

Flashing Guide

Rope Charger Controller (Nuvoton)

Please completely read this document and the contained safety instructions and note all given information before usage.

Please maintain this flashing guide's confidentiality. It is intended solely for usage by people professionally associated with the product. If you are not the intended recipient, you may not disclose or use the information in this documentation. The information does not constitute an offer or solicitation to buy or sell any security.

This flashing guide's text and illustrations have been meticulously crafted. However, we may not be held accountable for any discrepancies or failures.

Some company and label names are protected by a label, a patent, or a trademark.

Copyright ©

Address: Bacancy Systems PVT LTD,
15-16, Times Corporate Park,
Near Thaltej-Shilaj Road,
Opp. Copper Stone Flats,
Thaltej, Ahmedabad,
Gujarat, India, 380059

Website: www.bacancysystems.com

Email: systems@bacancysystems.com

Phone: +91 90160 28817

All rights reserved, including disposal, exploitation, reproduction, editing, distribution, and utilisation of intellectual property rights.

Liability

The given data is primarily for product description reasons and should not be considered a guaranteed characteristic unless specifically stated in the contract. All rights are retained with regard to the content of this documentation and the availability of the product.

DISCLAIMER

The product, product data, and any of its specifications are subject to change without notice. Bacancy Systems PVT LTD, its employees, and all persons acting on its behalf shall not be liable for any errors, inaccuracies, or incompleteness that occur if the methodology contained herein or in any other revelation of the product is not followed. The product specifications alter or amend neither the terms nor conditions of purchase nor the warranty expressed therein.

Bacancy Systems PVT LTD offers no warranty, representation, or guarantee other than as set forth in the terms and conditions of purchase. To the maximum extent permitted by applicable law.

Bacancy Systems PVT LTD, disclaims

- (i). Any and all liability arising out of the application or use of any product.
- (ii). Any and all liability, including, without limitation, special, consequential, or incidental damages.
- (iii). Any and all implied warranties, including those of merchantability, fitness for a specific purpose, and non-infringement.

The information provided in manuals and/or specifications may differ from actual results in different circumstances, and efficiency may change over time. Statements on a product's appropriateness for a certain application are based on Bacancy Systems PVT LTD's understanding of standard demands that are frequently put on Bacancy Systems products. It is the customer's obligation to determine whether a given Bacancy Systems product with the features mentioned in the product specification is appropriate for use in a specific application.

The product shown herein is not designed for use in life-saving or life-sustaining applications unless otherwise expressly indicated. Customers that utilise or sell Bacancy Systems products that are not explicitly intended for such applications do so solely at their own risk.

This flashing guide is intended to improve the operator's efficiency throughout the procedure and does not entirely absolve them of responsibility.

Change Record

Rev. No.	Date	Details	Revised By	Approved By
1	20/03/2026	Initial Release	Anil Rathod	Samir Bhatt
2	05/05/2026	Revised Email Address	Rajkumar Patel	Samir Bhatt

Table of Contents

1	Intended Use	8
1.1	Alteration and Restoration of the Product or System.....	8
2	Procedure	9
2.1	Pre-requisites	9
2.2	Hardware Connection	9
2.3	Flashing Firmware	11

List of Figures

Figure 1 Hardware connection: RFID or LED module with Nuvoton flasher.....	9
Figure 2 FRC cable connection with the AC charger Controller.....	10
Figure 3 Pin connection between the FRC cable and the AC charger controller.....	10
Figure 4 Select the “MCU Series of Tool”.....	11
Figure 5 Click the “Continue” button.....	11
Figure 6 Click the “Connect” button.....	12
Figure 7 The chip connection with flasher application status.....	12
Figure 8 Click the “APROM” button.....	13
Figure 9 Select a binary file and click the “OK” button.....	13
Figure 10 Click the “OK” button to confirm.....	14
Figure 11 Click the “OK” button to confirm programming flash.....	14


List of Tables

Table 1 Programming Header Pin Configuration 9

1 Intended Use

This flashing guide will lead you through the general approach for flashing firmware for Rope charger controller using Nuvoton application.

Furthermore, the user can contact our team to resolve their issue by using the contact information provided on the last page.

WARNING!	Risk caused by inappropriate use!
	Any unconventional usage or operation of the product may have unintended repercussions. <ul style="list-style-type: none">• Only use the product in a conventional manner.

1.1 Alteration and Restoration of the Product or System

To prevent risks and ensure optimal performance, no alterations, attachments, or restoration of the product are permitted without explicit authorisation of Bacancy Systems PVT LTD.

2 Procedure

2.1 Pre-requisites

- Nuvoton flasher
- Flashing utility (Numicro ICP Programming Tool 3.22)

2.2 Hardware Connection

To connect the Nuvoton flasher to the Rope charger controller, use the FRC cable shown in the figure below.

Table 1 Programming Header Pin Configuration

No.	Programming Header Pin Configuration	Details
1	Pin 1	VCC
2	Pin 2	Data
3	Pin 3	Clock
4	Pin 4	Reset
5	Pin 5	GND

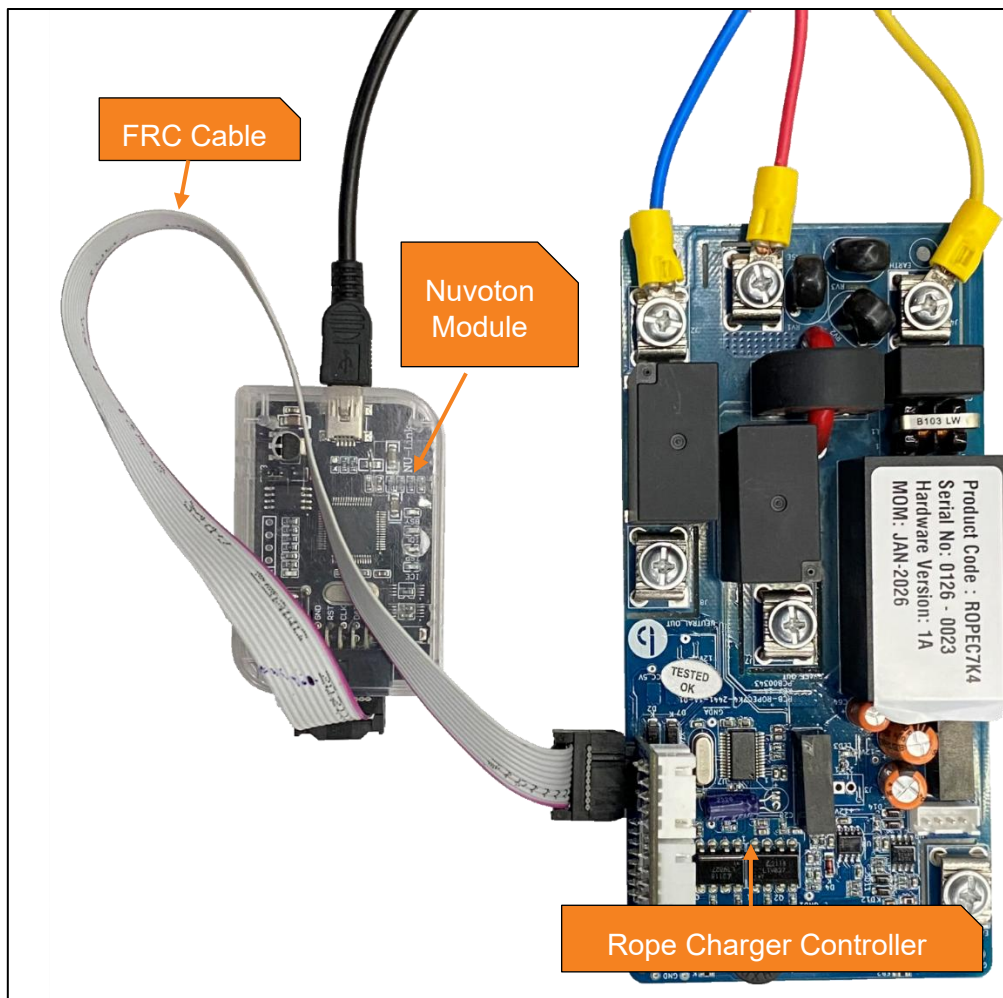


Figure 1 Hardware connection: RFID or LED module with Nuvoton flasher.

- Pin Connection between the rope charger controller and Nuvoton flasher.

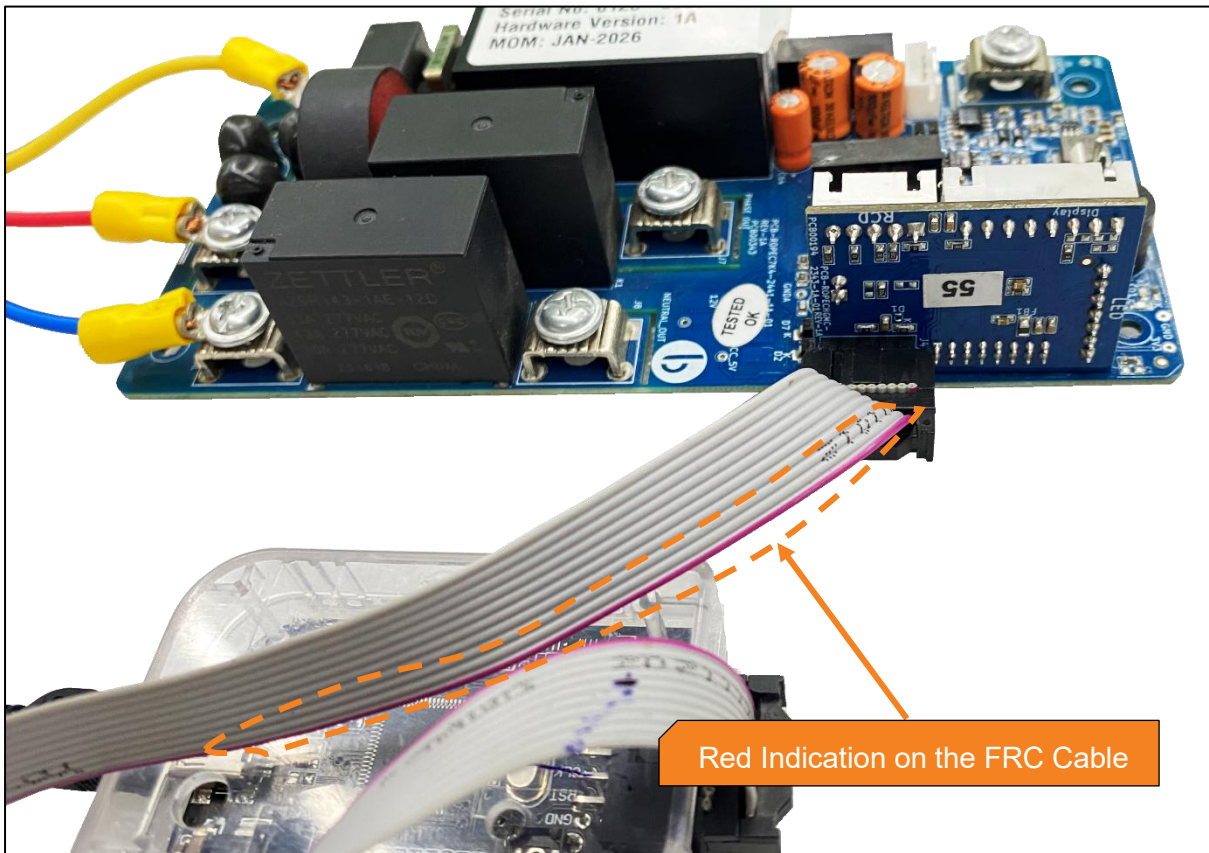


Figure 2 FRC cable connection with the AC charger Controller

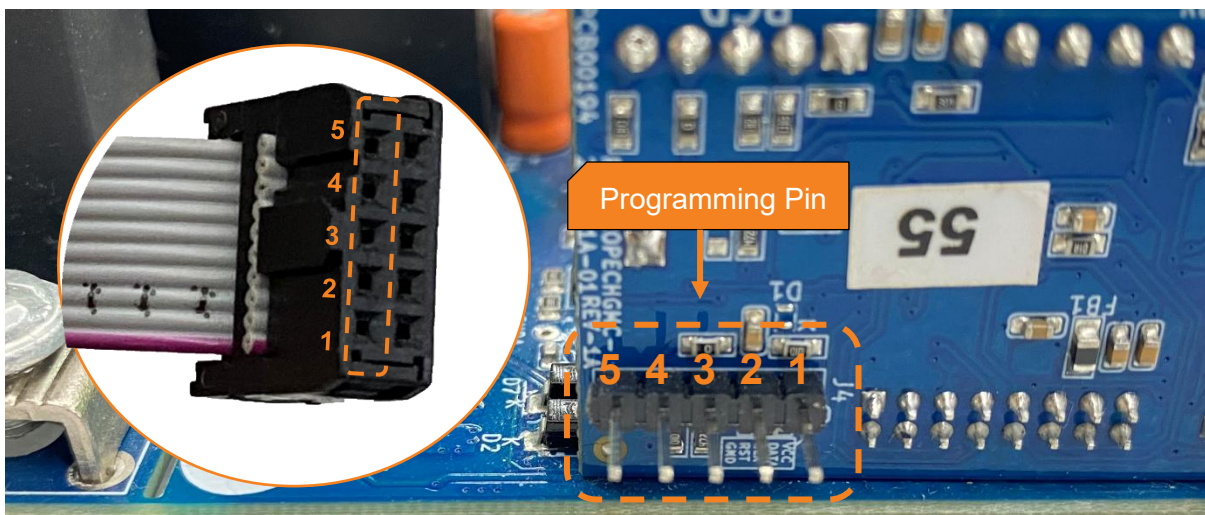


Figure 3 Pin connection between the FRC cable and the AC charger controller.

2.3 Flashing Firmware

Follow these procedures to flash firmware using the Nuvoton application:

- Step 1.** Connect the Nuvoton flasher to your PC or laptop.
- Step 2.** Download Nuvoton Numicro ICP Programming Tool 3.22 from the links provided here: [Download the Numicro ICP Tool 3.22](#)
- Step 3.** Install Nuvoton Numicro ICP Programming Tool 3.22.
- Step 4.** Open the application on your PC or laptop.
- Step 5.** Select the “8051 1T Series” from the MCU Series of tools.



Figure 4 Select the “MCU Series of Tool”.

- Step 6.** Click the “continue” button.



Figure 5 Click the “Continue” button.

Step 7. To connect the chip to the flasher application, just click the “Connect” button.

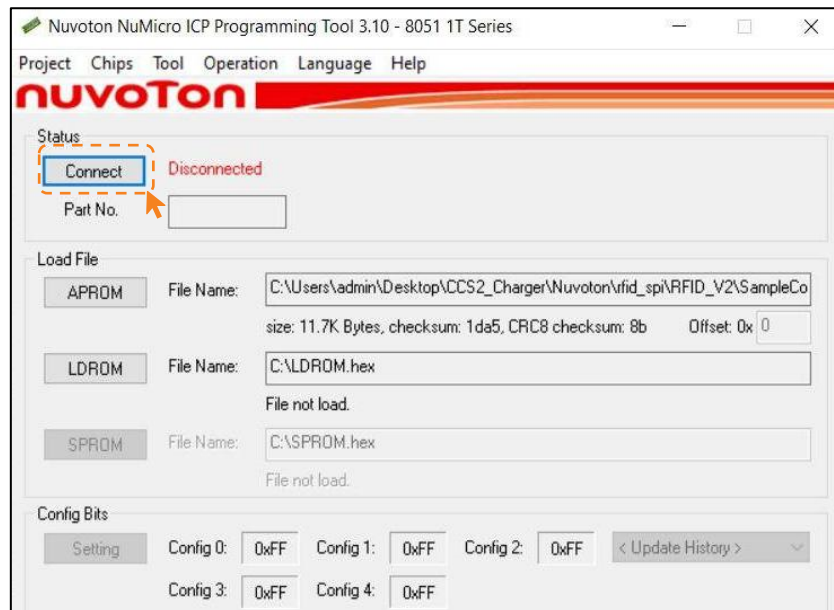


Figure 6 Click the “Connect” button.

Step 8. After properly connecting the chip to the flasher application, the details will appear on the screen.

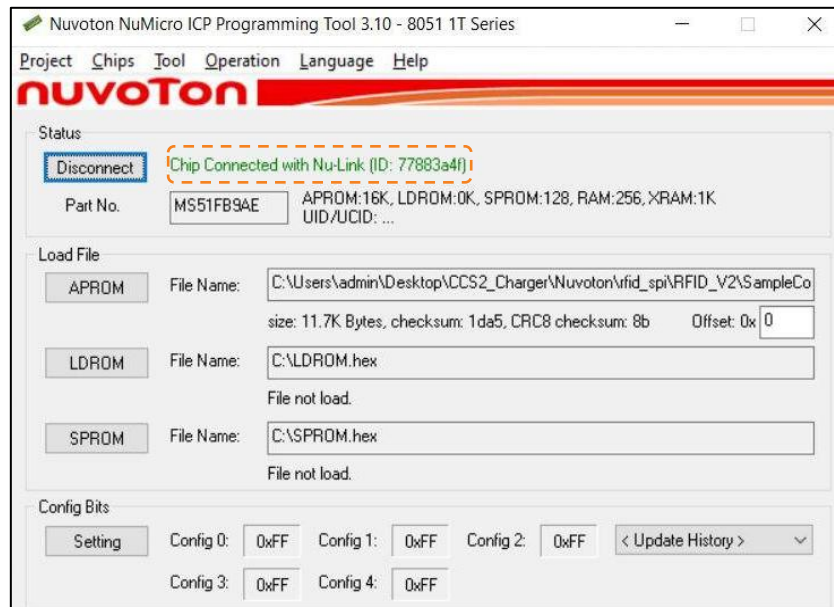


Figure 7 The chip connection with flasher application status.

Step 9. Click the “APROM” button to load the “.hex” extension file.

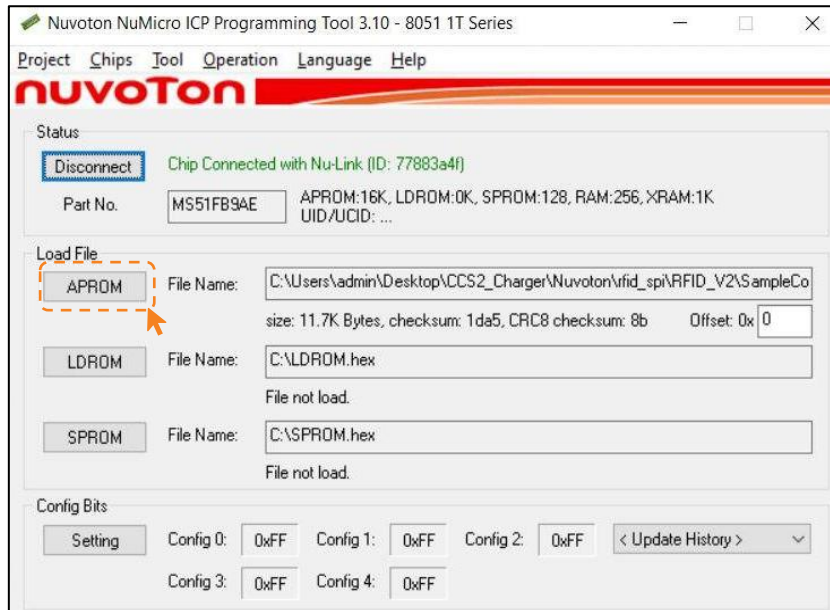


Figure 8 Click the “APROM” button.

Step 10. Here, the user must select a “.hex” extension (binary) file given by Bacancy Systems and click the “Open” button.

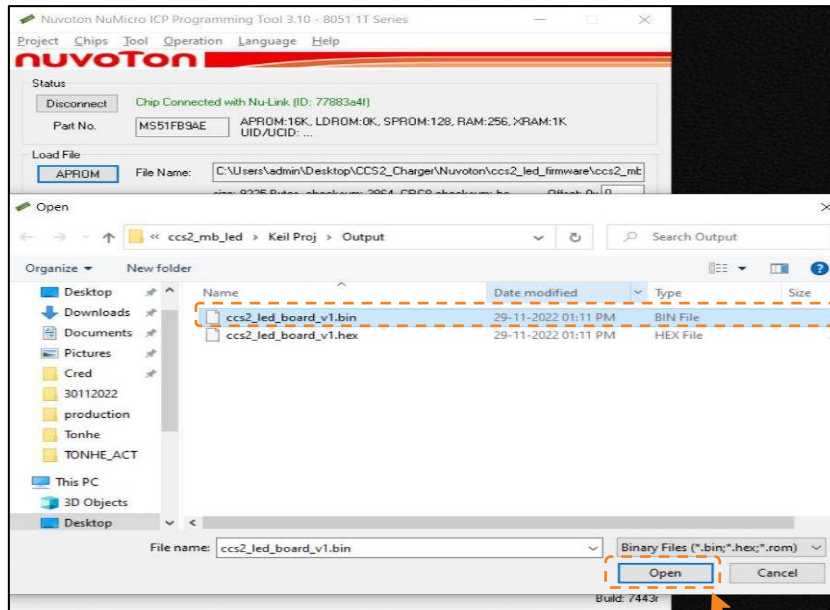


Figure 9 Select a binary file and click the “OK” button.

Step 11. After correctly uploading a file, you will receive a pop-up requesting confirmation; click the “OK” button.

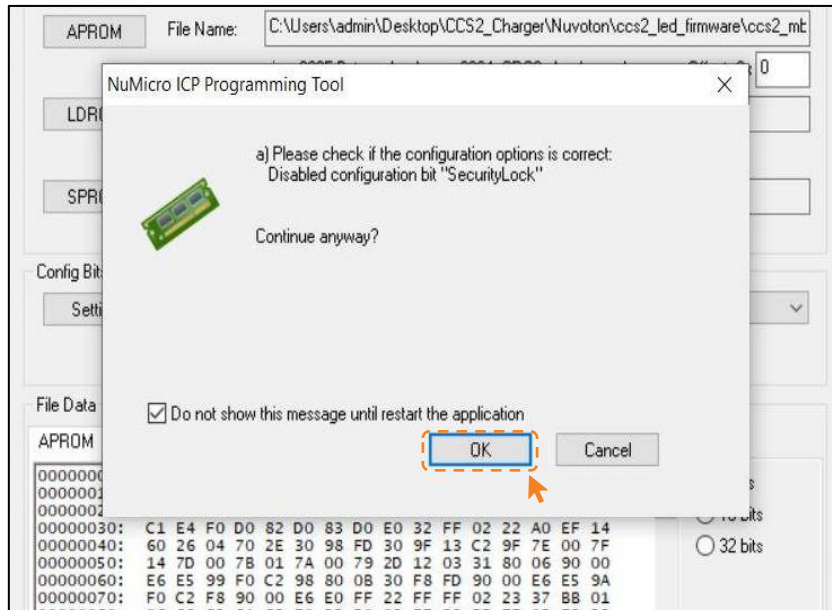


Figure 10 Click the “OK” button to confirm.

Step 12. Following successful confirmation, you will receive another pop-up indicating that your Nuvoton Flash is in a programming state. To successfully start the flashing procedure, click the “OK” button.

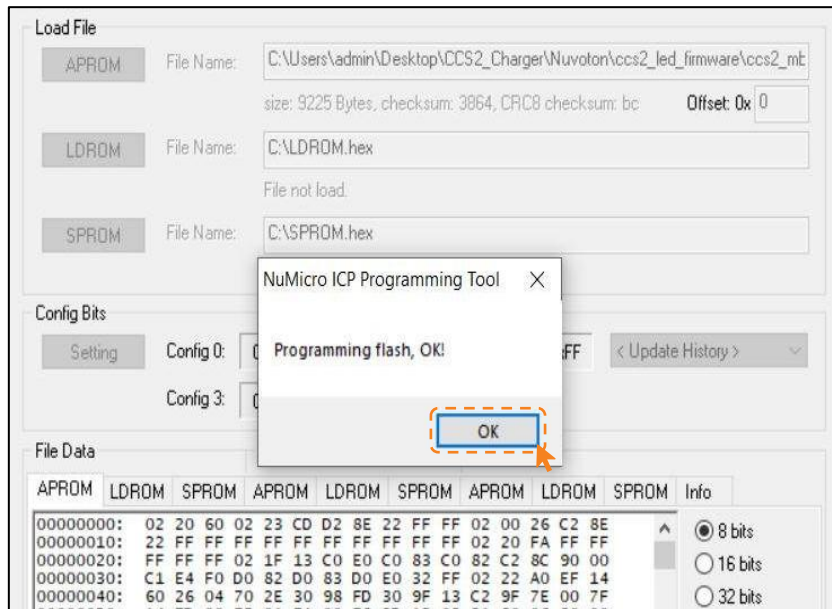





Figure 11 Click the “OK” button to confirm programming flash.

 **Bacancy Systems PVT LTD,**
15-16, Times Corporate Park,
Near Thaltej-Shilaj Road,
Opp. Copper Stone Flats,
Thaltej, Ahmedabad,
Gujarat, India, 380059

 www.bacancysystems.com

 systems@bacancysystems.com

 +91 90160 28817

 **Helpdesk:** <https://bacancy.freshdesk.com/a/dashboard/default>