CipherLab
User Guide

Android Deployment Configurator
For Android™

9700A
RS30
RS31
RS35
RS50
RS51
RK25
RK95
HERA51

Version 1.11

CIPHER LAB

RELEASE NOTES

Version	Date	Notes
1.11	May 28, 2021	• Revise based on version 1.09. • RS35 mobile computer & RK95 mobile computer Cold Chain model are supported. • Update all figures. • Rearrange all chapters and contents. • Remove the description about WMDS. • Add the description about "**Keypad Layout**" & "**Cold Chain**" to Section 1.3.1 "**New Project**" • Add new sections "**Compressed project files**" & "**Customize Android Setup Wizard**"to Chapter 2 "**Project Management & Main Screen**". • Add the description about the toolbar button "**Description**" to Section 2.1.2 "**ADC System Setting buttons**" • Add new section "**Overview**" & "**Customize**" to Chapter 3 "**Customize Project Configuration**". • Add new sections "**Auto Permission**" & "**Other Configuration**" to Section 3.3 "**Apps**". • Add the description about "**Delete WLAN connected list**" to Section 3.7 "**Wi-Fi Settings**". • Update Section 3.14 "**Enterprise Settings**". • Add the description about "**ZIP File from FTP**" to Section 3.17 "**Advanced System Settings**". • Add new chapter: **Apply Configuration to Device**.
1.10	Sep. 02, 2020	• Modified: **Getting Started** – sections and contents rearranged • Modified: **1.4.2 Advanced System Settings** – ADC files backup onto hidden partition added • Modified: **2.6.5 Barcode Reader** – description revised • Modified: **2.6.9 Wi-Fi Settings** – Wi-Fi Connection Timeout added • Modified: **2.6.11 Terminal** Emulation – description for all functions added • Modified: **2.6.**13 **System Settings** – Notifications & Sound added • Modified: **2.6.15 EZConfig (for RK25 UHF RFID Reader)** – power mode & descriptions for all tabs appended • New: **2.6.16 Enterprise Settings** • New: **2.6.17 SIP Controller** • Modified: **Chapter 3 Barcode To** Setting – only the Barcode Reader tab reserved for example demonstration

Version	Date	Notes
1.09	Feb. 4, 2020	・ RK95 mobile computer is supported.
		・ Update all figures in Section 1.3 "**Start with a New Project**".
		・ Update the figures in "**Enable a Profile**" of Section 2.6.5 "**Barcode Reader**".
		・ Add "**Advanced Data Formatting**" to Section 2.6.5 "**Barcode Reader**" & Section 3.3 "**Barcode Reader**".
		・ Add description about "**Performance Mode**" & "**Balance Mode**" to "**Battery**" part in Section 2.6.13 "**System Settings**" and update the related figure.
		・ Add description & figure about RK95 to "**System**" part in Section 2.6.13 "**System Settings**".
1.08	Nov. 15, 2019	・ Add "**OS Image Update Method**" to Section 1.5 "**Main Screen**".
		・ Update Section 1.5.3 "**Preference**".
		・ Update the releated figures.
		・
1.07	August 6, 2019	・ RS51 mobile computer & HERA51 mobile POS are supported.
		・ Update all figures.
		・ Update Section 1.2 "**Install ADC Program on PC**".
		・ Update Section 1.3 "**Start with a New Project**".
		・ Add new Section 1.5.1 "Palette".
		・ Update Section 2.6 "C**ustomize Project Setting**".
		・ Add new Section 2.6.14 "**Software Trigger**".
		・ Add new Section 2.6.15 "**EZConfig**".
		・ Update Chapter 3: "**Barcode To Setting**".
		・ Add new Section 3.11 "**Software Trigger**".
		・ Add new Section 3.12 "**EZConfig**".
1.06	Jan. 8, 2019	・ Add "**Keypad Lock**" to 2.6.7 "**Button Assignment for RK25 & 9700A**".
1.05	July 5, 2018	・ Add new Section 2.6.7 "**Button Assignment for RK25 & 9700A**".
		・ Modify the "**Add Shortcuts**" part of Section 2.6.12 "**AppLock**".
		・ Add "F**or RK25 & 9700A Mobile Computer**" to Section 3.4 "Button Assignmenmt".
		・ Modify the "**Add Shortcuts**" part of Section 3.9 "**AppLock**".
		・ Update all related figures.

Version	Date	Notes
1.04	June 8, 2018	· RK25 Mobile Computer is supported.
		· Add "**Captive Portal Detection Enabled**" to Section 2.6.8 & Section 3.6: **Wi-Fi Setting.**
		· Update Section 2.6.11 & Section 3.9: "**AppLock**".
		· Add "Show filtered notifications" to Section 2.6.11: "**AppLock**".
		· Update all related figures.
1.03	March 26, 2018	· Revise the discription about "**Update OS Image through SD Card**" & "**Activate System Update**" in Section 1.5: "**Main Screen**".
		· Add "**Advanced**" to Section 2.6.8 "**Wi-Fi Settings**" & Section 3.6 "**Wi-Fi Settings**".
		· Revise the chapter heading of Chapter 3 from "**Stage Tool**" to "**BarcodeToSetting**".
		· Update all releated figures.
1.02	Dec. 21, 2017	· Add "**Option**" part to Section 2.6.11 "**AppLock**".
		· Add the description about new funtion "**Home**" to Section 2.6.12 "**System Settings**".
		· Add new sections (3.2 **Auto Run**, 3.3 **Barcode Reader**, 3.4 **Button Assignment**, 3.7 **Cellular Data**, 3.8 **Terminal Emulation**, and 3.9 **AppLock**) to Chapter 3 "**BarcodeToSetting**".
		· Update all related figures.
1.01	Dec. 1st , 2017	· Revise "**Button Assigment**" to Section 2.6.
		· Add "**System Settings**" to Section 2.6.
		· Add Section 2.7 "**Deploy All Settings to Devices**".
		· Add Chapter 3 "**BarcodeToSetting**".
		· Update all figures.
1.00	Apr 27, 2017	· Initial release

CONTENT

INTRODUCTION

Android Deployment Configurator (hereafter referred to as **ADC**) is a windows-based project configuration tool, helping you to devise configuration projects for your mobile computers to meet various needs.

ADC features:

▸ Easy management interface for you to create/edit/save multiple projects
▸ Comprehensive scope of configurable settings to fulfill various requirements:
- Transferring files (configuration files, applications or any file) from Server to the devices
- Auto installation of APK files
- Auto run of your designated applications
- Configuration of Barcode reader settings, including symbology settings, scanning preferences, notification, data output, etc.
- Turning On/Off wireless connection such as Wi-Fi, Bluetooth or Cellular data
- Configuration of Wi-Fi settings by giving SSID, security mechanism used, password, etc.
- Configuration of cellular data settings
- Configuration of Terminal Emulation sessions properties
- Configuration of AppLock by defining the applications allowed as well as showing/hiding notification bar, changing background display, setting up a password to restrict the access, etc.

▸ Password protection for critical project management actions
▸ Allowing for adding additional languages to user interface and customization of wording
▸ Device settings synchronization over USB connection
▸ One-at-a-time device deployment over USB connection

Chapter 1

GETTING STARTED

This chapter helps you get ready for using this program. If you're running ADC on PC for the first time, everything starts with setting up a project.

IN THIS CHAPTER

1.1 PREREQUISITES

In order for ADC to work on your computer:

‣ Before installing ADC program on your computer, make sure the operating system is Windows 7 or 8 or 10.

‣ Your device is already set to **USB debugging Mode.**

‣ The device is connected to the computer with supplied USB cable. This is essential for data synchronization (of application list, Barcode Reader, Button Assignment, Wireless Manager, and AppLock) and device deployment.
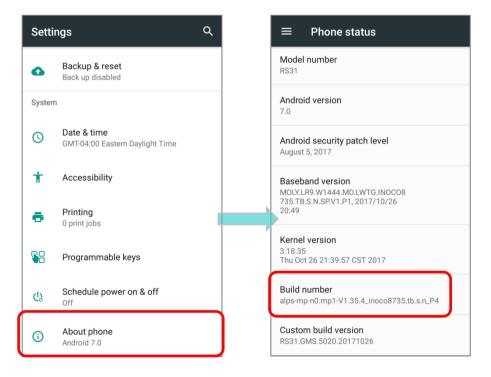
After devising the configuration tasks using ADC program, deploy them to your devices with WMDS program, please:

‣ Install WMDS Agent on your devices.

‣ Install WMDS (Wireless Mobile Deployment System) server program on a computer (better on the same computer as ADC program); after you finish devising a project, execute WMDS program and start deploying the configurations to devices. For more details on using WMDS, please refer to the help file embedded in WMDS program.

HOW DO I ENABLE DEBUGGING MODE ON MY DEVICE?

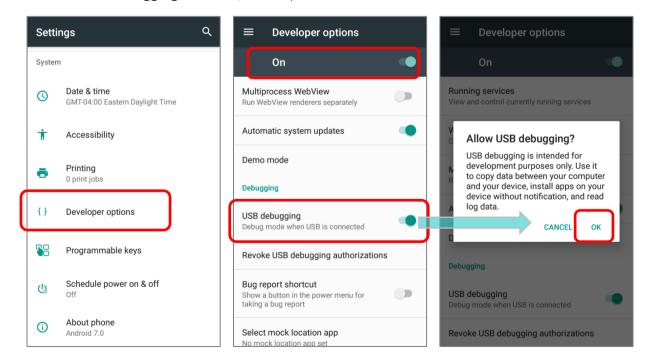Please follow the steps below to turn on debugging mode on your device:

1) Go to **All Apps** | **Settings** | **About phone** | **Build number**.

2) Tap on **Build number** seven times to enter Developer mode. During the process, you'll see a prompt with a countdown reading "**You are now X steps way from being a developer.**" When you see "**You are now a developer!**" showing up, you have succeeded in entering developer mode.
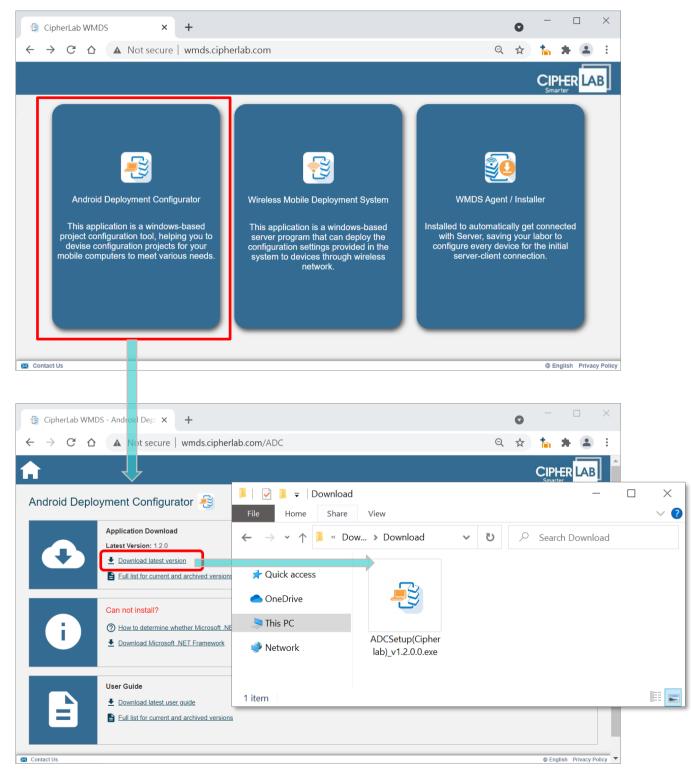

3) Return to **Settings** and tap on "{ } **Developer options**", switch both **Developer** options and **USB debugging** to "**On**", and tap on "**OK**" on the confirmation window.

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1.2 INSTALL ADC PROGRAM ON PC
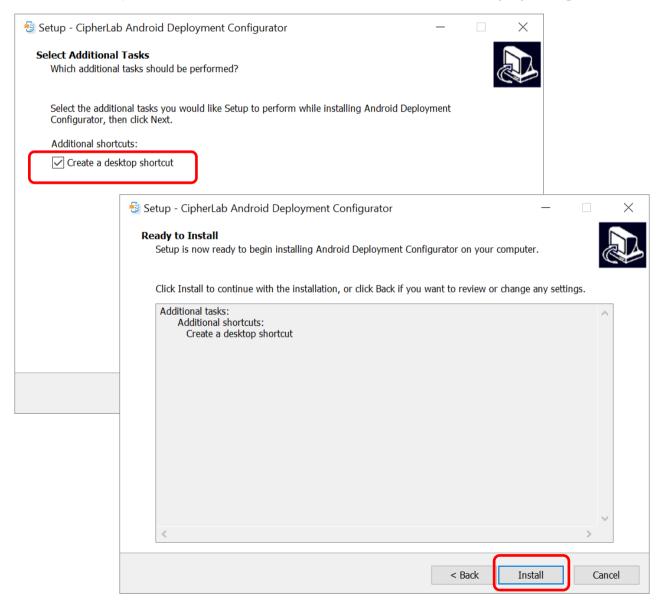
1) Download ADC program installer from http://wmds.cipherlab.com/ to your PC and run it by following its on-screen instructions.
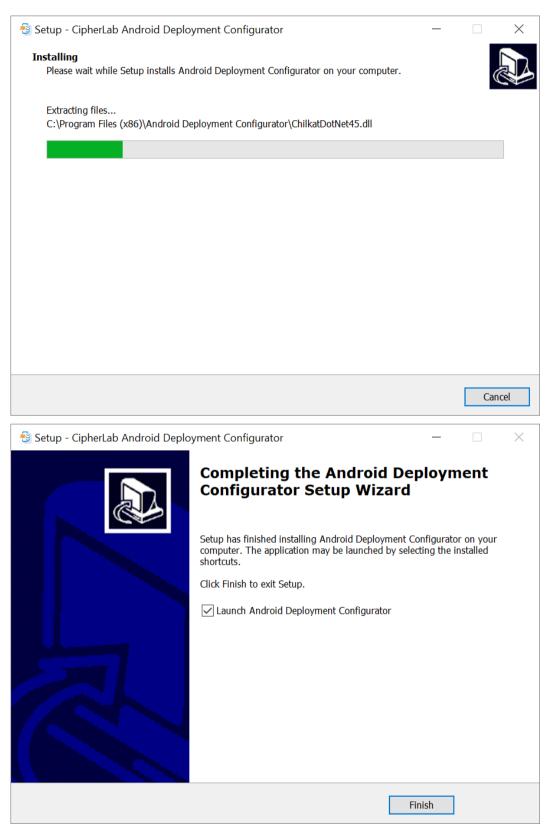
2) Select the display language., and start to install **Android Deploy Configurator**.

3) Choose the additional task(s) to be performed (whether to create a shortcut on desktop), and confirm your selection. Click "**Install**" to start to install **Android Deploy Configurator**.

4) The installation will be done within few minutes. By checking "**Launch Android Deploy Configurator**" on completing setup wizard window, you can start ADC right after "**Finish**".

1.3 PROJECT

Everytime **Android Deployment Configurator** is executed, it starts with a startup dialog for the user to select an existing project or create a new one:

1.3.1. NEW PROJECT

To start with a new project:

1) From the startup dialog shown below, click on "**New Project**" to start devising a project.

2) On **New Project** window, define the scope of your project and then click on "**Apply** ✅ "
to proceed. Pease make sure you have given the following items as specific definition as
possible in order for the projects to be correctly deployed to the devices.
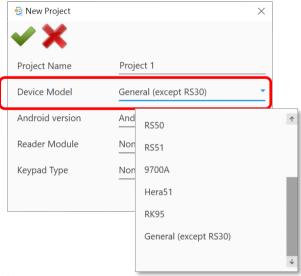
▸ **Project Name**

To achieve efficiency and convenience for management, it is suggested that you
input a project name clear enough for you to easily to identify the purpose of this
project.

▸ **Device Model**

Select the correct model name of the
device(s) for the drop-down menu. By
selecting "**General (except RS30)**", this
project will be applicable for all the
device models exclude RS30 mobile
computers.

▸ **Android version**
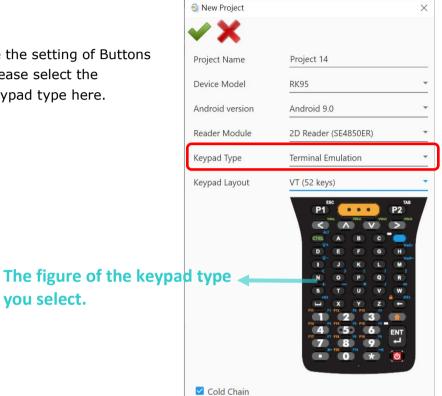
You may need to further select Android version
depending on the device model you select.

‣ **Reader Module**

If you will include the setting of Barcode Reader properties in this project, please select the reader type here. For "**Device Model**" which is set as "**General (except RS30)**", "**Reader Module**" lists all the reader type for choosing.

‣ **Keypad Type**

If you will include the setting of Buttons in this project, please select the corresponding Keypad type here.

The figure of the keypad type you select.

Note**:**

For "Device Model" which is set as "**General (except RS30)**", "**Keypad Type**" lists all the keypad types for choosing. By setting "**None**", the configurable keys listed on "Button Assignment" will be based on RS51 mobile computer.

▸ **Keypad Layout**

For the device model "**9700A**" and "**RK95**", if "**Keypad Type**" is set as "**Terminal Emulation**", you have to further select "**Keypad Layout**".

The figure of the keypad layout you select.

▸ **UHF RFID**

By ticking the checkbox of "**UHF RFID**", you can further configure the settings of the application **EZConfig** which is for CipheLab RK25 mobile computer to work with RK25 UHF RFID Reader to read RFID tags.

▸ **Cold Chain**

If this project is for **RK95 Mobile Computer Cold Chain Model**, please check "**Cold Chain**" to aquire the specific configurations of **Enterprise Settings** for this device model.

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3) Once completing the settings on "**New Project**" dialog, click on "**Apply** ✔" to enter the main screen. Make sure to click on "**Save Project** 💾" to save this project after modifying detailed settings, and this project will be listed on the existing project list.

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1.3.2. EXISTING PROJECT

After starting this program, you can load a saved project to make modifications to it. The projects are saved in the designated folder whose default path is *c:\CipherLab\ADC*.

1) From the startup dialog shown below, double-click on a project or select the project and then click on "**Open Project** 📁" if you already have some projects.

The buttons on startup dialog are:

Item	Description
📁	**Open Project** Select a project and click on "Open Project" to open it.
❌	**Cancel** Directly close the window without opening any existing project.
📝	**New Project** To open the "New Project" window to create a new project.
💾	**Copy to SD card** Save the selected project to the USB stick connected to your PC.

2) On Main screen of the project you just enter, check the configuration types you are about to modify from "**General Options**" and "**Application Options**" in "**Specify your deployment task(s)**" area and then click on "**Configure…** 🔵" to open **Configure Device Settings** screen for modifying device configuration.
(See **Customize Project Configuration** for details.)

3) Once your modification on **Configure Device Settings** screen is done and successfully saved, you'll return back to **Main Screen**. Be sure to click on "**Save Project** 💾" to save your changes, or click on "**Save Project as** 📝" to save your configurations to be a new project.

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Chapter 2

PROJECT MANAGEMENT & MAIN SCREEN

ADC main screen is where you can configure ADC system settings, and manage and specify your project(s). In this chapter, we will go through every part of the main screen and introduce how to manage the projects.

IN THIS CHAPTER

2.1 TOOLBAR ON MAIN SCREEN

After the Startup dialog, you will enter **Main Screen**.

As the figure below, "**Main Screen**" is devided into 3 parts: Toolbar, Configurable Deployment Tasks, and System Message.

The buttons on "**Toolbar**" can be split up into "**Project Setting buttons**" which are for project management and "**ADC System Setting buttons**" for ADC program configuration.

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2.1.1. PROJECT SETTING BUTTONS ON TOOLBAR

There are 10 project setting buttons on the left side of the toolbar.

NEW PROJECT

"**New Project**" is to create a new project. Please refer to **Section 1.3.1: New Project** for detailed description.

OPEN PROJECT

"**Open Project**" is to open an existing project. Please double-click on a project on the list or select the project and then click on "**Open**   ".

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You may delete the selected project (which is not the active one) by clicking on "**Delete** 🗑 "
on "**Open Project**" window.

SAVE PROJECT

💾 "**Save Project**" is to save your current project.

SAVE PROJECT AS

✏️ "**Save Project As**" is to save your current project to a different project name. Please
refer to **Duplicate a Project** for details.

PROJECT INFORMATION

ℹ️ "**Project Information**" lists the information about the current project.

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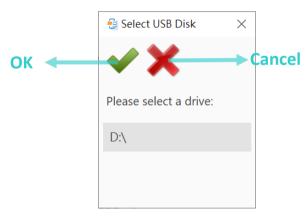
OPEN ADC FOLDER

 "**Open ADC Folder**" is to open the project folder on your PC. You may view, delete or duplicate project files. By default, all projects are saved in *C:\CipherLab\ADC*, which can be modified in **Preferences**.

SAVE TO SD CARD

 "**Save to SD Card**" is to copy a project to an SD card, and you can deploy the project to a device with this card. Please insert an SD card into a card reader and connect it to your PC in advance.

DEPLOY
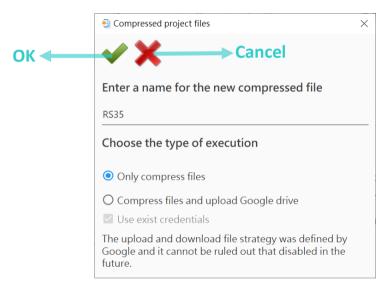
 "**Deploy**" is to save and deploy the current project to the connected device via USB connection.

COMPRESSED PROJECT FILES

Except of save the current project to SD card by "**Save to SD Card**   ", you can save the project to the roject folder on your PC or upload it to your Google drive by "**Compressed project files**   ".
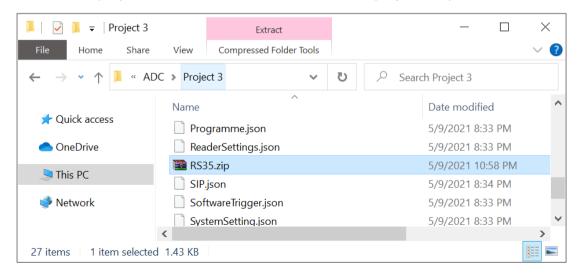
Through "**Compressed project files** ", the current project will be saved as a **.zip** file.

Please enter the file name, choose whether to "**Only compress files**" or "**Compress files and upload Google drive**", and click on "**OK**   ".

ONLY COMPRESS FILES
The current project will be saved to the folder of this project on your PC.
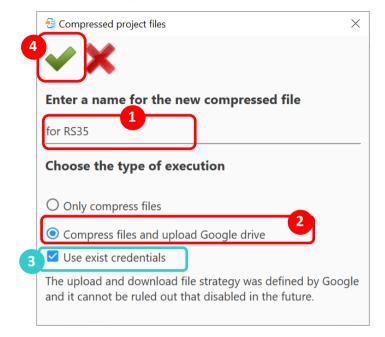
COMPRESS FILES AND UPLOAD GOOGLE DRIVE

Please follow the steps below to upload the zip file to your Google drive:
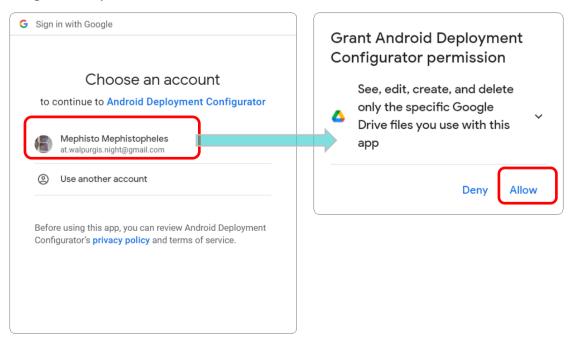
1) Enter the file name, choose "**Compress files and upload Google drive**", select whether to "**Use exist credentials**", and click on "**OK** ".
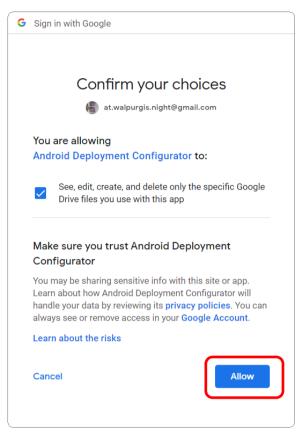
Note:

By checking "Use exist credentials", you may skip the login and granting process if your google drive account is already successfully logged in to the server and sent the credential file back.
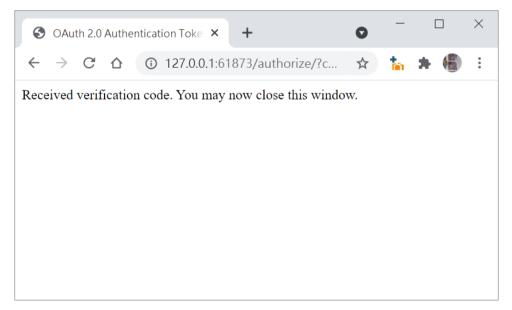
2) A page for signing in your Google account opens in the browser. Please sign in and then grant the permission for ADC.

3) Confirm your permission.

4) As the web page shows "**Received verification code. You may now close this window**", it means you are successfully to log in to the server and get the credential file, and the zip file is uploaded to your Google drive. Please retuen to ADC for the next step.
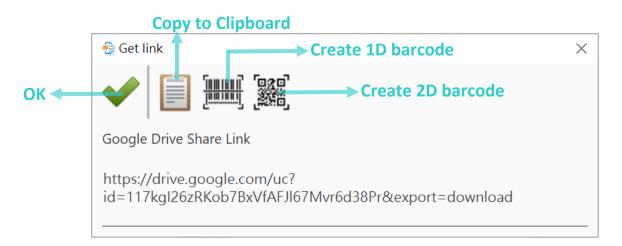
Note:

If you fail to log in to the server and get the credential file in step 4 as the below figures shows:

Please disable the firewall on your PC and then upload the zip file by "Compress files and upload Google drive"again.

5) The window "**Get link**" shows up:

And here you can:

▶ ✔ **OK**

To close "**Get link**" window.

▶ 📋 **Clipboard**

To copy this google drive share link.

▶ ▦ **Create 1D barcode**

To export and generate this google drive share link as 1D barcodes for your mobile computers to apply the project configurations by scanning the barcodes with the application "**BarcodeToSetting**".

▶ ▦ **Create 2D barcode**

To export and generate this google drive share link as 2D barcode for your mobile computers to apply the project configurations by scanning the barcode with the application "**BarcodeToSetting**".

Note:

The URL is impracticable for device(s) to download if the size of the uploaded ADC .zip file exceeds Google drive limits.

To check whether the file size is appropriate, please enter the URL you just created to the browser to check whether it prompts the file is too large to be scanned for viruses as the below figure shows:

Google Drive can't scan this file for viruses.

ADC.zip (820M) is too large for Google to scan for viruses. Would you still like to download this file?
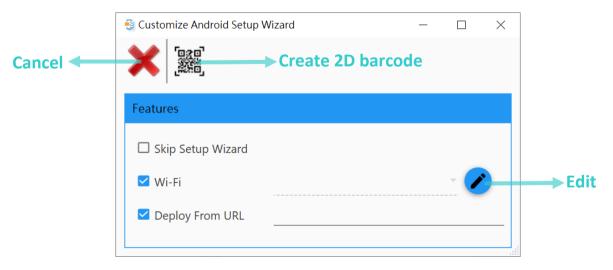
Download anyway

CUSTOMIZE ANDROID SETUP WIZARD
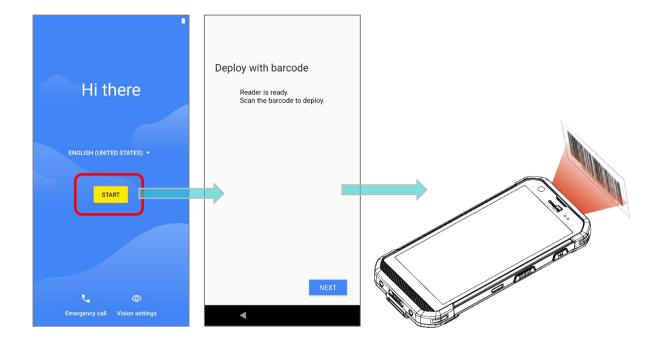
As the mobile computer boots up for the first time after the reset, the setup wizard (Welcome wizard) will run you through setting up the environment as well as restoring apps and data.

"**Customize Android Setup Wizard**" is for you to make changes to the setup wizard according to your need. Simply generate your preference settings as a 2D barcode for your mobile computer(s) to scan in the step of "**Deploy with barcode**".

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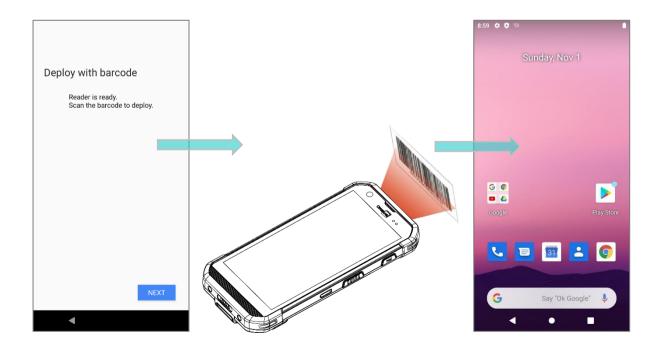
In the the step of "**Deploy with barcode**", aim the device scan window at the 2D barcode you generated from "**Customize Android Setup Wizard**" window and press the trigger to read.

SKIP SETUP WIZARD

To skip the setup wizard process and directly enter Home app screen.

WI-FI

To set up the Wi-Fi connection for the mobile computers to apply by scanning the generated 2D barcode.

1) Click on "**Edit** " to open the Wi-Fi settings window.
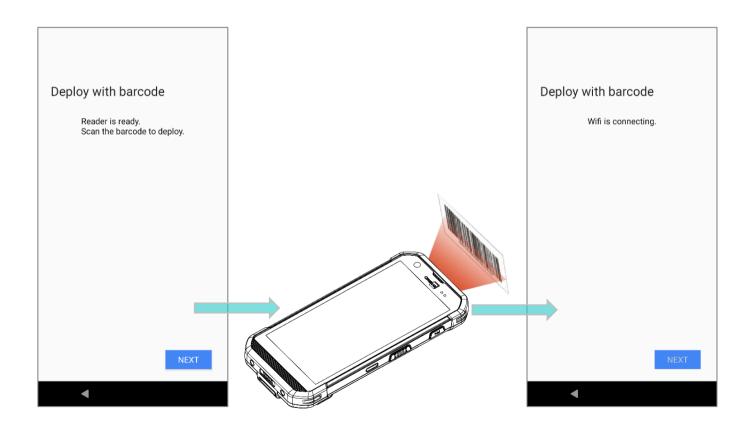
2) In the Wi-Fi settings window, click "**Add** " to set the information about the Wi-Fi network, and click on "**Apply**".

3) "**Save**" your settings and return to "**Customize Android Setup Wizard**" window to generate the setting barcode.

4) Scan the barcode by your mobile computer(s) in the step of "**Deploy with barcode**".

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DEPLOY FROM URL

"**Deploy From URL**" is to deploy the ADC Project Settings to the devices by downloading the .zip file of the project from your cloud storage. Hence, you have to save your ADC project as a zip file in advance.

To deploy the ADC Project Settings by "**Deploy From URL**":

1) Save th ADC project as a **.zip file**.

2) Upload this ADC project zip file to your cloud storage.

3) Get the downloading link you created from your cloud storage.

4) Enter the link to the field "**Deploy From URL**".

5) Generate the 2D barcode for the device to scan in the step of "**Deploy with barcode**".

Note:
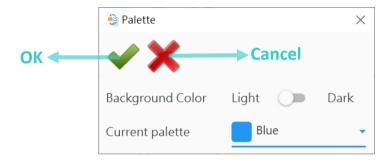
The detailed steps about deploying the ADC Project Settings by "Deploy From URL", please refer to Deploy From URL.

2.1.2. ADC SYSTEM SETTING BUTTONS

The 5 button on the right side of the toolbar are "**ADC System Setting buttons**" which are for ADC program configuration.

PALETTE
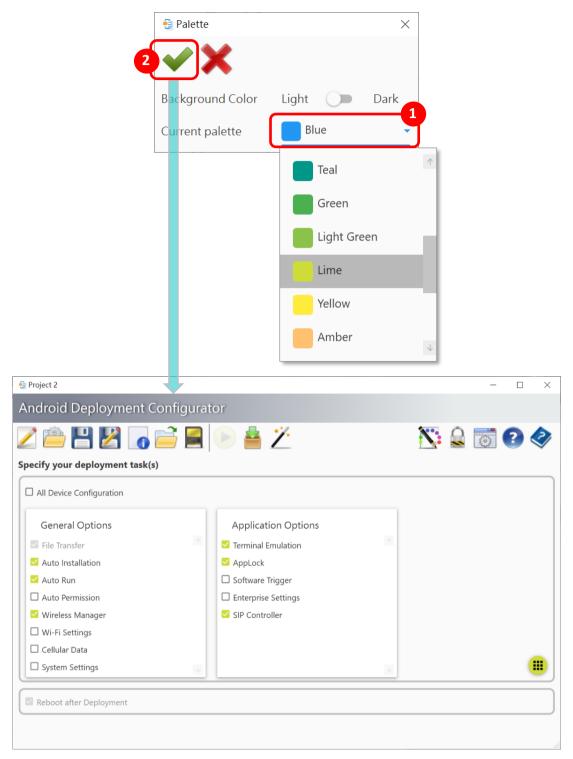
"**Palette**" is for user to customize the color of ADC user interface, including the background, the icons, and the borders.

▶ **OK** – To apply the user interface settings.

▶ **Cancel** – To close the pop-up window without changing any settings.

▶ **Background Color** – Switch between **Light** and **Dark** to change the background color. The default setting is **Light**.

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▶ **Current palette** – Select the color for the icons and borders from the drop-down menu. The default color is blue.

SECURITY

User can enable the password protection for certain features in ADC program through

"**Security** 🔒" if necessary.

To change your security settings, enter and confirm your password if you want to enable

password protection, and then click on "**Save** 💾" to save the setting. This setting will be immediately applied.

- ▸ 💾 **Save** – Save the settings and close the pop-up window at the same time.

- ▸ ❌ **Cancel** – Directly close the pop-up window without changing any settings.

- ▸ 🧹 **Clear Password** – Clear the field "**Enter password (maximun 32 characters)**" and "**Confirm passoord**".

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PREFERENCES

"**Preferences**" is to change your preferences settings for display language, ADC folder location, and snackbar the if necessary.

▶ **Choose a display language**

Choose a display language other than the default English if necessary. You may click "**Add**" to create your own language or "**Edit**" to customize wordings.

See **Multi-language Support**.

▶ **Project location**

Change your project location if necessary. Click "**Browse**" to look through the folders on your PC to locate the folder you'd like to save your ADC projects.

▶ **Save log file by project**

Decide whether to have logs saved (in ADC program folder) while working on your project. You may click "**Clear log**" to clear all log files if necessary.

▶ **Show dialog at Startup**

Decide whether to show the following dialog when ADC starts. You may deselect the checkbox right inside the dialog or in **Preferences**.

▶ **Observe USB Plug in/out**

Uncheck "**Observe USB Plug in/out**" and the main screen toolbar button "**Deploy** ",
the "**Configure Device Settings**" window toolbar button "**Synchronize current option**

" and "**Synchronize current option** " become available all the time even no device is connected with your PC.

ADC will never detect whether there's any connected device till any one of the foregoing buttons is pressed.

▶ **Show Snackbar**
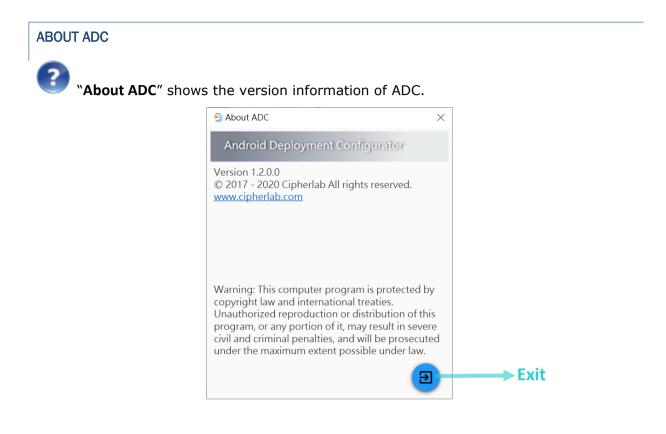
Decide whether to show the status message on Snackbar.

If "**Show Snackbar**" is deselected, the warning message and hint message will be shown by windows message box as the below figure shows.

▶ **Snackbar messages timeout**

Adjust **snackbar messages** timeout if necessary. See **Snackar & Messages**.

ABOUT ADC

"**About ADC**" shows the version information of ADC.

Exit

DESCRIPTION

"**Description**" provides the links to the web pages to download the latest version of ADC User Guide and the current and archived versions of ADC programe.

Send   Exit

To report or give your feedback on ADC, please leave your e-mail and message in the fields beneath "**Contact us**", and then send by clicking on "**Send**   ".

2.2   CONFIGURABLE DEPLOYMENT TASKS & SNACKBAR

It is essential that you be careful with the selection made in "**Specify your deployment task(s)**", for once you check an item, its relevant settings will all be written to the devices; therefore, by checking "**All Device Configuration**", you will have all the default settings ("**Reboot after Deployment**" is included in) applied to selected devices.

The "**Device configuration**" part contains 2 categories: one is "**General Options**", and the other is "**Application Options**". For the details about how to configure those option, please refer to **Customize Project Configuration**.

Please note that the configurable options (both "**General Options**" & "**Application Options**") listed on "**Device configuration**" may slightly different based on the project device model you set.

2.2.1. GENERAL OPTIONS

The "**General Options**" are:

FILE TRANSFER

To set the files to be copied to the device while deploying.

Note:

"File Transfer" is automatically selected if checking "Barcode Reader" or "Terminal Emulation" or "AppLock" or "EZConig" in Application Options part.

AUTO INSTALLATION

To set the files to be copied to device while deploying and the programs will be automatically installed upon completion of deployment.

AUTO RUN

To set the programs will be executed automatically when the device restarts.

WIRELESS MANAGER

To enable or disable Wi-Fi, Bluetooth, cellular data, and NFC.

WI-FI SETTINGS

To set the wireless profile for the device to apply.

CELLULAR DATA

To configure the cellular data network for the device.

SYSTEM SETTING

To configure the further system settings for the device.

CUSTOMIZE

To determine whether to enable "**Battery Swap**" for the applied device(s) or not.

This option is only available when the project device model is set as RK25.

2.2.2. APPLICATION OPTIONS

Depending on the project device model, the listed options may slightly different.

BARCODE READER

"**Barcode Reader**" is to configure the scan engine inside the mobile computer through the built-in application "**ReaderConfig**". It allows users to set their scanner preferences and the way to output decoded data. Symbology and scanner settings can be saved and exported as a profile for importing again or implementing identical Reader Config settings on multiple devices.

For the function about "**ReaderConfig**", please refer to **ReaderConfig User Guide for Android**.

Note:

By checking "Barcode Reader", "File Transfer" of General Options will be automatically selected.

BUTTON ASSIGNMENT

"**Button Assignment**" is to redefine the functions of physical keys to trigger different actions. Settings made to one or more keys can be saved as a profile, allowing users to switch conveniently in between different sets of settings.

For the project device model which sets as RS35, RK25, RK95, and 9700A, please refer to **Button Assignment User Guide for Android**.

TERMINAL EMULATION

"**Terminal Emulation**" is developed for industries which make extensive use of terminal emulators. It enables your mobile computer to act as a terminal emulator while communicating with a host of the same environment.

For further information, please refer to **Terminal Emulation User Guide (Android)**.

Note:

By checking "Terminal Emulation", "File Transfer" of General Options will be automatically selected.

APPLOCK

"**AppLock**" limits the device system resources made available to users. It gives way to ordinary working applications while locking out those that are not so productive.

For the operation instruction of AppLock, please refer to **AppLock User Guide for Android**.

Note:

"**File Transfer**" of General Options and "**Reboot after Deployment**" will be automatically selected if "AppLock" is checked.

SOFTWARE TRIGGER

"**Software Trigger**" serves as a real trigger key on mobile device. once enabled, it always floats on top of all other programs for convenient trigger control of the barcode scanner. By tapping and holding this virtual button, the device will keep casting a red beam to scan the code.

ENTERPRISE SETTINGS

"**Enterprise settings**" offers different setting functions coincided with the project device model you set. For the specific functions about "**Enterprise settings**", please visit our website to find the reference manual according to the device model.

SIP CONTROLLER

"**SIP Controller**" is for quickly open or close virtual keyboard by tapping on the floating button. You can set up to 2 virtual keyboards for cycling through.

EZCONFIG

"**EZConig**" is for RK25 mobile computer (both Android 7 Nougat & Android 9 Pie) to works with RK25 UHF RFID Reader to read and write RFID tags.

Please refer to **EZConfig User Guide for Android** for the detailed functions about EZConfig.
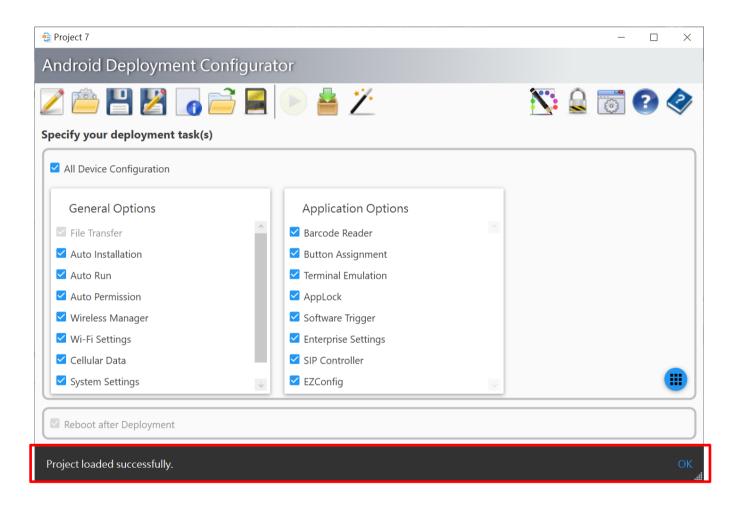
Note: "**File Transfer**" of General Options will be automatically selected if "EZConfig" is checked.

2.2.3. REBOOT AFTER DEPLOYMENT

With "**Reboot after Deployment**" enabled, the selected devices will automatically start rebooting process upon completion of deployment.

2.2.4. SNACKBAR & MESSAGES

The snackbar at the bottom gives information or feedback after you take an action. Certain critical messages will also show in a pop-up window to catch your attention. To dismiss the message at once, please click "**OK**" on snackbar.

See **Preferences** for how to adjust snackbar messages timeout and turn off the pop-up messages.

2.3   MANAGE PROJECTS
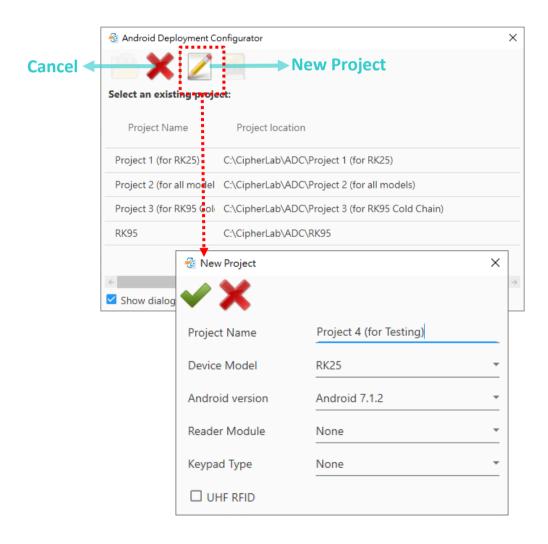
Click on "**Open Project** " on Toolbar to open the project folder. You may view, delete or duplicate project files. By default, all projects are saved in the path *C:\CipherLab\ADC*, which can be modified in **Preferences**.

2.3.1.   CREATE A PROJECT

To create a new project:

FROM STARTUP DIALOG

From the startup dialog, click on "**New Project** " to create a project.

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FROM MAIN SCREEN TOOLBAR

If the startup dialog has been dismissed, click on "**New Project** " on Toolbar. Define the scope of your project and click on "**Create** ✔".

NEW PROJECT WINDOW

The items need to be defined on "**New Project**" window are:

▶ **Project Name**

Enter a name to identify your project.

▶ **Device Model**

Specify which model will be used in the project.

▶ **Operation System**

Specify which operating system the model is running.

▶ **Reader Module**

Specify which barcode reader module is equipped on your device.

▶ **Keypad Type**

Specify which type of keypad is equipped on your device.

▶ **UHF RFID**

Select whether to configure the settings of the application **EZConig** which is for RK25 mobile computer to works with RK25 UHF RFID Reader to read RFID tags.

▶ **Cold Chain**

By checking "**Cold Chain**" for RK95 mobile computer, you can configure the physical keypad and the heaters through **Enterpreise Setting**.

Note:

The detailed description about "New Project" window, please refer to <u>New Project</u>.

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2.3.2. OPEN A PROJECT

To open an existing project:

1) From the startup dialog, double-click on a project or select a project and then click on "**Open** 📁" if you already have some projects.

The setting buttons on the startup dialog are:

Item	Description
📁	**Open Project** Select a project and click on "Open Project" to open it.
❌	**Cancel** Directly close the window without opening any existing project.
✏️	**New Project** To open the "New Project" window to create a new project.
💾	**Copy to SD card** Save the selected project to the USB stick connected to your PC.

2) If the startup dialog has been dismissed, click on "**Open Project**" on Toolbar.

3) On the project list, double-click on the desired project or select the project and click on "**Open**" to open it.

The setting buttons on "**Open Project**" window are:

Item	Description
✔	**Open** Open the selected project.
✘	**Cancel** Directly close the window without opening any existing project.
🗑	**Delete** Delete the project.

2.3.3. DELETE A PROJECT

If you want to delete an existing project, please:

1) Click on "**Open Project** 📂" on Toolbar.

2) Then, select the project from the project list and click on "**Delete** 🗑".

2.3.4. DUPLICATE A PROJECT

To copy an existing project and make change of it:

1) Click on "**Open Project** 📁 " on Toolbar to load the project you'd like to duplicate.

2) Click on "**Save Project As** 💾 "on Toolbar.
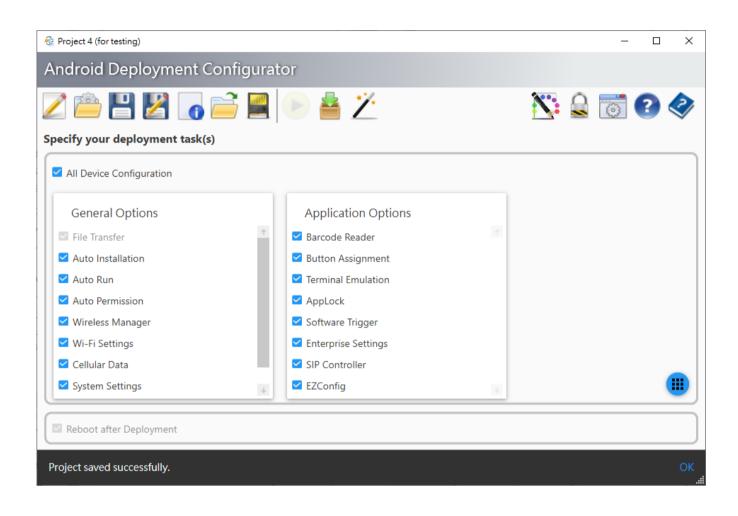
3) Change the project scope if necessary, and then save it to a different project name.

   Click on "**Save** ✔ " after making changes to the project scope.

Note: Device Model cannot be changed.

---

4) On Main Screen, modify the configuration settings and click on "**Save** " on Toolbar to save this new project.

2.3.5. VIEW PROJECT INFO

If you want to view the summary of the current project, please:

1) Click on "**Project Information** 🛈" on Toolbar.

2) A Project Information window will pop up. You can click on "**X**" to close it.

Project Infomation	
Project Name	Project 4 (for testing)
Device Model	RK25
Android version	9.0
Reader Module	2D Reader (SE4750MR)
Keypad Type	25 Key
UHF RFID	Yes

Chapter 3

CUSTOMIZE PROJECT CONFIGURATION

This chapter specifies the configurations to be set on "**Configure Device Settings**" window which can be opened by clicking the button "**Configure…** " in **Specify your deployment task(s)** area on Main screen.

IN THIS CHAPTER

3.1. OVERVIEW

After deciding the "**General Options**" and "**Application Options**" to be configured, click on

"**Configure...** " to open "**Configure Device Settings**" window for further settings to be

written to the devices.

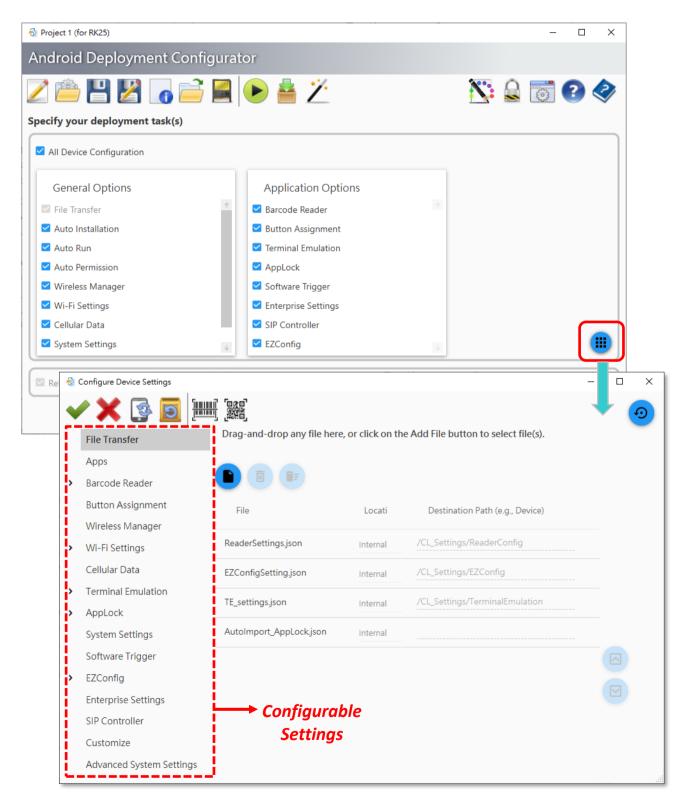### 3.1.1. CONFIGURABLE SETTINGS

The configurable setting items on "**Configure Device Settings**" window are as below:

Item	Description
File Transfer	To set the files to be copied to device while deploying.
App	To set the app(s): ▶ **Auto Installation:** To be copied to device while deploying and automatically installed upon completion of deployment. ▶ **Auto Run:** To be executed automatically when the device restarts. ▶ **Auto Permission:** To be ranged what is allowed to do and access.
Barcode Reader	To configure the scan engine inside the mobile computer and set the scanner preferences according to the user's need and dictate the way to output decoded data.
Button Assignment	To redefine the functions of physical keys or to assign specific functions to the programmable keys.
Wireless Manager	To control whether to enable Wi-Fi, Bluetooth, cellular data, and NFC.
Wi-Fi Settings	To set the wireless profile for the device to apply.
Cellular Data	To configure the cellular data network for the device.
Terminal Emulation	To configure the settings of the app "**Terminal Emulation**" which enables the device to act as a terminal emulator while communicating with a host of the same environment.
AppLock	To configure the settings of the app "**AppLock**" which dominates over the OS and limits the system resources made available to users.

Item	Description
System Settings	To configure the further system settings for the device.
Software Trigger	To configure the settings of the app "**Software Trigger**" which presents a virtual button to works as a real trigger key to control the bardcode scanner to scan the code.
EZConfig	To configure the settings of the app "**EZConfig**" for RK25 mobile computer to work with RK25 UHF RFID reader.
Enterprise Settings	To configure the settings of the app "**Enterprise Settings**" which provides various functional settings according to the project model.
SIP Controller	To configure the settings of the app "**SIP Controller**" which presents a virtual button to quickly open the selected virtual keyboard.
Customize	To determine whether to enable "Battery Swap" for RK25 mobile computer.
Advanced System Settings	To configure how to update the OS Image of your device(s).

3.1.2. BUTTONS ON CONFIGURE DEVICE SETTINGS TOOLBAR

On **Configure Device Settings** window, the buttons on the toolbar deliver the functions:

▶ ✔️ **Apply**

To close "**Get link**" window.

To save the settings and close **Configure Device Settings** window.

Always remember to click on Apply ✔️ before you close **Configure Device Settings** window.

▶ ❌ **Cancel**

Directly close **Configure Device Settings** window without saving any settings.

▶ 　**Synchronize all settings with Device**

Instead of working on the device configurations from scratch, you may fetch the current configurations from device by connecting your device to PC via USB connection and clicking on "**Synchronize all settings with Device** ".

▶ 　**Reset all settings to default**

You may also click on "**Reset all settings to default** " to reset ALL settings if necessary. Please note that, for this synchronization to be carried out successfully, make sure the USB debugging mode on your device is already enabled (refer to **How Do I Enable Debugging Mode on My Device?**).

▶ 　**Create 1D barcode**

To export and generate the settings as 1D barcodes for your mobile computers to apply the selected configurations by scanning the barcodes with the application "**BarcodeToSetting**".

▶ 　**Create 2D barcode**

To export and generate the settings as 2D barcode for your mobile computers to apply the selected configurations by scanning the barcode with the application "**BarcodeToSetting**".

▶ 　**Synchronize current option**

To acquire the device settings only for the current tab page. This button is only available when the device is connect with the PC where ADC program is installed.

▶ 　**Reset current option**

To restore the settings on the current tab page to default.

3.1.3. HOW TO SYNCHRONIZE THE DEVICE SETTINGS

You may need to acquire the device settings through "**Synchronize all settings with Device**" in order to get the setting information to be edited for certain built-in application or system settings or even get the user-installed app information from your device.
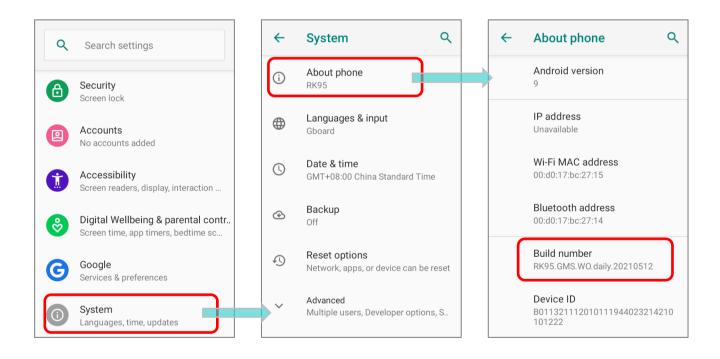
To perform "**Synchronize all settings with Device** ", you have to enable debugging mode on your device in advanced.

ENABLE DEBUGGING MODE

For the device to be synchronized, it's debugging mode must be turned on:

1) To access "**Build number**" from **App Drawer | Settings | System | About**

Note:

For RS35 mobile computer, "Build number" can be accessed from App Drawer| Settings | About Phone.
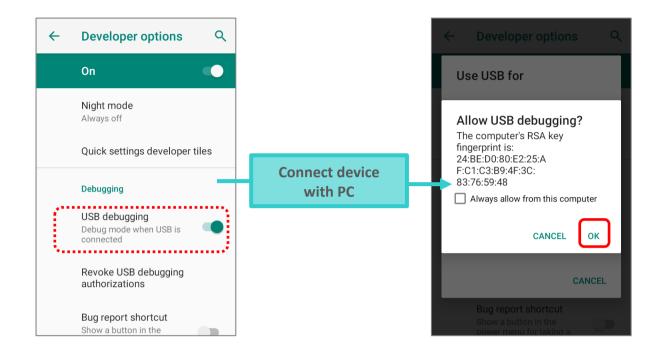
2) Tap on "**Build number**" for 7 times to enable **Developer options**.
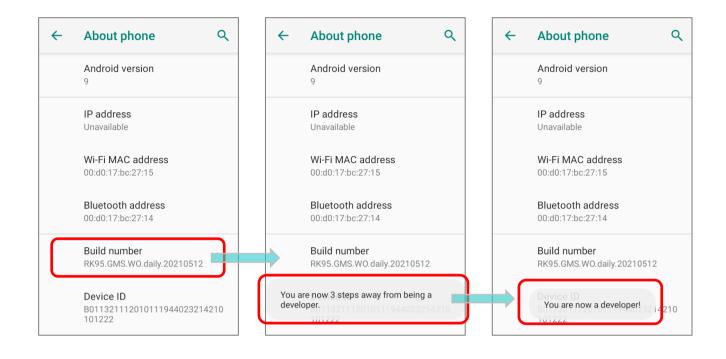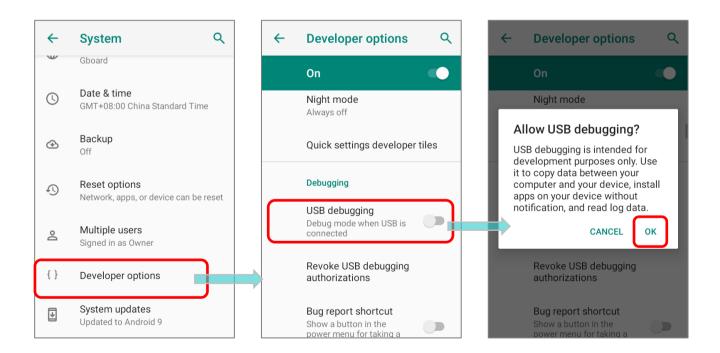

3) Once **Developer options** is on, you can find it in **System**. Enter "**Developer options**" and swipe down to find "**USB debugging**" and switch it on.

4) Connect the device with your PC where ADC is installed, and confirm "**Allow USB debugging**" on your device.

RUN THE APP(S) ON DEVICE

To successfully acquire the settings information from your device, please launch those apps (listed on "**Application Options**") for at least one time.

After synchronizing, a report about failing to synchronize the app settings appears if the app(s) is never launched on the connected device.

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SYNCHRONIZE ALL SETTINGS WITH DEVICE

Make sure that you've properly got the settings for enabling debugging mode done before performing "**Synchronize all settings with Device** ".

On "**Configure Device Settings**" window, click on "**Synchronize all settings with Device** ".

Please note that the connected device to be synchronized must be the same model with the project device model you set, otherwise the synchronization stops and a warning message is prompted.

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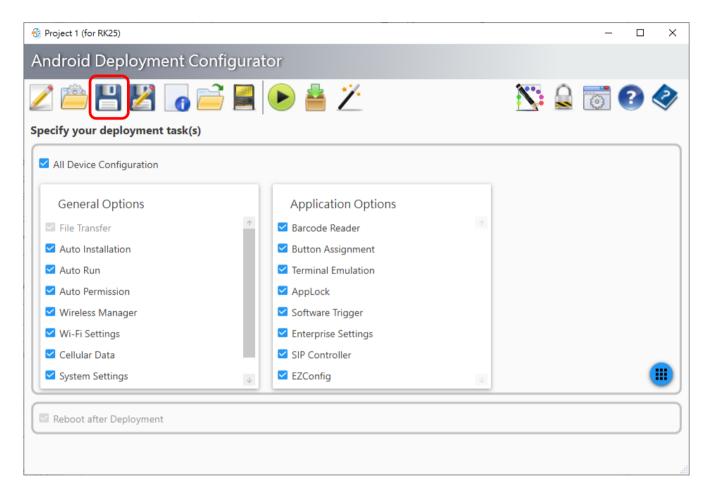
You may get a failure report about the app(s) whose setting info cannot be successfully acquired by ADC after synchronization. Click "**OK**" to close this failure report window.

3.1.4. SAVE THE CHANGES OF CONFIGURE DEVICE SETTINGS TO THE PROJECT

After completing configuring the settings details on **Configure Device Settings** window and

returning to Main Screen, remember to click on "**Save Project** 💾" before exiting this

program.

3.2. FILE TRANSFER

"**File Transfer**" is to set the files to be copied to device while deploying.

1) Drag-and-drop any file(s) to the file list or click "**Add File..** " to browse your computer to locate the file.

▶ **Add File..**

Add the file which is saved in your PC.

▶ **Delete**

Delete the selected item.

▶ **Delete All**

Delete all the removable items.

2) Click on the **Location** field to choose between the device internal storage or SD card, and then the **Destination Path** field to fill in the path to where the file shall be located. Please make sure the path you manually input is valid.

Move Up

Move the selected item upward to change its sorting order.

Move Down

Move the selected item downward to change its sorting order.

3) Click on **Apply** ✔ before you close the **Configure Device Settings** window.

3.3. APPS

To arrange the applications for your device through "**App**", please click on "**Add** ➕" to open the window to select the action you'd like to dictate.
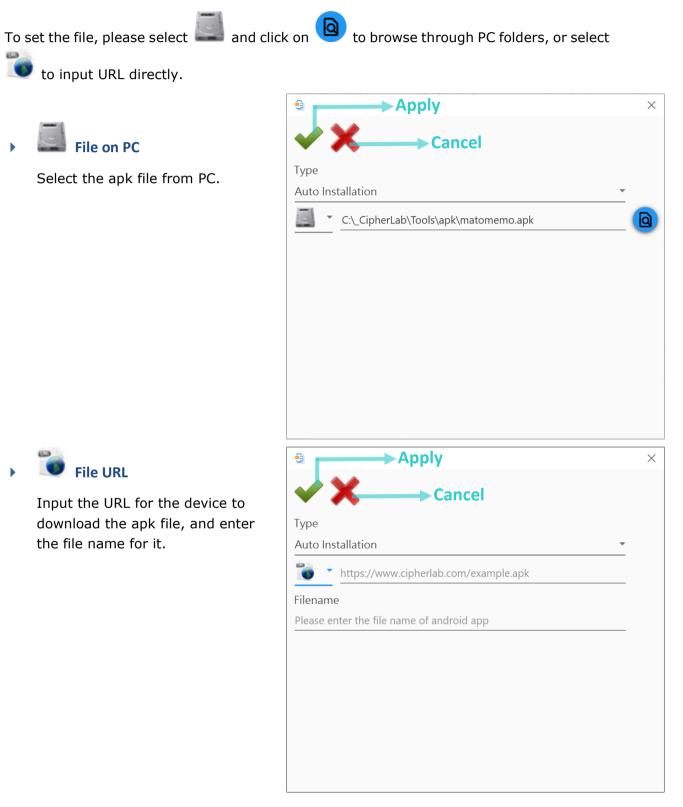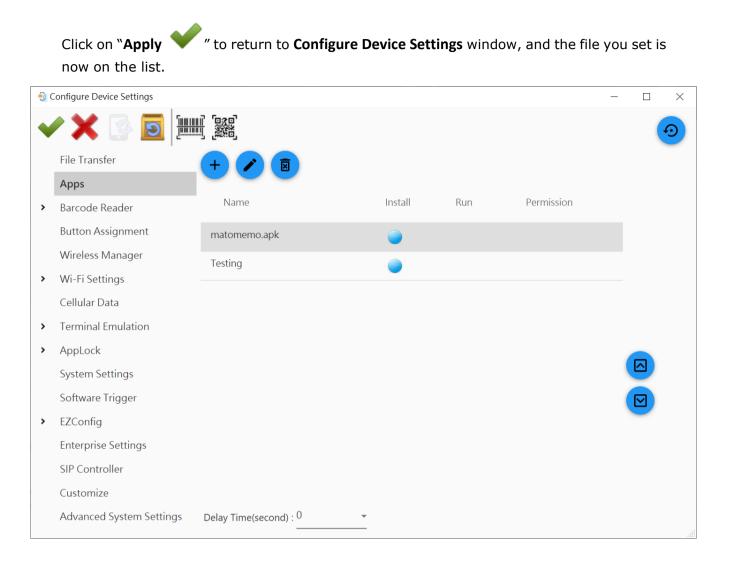
The buttons and the setting on "**App**" tab page are:

▸ ➕ **Add:** To add a new file to the list.

▸ ✏️ **Edit:** To Edit the selected file.

▸ 🗑️ **Delete:** To remove the selected file from the list.

▸ 🔼 **Move up:** To move the selected file upward to change its sorting order.

▸ 🔽 **Move down:** To move the selected file downward to change its sorting order.

▸ **Delay Time (second):** Define the interval of each application if necessary.

3.3.1. AUTO INSTALLATION

The specified apk files will be copied to device while deploying and the programs will be automatically installed upon completion of deployment.

To set the file, please select and click on to browse through PC folders, or select to input URL directly.

▶ **File on PC**

Select the apk file from PC.

▶ **File URL**

Input the URL for the device to download the apk file, and enter the file name for it.

Click on "**Apply** ✔ " to return to **Configure Device Settings** window, and the file you set is now on the list.

Note: Before an auto installation takes place on the device, please make sure to exit all the running programs. Otherwise, your programs may not function correctly.

3.3.2. AUTO RUN

The specified programs will be executed automatically when the device restarts. During deployment, the new Auto Run app lit will overwrite the previous one. Therefore, if you check "**Auto Run**" item from "**General Options**" list on Main screen, <u>DO remember to configure the Auto Run app list here; otherwise, the previous Auto Run app list on your device will be overwritten by a blank list</u>.

Please perform "**Synchronize all settings with Device** " to sync with your device in advance, if not, "**Associated app**" list will be unavailable.

Under the circumstances without synchronization, you can directly fill in the filename and the package name (please acquire the package name from the application developer).

Note:

Ascertain that the filename & package name are correct and this Auto Run app is installed on the device.

Select the app from "**Associated app**" list, and then click on "**Apply** " to add it.

3.3.3. AUTO PERMISSION

To control over the permission of the specified app requests, please perform "**Synchronize all settings with Device** " to sync with your device in advance to get the "**Associated app**" list, or eles, you need to fill in the filename and the package name to demonstrate the app installed on the device.

After selecting the app from "**Associated app**" list or specifying the app by filname and package name, choose the permission you'd like to grant for this app.

▸ **All Permission**

Allow all the permission this application asks for.

▸ **Device Admin**

The app permission request will prompt on the device for the device admin to grant.

▸ **Install Unknown**

Allow to install apps from unknown source.

Click on "**Apply** ✓" to add this app to the list and return to **Configure Device Settings** window.

Before closing the **Configure Device Settings** window, be sure to click on **Apply** ✓ on **Configure Device Settings** toolbar.

3.3.4. OTHER CONFIGURATIONS

The following configurations are the combination of "**Auto Installation**", "**Auto Run**", and "**Auto Permission**".

AUTO INSTALLATION & AUTO RUN

To set the app to be installed after deployment and the app will execute automatically on device boot up.

Define the apk installation source of the app to be installed:

▸   **File on PC**

Select the apk file on your PC. Click on

"**Browse…**" to browse through the folders.

▸   **File URL**

Enter the file URL for the device to download it.
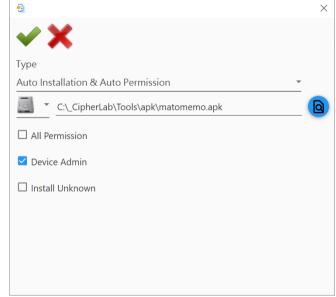
AUTO INSTALLATION & AUTO PERMISSION

Select the apk installation source from file on your PC or the URL for download to set the app to be installed after deployment and check the permission you'd like to allow for this app.

▸   **All Permission:** Allow all the permission this application asks for.

▸   **Device Admin:** The app permission request will prompt on the device for the device admin to grant.

▸   **Install Unknown:**

Allow to install apps from unknown source.

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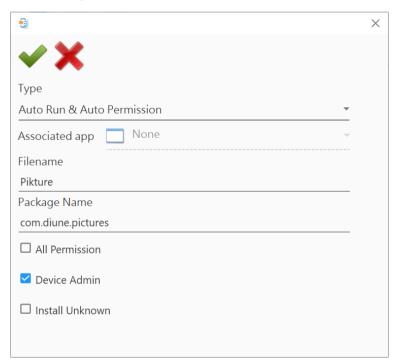
AUTO RUN & AUTO PERMISSION

By executing **Synchronize all settings with Device** 📲" in advance, you can select the app from "**Associate app**" list and set the permission for it.

Without synchronization, please fill in the **filename** and the **package name** of the app. The specified app must be installed on the device and the filename and package name you enter should be precise.

AUTO INSTALLATION & AUTO RUN & AUTO PERMISSION

Choose the app to be installed after deployment by uploading the apk file to ADC program or providing the URL for the device to download the apk file, set this app to be executed on device boot up, and select the permission you grant for it.

3.4. BARCODE READER

"**Barcode Reader**" is to configure the scan engine inside the mobile computer and set the scanner preferences according to the user's need and dictate the way to output decoded data through the application **ReaderConfig**". If you would like to synchronize the device settings by ADC, make sure that "**ReaderConfig**" has been launched on the device for at least one time.

The buttons on "**Barcode Reader**" tab page are for profile management:

▸ **New Profile**

To create a new profile to manage the barcode reader.

▸ **Edit Profile**

To edit the selected profile to change settings that best suits your needs.

▶ 🗑 **Delete Profile:**

To remove the selected profile from the list.

▶ 📋 **Copy Profile**

To copy an existing profile and make changes from it.

▶ ✏ **Rename Profile**

To give the selected profile a new name.

Execute "**Synchronize all settings with Device** 📱" or "**Synchronize current option** 🔄" to get the settings from the currently-connected device.

Note:
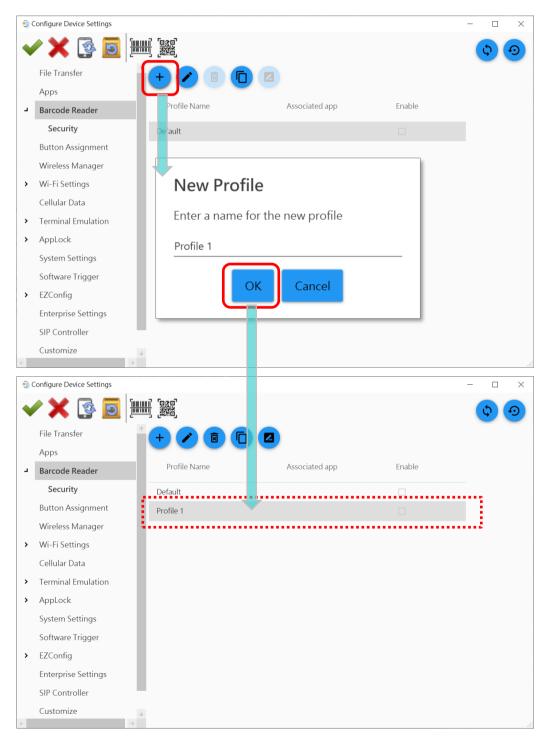
(1) **"Default" profile cannot be delete.**

(2) **The detailed instructions about "ReaderConfig", please refer to ReaderConfig User Guide for Android.**

3.4.1. PROFILE MANAGEMENT

Through the profile management buttons, you can:

NEW PROFILE
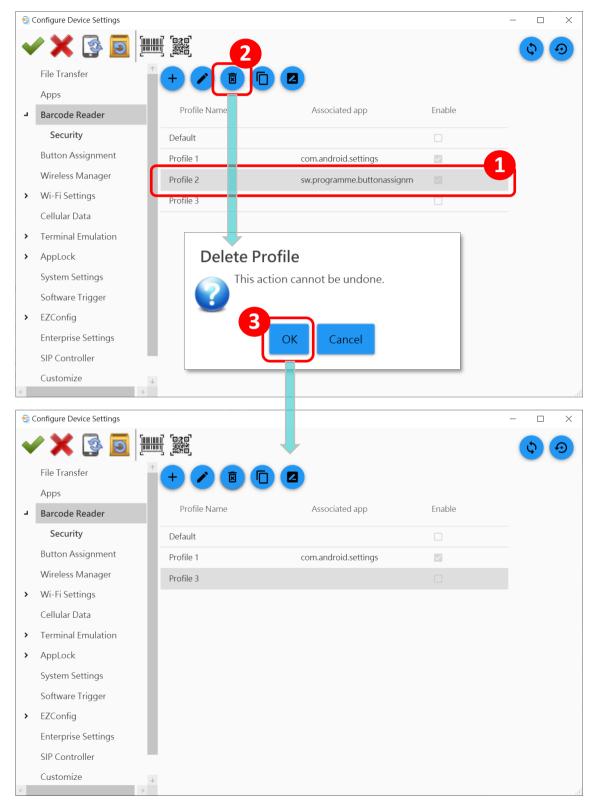
Click on "**New Profile** ⊕ " to create a new profile. Enter a name for this new profile and "**OK**".

DELETE PROFILE

To delete an existing profile, please select the profile to be delete, click on the profile
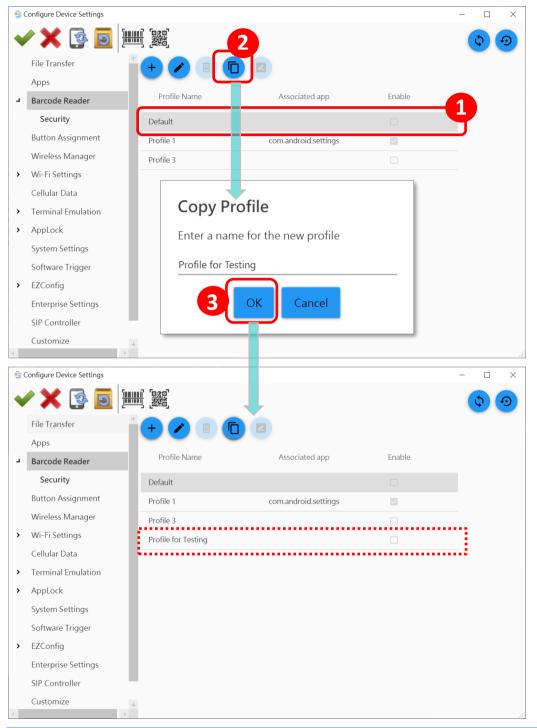
management button "**Delete Profile** ", and confirm deleting by "**OK**".

COPY PROFILE

To copy an existing profile and make changes from it, please select the profile a profile to be copied, click on "**Copy Profile** ", enter a new name for this profile, and confirm by "**OK**".
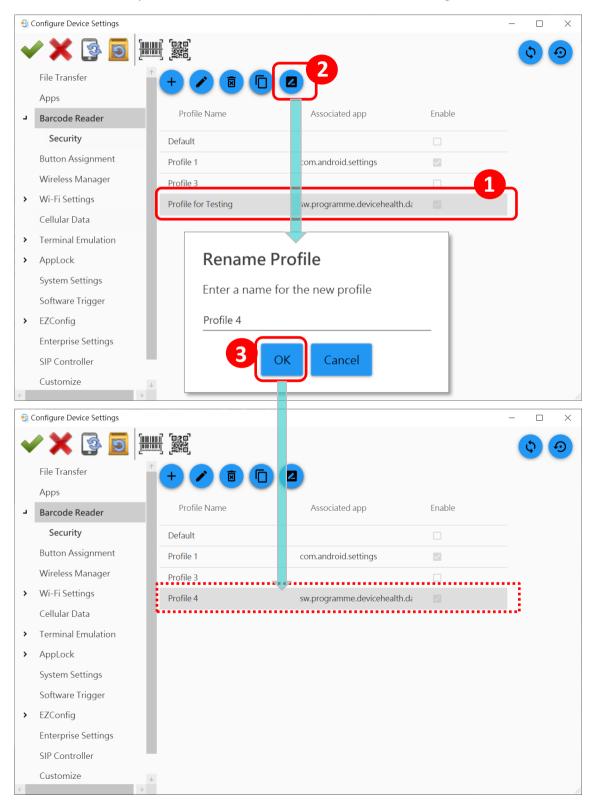
Note:

An app can be set as the associated app to only one profile. Thus, the "Profile" part will not be duplicated when copying a profile.

RENAME PROFILE

Simply select the profile you'd like to rename and click on "**Rename Profile** 🖊". Enter a new name for the profile, and then click on "**OK**" button to change its name.

3.4.2. EDIT PROFILE

To edit a profile, please double-click the profile, or select the profile to be edited and click on

"**Edit Profile** " to open the profile detail window for editing.

Make sure to click on "**Apply** " to save your profile settings before closing this profile detail window.

The followings are the brief introduction about the items on the profile detail window. For completely description for all the setting items, please refer to **ReaderConfig User Guide for Android**.

Options on the **Scanner Preferences** page differ according to the reader module.

Item	Description
Decode Timeout	Sets the maximum time for the decoding process during a scan.
Redundancy Level	Sets how many successful readings should be done before linear barcodes such as Codabar, MSI, and Interleaved 2 of 5 can be decoded.
Security Level	Sets the security level to ensure decoding accuracy considering the printed quality of barcodes such as Code 128, Code 93, and UPC/EAN. The higher the level is, the more security is ensured.
Inter-Char Gap Size	Sets the intercharacter gap size for Code 39 and Codabar. This option is to allow the digital scanner to adjust its decoding standard so as to tolerate out-of-specification bar codes that are improperly printed out (which may cause the intercharacter size to become larger).
Scan Mode	Sets the reader's scanning behavior.
Aimer Mode Timeout	A time period that the aiming pattern is projected for **Aimer Mode**. This function is only available when setting **Scan Mode** as **Aimer Mode** or **Level and Aim Mode**.
Decoding Illumination	Enables an LED light beam to aid barcode reading.
Decode Aiming Pattern	Projects a crosshair at the center of the laser light beam to facilitate barcode reading.
Picklist Mode	When selected, only barcodes aligned at the crosshair of the laser light beam will be decoded.
Display Mode	Enable improved performance for reading barcodes on electronic displays and mobile phones.
Inverse Type	Decide whether to disable or enable decoding inverse barcodes, or set as auto.
Addon Redundancy	Functions when "auto-discriminate" is applied for UPC/EAN addons. Decides the number of times of supplemental decoding of the same barcode in order to count as a valid read.
Illumination Power Level	Users can adjust the illumination brightness of the LED light source.
Transmit AIM Code ID	Sets whether to include AIM code ID character in the decoded data.

DATA OUTPUT

Data Output allows users to set the way to output decoded data. Depends on the <u>reader module</u>, the available functions may slightly different.
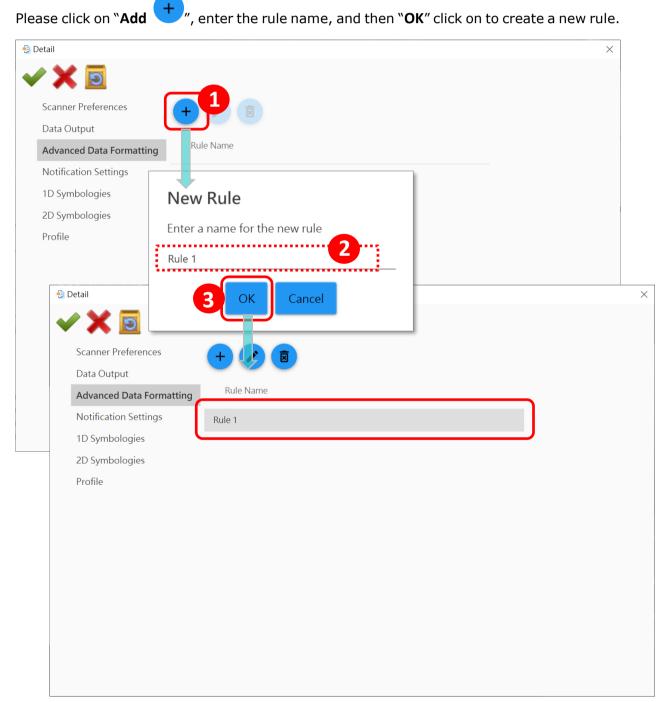
Item	Description
Keyboard Emulation	Keyboard Emulation setting controls in which way the data is sent.
Timeout between Input Method	To specify the pause time between data to be transmitted. The function is only available when "**Keyboard Emulation**" is set to be "**Input Method**".
Auto Enter	To add an ENTER character before or after each string of decoded data. The ENTER character can be defined in the "Auto Enter character" field below. This function saves the trouble of pressing a confirmation key to accept each string of decoded data.
Auto Enter character	To a key code before or after the decoded data. If [Auto Enter] is enabled, select the ENTER character to send.
Display Code Type	To prefixe the output data with code type information.
Display Code Length	To suffixe the output data with code length information.
Prefix	To affixe 0 to 20 characters to the left of the output data. Click on the button "**Open ASCII Table** ⌨" to open a character table for entering the prefix.
Suffix	To affixe 0 to 20 characters to the right of the output data. Click on the button "**Open ASCII Table** ⌨" to open a character table for entering the suffix.
Field Delimiter	Sets the delimiter to separate the output barcode data to the following pieces: code type, decoded barcode data, and code length (if applicable).
Barcode charset	Specifies the current decoding for barcode data.
Clear Previous Data	By enabling this option, only the last scanned data entry will be output.
Key Event Delay Time	Set the millisecond you need to postpone the key event triggered by the decoded data.

ADVANCED DATA FORMATTING

User can customize the output data through the defined rules which combine "**criteria**" with "**actions**" to be performed. If the decoded data meets the "**criteria**", it will be output according to the "**actions**".
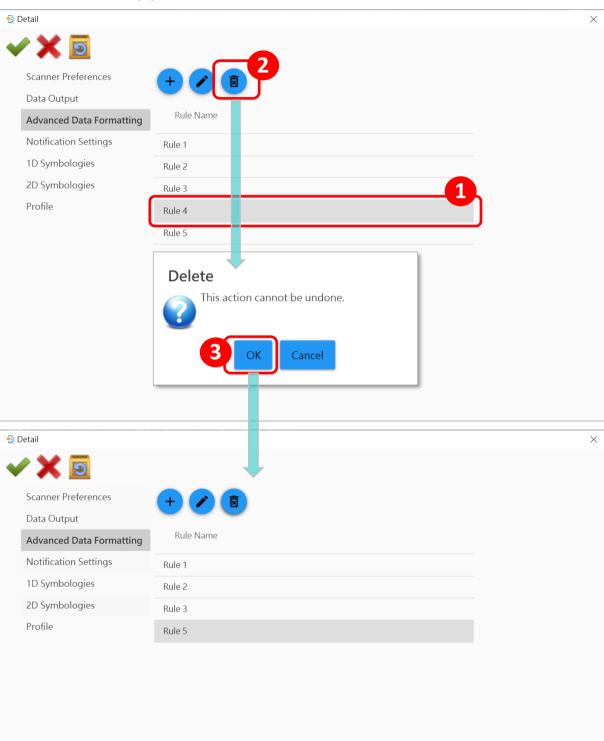
CREATE A RULE
Advanced Data Formatting is to customize the decoded data and then output it by rules, and therefore Advanced Data Formatting rule(s) needs to be created beforehand.

Please click on "**Add** ➕ ", enter the rule name, and then "**OK**" click on to create a new rule.

DELETE A RULE

To delete a rule, simply select the rule to be deleted and click on "**Delete** 🗑 ".

EDIT A RULE

Double-click on the rule, or select the rule and then "**Edit** ✏" to enter the rule detail page to edit "**criteria**" and "**actions**".

▶ **Criteria:**

"**Criteria**" is to set the limits and requirements to filter the decoded data.

When the barcode is read and the input data fulfils the "**criteria**", it will be dealt with by the associated "**actions**" which defines the output data format.
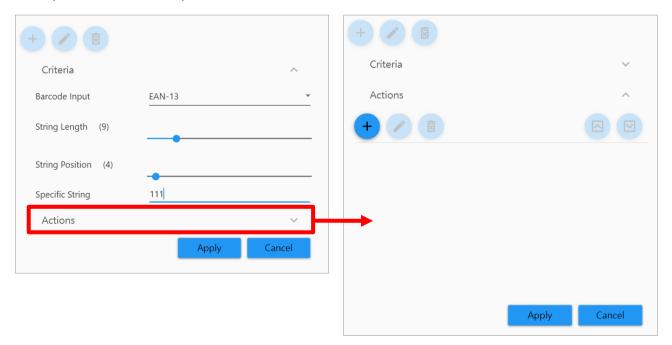
The available criteria to be set are:

Item	Description
Barcode Input	To designate the barcode symbology. By selecting "**All**", all the barcode symbologies will be reformatted by "**actions**".
String Length	To set the barcode length to limit the decoded data to be reformatted.
String Position	This function works with "**Specific String**" to designate the particular position this specific string should be in. By selecting "**0**", the specific string can be in any position.
Specific String	To designate the string the decoded data must include.

The decoded data should meet all the criteria you set and then the data will be reformatted by "**actions**" before outputting.
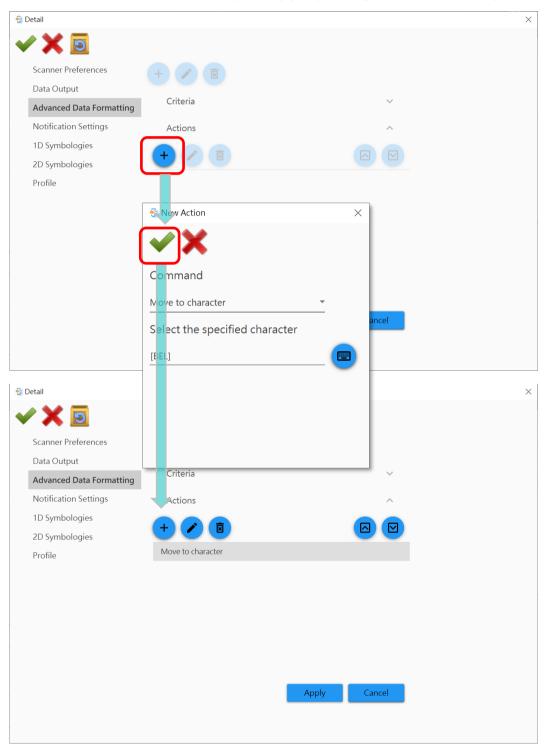
After completeing editing "**criteria**", please click on "**Apply**" to save your criteria settings, or expand the "**actions**" part to edit the actions.

▶ **Actions**

A rule contains multiple "**actions**" which process the decoded barcode data conforms to the "**criteria**" and reformat the data to be transmitted.

To create an action, please click on "**Add** ⊕" to open "**New Action**" window, set the command and enter the necessary item(s) depending on the command you choose.

To edit an action, please double-click the action, or select the action and then "**Edit** ".

To delete an action, please select the action to be deleted and then "**Delete** ".

The decoded data is processed by actions sequentially. The permutation of actions affects the output data, that is, different permutations of actions may result in different output data.

To change the permutation, select the action and click on "**Up** " or "**Down** ".

Button	Description
Add	To create a new action.
Edit	To edit the selected action.
Delete	To delete the selected action.
Up	To move the selected action up.
Down	To move the selected action down.

Be sure to click on "**Apply**" to save your criteria and action settings.

Note: Please refer to **ReaderConfig User Guide for Android** for detailed instruction.

NOTIFICATION SETTINGS

Notification Settings enables the device audible, visible and tactile feedback for scanning good read, which helps notify the user of a successful decoding.
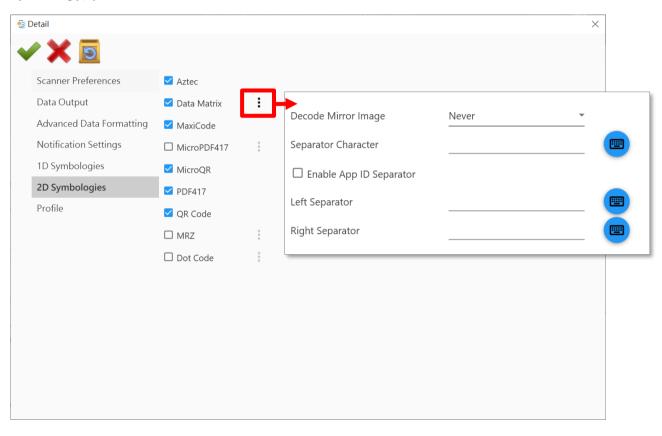
Item	Description
Visual Indicator	To enable or disable LED light (left) for scanning good read.
Vibrator	To enable or disable tactile feedback (vibration) for good read and set the duration to vibrate.
Beeper	To set the beeper sound for scanning good read. To choose to mute the beeper sound, or configure the beeper sounds.

1D SYMBOLOGIES & 2D SYMBOLOGIES

On "1D Symbologies" and "2D Symbologies" tab pages, you can set the symbologies to read and the details about the featured settings.

To enable the symbology, please tick its checkbox; to open the settings page of the symbology, please click on its "**More ⋮** " button.

For details about the featured settings, please refer to **ReaderConfig User Guide for Android**.

PROFILE

With an "**Associated app**", the profile can be enabled, and the "**Associated app**" on the device will receive the decoded data output by **ReaderConfig** once the profile is enabled.

ASSOCIATED APP

"**Associated app**" is to assign an application to receive the decoded data which is output according to the settings of the profile bound with this "**Associated app**".

Please perform "**Synchronize all settings with Device** 📱" or "**Synchronize current option** 🔄" on "**Configure Device Settings**" window in adavnce to make the associated app list available.

Simply to select the application from the drop-down menu to assign it to be the "**Associated app**" for this profile.

Note:

(1) The "Default" profile doesn't support "Associated app", please assign "Associated app" to the profile(s) you create.

(2) An app can be set as the associated app to only one profile.

PROFILE ENABLE

Once you assign an application to a profile to be the profile's "**Associated app**", this profile can be enabled by ticking the checkbox "**Profile Enable**".

Make sure to click on "**Apply** ✔ " on profile detail window to save your profile settings, and when returing back to "**Barcode Reader**" tab page on "**Configure Device Settings**" window, you will find that the enable checkbox of this profile is now checked.

Note: Mutiple profiles can be enabled at the same time.

3.4.3. SECURITY

You can set a password to restrict other users of the device from changing certain configurations or accessing certain functions in the app **ReaderConfig**.

Simply enter "**Security**" tab page under "**Barcode Reader**". Enter and confirm a password and check the items that will be protected by this password.

3.5. BUTTON ASSIGNMENT

The function "**Button Assignment**" on "**Configure Device Settings**" window, depending on [project device model](#) you set, is to assign specific functions to the programmable keys through the device system settings, or to be releated to the built-in app "**Button Assignment**" for redefining the functions of physical keys so that they trigger different actions.

3.5.1. BUTTON ASSIGNMENT (FOR RS30, RS31, RS50, RS51, & HERA51)

"**Button Assignment**" for the device models listed below is to assign specific functions to the programmable keys:

▸ RS30 Mobile Computer

▸ RS31 Mobile Computer

▸ RS50 Mobile Computer

▸ RS51 Mobile Computer

▸ HERA51 Mobile POS

With this configuration, you can define the function of the physical keys of your device. The settings will vary by device model. Please note that the virtual keys (soft keys) could not set to be "**Enable wakeup**".
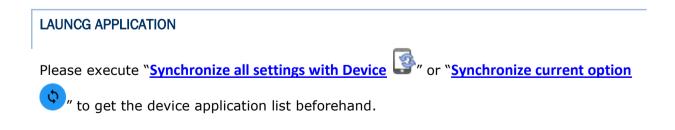
To define the function for the physical keys, please double-click on the key to be configured to enter the key's detailed settings page.

KEY MAPPING

Select the key categories and the physical key to be assigned to the key from the drop-down menu, and click "**Apply**" to save the setting.

LAUNCG APPLICATION

Please execute "**Synchronize all settings with Device** " or "**Synchronize current option** " to get the device application list beforehand.

Select the application to be assigned to the key from the drop-down menu, and click "**Apply**" to save the setting.

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LAUNCH APPLICATION WITH INTENT

Input the **intent** (the specific intent string should be input beforehand in the configuration xml file on your device) to assign the key to launch a specific application. Click "**Apply**" to save the setting.

ENABLE WAKEUP

Tick the checkbox to enable pressing the key to wake the device from suspend mode.

"**Enable Wakeup**" is disable if keycode is set as "**None**".

For virtual keys (soft keys), "**Enable Wakeup**" is disable all the time.

Note:

The key "Soft Back", "Soft Home", "Soft App Switch", "Soft Search" (for RS50, RS51, & HERA51) are the virtual keys.

3.5.2. BUTTOM ASSIGNMENT (FOR RS35, RK25, RK95, & 9700A)

For the device models listed below, "**Button Assignment**" is a built-in application for redefining the functions of physical keys to trigger different actions.

▶   RS35

▶   RK25

▶   RK95

▶   9700A

The buttons on "**Button Assignment**" tab page are for profile management:

▶   ![+] **New Profile**

To create a new profile which contains definitions of key behavior or actions.

▶   ![pencil] **Edit Profile**

To edit the selected profile to change key settings.

▸ 🗑 **Delete Profile:**

To remove the selected profile from the list.

▸ 📋 **Copy Profile**

To copy an existing profile and make changes from it.

▸ ✏ **Rename Profile**

To give the selected profile a new name.

Execute "**Synchronize all settings with Device** 🔄" or "**Synchronize current option** 🔄" to fetch all the profiles from the currently-connected device.

SYSTEM PROFILE

The "**System Profile**", which cannot be deleted, controls the key behavior of your device. You can change the definitions of key behavior or actions of the "**System Profile**" profile by:

▸ Redefining the key behavior.

▸ Setting a profile as "**Default**" profile (system profile), and the key behavior or actions of the "**Default**" profile will change.

Note:

(1) **Only one profile can be active at a time.**

(2) **For detailed instruction about "Button Assignment", please refer to Button Assignment User Guide for Android.**

NEW PROFILE

To create a new profile, please click on "**New Profile** ⊕", enter the profile name, and then "OK" to create it.

EDIT PROFILE

"**Edit Profile** " is to change the key functions to meet the user's needs. Click on a profile to select it and then click on the profile management button "**Edit Profile** ", or click twice on a profile to list all the keys it contains.

Double-click on the key that you'd like to assign a new action.

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KEY MAPPING

Click the radio button to select "**Key Mapping**" to map the selected key to another key:

1) Expand the pull-down menu and select the key type.

2) Select the key function you would like to assign, and click on "**Apply**".

After returning back to the profile key list window, click on "**Save** ✔ " button after profile editing is done.

If a desired key is not listed, you can still map the key by entering the key code defined in the Android operating system:

1) Expand the pull-down menu and select Miscellaneous, and then select "U**ser-defined**".

2) Input key code, and click on "**Apply**".

After returning back to the profile key list window, click on "**Save** ✔ " button after profile editing is done.

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LAUNCH APPLICATION

To assign the key through "**Launch Application**", please perform "**Synchronize all settings with Device** " or "**Synchronize current option** " to synchronize the applications in the currently-connected device beforehand.

Click the radio button to select "**Launch Application**" if you'd like to launch an app with a key press, and then expand the pull-down menu for the entire applications list to select the app you would like to assign.

Click on "**Apply**" to save the setting and return to the profile key list window, and then click on "**Save** " button after profile editing is done.

LAUNCH APPLICATION WITH INTENT

Click the radio button to select "**Launch Activity with Intent**" if your app supports launch by intent in its manifest.

In order to support launch by intent in your app, you need to add an intent-filter action in your app's AndroidManifest.xml file.

The following example uses "**cipherlab.intent.action.Test**" as the name of the intent to be launched.

```
<activity
android:name=".MainActivity"
android:label="@string/app_name" >
<intent-filter>
<action android:name="android.intent.action.MAIN" />
<action android:name="cipherlab.intent.action.Test" />
<category android:name="android.intent.category.LAUNCHER" />
</intent-filter>
</activity>
```

Click the radio button to select "**Launch Activity with Intent**" and enter "**cipherlab.intent.action.Test**" then click on "**Apply**" button.

Once the action is set, your application can be launched with a key press.

WAKE UP
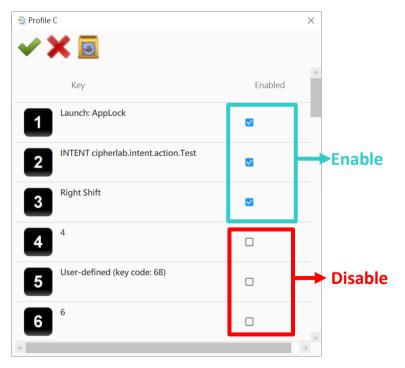
To determine whether to wake up the device display from the off-screen state by pressing this scan key.

This function is only for trigger keys (**Scan**, **Left Scan**, **Right Scan**, & **Pistol Scan**), and the default setting is enabled.

ENABLE/ DISABLE A KEY IN PROFILE

To enable or disable a key in a profile, simply select the profile to list all of its keys and tick/ untick the checkbox next to the key you'd like to enable or disable.

KEYPAD LOCK

For the device with physical keypad, you can lock the physical keys by pressing **Shift** key and then **Backspace** key to avoid pressing the keys accidentally.

If you would like to enable or disable the keypad lock function, you can:

1) Click on a profile and then "**Edit Profile** ", or click twice on a profile to list all the keys it contains.

2) Scroll to find "**Keypad lock** ".

3) Click on the checkbox next to "**Keypad lock** " to tick or untick it.
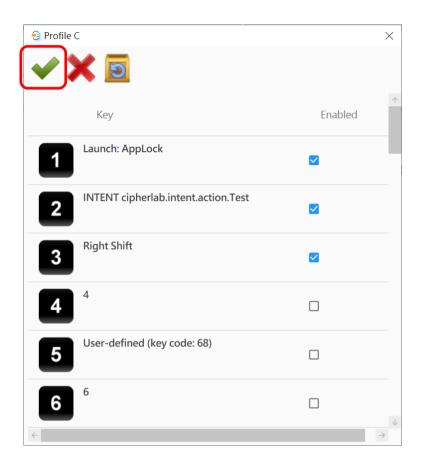
Note: The three soft keys, Back , Home , and App Switch , are never locked even if Keypad lock is enabled.

SAVE YOUR PROFILE KEY BEHAVIOR

After you change the key functions or enable/disable keys, always remember to click on

"**Save** ✔ " button on the profile key list window, and and click on "**Apply** ✔ " on

"**Configure Device Settings**" screen to make the key behavior of the profile changed.

▶   ✔ **Save:** Save your change of the key functions or enable/disable keys.

▶   ✖ **Cancel:** Directly close the window without saving any change.

▶   ↺ **Reset:** Restore the key functions to the default.

SET THE ACTIVE PROFILE

You can create different profiles for differnet work enviroments, and only one profile can be active at a time.

To set the active profile, please click the radio button ⊙ on the right of a profile to make the profile active.
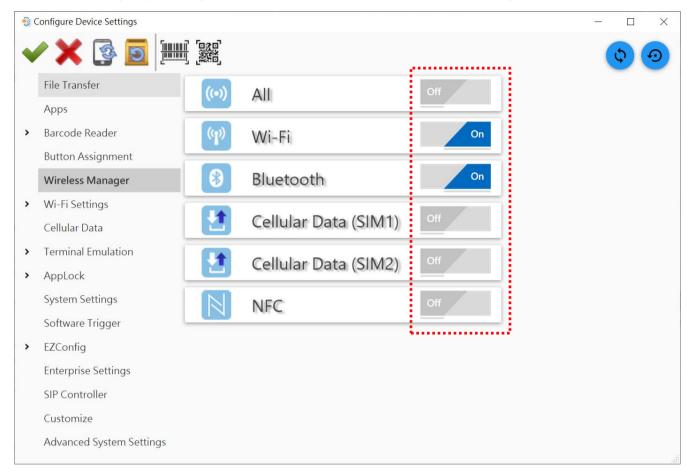
Make sure to click on "**Apply** ✓" on "**Configure Device Settings**" screen to make the key behavior of the "**System Profile**" change to be the same with the active profile.

3.6. WIRELESS MANAGER

"**Wireless Manager**" is for setting the device Wi-Fi, Bluetooth, cellular data, and NFC to be enabled or disabled.

Make change by turning on or off the switch for one or all wireless signals.
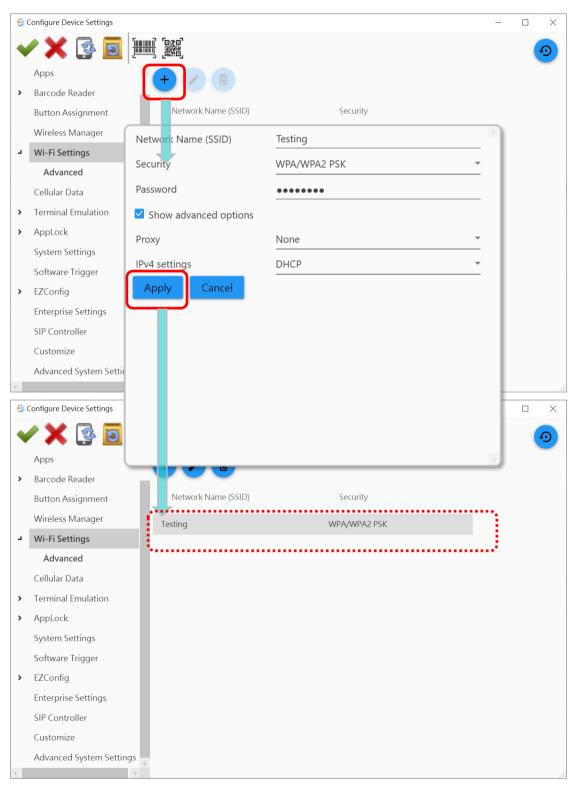
Click on "**Apply**   " on "**Configure Device Settings**" window to save your changed settings before closing "**Configure Device Settings**" window.

3.7. WI-FI SETTINGS

"**Wi-Fi Settings**" is to set the wireless profile for the device(s) to apply. To add a new wireless profile by "**Add** ➕ " , fill in the necessary fields, and finally click on "**Apply**" to save the settings. Click on "**Apply** ✔ " before closing the **Configure Device Settings** window.

Note:

For IPv4 settings, you can choose for the device to obtain an IP address via DHCP. Your device IP addresses may be automatically assigned if DHCP is enabled on the adapter.

ADVANCED

Unfold "**Wi-Fi Settings**" and click "**Advanced**" option, the advanced Wi-Fi settings page is shown to deliver the following functions:

WLAN PREFERENCES

Item	Description
Network Notification	Notify when an open network is available.
Keep Wi-Fi on during sleep	Set when to turn Wi-Fi on during sleep.
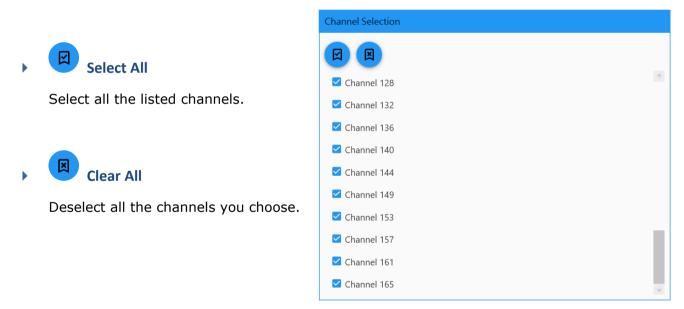
CIPHERLAB PROPRIETARY SETTINGS

Item	Description
Wi-Fi Frequency Band	Select **Automatic**, **5 GHz only**, or **2.4 GHz only** for your Wi-Fi frequency band. The default setting is **Automatic**.
Roaming Enable	Select whether to enable Wi-Fi roaming or not.
Roaming trigger	The signal strength when triggering Wi-Fi roaming. The higher value means the sensitivity of triggering roaming is higher.
Roaming delta	The qualification for roam candidates. The higher value means the signal strength of candidate APs should be higher than the current connected AP.
Background scan interval	The frequency of background scan when the device does not connect the internet. The shorter time means the scanning frequency is higher.
Set Country Code	Select the country code for your device.
Wi-Fi Connection Timeout	The device retains network connection and takes a while to wait for the response from the Wi-Fi till the device cannot reconnect to the previously connected Wi-Fi AP.

Item	Description
Set Timeout Value	Once "Wi-Fi Connection Timeout" is enabled, you can further set the timeout value.
Captive Portal Detection	To determine Internet connectivity when the device connects to a network.
Enable Fast Transition	Enable 802.11r Fast Transition feature.
Enable WLAN Blacklist	Deny the Wi-Fi AP (access point) which is failed to access for several time, and add the denied AP to the blacklist.
Enable DHCP Blacklist	Forbid the device to connect to the Wi-Fi network whose SSID is on the blacklist.

CHANNEL SELECTION

"**Channel Selection**" is to select the Wi-Fi channel(s) to narrow down frequency band of the 2.4GHz (802.11b/g/n) or 5 GHz (802.11a/n).

▸ 　 **Select All**

Select all the listed channels.

▸ 　 **Clear All**

Deselect all the channels you choose.

Channel Selection

- Channel 128
- Channel 132
- Channel 136
- Channel 140
- Channel 144
- Channel 149
- Channel 153
- Channel 157
- Channel 161
- Channel 165
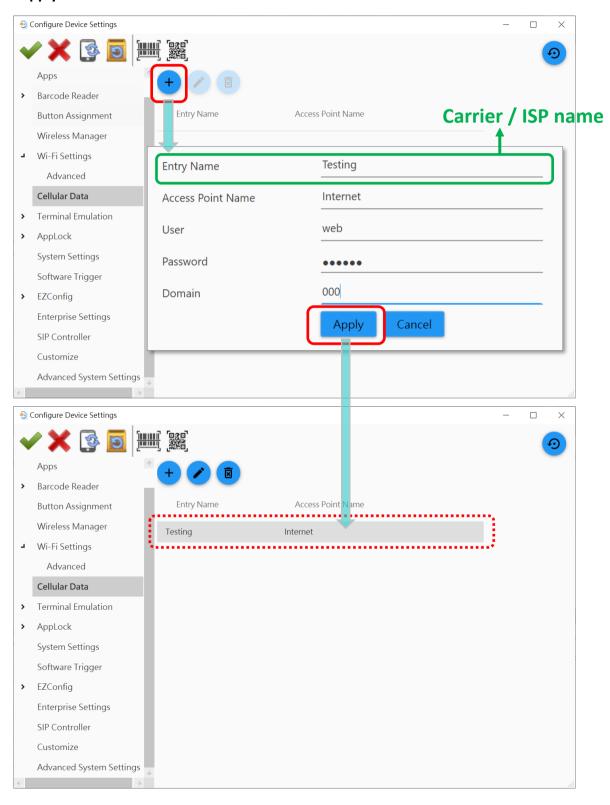
MISCELLANEOUS

Item	Description
Delete WLAN connected list	Automatically clear all the saved WLAN profile on the device after deploying ADC project settings. The newly-created WLAN profile set by this ADC project will be added to the device later.

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3.8. CELLULAR DATA

"**Cellular Data**" is for configuring your cellular data network. To add a new cellular data network by "**Add** ⊕", fill in the information about this cellular data network, and click on "**Apply**":

The buttons on "**Cellular Data**" page are:

Button	Description
Add	To add a new cellular data network.
Edit	To edit the selected cellular data network.
Delete	To delete the selected cellular data network.

Please click on "**Apply** ✔" to save your changed settings before you close the **Configure Device Settings** window.

3.9. TERMINAL EMULATION

Before you perform the synchronization by ADC, make sure **Terminal Emulation** has been launched on the device for at least one time.

The detailed instruction about "**Terminal Emulation**", please refer to **Terminal Emulation User Guide (Android)** .

SELECT A HOST FOR TE DEFAULT CONNECTION

Click the radio button to set a host profile as the active profile. You can click a host to enter its settings page.

SCREEN ORIENTATION

To switch between Keep Portrait and Keep Landscape.

ACCESS CONTROL

Terminal Emulation allows setting up a password mechanism to prevent unauthorized access of application settings, or leaving the application without authorization.

Item	Description
Enter your password	Specify the password for access control.
Confirm password	Type the same password again.
Select to apply password protection	Select the checkboxes to apply the password protection to the access control items.

3.9.1. SESSION SETTINGS

Settings of a session consist of four tabs: **Host Profile**, **Emulation Settings**, **Network**, and **Debug**.

HOST PROFILE

Item	Description
Emulation Type	Click the drop-down menu to set the profile to connect to the prospective host, VT or TN type.
IP Address	Input the IP address or name of the host.
Port	Input the port number or click the left/right arrow to decrease/increase port number.
Auto Connect	Select the checkbox to enable auto connection.
Auto Sign On	Select the checkbox to enable auto sign-on and proceed with further settings below.
Login Name	Input the login name.
Login Password	Input the login password.
Command (VT Only)	Input the command (only for VT emulation type).
Login Prompt (VT Only)	Specify the text exactly displayed by the host service to prompt for user name. This function is available for VT host types only.
Password Prompt (VT Only)	Specify the text exactly displayed by the host service to prompt for password. This function is available for VT host types only.
Command Prompt (VT Only)	Specify the text exactly displayed by the host service to prompt for command. This function is available for VT host types only.
Term Login (VT Only)	Click the drop-down menu to select between Tab and Enter to assign the key to switch over Login Name and Login Password. This function is available for VT host types only.

EMULATION SETTINGS

Click to enter **Emulation Settings** tab page:

VT SETTINGS

Click to open **VT Settings** panel to show the settings.

Item	Description
Data Input Uppercase	Capitalizes all the letters of input data.
LineBuffer	Shows typed text and commands locally on Terminal Emulation, and transmits them to host service only after Enter key is hit to confirm the input.
Local Echo	Shows typed text locally on Terminal Emulation just as it is being transmitted to host service.
Send String When Connect	Defines the command that Terminal Emulation sends to host service upon connection. Click the right-hand icon to bring up a character table for entering the desired command.

Item	Description
New Answer Back	Specify a string to be sent to the host when receiving an ENQ from the host. Users can include the variables as follows for device identification. <table><tr><td>Variables</td><td>Description</td></tr><tr><td>%m%n%o%p%q%r</td><td>depict six octets of the MAC address</td></tr><tr><td>%a%b%c%d</td><td>depict four octets of the IP address</td></tr><tr><td>%s</td><td>depict the TE session number</td></tr><tr><td>%t</td><td>depict the Terminal ID (vt100,vt102, vt220 and ansi)</td></tr></table> For example: Users specify the "%m%n%o%p%q%r-%a.%b.%c.%d-%s-%t" string. The mobile device will send "0017231BABF9-192.168.241.65-1-vt220" (0017231BABF9 representing MAC address, 192.168.241.65 representing IP address, 1 representing the TE session number, and vt220 representing the terminal ID) to VT Server when receiving ENQ from the host.
Remote Character Set	Assigns the character code for displaying the characters received from the server.
Replace Char if Unconvertable	When UTF-8 is assigned, this checkbox is available. Select the checkbox and click the drop-down menu to assign the character for replacement.

SCREEN

Click to show the settings on **Screen** panel.

Item	Description
Show Session Number	Displays a session icon on the screen to allow quick switching to other sessions.
Show Connecting Host IP	Displays connecting host IP right beneath the toolbar.

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Item	Description
Screen Panning	Enable/disable viewing the desired portion of the screen by swiping the display.
Auto Popup SIP On Connection	Check it to enable the pop-up SIP on connection.
Activate Macro	Check it to enable pop-up Macro toolbar on the screen once the session is connected.
Set HW Key (SHIFT + RIGHT) to Exit App	Enable/disable the hardware key combination (SHIFT + RIGHT) to exit the app.
Set HW Key (SHIFT + ESC) to Control SIP	Enable/disable the hardware key combination (SHIFT + ESC) to control SIP.
Cursor Type	Click the drop-down menu to select the cursor type.
Auto Tracking	Auto-positions Terminal Screen to bring cursor into view. Select the checkbox and click the drop-down menu to select. ▶ Visible (The cursor constantly shows at the upper-right of the screen.) ▶ Center (The cursor constantly shows in the center of the screen.) ▶ Locked Location (The screen is locked to the position set by column and row.)
Column/Row	When Auto Tracking is set to Locked Location, users can specify the accurate coordinates.
Fonts	click the drop-down menu to assign the font to show characters in Terminal Screen.
Font Size	click the drop-down menu to assigns the size to show characters in Terminal Screen
Line Spacing	Specify the line spacing.
Color Settings	Click the right-hand icon to bring up the dialog. Select the font color and background color in the Terminal Screen to suit users' preferences.
Override Server Color	Select the checkbox to apply color settings to the server.

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The part of "**Full Screen**":

Item	Description
Auto Full Screen On Connection	Check it to enable full screen mode automatically when connecting to the server.
Show Navigation Bar	Check it to enable the Navigation bar in full screen mode.
Show Wi-Fi/Battery Info on Full Screen	Sets the items to display in full screen, either the battery level icon or Wi-Fi signal strength icon, on condition that the title bar is not enabled. The SIP icon can be enabled regardless of whether the taskbar is shown on full screen. ▶ **Update Wi-Fi/Battery Icon Interval:** Click the drop-down menu to select Wi-Fi/battery status icon update Interval (min). Options are: 1, 3, 5, 15, 30, 60 minutes. ▶ **Choose Wi-Fi Alert Level (%):** Select to define threshold for low Wi-Fi signal alert to appear (by a pop-up dialog indicating the Wi-Fi signal strength). Options are: 10, 20, 30, 40, 50, 60, 70, 80, 90%. ▶ **Choose Battery Alert Level (%):** Select to define threshold for low battery alert to appear (by a pop-up dialog indicating the remaining battery level). Options are: 10, 20, 30, 40, 50, 60, 70, 80, 90%.

ALARM

Click to show the settings on **Control Reader By Command** panel.

Enable the host service to send commands in order to turn on/off the reader module:

Item	Description
Enable Command	Assign a command (escape sequence) for turning on the reader module.
Disable Command	Assign a command (escape sequence) for turning off the reader module.
Sound	Select a sound from the drop-down menu.

Expand **Feedback By Command/Text** panel to show the settings:

Item	Description
Good Feedback	Assign the command (escape sequence) for input success. When Terminal Emulation receives the command, the mobile computer will play the specified beeper sound or vibrate for the specified amount of time. ▸ **Feedback Type:** Select Command or Text. ▸ **Command/Text:** Enter the sequence of interest. ▸ **Sound:** Select a sound from the drop-down menu. ▸ **Vibrator:** Select the amount of time to vibrate. Configure vibration duration between 0 and 5 sec (in increments of 0.5 sec).
Error Feedback	Assign the command (escape sequence) for input failure. When Terminal Emulation receives the command, the mobile computer will play the specified beeper sound or vibrate for the specified amount of time.

KEY MAPPING

Click to shoe the settings on **Key Mapping** pane. This function is only for devices equipped with physical keyboard. **Terminal Emulation** supports "**Key Mapping**", enabling users to define a physical key (or combined keys) of the mobile device mapping to a specific function performed on the server.

Key Mapping					
Server key	Physical key		Ctrl	Shift	Alt
Enter	ENTER				
Backspace	DEL				
Delete	Undefined				
Tab	TAB				
Left	DPAD_LEFT				
Right	DPAD_RIGHT				
Up Arrow	DPAD_UP				
Down Arrow	DPAD_DOWN				
Esc	ESCAPE				
Line Feed	Undefined				
Find	Undefined				
Select	Undefined				

☐ Volume Up --> VT ESC

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Select a particular key item and then click on "**Edit** ✏️" to show the setting page. Click on the button "**Open ASCII Table** ✏️" to bring up the dialog to specify the server command string for the key.

▶ **Server Key**

The function performed on the server.

▶ **Mapped Physical Key**

Configures the selected Server Key.

Setting	Description
Category	▶ Lists the categories of Physical Keys. ▶ Alphabets ▶ Numbers ▶ Punctuations ▶ Function Keys ▶ Navigation Keys ▶ Editing Keys
Physical Key	▶ Serves the function of the Server Key.
Ctrl/ Shift/ Alt	▶ Functions with the physical key if selected.

VOLUME UP - -> VT ESC

This function is only for devices without physical keyboard.

With this function enabled, after a connection to the VT server is established, pressing the volume up button sends ESC to the VT server. This function is available only for VT Emulation.

SSH

Click to show the settings on **SSH** panel.

The secured connection protocol **Secure Socket Shell (SSH)** is available for VT emulation. As it provides strong authentication and secures encrypted data communications, it suits the needs of a solution which requires high security level of data transmission.

Item	Description
Enable SSH	Select the checkbox to enable SSH.
Generate SSH Log	Select the checkbox to generate SSH log.
Authentication Type	Click the drop-down menu to select between **Key File** and **Name/Pwd**. ▶ **Load a profile key:** Transfer a key file (*.pem or *.ppk) to your mobile computer. Click **Advance** button ⬤ to bring up the dialog. Click the "**Import** ➕" to import the key file. ▶ **Name/Password:** Or with Name/Pwd selected, you can access the remote server using Name and Password. Click the **Advance** button ⬤ and then key in your **Login** name and **Password** respectively.

The other settings on "**SSH Key File**" window are depicted as follows:

General Options	
Use TCP No-Delay	Enable this option to enhance the performance of small-amount data transmission between Server and client Device. However, this function might result in excessive traffic of short packets.
No Pseudo-Terminal on Host	The "pseudo-terminal mode" is fundamental for VT (UNIX) host system to build up emulation sessions between client Devices. Disable it if necessary.
No Host Shell	Enable this option to have TE not run shell or command after connecting to the remote host server. This option is applicable only when: ▶ SSH connection is used for port forwarding, and your user account on the server is not allowed to run a shell. ▶ SSH protocol version 2 is supported on host server.
Re-Key Every 60 Minutes	In RFC 4253 (the SSH Transport Layer Protocol), the Re-Key method ensures the key is exchanged only upon per gigabyte of transmitted data or per hour of connection time, whichever occurs sooner. Enable these options to trigger TE to exchange a new key with the server every 60 minutes or following a total data flow of 1 Gigabyte in either direction.
Re-Key Every 1G of Traffic	
Overwrite Existing Log File	Enable this function to have the new Log file always overwrite the previous one.

Server	
Environment	Specifies environment variables to be set on the SSH server.
Commands	Represents a special command or subsystem to invoke on the SSH server in lieu of an interactive shell. This is typically used for non-interactive host sessions. For most users this will be blank.
TTY	This setting can be used to add TTY Modes to be sent to the SSH server.

Proxy	
Type	Proxy allows you to configure CL TE to use various types of proxy servers in order to make network connections. The settings affect the primary network connection from your CL TE SSH session, but also any extra connections made as a result of SSH port forwarding. Click the drop-down menu to configure what type of proxy you want CL TE to use for its network connections. The choices are: ▶ **None:** no proxy is used. ▶ **SOCKS 4 or SOCKS 5:** proxy through a SOCKS server. ▶ **HTTP:** proxy through a web server supporting the HTTP CONNECT command. The default setting is None.
Host	Specify the DNS name or IP address of the proxy server. The default is blank.
Port	Specify the port on which the proxy server is listening. Set this to match the port on the proxy server for connections.
User	If your proxy server requires authentication, enter the username. The default is blank.
Password	If your proxy server requires authentication, enter the password. The default is blank.

Always remember to click on "**Apply** ✔ " before you close the **Configure Device Settings** window.
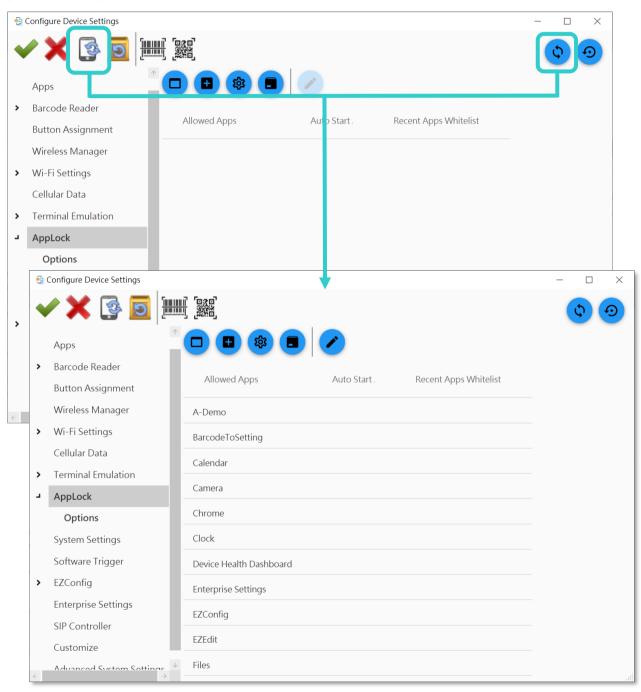
Note:

Emulation Settings involve key mapping with the physical keys of the device, thus the settings will vary by device model.
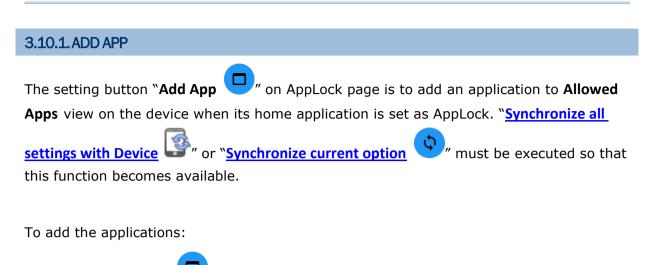
3.10.APPLOCK

For **AppLock** configuration, please perform "**Synchronize all settings with Device** " or

"**Synchronize current option** " to synchronize settings with your device first so that the applications and system settings can be imported to the white page. Please make sure AppLock application has been launched on the device for at least one time before you perform the synchronization.

For the detailed instruction about "**AppLock**", please refer to **AppLock User Guide for Android**.

3.10.1. ADD APP

The setting button "**Add App** ▢ " on AppLock page is to add an application to **Allowed Apps** view on the device when its home application is set as AppLock. "**Synchronize all settings with Device** 📲 " or "**Synchronize current option** 🔄 " must be executed so that this function becomes available.

To add the applications:

1) Click on "**Add App** ▢ " to show the application list and tick the checkbox of the app you'd like to add to **Allowed Apps** view.

If you would like to specify a certain amount of time to delay launching the **Auto Start Apps** at AppLock startup, please set the time for "**Auto start delay (second)**". The default setting is 0 (second).

2) Click "**Apply**" to add the app(s).

3.10.2. CREATE A NEW APP ITEM

Without performing "**Synchronize all settings with Device** 🖥️" or "**Synchronize current option** 🔄", you may click on
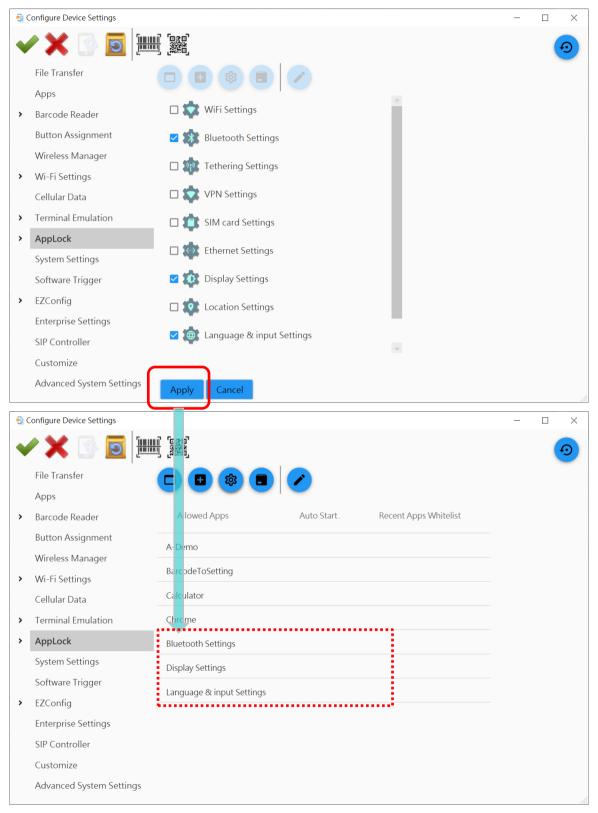
"**Create a new App item** ➕" to manually input the app information of your desired app which is already installed on the device.

Click "**OK**" to add the app to **Allowed Apps** list.

Create a new App item

Name
Chrome

Package Name
com.android.chrome

Activity
com.google.android.apps.chrome.Main

[OK] [Cancel]

3.10.3. ADD SHORTCUT

"**Add Shortcut** " on to add system setting as shortcut to Allowed Apps view. Tick the checkbox of the system setting and then click on "**Apply**".

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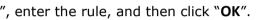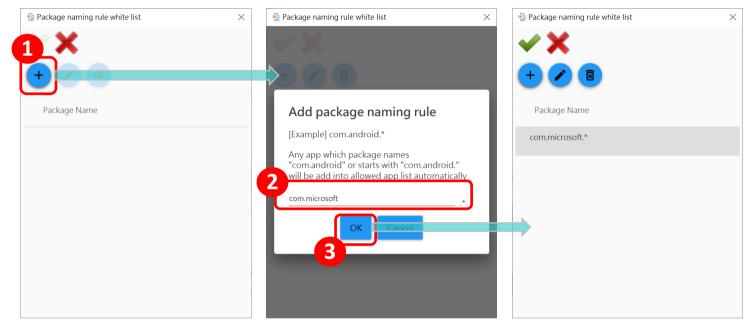
3.10.4. ADD PACKAGE NAMING RULE

"**Add Package Naming Rule** ▣ " is to set the naming rule to prescribe which apk (Android application package) can be manually installed on the device and automatically added to "**Allowed apps list**" after installation. By adding your package naming rule, if users try to install the apk which doesn't match the rule, it will be blocked.

Click on "**Add Package Naming Rule** ▣ " to open "**Package naming rule white list**" window to add a new rule by clicking "**Add** + ", enter the rule, and then click "**OK**".

The buttons on "**Package naming rule white list**" window are:

▶ + **Add package naming rule**

Add a new rule to the white list.

▶ ✏ **Edit package naming rule**

Edit the selected rule.

▶ 🗑 **Delete**

Remove the selected rule from the white list.

▶ ✔ **OK**

Confirm your changed setting on "**Package naming rule white list**" window.
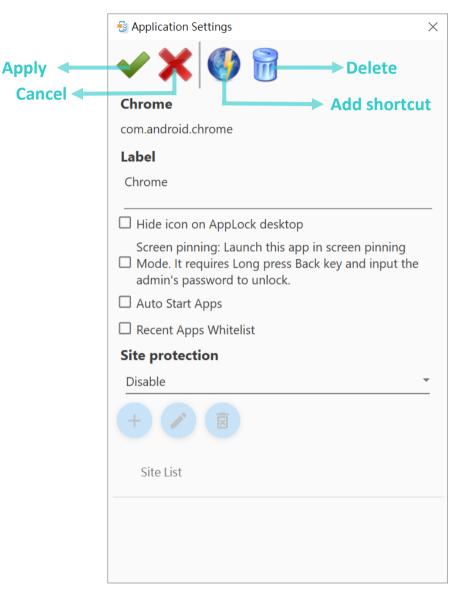
▶ ✖ **Cancel**

Withdraw your changed setting on "**Package naming rule white list**" window.

3.10.5. EDIT

Through the button "**Edit** ✏", you can open "**Application Settings**" window of the selected app or shortcut on "**Allowed apps list**" for further settings.

"**Application Settings**" window offers the following settings:

LABEL

"**Label**" is the field for inputting the new name for this app to rename this it.

HIDE ICON ON APPLOCK DESKTOP

"**Hide icon on AppLock desktop**" is to determine whether an app/ shortcut is visible in **Allow Apps** view. By enabling "**Hide icon on AppLock desktop**", the app/ shortcut will not be shown in **Allow App** view, but it is still operational as other apps displayed on Allow Apps view.

SCREEN PINNING

The application with "**Screen pinning**" function enabled could not be exited or closed by tapping any hardware buttons on device or by any means, even if the application itself offers the quit/exit/leave function. The only way to unpin the screen-pinned application is to long press **Back** button on the device and then input the admin password in the "**Unpin Application**" pop-up window.

AUTO START APPS

"**Auto Start Apps**" is for setting an application to automatically start when AppLock is launched on thedevice.

RECENT APPS WHITELIST

"**Recent Apps Whitelist**" is for selecting the applications to retain in the recent apps list.

Pressing "**Recent Apps**" button on the device will display the record of recently used applications. The record can be cleared by the AppLock function "**Clear Recent Apps**", but the application(s) with "**Recent Apps Whitelist**" enabled will be kept.

APPLY

Click on "**Apply** ✔ " to save your changed settings on "**Application Settings**" window, and close the "**Application Settings**" window at the same time.

CANCEL

Click on "**Cancel** ✖" to withdraw the changed settings on "**Application Settings**" window, and close the "**Application Settings**" window at the same time.

DELETE

Click on "**Delete** 🗑" to remove this application/ shortcut from "**Allowed apps list**" , and close the "**Application Settings**" window at the same time.

ADD SHORTCUT

For "**Chrome**", you can add website shortcut to the main screen by "**Add shortcut** ".

SITE PROTECTION

"**Site protection**" is for setting certain sites as blacklist or whitelist for up to 32 URLs. This function is only available for the applications **Android default browser** and **Chrome**.

Setting	Description
Disable	The function "Site protection" is not enabled.
Blacklist mode	Those URLs on Site List are prohibited to be visited.
Whitelist mode	Only those URLs on Site List are permitted to be visited.

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The buttons for "**Site protection**" are:

▸   **Add:** Add a new site.

▸   **Edit:** Edit the selected site on site list.

▸   **Delete:** Remove the selected site from the site list.

3.10.6. OPTIONS

"**Options**" is a setting group that controls how **AppLock** acts each time it is used.

NOTIFICATION BAR

Setting	Description
Show Notification Bar	To show the notification bar on the top of the screen on device. Use the notification bar to check battery status, wireless connection status, and system notifications
Enable Notification Bar	To determine whether the notification bar could be slid down to check & manage system notifications and open Quick Setting Panel and Quick Setting Menu. Onceit is enabled, all the notifications on the lock screen will be shown. If it is disabled, the setting of "**Show filtered notifications**" takes control whether to block the notification bar and to show the notifications on the lock screen.
Show filtered notifications	To decide whether showing the notifications of allowed apps to users. The default setting is enabled, however, this function doesn't work when "**Enable Notification Ba**r" is enabled. When "**Show filtered notifications**" is enabled, the status bar could be slid down to reveal notification drawer for checking the notifications from allowed apps only. The quick settings panel is unavailable as well as the quick setting tiles on it.
Heads-up notifications	To ennable or disable the head-up notifications to pop-up. This function is not supported for RS30 mobile computer.

DISPLAY

Setting	Description
Wallpaper	To set the wallpaper for AppLock home screen.
Logo	To display a logo at the top of AppLock home screen.
Home screen text color	To set the text color displayed on AppLock home screen.

SECURITY

Setting	Description
Set Login Password	To set the login password for the administrator access level.
Show Password	To make the current password visible during setup of a new password.
Monitoring App Installation	To restrict AppLock users from installing any apk of the apps excluded from the "Allowed App" list

ASSIST APP & OTHER SETTINGS

Setting	Description
Choose Assist app	To select an app to be the assist app which can be opened by long pressing **Home** button. You can set no assist app to remain it as none.
Remove Lockscreen Icons	To hide the app shortcut(s) on the device lockscreen.
USB Connection Allowed	To make the device storage visible from PC client when the device is connected with PC by the USB cable.

3.11. SYSTEM SETTINGS

"**System Settings**" lists the android system settings on device as below:

3.11.1. DEVICE

Please click to expand more settings.

HOME APP

Setting	Description
Home App	To select "**Launcher**" or "**AppLock**" to be Home app.

DISPLAY

Setting	Description
Brightness level	To set the device screen brightness by dragging the slider to the right to increase brightness, or left to reduce brightness.
Adaptive brightness	To enable automatic backlight adjustment with the device's built-in sensor.
Use system wallpaper	To determine whether to use the system wallpaper or not. If not, you have to set the wallpaper image path and the device path to save the waiipaper on device.
Sleep	To select the time lapse for screen timeout.
Font Size	To set the device font size.
Display Size	To set the device display size.
Auto-rotate screen	To enable or disable enable automatically screen rotation when the device is turned sideways.

BATTERY

Setting	Description
Battery Mode Selection	To select "**Performance mode**" which offers better & extra 10% to 20% working hour performance but might affect battery life, or "**Balance mode**" which balances between working hour and battery life.
Battery Percentage	To show or hide the percentage beside the battery icon on the device status bar.

NOTIFICATIONS

Setting	Description
On the lock screen	To determine whether to show notifications on device lock screen or not.

SOUND

Setting	Description
Media Volume	To set the dvice media volume by dragging the slider.
Alarm Volume	To set the dvice alarm volume by dragging the slider.
Ring Volume	To set the dvice ring volume to be normal, vibration, or mute. If "**Normal**" is selected, you can further adjust the ring volume by dragging the slider.

3.11.2. PERSONAL

Please click to expand more settings.

LOCATION

Setting	Description
GPS	To enable or disable the device GPS.
Mode	If "**GPS**" is enabled, you could further select the mode between "**High accuracy**", "**Battery saving**", and "**Device only**".

Note: **RK95 mobile computer doesn't support "Location".**

SECURITY

Setting	Description
Screen lock	To select elect "**None**", "**Swipe**", "**PIN**", or "**Password**" for Screen lock. By choosing "**PIN**" or "**Password**", you could further input password and confirm it.
Unknown Sources	To allow or prohibit the installation of apps from unknown sources.

LANGUAGE & INPUT

Setting	Description
Language	To set the desired system language for the device.
Spell Checker	By enabling "**Spell Checker**", a list of suggested words will be shown as you type on your device.

3.11.3. SYSTEM

Please click to expand more settings for **Date & time**.

Setting	Description
Automatic date time	By turning **Off** this function, you could manually set the date & time.
Automatic time zone	By unticking this function, you could manually select the time zone.
Set date	Manually set the date.
Set time	Manually set the time.
Select time zone	Manually select the time zone.
Use 24-hour format	To convert the time format from 12-hour to 24-hour.
NTP Server	Input the address of the NTP server, and make your devices automatically synchronize with this designated NTP server.

3.12. SOFTWARE TRIGGER

"**Softeware Trigger**" is an application which serves as a real trigger key on your device, and it floats on top of all other programs for convenient trigger control of the barcode scanner.

▶ **Enable**

Check to enable "**Softeware Trigger**" on the deices.

▶ **Size**

Resize the **Software Trigger** virtual button by selecting between "**Small**", "**Medium**", and "**Large**". The default setting is "**Medium**"
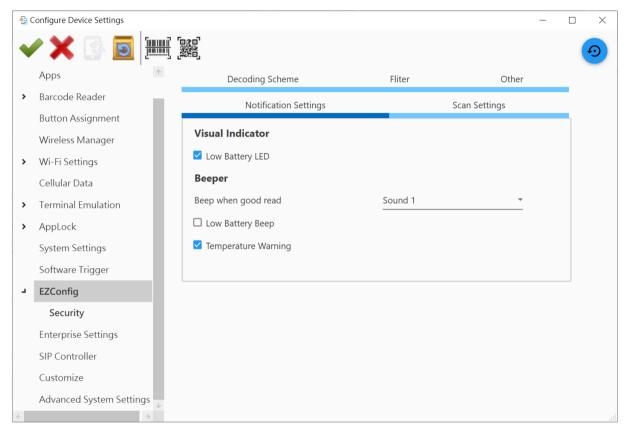
▶ **Auto start software trigger after startup**

Check to enable starting "**Softeware Trigger**" automatically on device boot up.

Make sure to click on "**Apply** ✔" before you close the **Configure Device Settings** window.

3.13. EZCONFIG

EZConig is a built-in UHF RFID application which is for CipheLab RK25 mobile computer to works with RK25 UHF RFID Reader to read RFID tags. Please refer to **EZConfig User Guide for Android** for the detailed instruction.l

Please click on each category to list the settings.

3.13.1. NOTIFICATION SETTINGS

To set the LED and beeper notification:

VISUAL INDICATOR

Setting	Description
Low Battery LED	Check to enable the LED indicator of RK25 UHF RFID Reader which will flash in red 5 times every 2 minutes or when it wakes up from suspend mode if the battery power level is 0%

Setting	Description
Low Battery LED	Check to enable the LED indicator of RK25 UHF RFID Reader which will flash in red 5 times every 2 minutes or when it wakes up from suspend mode if the battery power level is 0%
Beep when good read	Select to mute the beeper for good read, or set the sound for good read.
Low Battery Beep	To enable the low battery notification sound which occurs when the RK25 UHF RFID Reader's battery power level is 0%.
Temperature Warning	Check to enable the notification to prompt you if the RK25 UHF RFID Reader is over **65C°**. The high temperature warning will not go off until the temperature drops down to **62C°**.

3.13.2. SCAN SETTINGS

SCAN SETTINGS

Setting	Description
Power Level	To drag the slider to adjust the power level for reading distance.
Trigger Key	Set the reading mode when pressing the trigger once: ▸ **Once** To read the tag(s) once. ▸ **Continuous** To keep reading the tag(s) till the trigger is released. ▸ **Alternate** To perform "**Once**" and "**Continues**" one after the other repeatedly.

Setting	Description
Work Mode	To select from the drop-down menu to set the work mode. If you select the mode other than "**Multi-tag mode**", you can further set "**RF Link**".
RF Link	To select the RF Link depends on the interference suppression abilities and the speed you need for the application environment.
Session	To select from the 4 sessions are used for reading tags. Every session has 2 target states A and B. A tag is in state A if it is not read, and once it is read, its state flips from "A" to "B" and stops replying to readers. The 4 sessions provide different persistence of state B.
Q Value	**Q value** is effected by the number of tags from 0 to 15, and the tag population is based on **2^Qvalue**. For example, if the tag quantity is 50, it is suggested to set the Q value as 6. However, **dynamic Q** is suggested for standard use.
Dynamic Mode	
Current	Larger Q values decrease the probability of collision, and will reduce the throughput.
Minimum Q Value	To set the "**Current**" **Q value** by dragging the slider. If "**Dynamic Mode**" is enabled, , you can further set "**Minimum Q value**" & "**Maximum Q value**".
Maximum Q Value	
Inventory Status	▶ **STATE A:** Tags are in state A before they are read, and they flip to state B once they are read. ▶ **STATE B:** Once a tag is read, it changs its state from "A" to "B", and the tags in state B stops responding to a reader using the same session query. The persistence of the tag in state B varies based on the session. ▶ **AB FLIP:** Repeats State A and State B over and over.

DATA OUTPUT

Setting	Description
Keyboard Emulation	To treat the decoded data as typed text and outputs it to the active application on the device. **Keyboard Emulation** is only available when **Trigger Key** is set as "Once".
Inter-Character Delay	To set the delay time which is inserted between every character being transmitted. The longer the delay time is, the slower the transmission speed will be.
Prefix	▶ **Prefix:** To affixes 0 to 20 characters to the left of the output data. ▶ **Suffix:** To affixes 0 to 20 characters to the right of the output data.
Suffix	Please click on the button "**Open ASCII Table** ⌨" to open a character table for setting.

3.13.3. DECODING SCHEME

Tick the checkbox of the **EPC** (Electronic Product Code) Encoding Scheme to decide which kind of tags can be read.

3.13.4. FILTER

The EPC encoding scheme allows RFID reader to accept various types of tag. However, the EPC filter can pick only one type of tag from those EPC tags; other types will be bypassed.

Select the **EPC encoding scheme** (the default setting is "**None**") from the drop-down menu, and then select "**Filter Type**" and "**Filter method**". Please note that "**Filter method**" differs based on the EPC encoding scheme.

FILTER TYPE

EPC filter is designed to check the contents of the EPC tag with the specified tag type to determine whether the scanned record is accepted or ignored.

Please select "**Include EPC**" as the whitelist while "**Exclude EPC**" as the blacklist.

FILTER METHOD

Please select a filter method from "**Filter by EPC filter value**", "**By GS1 Company Prefix**", and "**By Item Reference**".

Setting	Description
Filter by EPC filter value	The filter value is additional control information that may be included in the EPC memory bank of a Gen 2 tag. The intended use of the filter value is to allow an RFID reader to select or deselect the tags corresponding to certain physical objects, to make it easier to read the desired tags in an environment where there may be other tags present in the environment. Please refer to **Section 3.4.2 "EPC Filter"** of **EZConfig User Guide for Android** for the detailed description about "**Filter by EPC filter value**".
By GS1 Company Prefix	Company prefixes are based on the GS1 prefixes. Note that since GS1 member companies can manufacture products anywhere in the world, GS1 prefixes do not identify the country of origin for a given product. Please refer to https://www.gs1.org/standards/id-keys/company-prefix
By Item Reference	Select "**By Item Reference**" and specify at least one up to 7 digits. "**Maximum number of digits in an Item Reference**" is available when "**By Item Reference**" is selected. Move the slider to increase or decrease the maximum number of digits.
Maximum number of digits in an Item Reference	

3.13.5. OTHER

To set the power mode for your RK25 UHF RFID reader:

Setting	Description
Power Save Mode	The mode that saves the battery power. Its speed of reading multiple tags is **30%** slower than "**Normal Mode**", but it improves **7%** operating time compared with "**Normal Mode**".
Normal Mode	The mode which strikes a balance between performance and operating time.
Boost Mode	The mode which offers the maximum performance. Its speed of reading multiple tags is **50%** superior to "**Power Save Mode**".

Note:

The aforementioned operating times are the reference values measured under room temperature and other conditions set by our company. The actual operating times would be affected by the working conditions:

(a) **Half of display brightness**

(b) **RF tag continuous read**

(c) **Maximum device speaker level**

(d) **Wi-Fi on**

3.13.6. SECURITY

Click the subitem "**Security**" of **EZConfig**" on sidebar to enter "**Security**" page.

PASSWORD

By setting your password, you can restrict other users of this mobile computer from changing certain configurations or accessing certain functions in **EZConfig**.

Simply enter and confirm your password. Once setting is done, you can further set the "**Password-protected features**".

PASSWORD-PROTECTED FEATURES

Select the function(s) to be protected by the password you set. The ptotected functions require password for access after logging out in **EZConfig** on the device.

To access these protected functions, please log in with your password.

3.14. ENTERPRISE SETTINGS

The settings on "**Enterprise Settings**" page vary according to the project device model you set. This section lists all the settings:

LOCK QUICK SETTINGS

To enable or disable the status bar on the top of the screen.

Once "**Lock quick settings**" is checked, the status bar cannot be swiped down, and **Quick Settings Panel**, **Quick Settings Menu**, and **Notification Drawer** become unreachable.

DOZE MODE

"**Doze Mode**" is enabled by default.

Please refer to https://developer.android.com/training/monitoring-device-state/doze-standby for details.

PHYSICAL KEYPAD SOUND

To select the physical keypad sound from the drop-down window.

The default setting is "**None**".

DISABLE SPECIAL KEYEVENT

"**Disable Special KeyEvent**" is only for RK25 mobile computer to disable the special keycode (which is not defined by Android) sent by pressing **Function Key**, **Alpha Key**, and **Trigger Keys**.

The default setting is off.

CHANGE BLUE KEY INPUT METHOD

"**Change Bblue key input method**" is only for RK25 mobile computer to change input mode of the physical keypad. By enabling this function, you can cycle through **Alpha Numeric Mode**, **Alpha Lowercase Mode**, and **Alpha Uppercase Mode** with simply pressing **Alpha Key** (the blue key).

CONVERT UHF EPC TO ASCII

"**Convert UHF EPC to ASCII**" is only for RK25 mobile computer to work with RK25 UHF RFID Reader to convert the EPC code (hexadecimal) to ASCII code under the following conditions:

▶ All the decoded EPC code (hexadecimal) corresponds to ASCII code must be visible characters. If not, the EPC code would not be converted and remaind as hexadecimal values.

▶ If the last two values are 00, the 00 will be deleted and then the EPC code is converted to ASCII code, e.g. the decoded EPC code is 3538355959504a5442434900, and it becomes ASCII mode EPC "585YYPJTBCI" after being converted.

3.14.1. ENTERPRISE SETTINGS ON RK95 COLD CHAIN MODEL

Except of "**Physical keypad sound**" and "**Doze Mode**", the followings are the functions only for RK95 Mobile Computer Cold Chain Model to control the heater.

☑ Enable

Heater	
Automatic	

☑ Pre-Heat

Defrost Sensitivity   Medium ▼

☑ Scan Window Defrost

Duration (3)

☐ LCM Defrost

Duration (3)

☑ Enable

Heater	
Manual	

☐ LCM Heater
☐ Window Heater

ENABLE

"**Enable**" is to turn on the heater for monitoring the temperature of the device and the heaters. Please turn on or turn off the heaters depends on the real operating environments.

AUTOMATIC

Click to switch the heater mode between "**Automatic**" and "**Manual**".

If the heater mode is set to be "**Automatic**", the heater(s) on device automatically turns on and off to defrost in response to the temperature change.

Setting	Description
Pre-Heat	Check to enable "**Pre-heat**" mode to shorten the defrost time.
Defrost Sensitivity	"**Defrost Sensitivity**" is inflexible to be "**High**" if "**Pre-heat**" mode is on while it is configurable when "**Pre-heat**" mode is off. Turn off "Pre-heat" mode and then set the sensitivity by selecting from **Low**, **Medium**, and **High** for triggering the heater.
Scan Window Defrost	Check to automatically turn on and turn off the heater to defrost the scan window.
Duration	If "**Scan Window Defrost**" is enabled, you can further set "**Duration**" which is the time period that the scan window keeps defrosting. The time unit is minute, and the default duration is 3 minutes.
LCM Defrost	Check to enable the heater to be automatically on and off to defrost the device display.
Duration	By enabling "**LCM Defrost**", "**Duration**" can be set to specify the time period that the device display keeps defrosting. The time unit is minute, and the default duration is 3 minutes.

MANUAL

When heater mode is set as "**Manual**", both "**LCM Heater**" and "**Window Heater**" need to be activated respectively.

Note:

The detailed instruction about Enterprise Settings for RK95 mobile computer, please refer to [RK95 Mobile Computer Cold Chain UI Introduction](#).

3.15. SIP CONTROLLER

"**SIP Controller**" is a built-in application on device for quickly open or close virtual keyboard by tapping on the floating button.

Setting	Description
Enable	Check "**Enable**" to make the virtual button of "**SIP Controller**" to appear on device screen.
Size	Slect the size of **SIP Controller** virtual button from "**Tiny**", "**Small**", "**Medium**", and "**Large**". The default setting is "**Small**".
Auto start SIP controller after startup	By checking "**Auto start SIP controller after startup**", SIP Controller will automatically start up on device boot up.
Force to display	Invoke the virtual keyboard even without the input field.
Virtual Keyboard 1	Set the keyboard(s) to be invoked by **SIP Controller**. "Virtual Keyboard 1" and "Virtual Keyboard 2" can be cycled through by tapping on the **SIP Controller** virtual button on device.
Virtual Keyboard 2	

3.16. CUSTOMIZE

"**Battery Sensor**" is only for RK25 mobile computer to detect whether the battery (which is with the battery cover) is removed.

Once you disable "**Battery Sensor**", battery hot swap becomes unavailable.

3.17.ADVANCED SYSTEM SETTINGS

"**Advanced System Settings**" is to set how to update the OS Image of your device(s) and to decide whether to back up the settings to prevent the settings to be erased when carrying out factory reset on device.

UPDATE OS IMAGE

To select how to update the OS Image of your device(s).

Setting	Description
Disable	To disable the execution of OS update on the device(s) for "**Zip file in SD card**" and "**Activate System Update (OTA)**".
ZIP file in SD card	To browse your PC to find the OS image file to be deployed to the device(s) for upgrade. Remember to check that the .zip file should be "**sdupdate.zip**" in its file name. This file will saved onto the folder "**sdupdate**" of your SD card, and please make sure there is enough space on this SD card.
ZIP file from URL	To give the specific URL for the device(s) applied this project to download the OS image for upgrate.
ZIP file from FTP	The device(s) applied this project will download the OS image for upgrate from the designated ftp server. Make sure the FTP format you enter is in the correct form as example: **ftp://[User name]:[Password]@[ServerIP]:[Port][File Location]**
Activate System Update (OTA)	Upon completion of deployment, the device will automatically check the latest OS image available over the Internet. Please make sure the selected devices are capable of accessing Internet.

MISCELLANEOUS

To check "**Backup ADC files to Hidden Partition**", the device will erase all the data except of the settings backed up in enterprise partition by ADC upon execution of "**Erase all data (factory reset)**" .

Chapter 4

APPLY CONFIGURATION TO DEVICE

ADC provides 3 ways to apply the configuration to your mobile computers, including conveying the settings to the connected device, creating a download link of the project (from Google Drive or other cloud storage) for the devices to download and apply, and generating settings barcodes to be scanned by the devices. All the above aforesaid methods help you to easily configure all your mobile computers.

IN THIS CHAPTER

4.1. DEPLOY ALL SETTINGS TO DEVICES

User can convey the project settings to the device which is connected with your PC where ADC program is installed. Once you finish configurating all the settings of a project, follow the steps to proform the deploying:

1) Connect your devices with your PC. Please make sure that the debugging mode is enabled. (Please refer to How Do I Enable Debugging Mode on My Device?)

2) Check the "**Specify your deployment task(s)**" part to confirm the settings to be deployed to your device.

3) Click the "**Deploy** ▶ " button on **Toolbar**.
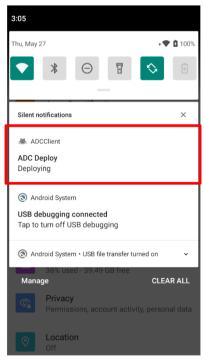
4) Deployment starts, and ADC main screen shows the progress bar about the deployment. You can check the progress from Notification Drawer on your device as well.

‣ **Progress Bar on ADC**

‣ **Progress Notification on the Device**

5) After completing the deploying, a notification is shown on your device.

ADCClient

V1.3.01, Finish(FAIL)
SetSettingAll

4.2. COMPRESSED FILE ON GOOGLE DRIVE
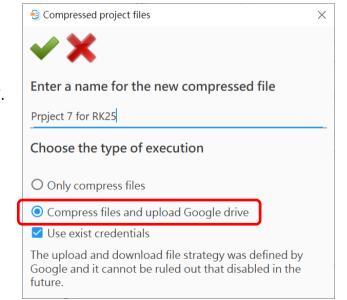
The project settings can be uploaded to your Google Drive for your device((s) to download and apply.

4.2.1. UPLOAD THE COMPRESSED PROJECT FILES TO GOOGLE DRIVE
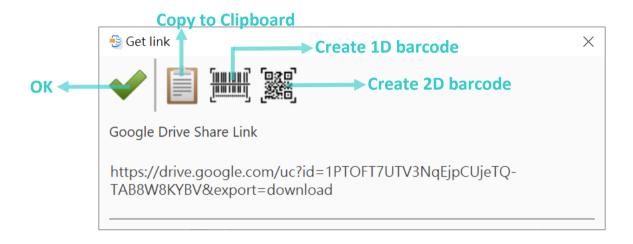
On Main Screen, the "**Compressed project files** " button on **Toolbar** to open "**Compressed project files**" window.

Enter the file name, choose "**Compress files and upload Google drive**", select whether to "**Use exist credentials**", and click on "**OK** ".

After processing, the "**Get link**" window shows up. Click to select whether to generate the download link to be "**1D barcode** " or "**2D barcode** ".

Note: The Please refer to **Compress files and upload Google drive** for the specific steps.

The barcode(s) is generated in .pdf file format and saved in the subfolder of this project folder.

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4.2.2. SCAN BARCODE(S) TO DOWNLOAD PROJECT FILE FOR APPLY SETTINGS

Open the .pdf file and scanned the barcode(s) by the device(s) to be set. Before you start, make sure your device has Internet connection.

BARCODE TO SETTING

Launch the application "**BarcodeToSetting**" on the device to be set.

BarcodeToSetting

Please Scan Barcode

Number of barcodes :

Next barcode :

Number of remaining barcodes :

Result

- - - -

CLEAR DATA

EXIT

Ver : 1.0.8.7

The items shown on **BarcodeToSetting** main screen are:

Item	Description
Number of barcodes	The total amount of the barcodes to be scanned.
Next barcode	The item number of the next barcode to be scanned.
Number of remaining barcodes	The amount of the remaining barcodes to be scanned.
Result	The setting result will be "**PASS**" or "**FAIL**"
CLEAR DATA	Clear the data of the barcode(s) you just scanned.
EXIT	Close and leave the application "BarcodeToSettings".

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Aim the scan window at the barcode you just generated and press the trigger to read the barcode.

It takes few seconds for your device to download and apply the configuration after scanning the barcode(s). Configuration is complete with the result shows "**PASS**".

On your device, swipe down from the status bar to reveal Notifications Drawer, and you can find the notification from ADCClient:

4.3. APPLY YOUR SELECTED CONFIGURATIONS

You can export certain configurations from **ADC** to your devices without USB connection.

Please note that if you select those settings with " **URL**" , your device(s) to be applied must have Internet connection.

4.3.1. GENERATE THE SETTING BARCODE

To output the selected settings to be barcode(s):

1) Open "**Configure Device Setting**" window, and depending on the barcode type to be generated, click on the button "**Create 1D barcode**" or "**Create 2D barcode**" on the tool bar.

2) Go through every tab page to switch on the settings to be exported. You can export all your demand settings available for generating barcodes at one time.

Please note that the settings are still configurable in this step.

3) Click on "**Create PDF file**   " button to generate the barcode(s) which will be immediately saved in PDF file format with the file name as the project name.
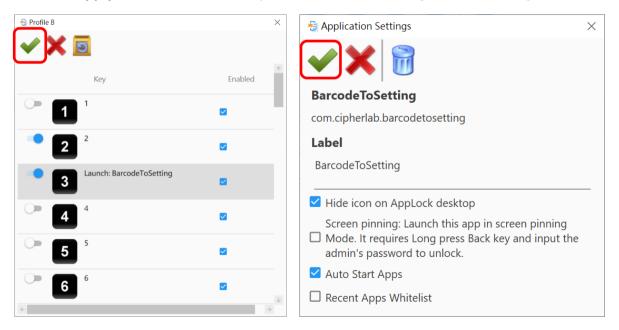
CONFIGURE THE SETTINGS TO BE EXPORTED

After "**Create 1D barcode** ⬛" or "**Create 2D barcode** ▦" is clicked, you can select the exported settings by switch, and during this process, all the settings can be configured.
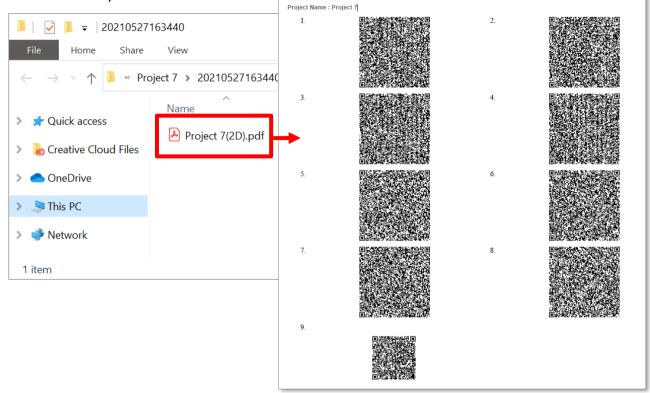
For those settings which invoke the windows for more detailed configurations, make sure to click on "**Apply** ✔" button to save your selection and change before closing the window.

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4.3.2. APPLY THE SETTINGS BY BARCODE TO SETTING
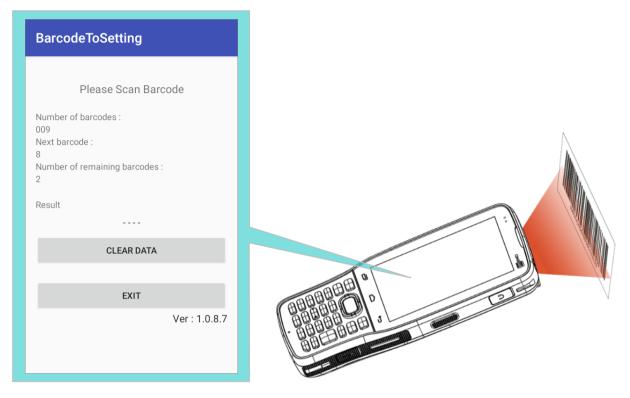
Open the .pdf file which contains the barcode(s) you generated, and printed the barcode(s) out if necessary.

Launch the application "**BarcodeToSetting**" on the device.

Item	Description
Number of barcodes	The total amount of the barcodes to be scanned.
Next barcode	The item number of the next barcode to be scanned.
Number of remaining barcodes	The amount of the remaining barcodes to be scanned.
Result	The setting result will be "**PASS**" or "**FAIL**"
CLEAR DATA	Clear the data of the barcode(s) you just scanned.
EXIT	Close and leave the application "BarcodeToSettings".

Aim the device scan window at the barcodes, and press the trigger to sequentially scan to apply the configurations.

As the result on **BarcodeToSetting** shows "**PASS**", it indicates that the configurations of your devices is complete.

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4.4. DEPLOY FROM URL

To apply your project settings to the device by downloading the project .zip file from the cloud storage other than Google Drive, you can generate the setting barcode by "**Deploy From URL**".

4.4.1. CREATE ADC ZIP FILE

"**Deploy From URL**" is to deploy the ADC Project Settings to the devices by downloading the .zip file of the project from your cloud storage. Hence, you have to save your ADC project as a zip file in advance.

To create ADC zip file, you may:

COMPRESS PROJECT FILES

Load the project you'd like to deploy, and click on "**Compressed project files** " on ADC main screen toolbar to save the current project to be a .zip file.

Enter the file name, choose "**Only compress files**", and click on "**OK** ✔".

The current project will be saved as a .zip file to the folder of this project on your PC.

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SAVE CURRENT PROJECT TO SD CARD

SD card or the USB disk is required for saving the project settings exported from ADC.
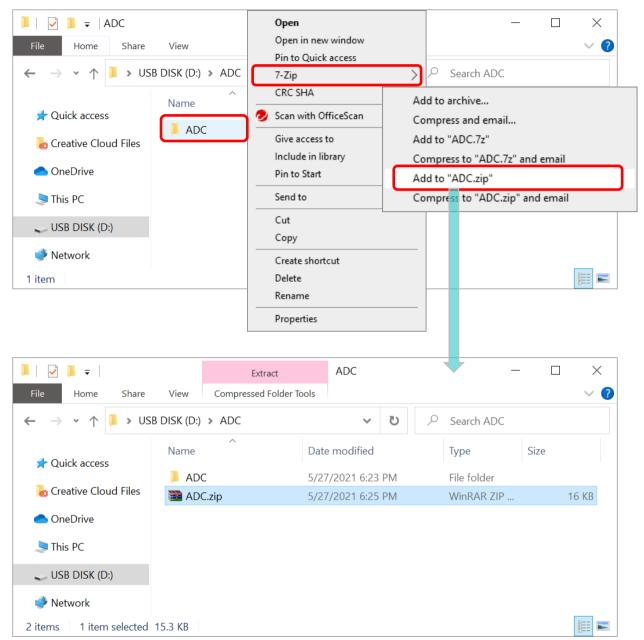
Click on "**Save current project to SD card** " on ADC main screen toolbar, and select the drive (SD card or USB disk) you would like to save this project.

The current project will be saved as a folder with the name "**ADC**" onto the SD card or USB disk.

Right-click on this ADC folder, and select the function from the menu to compress the folder in zip.
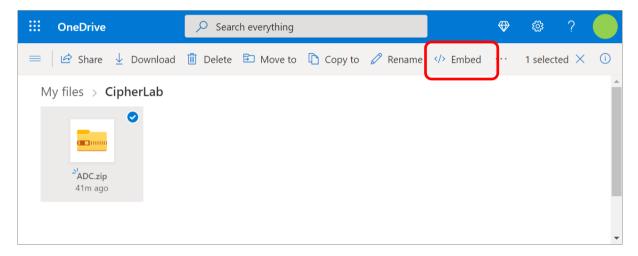
4.4.2. CREATE THE URL

Upload the ADC project zip file to your cloud storage and then create a link for "**Deploy From URL**".

The followings take **OneDrive** and **Dropbox** for examples:

ONEDRIVE
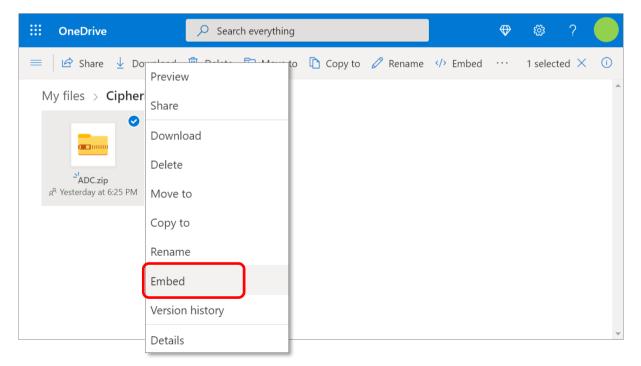
1) In your OneDrive folder where the zip file located, click to select the file "**ADC.zip**" and then click on "**Embed**".
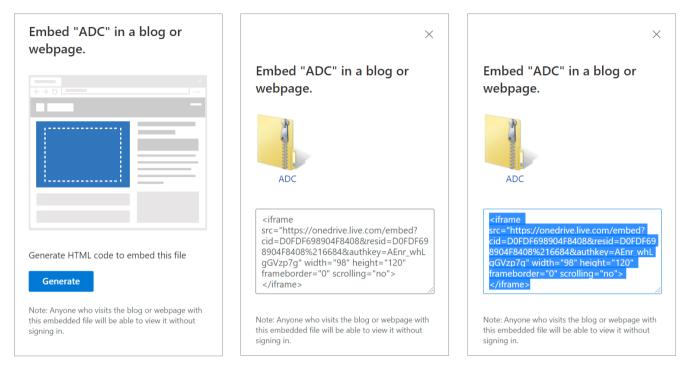
OR
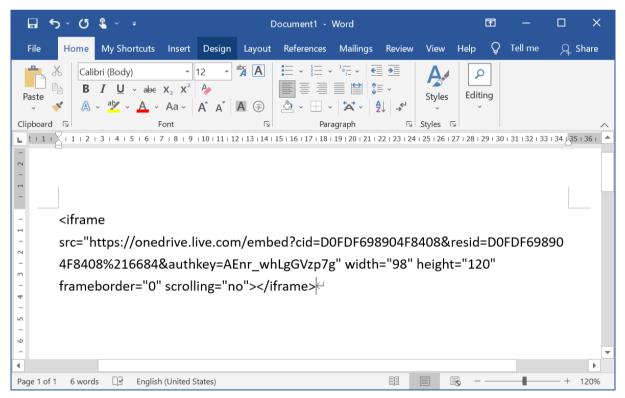
Right-click on this zip file to open a menu and then select "**Embed**".

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2) Click on "**Generate**" to get a code.

3) Copy and paste the code displayed on OneDrive into any file or field where you can edit it.

4) Extract the address from the code.

5) Replace the word "**embed**" with "**download**", and save this URL for "**Deploy From URL**".

DROPBOX

1) Upload the file "**ADC.zip**" you onto your Dropbox.

2) Click on the more button next to "**ADC.zip**" to open the menu, and select "**Share**".

3) Click on "**Create then copy link**" on the popup window.
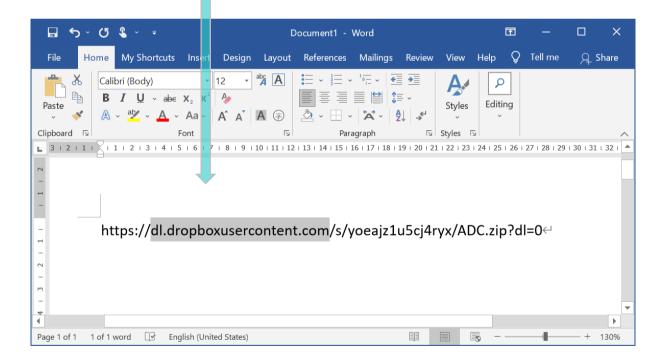
4) Paste the link you just copied into a text editor.

5) Replace "**www.dropbox.com**" with "**dl.dropboxusercontent.com**", and save this URL for
   "**Deploy From URL**".

4.4.3. GENERATE 2D BARCODE FOR DEPLOY WITH BARCODE

1) Click on "**Customize Android Setup Wizard** " on ADC main screen toolbar.

2) In "**Customize Android Setup Wizard**" window, tick the checkbox of **Wi-Fi** and set up the Wi-Fi connection. Then enter the URL of the .zip file on your cloud storage to the field of "**Deploy From URL**".
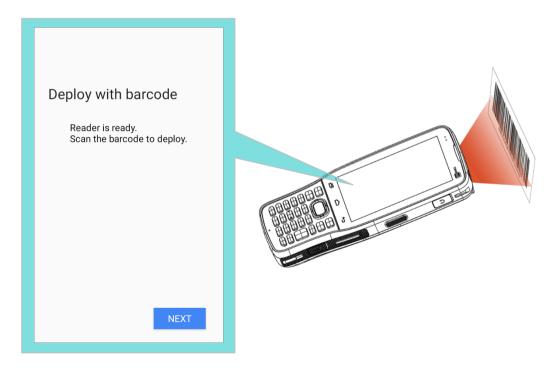
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3) Generate the setting barcode by "**Create 2D barcode** ". The barcode will be saved in PDF file format in the current project folder.

4) Open this .pdf file and print it out if necessary.

Boot up the device(s) to run setup wizard, and press the trigger to scan the 2D barcode in the step of "**Deploy with barcode**". The device will download and apply the ADC project settings automatically.

Chapter 5

MULTI-LANGUAGE SUPPORT

Other than the default interface languages, you can customize your own language file and apply it to this program.

IN THIS CHAPTER

5.1. CREATE YOUR OWN LANGUAGE FILE

To create your own language file:

1) Click on "**Preferences** ⚙ " on ADC main screen toolbar to open "**Preference**" window.

The buttons for editing display language(s) are:

▶ ➕ **Add**

Add a new display language.

▶ ✏ **Edit**

Edit the selected display language (system languages are excluded).

▶ 🗑 **Delete**

Delete the selected display language (system languages are excluded).

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2) Click on "**Add**" to create your own display language. **English**, **Japanese** and **Chinese** are all system default languages, to which you are not allowed to make modifications.

3) On "**Edit Language**" window, select the listed item whose wording you would like to modify. The default wording is shown on the left while the one on the right is for editing into your language. Input the text in the edit box.

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4) In order to locate your desired item, you can change the alphabetical order of the entries or make use of the **Quick Search** box.

5) Select a label for your language from the drop-down menu on the lower-left and click on "**Apply** ✔ ", you will have new option(s) for the display language.

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The toolbar buttons in "**Edit Language**" window are as below:

Setting	Description
	Apply: Click "**Apply**" button to save all the wording you edit. Please note that you need to select your edit language from the drop-down menu before applying. The "**Edit Language**" window will be closed once the setting is saved.
	Cancel: Click "**Cancel**" button to directly close the "**Edit Language**" window without saving any setting changes.
	Ascending: To display the default wording (English) in alphabetical order from A to Z.
	Descending: To display the default wording (English) in alphabetical order from Z to A.
	Reset: Reset all the language editing changes to default.

5.2. EDIT YOUR OWN LANGUAGE FILE

You can edit and delete a customized language file.

1) Click on "**Preferences** " on Toolbar.

2) Choose the language tag. Click on "**Delete**" to remove it or click on "**Edit**" to modify its content.

▸ **Add**

Add a new display language.

▸ **Edit**

Edit the selected display language (system languages are excluded).

▸ **Delete**

Delete the selected display language (system languages are excluded).

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‣ **Save**

Save the settings and close the "Preference" window.

‣ **Cancel**

Directly close the "Preference" window without saving any change

3) Make sure to click on "**Save** " to save your settings.