

MagTek tDynamo GenII CAPK File Update Guide (BlueTooth iOS)

This guide will walk you through the steps to update your MagTek tDynamo GenII 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 no more than 15 minutes per device.

| 1) | Download the MagTek Reader Management System from the App Store. Open the app. | Search MagTek Reader Management Sy Finance T |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| 2) | Make sure the tDynamo is fully charged or plugged into a power source. To check the battery charge level, make sure 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% | MAGTEK |
| 3) | Tap Settings to access the Settings screen. | Clear Log Command Send Settings Connect Update Discnect |



| 4) | In the Settings screen, tap Bluetooth LE button. Confirm Profile Name is MagTek_Production Tap Back arrow to return the Main screen | 12:03 ↓ Image: Settings Settings API Key: Profile Name: MagTak_Production Lightning / USB-C Bluetooth LE |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 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 on Connect | |
| | | Clear Log Command Send |
| | | Settings Connect Update Discnect |
| 7) | Select tDynamo | Bluetooth LE EMV Type Please select the device you're connecting to |
| | | eDynamo |
| | | tDynamo |



| 8) | 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. O00000 Cancel Pair |
|----|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9) | The RMS app will connect to the reader and check the device S/N, Main firmware version, and KSID. Tap on Update . | Reconnecting BLE Reader [Disconnected] [Bluetooth LE Reader Disconnected] [Connected] SDK Version: 133.01 Checking Device, Please stand by Reading Device SN: 7 digit S/N B540AC8 B540AC8 9714233AA Reading Device Firmware ID: 1000007169003 Reading Device Firmware ID: 0000/90161409540AC800001B Reading Device UIK Reading Device WUT 7 digit KSID Device check complete |
| | | Clear Log Command Send |
| | | Seria Seria |
| | | Settings Connect Update Discnect |



| 10) Тар ОК | Checking & Updating Firmware Please do not turn off your IPhone/ IPad screen manually. | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| | Guilder | | |
| 11) 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 wa Main FW1000007169 GC Enhancements and o General enhan o Updated data o Updated trans low battery FW1000007169 EC 1. Added DF49, DF command to read 1 the Tags and CAPK 2. Tag 8A was add transaction result o 3. Tag 9F39 was ad ARQC of Paypass. 4. When fallback o added to 0x80. 5. Fixed an issue w so it is available wi 6. Improved batter averaging voltage o batteries. 7. Aligned the conf as cutoff voltage s 100%. 8. Added Comman 0x76 to change the the battery. 9. Reduced the bat between MCU & Bit | nt to update the firmware?) Features coments handling action handling during) Released 2023-01-30 4A and Extended the overall checksum for ts. ed to the report for the of Paypass. dided to the report for the of Paypass. dided to the report in the cours, Tag 9F39 was ith Language Selection th a Chip Transaction. yreading accuracy by data from multiple igured charging voltage of the Battery can reach d 0x72 and Property ocharging behavior of upd rate to 115200 LE module for improving XT and reducing BLE | |
| | No | Yes | |



| 12) 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. The CAPK and EMV tags will be updated to the latest MagTek Hybrid Universal with release date 7/31/2023. An EMV update event is recorded in the RMS database for this serial number for future EMV file updates. | Progress: 1.7% Clear Log Command Send Settings Connect Update Discnect |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13) When the "All Done!" message appears in the log, then the update is complete. You may exit 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] |