


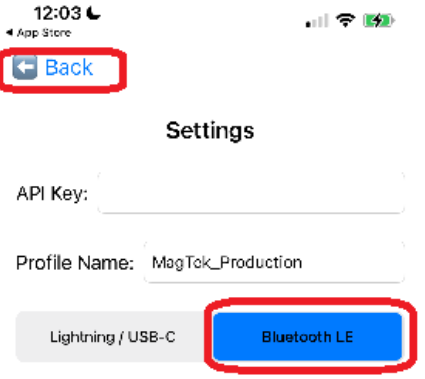


Quick Installation Guide
Firmware and EMV Update

The purpose of this document is to walk users through the steps to update MagTek tDynamo through Bluetooth LE with the latest firmware, EMV tags, and CAPK files as required by the Card Brands. This process requires the use of MagTek’s free **Reader Management System** iOS app. This update process should take less than 15 minutes per device.

<p>1. Download the MagTek Reader Management System from the App Store. Open the app.</p>	
<p>2. Ensure the tDynamo is fully charged or plugged into a power source. To check the battery charge level, ensure the device is powered on and awake, then briefly tap the side pushbutton. The Status LEDs light up to show the battery level as follows:</p> <ul style="list-style-type: none"> • One LED = Battery level is under 50% • Two LEDs = Battery level is between 50% and 70% • Three LEDs = Battery level is between 70% and 90% • Four LEDs = Battery level is above 90% 	
<p>3. On the host device tap [Settings] to access the settings screen.</p>	
<p>4. In the settings screen, tap [Bluetooth LE] button. Confirm Profile Name is [MagTek_Production]. Tap <back arrow> to return the main screen</p> <p>Note: If you have received a custom WebAPI Key and Profile Name from MagTek, then enter both values in the Settings Screen. Skip this step if you haven’t received a custom WebAPI key. The default Profile Name is MagTek_Production.</p>	

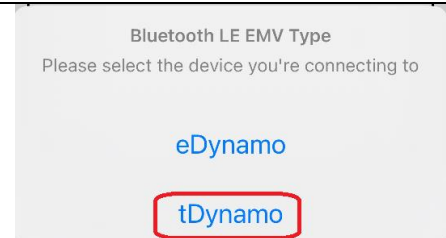
5. Put the tDynamo into pairing mode by pressing the pushbutton for 2 seconds. The bottom LED flashes a faint **BLUE** for up to 2 minutes or until a host pairs or connects.



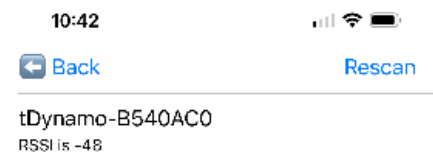
6. Tap **[Connect]**.



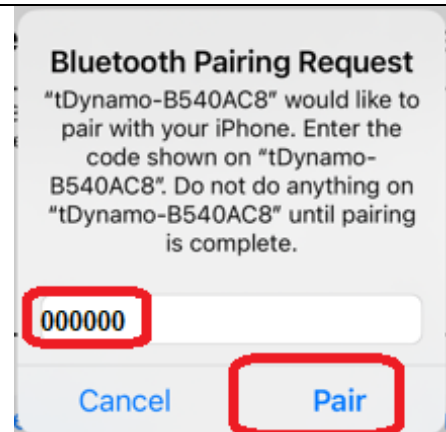
7. Select **[tDynamo]**.



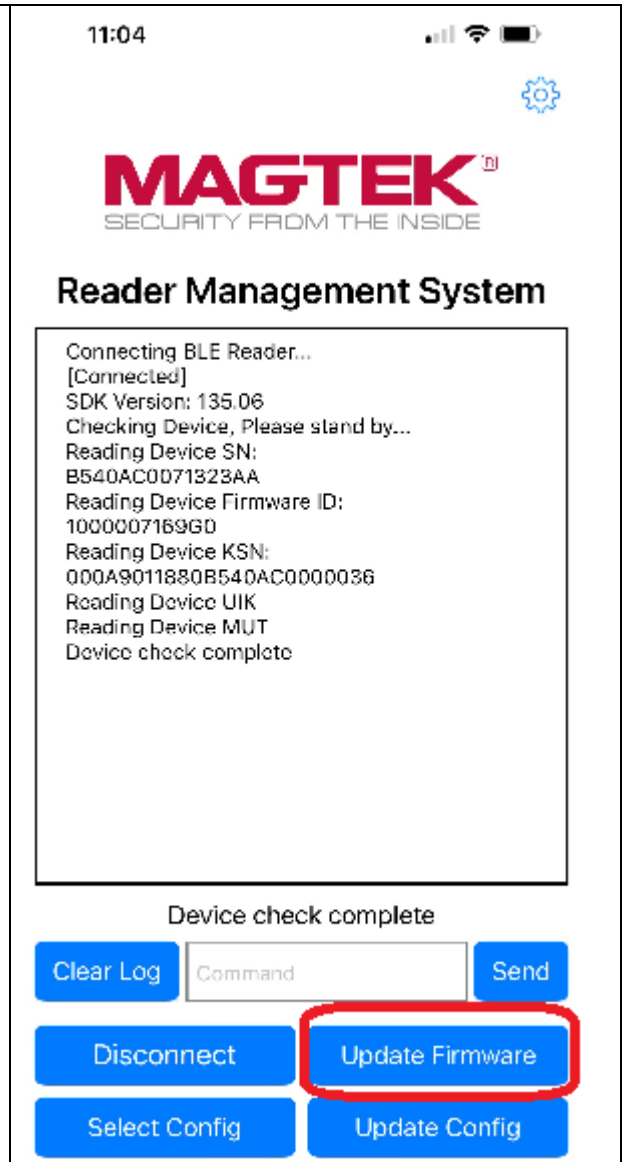
8. Select (Tap) the device by serial number, e.g. **[tDynamo-B540ACO]**.



9. Enter pairing code **[000000]** and tap on **[Pair]**



10. The **RMS** app will connect to the reader and check the device S/N, Main firmware version, and KSID. Tap on **[Update]**.



11. Do not turn off iPhone/iPad or switch screens during update. Tap **[OK]** button.



12. If **RMS** detects an older firmware version, then the new firmware release notes and features are presented. Tap **[Yes]** or **[No]** to update the main firmware.

Do you want to update the Main firmware?

FW1000007169 G0
Enhancements and Features

- o General enhancements
- o Updated data handling
- o Updated transaction handling during low battery

FW1000007169 E0 Released 2023-01-30

1. Added DF49, DF4A and Extended command to read the overall checksum for the Tags and CAPKs.
2. Tag 8A was added to the report for the transaction result of Paypass.
3. Tag 9F39 was added to the report in the ARQC of Paypass.
4. When fallback occurs, Tag 9F39 was added to 0x80.
5. Fixed an issue with Language Selection so it is available with a Chip Transaction.
6. Improved battery reading accuracy by averaging voltage data from multiple batteries.
7. Aligned the configured charging voltage as cutoff voltage so the Battery can reach 100%.
8. Added Command 0x72 and Property 0x76 to change the charging behavior of the battery.
9. Reduced the baud rate to 115200 between MCU & BLE module for improving the stability of UART and reducing BLE Disconnected

13. The main firmware downloads, installs, and progress bar is displayed. The reader's bottom LED turns **RED** during the firmware update. The firmware update may take up to 5 minutes to complete.

Beginning (Dynamo Gen 2 Main Firmware G0 Update...
[Disconnected]
[Bluetooth LE Reader Disconnected]
Detecting Device...

Progress: 81.7%

14. **[All Done!]** message appears in the log when complete. You may exit **[X]** the application and test the reader.

Update
Main firmware updated successfully
[Loading Tags configurations...]
Loading MagTek Default Contact Tags and
CAPK...
Done Loading MagTek Default Contact Tags
and CAPK
No configuration description received
No Configuration Named:
MagTek_Production-payWave213DB
Updating Amex ExpressPay Tags and CAPK...
Done Updating Amex ExpressPay Tags and
CAPK
Updating Discover Tags and CAPK...
Done Updating Discover Tags and CAPK
Done Loading Tags configurations

Total time was: 10 minutes 34 seconds for
updating FW
There were 3204 Commands Processed
(include BLE if have) for updating FW

All Done!
[Disconnected]
[Bluetooth LE Reader Disconnected]