Improvements to the assignment of license
7	All functions	N/A	<ol style="list-style-type: none"> 1. Change all export functions to asynchronous export in RCMS for better user experience. 2. Clear the search box after switching pages. 3. Improved text box content limits to provide a better user experience.

Note: Several new features and improvements marked with "Yes" require the latest firmware and APP to be updated.

VERSION V3.4.9-patch20230605

Release Date: Jun. 5, 2023

Version Inherited: V3.4.9-patch20220906

BUG FIXED

Bug#	Function	RCMS App Update Required?	Descriptions
1	Sorting	N/A	Fixed a bug affecting sorting by various parameters.

VERSION V3.4.9-patch20220906

Release Date: Sep. 6, 2022
 Version Inherited: V3.4.9

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	Firmware Update to ROS5	N/A	Allows users a simple upgrade path for RobustOS enabled devices to RobustOS V5 for supported devices.
3	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	License - 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
4	OpenAPI	N/A	<p>The following API calls have been modified, please see the API Manual in “RCMS -> Support -> OpenAPI” for details.</p> <p><i>For the following APIs, begintime and Endtime are required when requesting parameters.</i></p> <ul style="list-style-type: none"> /api/link/device/devices/{sn}/alertLogs <p><i>Remove the following return parameters: alertStatus, severity, groupId, ipAddress, source, deviceName, groupName, companyId,</i></p>

			<p><i>createdTime, id, busType, timestamp, status</i></p> <ul style="list-style-type: none"> • /api/log/device/devices/{sn}/syslog <p><i>Remove the following return parameters: fromHost, deviceReportedTime, id, priority, facility</i></p> <ul style="list-style-type: none"> • /api/link/device/gpsReport • /api/link/device/devices/{sn}/signalStrengthLog • /api/link/device/devices/{sn}/statusData • /api/link/device/devices/{sn}/regularReport <p><i>Remove the following return parameters: id</i></p> <ul style="list-style-type: none"> • /api/link/device/connectionHistory • /api/link/devices/{sn}/firmwares <p><i>Remove the following return parameters: applicableDevices</i></p>
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VERSION V3.4.9

Release Date: Feb 22, 2022

Version Inherited: V3.4.8

NEW FEATURES

Ref#	Function	RCMS App Update Required?	Description
1	RCMS Distributor Rebate Information	N/A	Allow distributors to 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 used 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 license and location information through the RCMS OpenAPI.
6	PoE Status	Yes	Allow customers to view the current PoE status and enabled / disabled status for each Ethernet/LAN port <i>(only for PoE enabled gateways like the R2000 D)</i>
7	LoRa Status	Yes	Allow users to view all LoRa status information in RCMS. <i>(only for LoRa enabled gateways like the R3000-LG)</i>
8	RemoteUI - Status	Yes	Allow users to view ROS status while using RemoteUI.

9	Licenses Auto-Renew	N/A	Allow customers to select the license level when enabling auto-renewal.
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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.
5	Device Templates	Yes	Improved the device templates layout and delivery method for offline devices.
6	License Renewal Periods	N/A	Users are now unable to add multiple licenses at once to a single device in RCMS. Instead users can now set an expiration point on auto-renewal to perform the same function.

VERSION V3.4.8

Release Date: Oct 20, 2021

Version Inherited: V3.4.7

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	Distributor Console	N/A	Allow distributors to turn their end customers into re-seller.
4	App Center	N/A	Allow customers to view E2C apps in RCMS and update to the device remotely.
5	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.
6	Bulk uninstall of Apps	N/A	Allow users to uninstall multiple apps on a single device.
7	Device List View	N/A	Allow users to view ICCID/IMSI in "View All Devices".

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 Compatibility	N/A	RemoteUI and device software update function support R201X and ET801X series devices.
4	Device List View	N/A	Allow customers to customize the width of each field of "View All Devices" list.
5	All functions	N/A	Improved text Formatting and UI to provide a better user experience.

VERSION V3.4.7

Release Date: May 31, 2021

Version Inherited: V3.4.5

NEW FEATURES

Note: Several new features require the RCMS App to be updated - The latest version can be found in the App Centre and either downloaded or sent to you devices OTA with an Essentials License or above.

Ref#	Function	Descriptions
1	New Role Type	Added a new RoleType called 'Limited-User' that only has read & write

	'Limited-User'	permissions on devices assigned to them.
2	RVPN access only default role	Creates a role that is only given RVPN client permission and cannot access the RCMS GUI.
3	Sniffer Capture Tool	Added the ability to capture data packets via RCMS – The same as the Sniffer function in RobustOS.
4	IO Control	Allows customers to view the current DI/DO/AI status and change the DO status.
5	Historical Syslog	Allows customers to export & download historical syslog data.
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	List View Options	Allows customers to view SSID and Smart Roaming status in the View All Devices list – Custom views are now saved.
8	RobustOS App Status & Control	Allows customers to view installed apps on their device and Enable/Disable them remotely.
9	Bulk uninstalling apps	Allows customers to uninstall RobustOS apps in bulk and view uninstallation records.
10	Update progress and failure reasons	Allows customers to view apps/firmware update progress and failure reasons if the update fails.
11	Device update timer	Allows customers to set a specified time to update the device app/firmware or apply templates on devices.
12	RVPN Dual Encryption	Allows customers to select the encryption method when creating a group.
13	RVPN Advanced Settings	Allow customers to change MTU/Fragment parameters in RVPN - Settings.

IMPROVEMENTS

Ref#	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.

7	RemoteUI	Fixed a bug causing a parameter display issue when editing configuration in RemoteUI.
8	Test COM Port & Send Serial String	Optimized error message when no serial ports are available or when serial ports are disconnected.

VERSION V3.4.5

Release Date: Nov 12, 2020

Version Inherited: V3.4.3

NEW FEATURES

Note: Several new features require the RCMS App to be updated - The latest version can be found in the App Centre and either downloaded or sent to you devices OTA with an Essentials License or above.

Ref#	Function	Descriptions
1	RCMS Quick Start	Gives users a short tutorial and instructions the first time they log into RCMS.
2	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.
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	Insufficient RAM (95% RAM) Alert	Add an alert when customers devices have insufficient RAM to install new Applications to RobustOS.
6	DI Events	Allow users to view reports based on different connected Digital Inputs (DI) and receive alerts notifications when there is a status change.
7	GPS Report and Settings	Allow customers to view and configure reports based on GPS data from their Robustel gateway.

IMPROVEMENTS

Ref#	Function	Descriptions
1	Users & Roles	<ul style="list-style-type: none"> Added a new RoleType called 'Operator' that has read & write permissions.

		<ul style="list-style-type: none"> Renamed CommonUser to ReadOnly.
2	Transaction history	Allows distributors to view all online/offline transaction history from their end customers.

VERSION V3.4.3

Release Date: Aug 20, 2020

Version Inherited: V3.4.3

NEW FEATURES

Ref#	Function	Descriptions
1	RVPN Group Data Limit	Allow customers to set an RVPN data limit at a group level NOTE: Group & Individual RVPN Data Limits have been moved to the RobustVPN module and are no longer located in the Accounts > Licenses section.
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 OpenAPI to provide 'Write' permissions to 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 white label alert emails when their end customer's licenses or RVPN data is insufficient.
5	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 and automatically assign the closest device area based on company account location. Note: By default all existing devices in RCMS are set to the West Europe region - Regions can be changed in the Device List.
6	RemoteUI	Allow users to visualize the current configuration of a device and modify it using the GUI instead of an XML file. Note: Extended this feature to work with R2000, R3000, R1500,

		R1510, R1520 series devices.
7	RCMS New Data Report	Allow customers to view GPS data reports and optimize all RCMS data reports.

IMPROVEMENTS

Ref#	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.
3	Syslog	Fixed a bug where users could repeatedly turn on/off real-time syslog before receiving action results.
4	Group Configuration Fix	Fixed a bug that caused the Update Configuration File to be incorrectly displayed in Group Updates.

VERSION V3.4.1 - patch20200703

Release Date: Jul 3, 2020

Version Inherited: V3.4.1

NEW FEATURES

Ref#	Function	Descriptions
1	OPENAPI Extension	Updated the API to provide the following calls: <ol style="list-style-type: none"> 1. Device location information. 2. Device full status report. 3. Device regular report. 4. Device alert logs. 5. Device latest/history syslog.

VERSION V3.4.1

Release Date: Jun 9, 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. Note: This feature requires an updated version of the RCMS App to be released later in June.
4	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.
5	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.
6	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 both read and write permissions. CommonUser can only perform read-only permissions. Note: Since the CommonUser role will now only have read-only permissions, any previous CommonUser with write permissions, will be changed to Administrator automatically.
7	RemoteUI	Allows users to visualize the current configuration of a R2000 / R3000 device and modify it using the GUI instead of an XML file. More models will be supported in the future. Note: This feature requires an updated version of the RCMS App to

be released later in June.

IMPROVEMENTS

Ref#	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 V3.3.0

Release Date: Mar 30, 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.
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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
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1	Customer Setting	Fixed the bug that prompt error when setting price of license.
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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