

Firmware Update Guide

CCS2 EV Simulator

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

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This firmware update 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	28/08/2025	Initial Release	Shivam Shah	Vivek Vasavada
2	05/05/2026	Revised Email Address	Rajkumar Patel	Vivek Vasavada

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1 Intended Use

This firmware update guide is designed to help users update the firmware on the CCS2 EV Simulator. It specifically supports the firmware of the simulator and the HMI (Display) firmware, which share similar firmware update procedures and hardware interfaces. The guide outlines a standardised approach for ensuring reliable and consistent firmware update procedures across the upcoming updates.

Furthermore, users can contact our team to resolve their issues 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

A firmware update is essential to ensure that the CCS2 EV Simulator operates optimally. Please read the safety precautions carefully before proceeding with the firmware upgrading procedure.

MANDATORY	Read Firmware Installation Procedure
	To get an understanding of the procedure, the user should pay careful attention to the upgrade procedure.

WARNING!	Risk of void for warranty and its services
	Inappropriate handling of the product may result in the voiding of the warranty for the product or its services.

NOTE!	Firmware installation files
	The technical support team of Bacancy Systems will provide the latest version of the firmware installation/updated files.

- **Prerequisite**

Table 1 Pre-Requirement Tool / Equipment.

No.	Tool / Equipment	Source / Responsibility
1.	PC / Laptop (Windows 10/11 64-bit)	User
2.	USB Pen Drive up to 32 GB	User
Firmware Files		
3.	1. Simulator Firmware <i>(SimulatorApp.bin and SimulatorApp.md5)</i> 2. HMI Firmware (<i>mtip</i>)	Bacancy Systems

2.1 Prepare the USB Drive

Step 1. Connect the USB pen drive to your PC or laptop.

Step 2. Open “This PC” from the desktop or Start menu.

Step 3. Locate the USB Pen Drive icon. Right-click on the “USB Pen Drive” icon to open the menu and select the “format” icon.

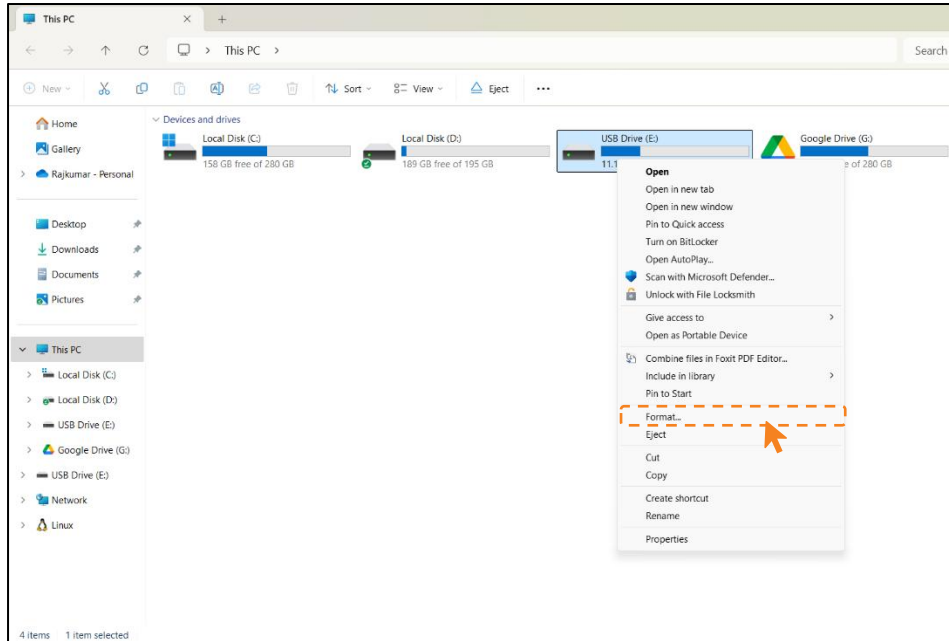


Figure 1 Select the “Format” from the menu.

Step 4. In the Format Drive dialogue box, select “FAT32” as the file system.

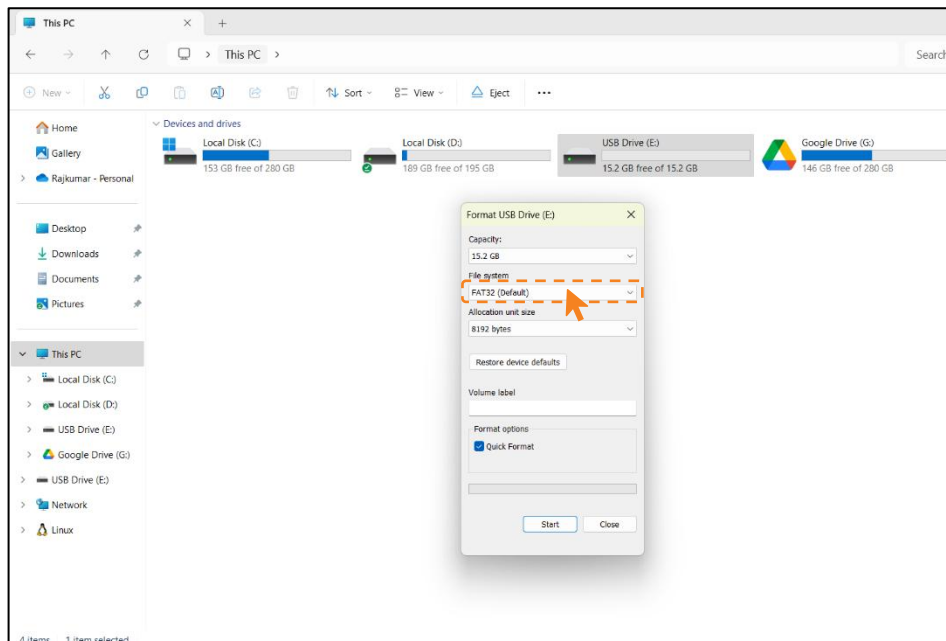


Figure 2 Select the “FAT32” as a File System.

Step 5. Click the “Start” icon to begin the formatting process.

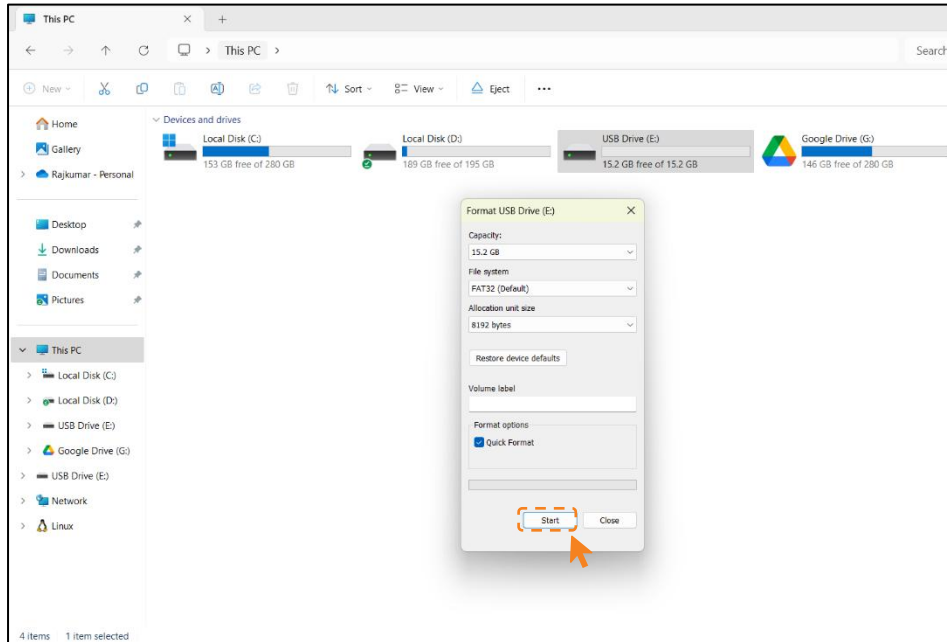


Figure 3 Click on the “Start” Icon to Start the Format data.

Step 6. When a warning message appears indicating that all data will be erased, click the “OK” icon to confirm.

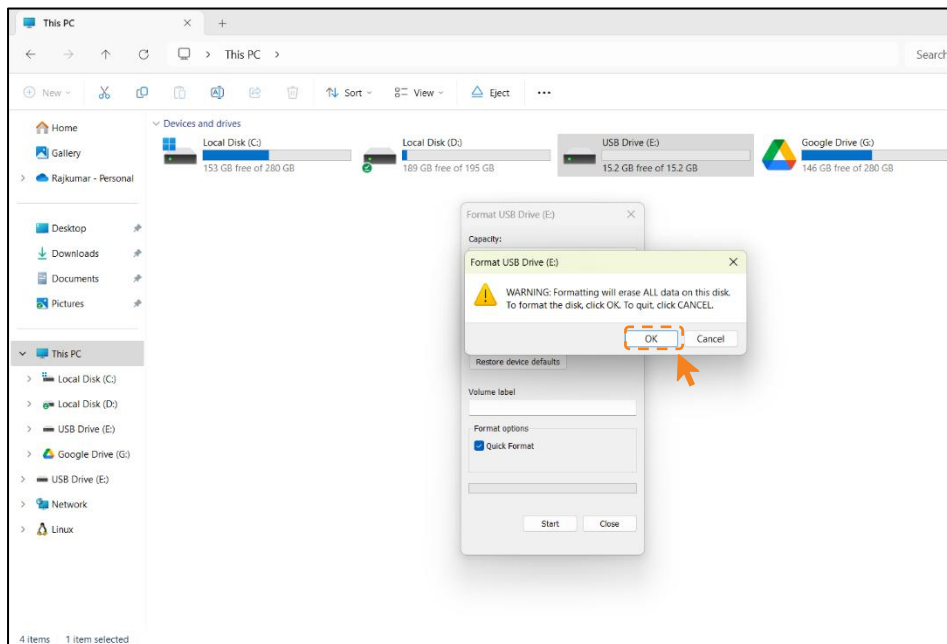


Figure 4 Click on the “OK” Icon to Format the Data.

Step 7. Wait until the formatting process is complete. When the message Format Complete appears, click the “OK” icon.

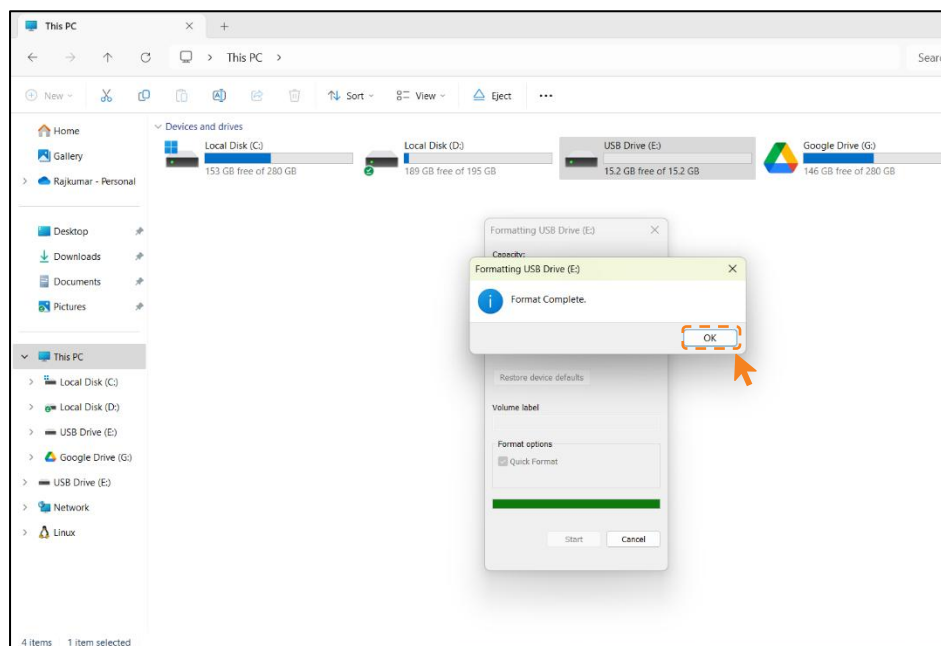


Figure 5 Format Completion Message Appears, Click “OK” Icon.

Step 8. Copy the required files onto the USB pen drive.

Step 9. Once the files have been successfully copied, safely eject the USB pen drive from the PC or laptop.

2.2 Simulator Firmware

Step 1. Copy both of the following files to the USB pen drive:

- SimulatorApp.bin
- SimulatorApp.md5

Step 2. Connect the power cord to the simulator and switch “ON” the simulator.

Step 3. Insert the USB pen drive into the “USB1” port on the simulator panel.

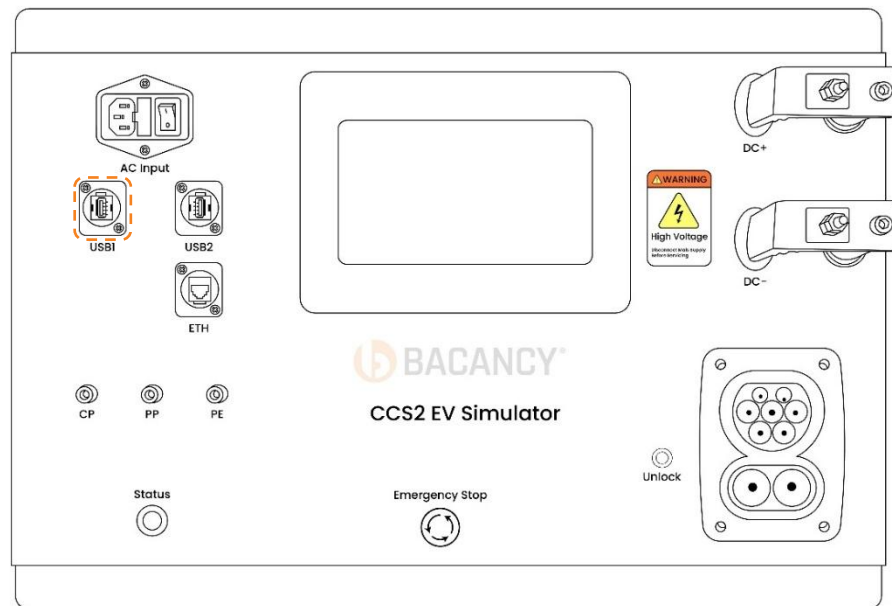


Figure 6 Insert a USB pen drive into the USB 1 Port.

Step 4. Restart the simulator by switching the power “OFF”, waiting at least 3 seconds, and then switching it back “ON”.

Step 5. Once the simulator restarts, verify the updated firmware version in the “About” section of the HMI.

2.3 HMI Firmware

Step 1. Copy the required firmware file (“mtip”) onto a USB pen drive.

Step 2. Connect the power cord to the simulator and switch it “ON”.

Step 3. Insert the USB pen drive into the “USB2” port on the simulator panel.

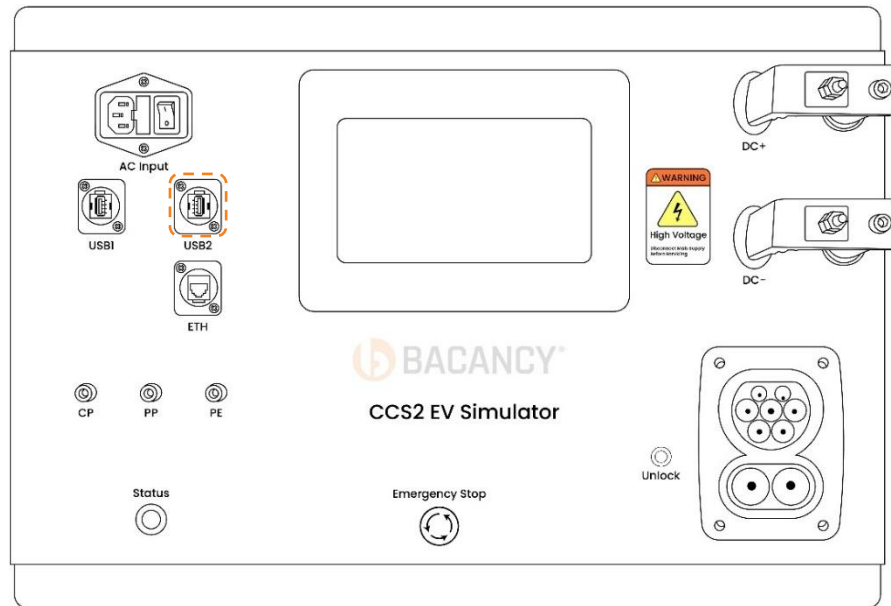


Figure 7 Insert a USB pen drive into the USB 2 Port.

Step 4. A “Download/Upload” dialogue box will appear. Press the “Download” icon on the HMI screen.

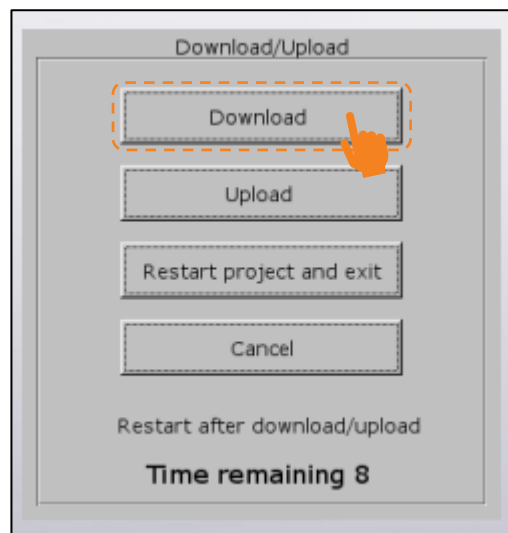


Figure 8 Press the “Download” Icon.

Step 5. Enter the HMI password. The default password is “11111”.

Step 6. When the [Pick a Directory] dialogue box appears, select the folder that contains the OS file.

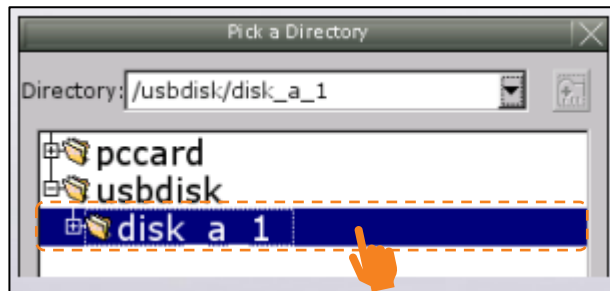




Figure 9 Select the OS File.


Step 7. The system will begin the upgrade process. This may take a few minutes. Do not turn "OFF" the power during the upgrade.


Step 8. After the upgrade is complete, the system will automatically restart the HMI.

NOTE!	Unable to Update Firmware
	<p>If a user is unable to update the firmware, please contact Bacancy Systems' technical support team.</p>

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