

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.

 Download the MagTek Reader Management System from the App Store. Open the app. 	Search MagTek Reader Management Sy Finance	
 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: 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% 		
3. On the host device tap [Settings] to access the settings screen.	8:55 MAGTEK SECURITY FROM THE INSIDE Reader Management System	
4. In the settings screen, tap [Bluetooth LE] button. Confirm Profile Name is [MagTek_Production]. Tap <back arrow=""> to return the main screen</back>	12:03 ⊌ App Store Back Settings	
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 .	API Key: Profile Name: MogTok_Production Lightning / USB-C Bluetooth LE	

Please note that the use of this accessory with an Apple product may affect wireless performance. Apple®, Apple Pay®, OS X®, IPhone®, iPad Air®, iPad Air®, iPad Air®, iPad Pro®, Lightning®, and Mac® are trademarks of Apple Inc., registered in the U.S. and other countries. EMV® is a registered trademark in the U.S. and other countries and an unregistered trademark descenter trademark is owned by EMVCo, LLC. The Contactless Indicator mark, consisting of four graduating arcs, is a trademark owned by and used with permission of EMVCo, LLC.



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] .	Clear Log Command Send Connect Update Firmware Select Config Update Config
7. Select [tDynamo] .	Bluetooth LE EMV Type Please select the device you're connecting to eDynamo tDynamo
8. Select (Tap) the device by serial number, e.g. [tDynamo-B540ACO] .	10:42 २२ २२ Back Rescan tDynamo-B540AC0 RSSLis -48
9. Enter pairing code [000000] and tap on [Pair]	Bluetooth Pairing Request "tDynamo-B540AC8" would like to pair with your iPhone. Enter the code shown on "tDynamo- B540AC8". Do not do anything on "tDynamo-B540AC8" until pairing is complete. 000000 Cancel Pair



10. The RMS app will connect to the reader and check the device S/N, Main firmware version, and KSID. Tap on [Update] .	11:04	• ■ ♦ ■)	
	Reader Manag	ement System	
	Connecting BLE Reader [Connected] SDK Version: 135.06 Checking Device, Please stand by Reading Device SN: B540AC0071323AA Reading Device Firmware ID: 1000007169G0 Reading Device KSN: 000A9011830B540AC0000036 Reading Device VIK Reading Device MUT Device check complete		
	Device check complete		
	Clear Log Command	Send	
	Disconnect	Update Firmware	
	Select Config	Update Config	
11. Do not turn off iPhone/iPad or switch screens during update. Tap [OK] button.	F Checking & Updating Firmware Please do not turn off your IPhone/ IPad screen manually.		
	Cancel	ОК	



12. If RMS detects an older firmware version, then the new	Do you want to you date the	
firmware release notes and features are presented. Tap [Yes] or	Do you want to update the Main firmware?	
[No] 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	
	 Added DF49, DF4A and Extended command to read the overall checksum for the Tags and CAPKs. Tag 8A was added to the report for the transaction result of Paypass. Tag 9F39 was added to the report in the ARQC of Paypass. When fallback occurs, Tag 9F39 was added to 0x80. Hyper fallback occurs, Tag 9F39 was added to 0x80. Hyper an issue with Language Selection so it is available with a Chip Transaction. Improved battery reading accuracy by averaging voltage data from multiple batteries. Aligned the configured charging voltage as cutoff voltage so the Battery can reach 100%. Added Command 0x72 and Property 0x76 to change the charging behavior of the battery. Reduced the baud rate to 115200 between MCU & BLE module for improving the stability of UART and reducing BLE Discusses 	
13 The main firmware downloads installs and progress har 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 tDynamo Gen 2 Main Firmware G0 Update [Disconnected] [Bluetooth LE Reader Disconnected] Detecting Device	
	Clear Log Command Send	
	Disconnect Update Firmware	
	Select Config Update Config	



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