

MagTek Reader Management System (RMS)

**Android Application
Installation and Operation Manual**



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Table 0-1 - Revisions

Rev Number	Date	Notes
100	December 2024	Initial Release
110	January 2025	Update Copyright Dates throughout. Updated About Screen image in 3.2.5 About .

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1 Overview

The MagTek Reader Management System (RMS) is a comprehensive application with specialized source code designed to streamline the configuration and update process for MagTek readers in enterprise environments. Its primary functions include firmware management, key injection, device configuration, and the loading and management of terminal, application settings, and Certificate Authority Public Keys (CAPKs) required for EMV contactless transactions.

1.1 Purpose

The Reader Management System (RMS) application is designed to be compatible with all DynaFlex, DynaProx, and MagneSafe products available from MagTek.

- The main purpose of this app is to streamline the ability to load firmware, device configs, keys, Tags and CAPKs into a target reader or more importantly, a large quantity of geographically separated readers.
- The target files are 100% MagTek managed (files managed at MagTek's host) so the user is not able to load the wrong files by accident.
- The app can auto execute or manually execute the update process which can include all of the above file options in a single action. This prevents the need to load individual files which is cumbersome and not practical for scale.
- The source code can be used to integrate this functionality into 3rd party apps which makes it easier for developers to use Magensa Remote Services.

1.2 Benefits

The MagTek Reader Management System (RMS) provides several key benefits for merchants and businesses, these include:

1. **Centralized Management:** RMS allows for the remote management and configuration of MagTek readers across multiple locations from a single platform. Merchants can update firmware, keys, terminal settings, and CAPKs without manual intervention, reducing time, cost, and effort.
2. **Enhanced Security:** RMS supports compliance with industry standards, such as PCI DSS, by ensuring secure payment card transactions and protecting sensitive customer data. It enables a secure process for keeping readers up to date with the latest firmware and configurations.
3. **Efficient Updates:** RMS automates firmware updates and maintenance, allowing merchants to push updates remotely. This ensures all devices run the latest firmware, enhancing system reliability and reducing the need for manual updates.
4. **System Reporting:** RMS offers reporting capabilities to track firmware versions and device settings, providing detailed insights by serial number for firmware, terminal, and CAPK updates in both production and test environments.
5. **Scalability and Flexibility:** RMS is scalable to meet the needs of businesses, whether for a single store or multiple locations. It supports both Android, iOS and Windows, allowing flexibility in device management. (*See each OS specific installation manual for further details*)
6. **Cost Savings:** Automating reader management with RMS reduces the need for on-site visits, lowering maintenance costs and minimizing downtime. Centralized control streamlines administrative tasks, boosting operational efficiency.

7. **Improved Customer Experience:** Efficiently managed payment readers reduce transaction errors and delays, improving customer satisfaction and loyalty, which positively impacts business reputation and revenue.

Android System Requirements

The RMS app is compatible with Android OS

Note: Not all configuration options are available for all Secure Card Reader Authenticators (SCRAs). The available configuration options depend on:

- The specific SCRA model in use.
- The configuration options provided by MagTek.

Important: Some commands may require a device reset.

- Refer to the Programmer's Manual for your particular device to see which commands are affected. (See **Appendix B Related Documentation.**)

RMS Android Application

- Android Application (PN 1000009733)
- Compatible with both USB and Bluetooth Low Energy (BLE) connected readers, as well as WLAN enabled readers.
- Supports MagTek MagneSafe and DynaFlex/DynaProx readers.

2 Magensa Remote Services

- Customer needs a Remote Services (RS) Account for billable services
- Customer DOES NOT need an RS Account for non-billable services
- Billing occurs upon RS activity (this middleware does NOT impact the billing mechanics with RS)
- Middleware between Magensa RS and Client App

Its main differentiator is to allow a developer or user to auto-launch or single-click within their app to perform:

1. Loads Firmware for V5 readers
2. Main FW and BLE FW
3. By Device ID so blending readers across various generations with differing FW files
4. Loads Terminal and Application Settings
5. Loads CAPKs
6. Loads keys
7. Load Device Configs

3 Installation and User Interface

3.1 Installation

Begin by downloading the [MagTek Reader Management System](#).

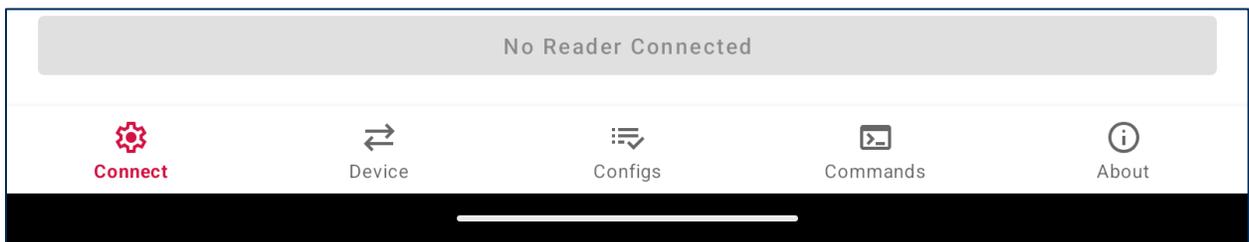


Open the **MagTek Reader Management System** Android app.

3.2 Tabs

The main User Interface consists of five tabs located at the bottom of the page. These tabs are labeled as follows:

- Connect
- Device
- Configs
- Commands
- About

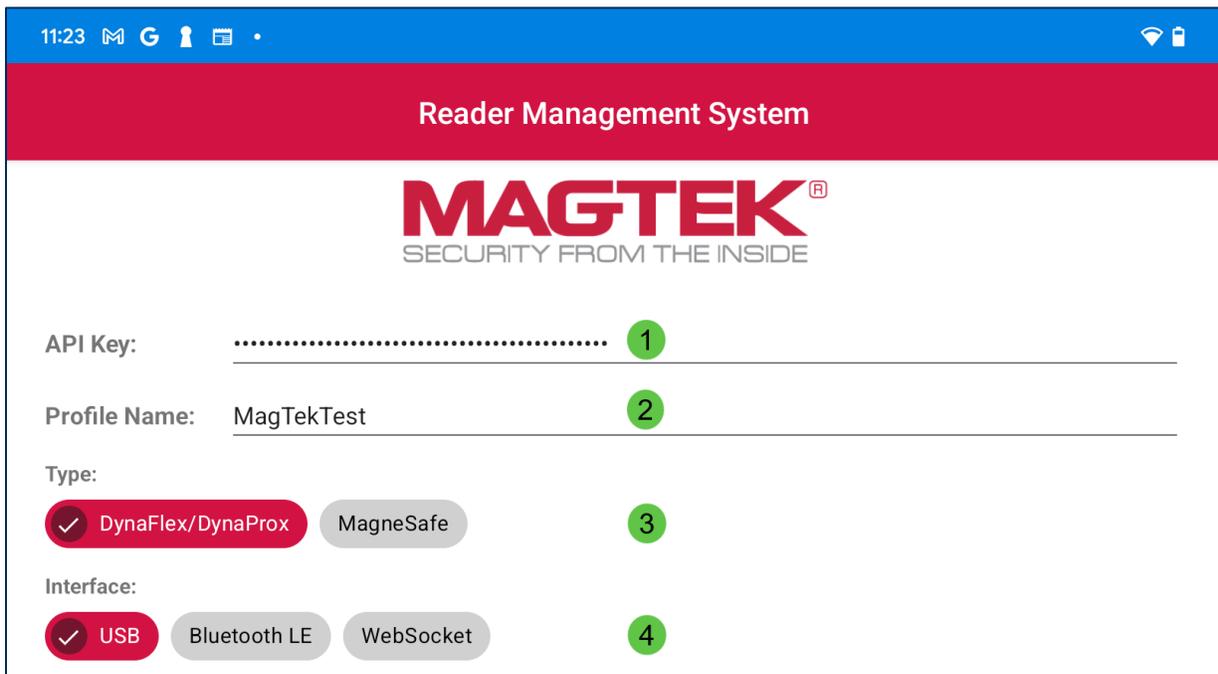


The Active Tab icon will be highlighted red as illustrated above.

3.2.1 Connect

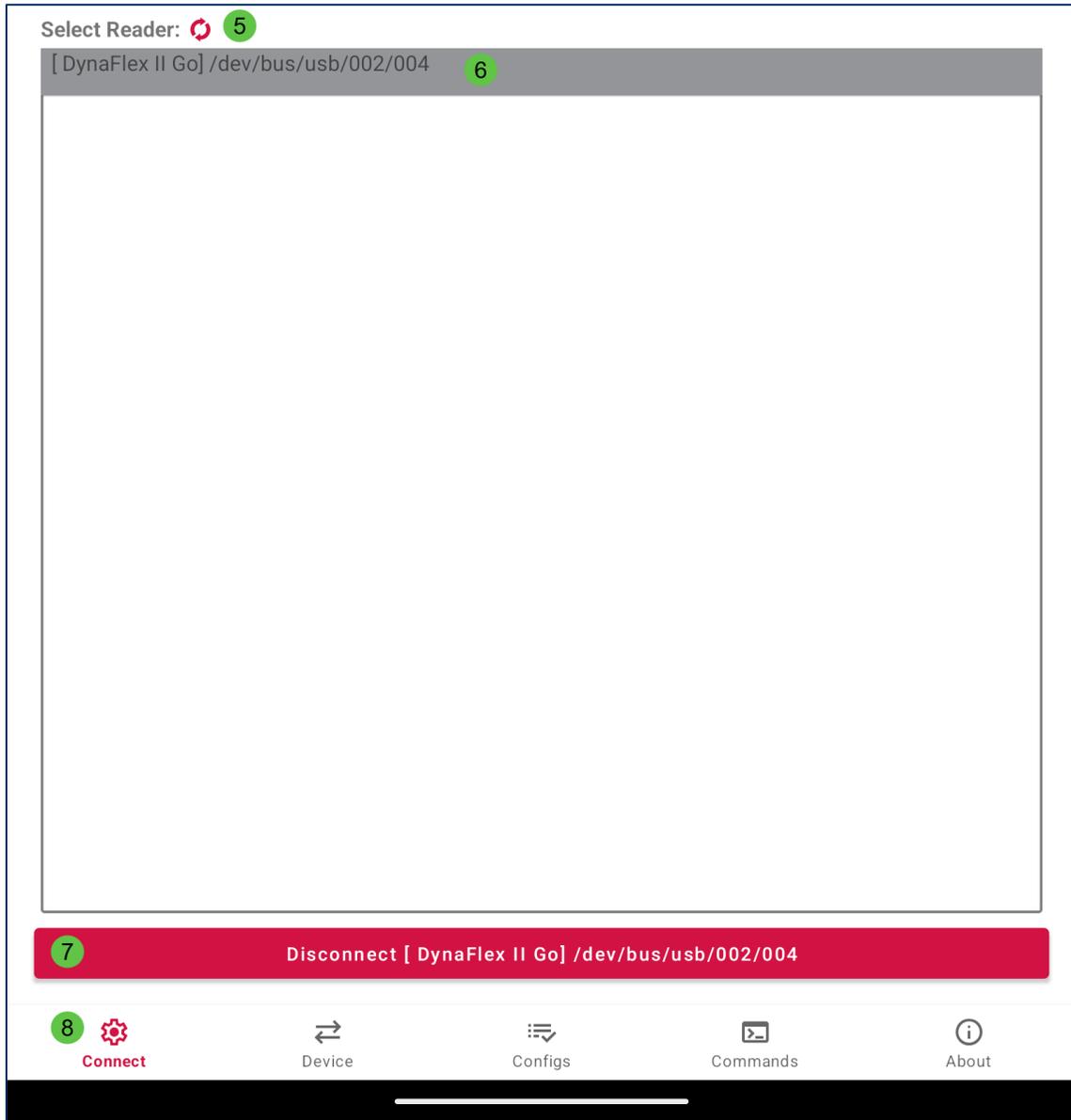
The **Connect Tab** will connect a device to the RMS app. The upper portion of the tab contains:

1. API Key: This field is automatically populated when a device is connected, the characters are masked for security reasons. Although the field is editable, it is not recommended to alter the API Key field.
2. Profile Name: The Profile Name will be provided during onboarding.
3. Device Type: There are two device type options, **DynaFlex/DynaProx** and **MagneSafe**
4. Interface Type: There are three interface types, **USB**, **Bluetooth LE**, and **WebSocket** for WLAN enabled devices.



The lower portion of the **Connect Tab** contains:

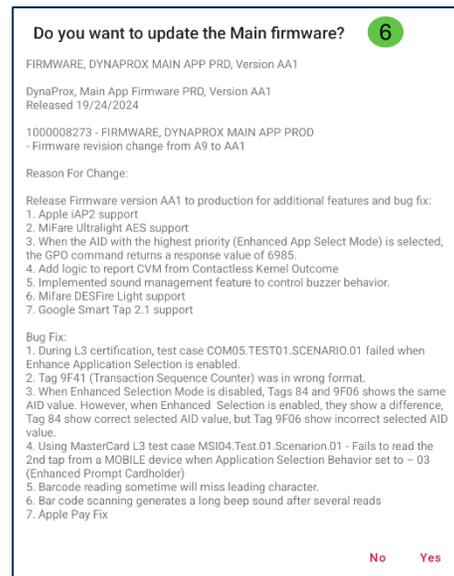
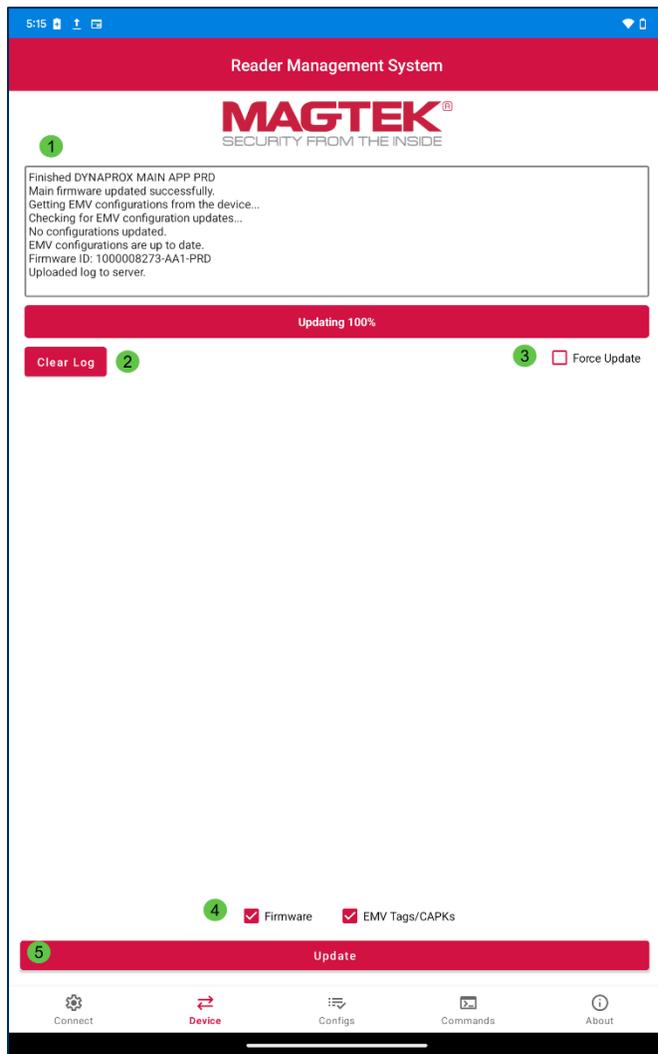
5. Select Reader Refresh : When connecting either USB or Bluetooth enabled devices, this button will refresh the list of available devices to connect to.
6. Device Name: Tap on the **Device Name** to connect.
7. No Reader Connected: This button becomes **Disconnect** after tapping on the device name to connect.
8. Main UI **Tab Bar**: The main tabs for the RMS app are located at the bottom of the screen. The active tab is highlighted red.



3.2.2 Device

The **Device Tab** will update device Firmware and EMV Tags/CAPKS.

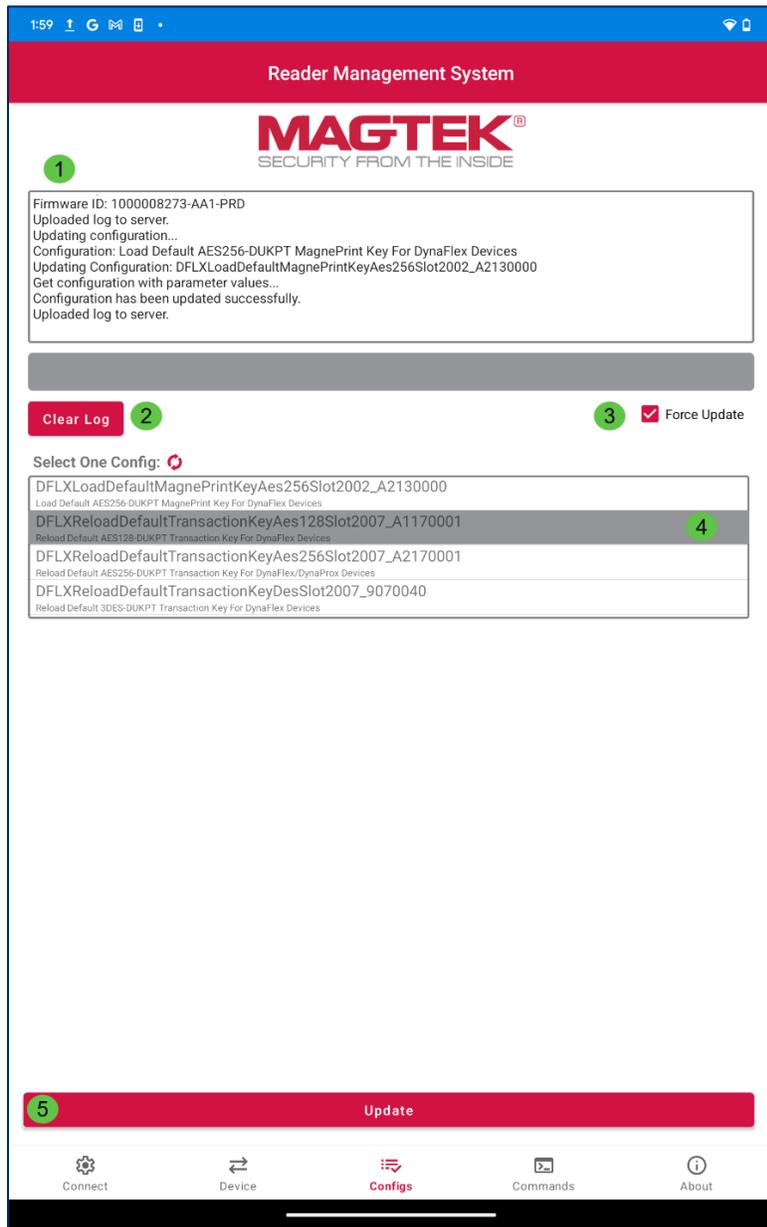
1. Log: The **Device Tab** contains a log of all events.
2. **Clear Log**: The Clear Log button will remove all log data until a new instance is provided by the reader.
3. Force Update: Enabling this option directs RMS to update Firmware, EMV Tags, and CAPKS regardless of their current version status. *DynaFlex devices do not support forcing Firmware update. Firmware option becomes unchecked and disabled; this feature is available only on MagneSafe devices.*
4. Update Options: The **Device Tab** contains pre-selected options to update Firmware and EMV Tags/CAPKS. The user can deselect either option if needed.
5. Update Button: The **Update** button loads the updates selected.
6. A prompt will appear and ask the user if they would like to update Main firmware. The user can press **No** or **Yes**.



3.2.3 Configs

The **Configs Tab** will update the device's configurations.

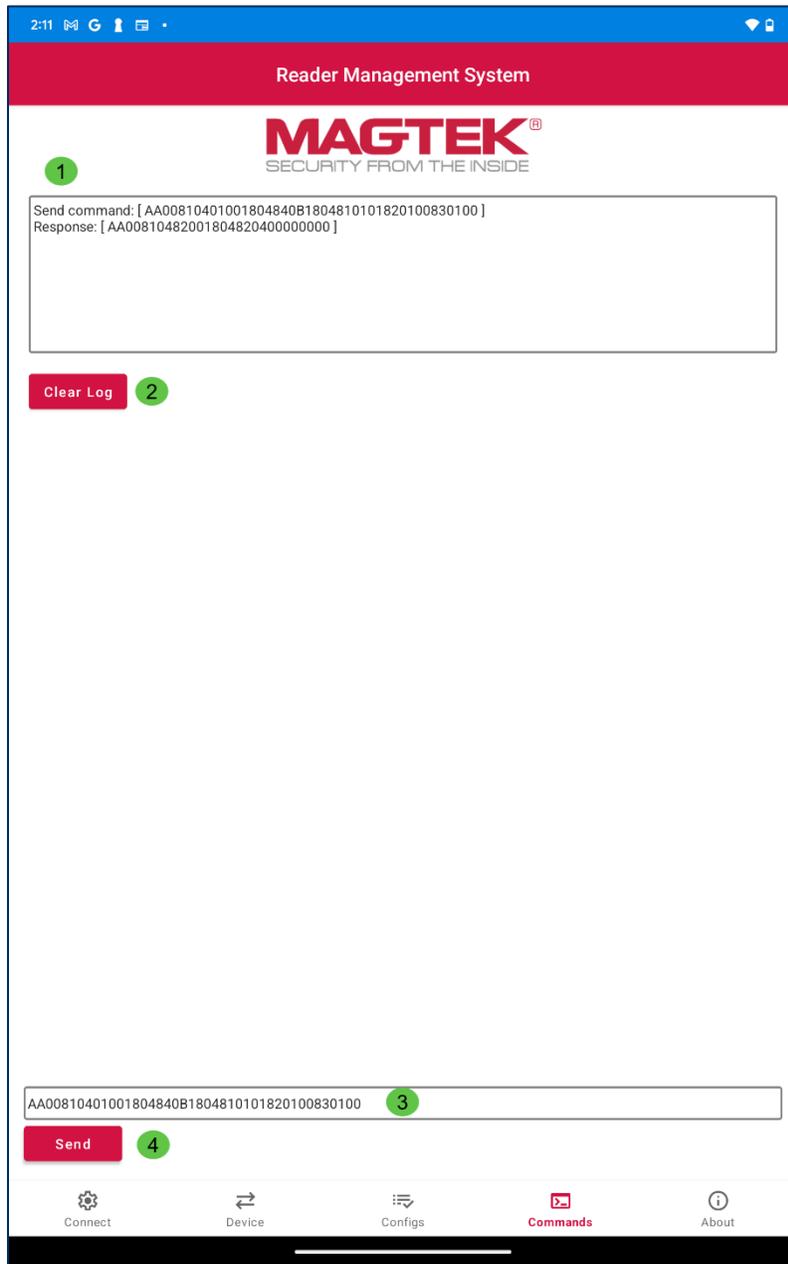
1. **Log:** The Configs Tab contains a log of all events.
2. **Clear Log:** The Clear Log button will remove all log data until a new instance is provided by the reader. The Refresh  button will refresh the list of available configurations for the device connected.
3. **Force Update:** Enabling this option directs RMS to update Configs regardless of their current version status. *DynaFlex devices do not support forcing Firmware update. Firmware option becomes unchecked and disabled; this feature is available only on MagneSafe devices.*
4. **Config List:** Tap on the desired configuration to select.
5. **Update:** Press the **Update** button to load the selected config.



3.2.4 Commands

The **Commands Tab** allows users to send commands to a device. Responses are recorded in the Log.

1. Log: The **Commands Tab** contains a log that will display the details of all commands entered and responses returned.
2. **Clear Log**: The Clear Log button will remove all log data until a new instance is provided by the reader.
3. Commands Field: This field allows the user to enter commands.
4. **Send**: This button sends commands to the reader.



3.2.5 About

The About Tab will display the App PN number, current version, and a link to **FAQs** available at MagTek.com.



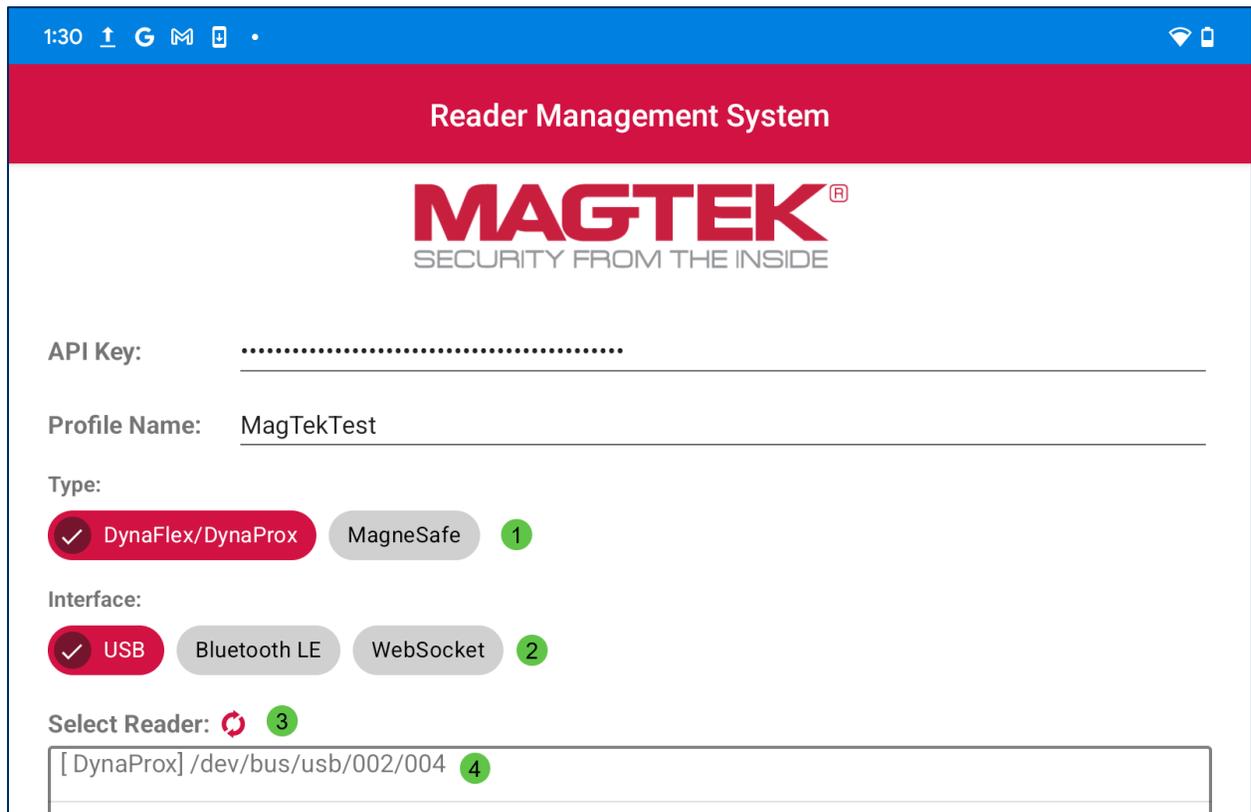
4 User Instructions

4.1 Connect to an Android Device

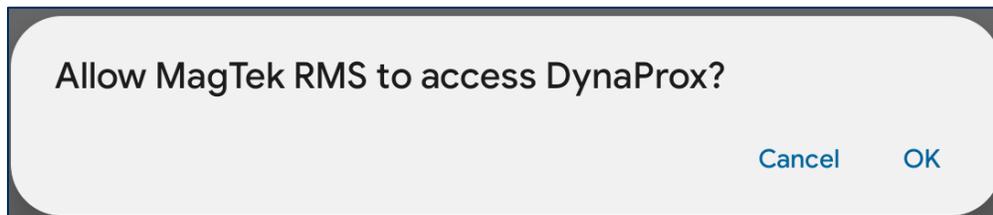
4.1.1 USB Cable

To connect to a device via USB, plug the device into a compatible Android device.

1. Select the **Device Type**
2. Select the **Interface Type**
3. The Refresh  button will refresh the list of available devices.
4. Tap on the **Device Name** to connect.



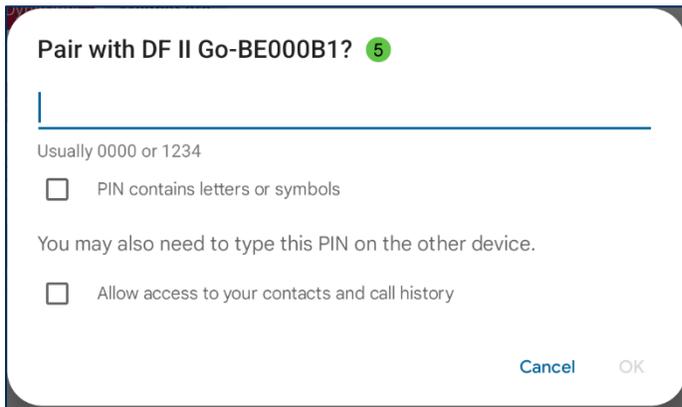
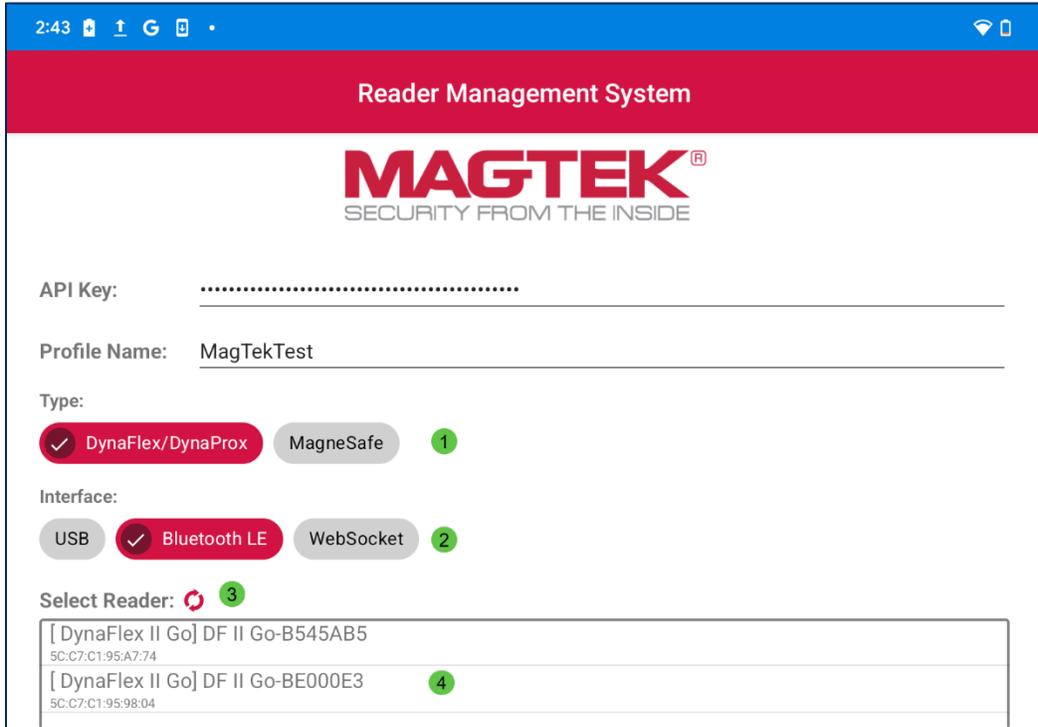
Press **OK** to allow RMS to access the device.



4.1.2 Bluetooth LE

To connect to a device via Bluetooth LE, open the Android app and follow the steps below. It is important to note that Bluetooth pairing will be done through the RMS app, not through Android device settings.

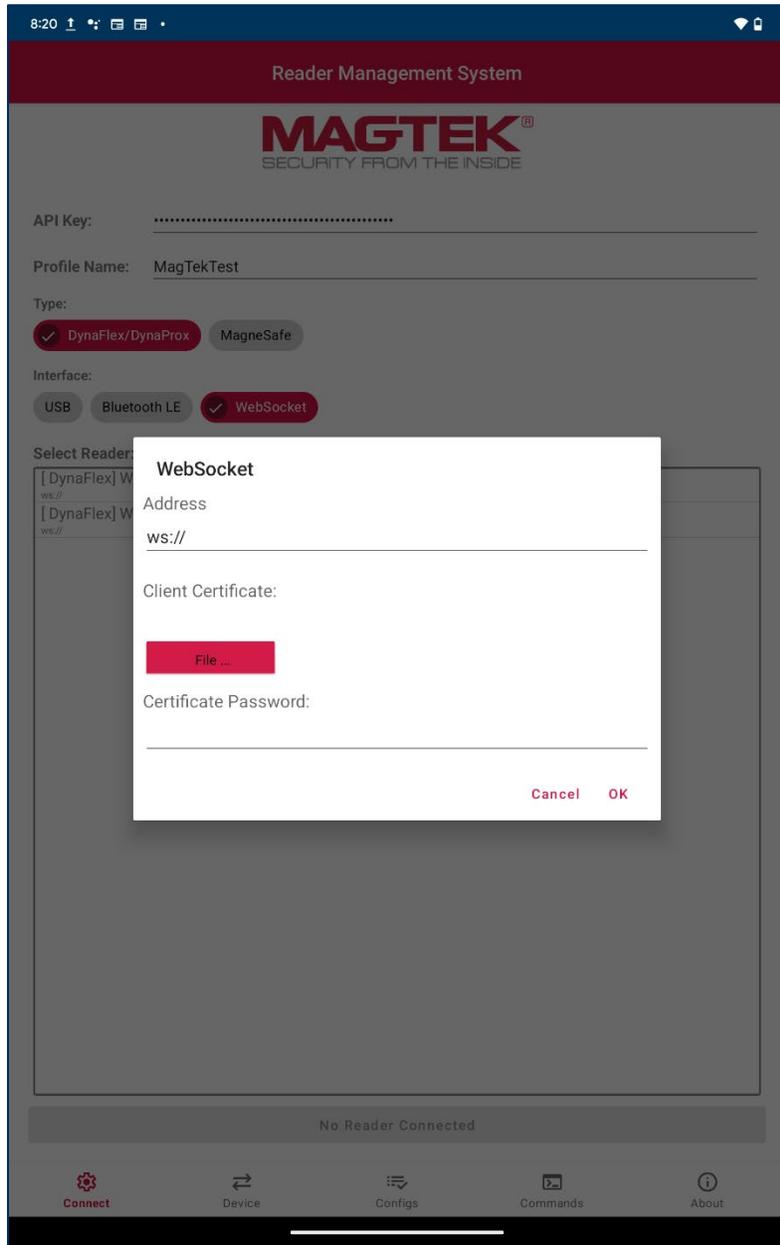
1. Select the **Device Type**
2. Select the **Interface Type**
3. Press the Refresh  button if the device does not appear.
4. Tap on the **Device Name** below.
5. When connecting to a device via Bluetooth LE for the first time, a prompt will appear and require the user to enter the PIN. Default is 000000,



4.1.3 WebSocket

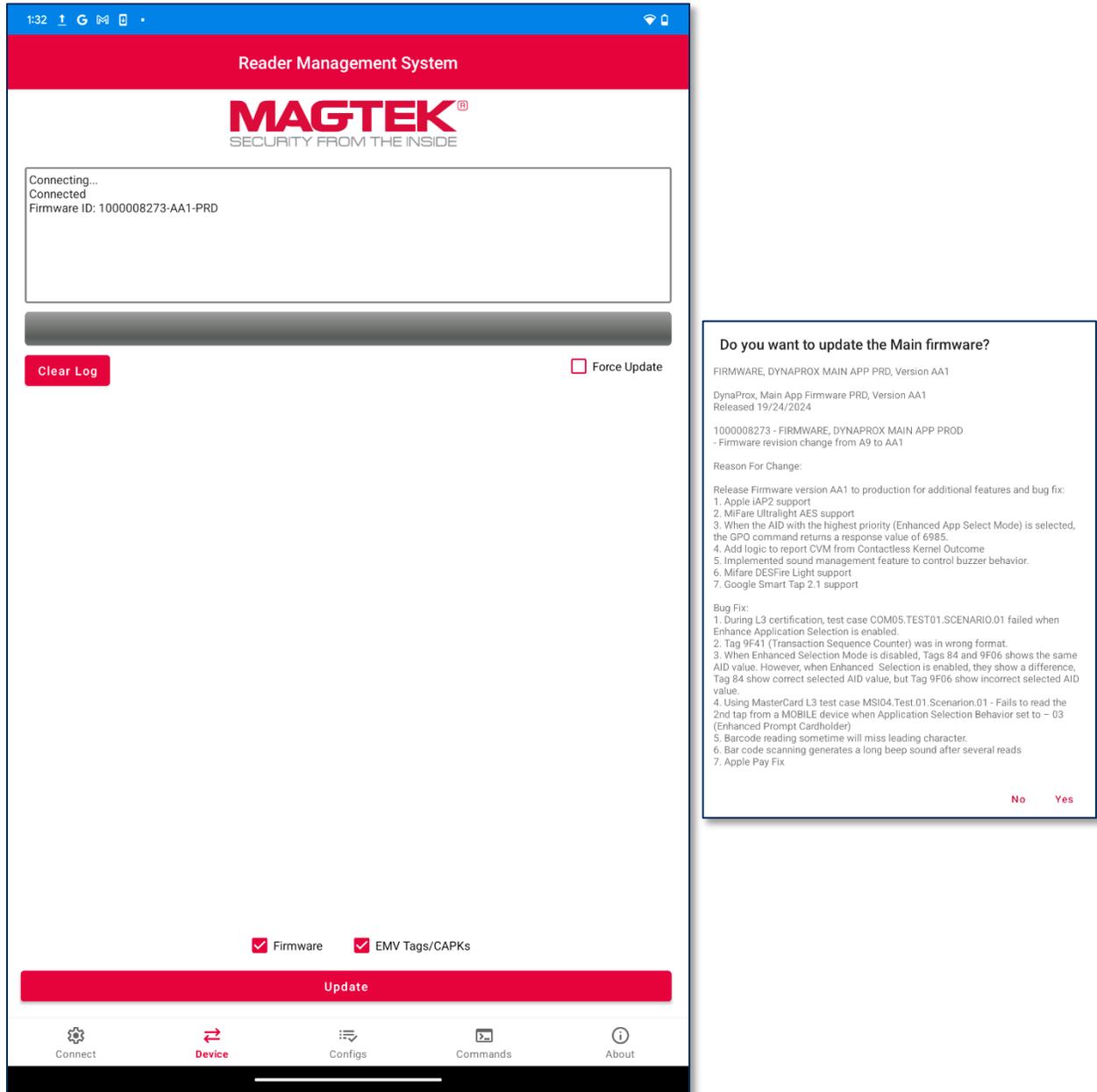
To connect to a device via WebSocket (WLAN), follow the instructions in the device’s installation and operation manual, see **Appendix B Related Documentation**.

- Select the **Device Type** (*Only DynaFlex Products Support WLAN currently.*)
- Select **WebSocket**
- Enter the device IP address in the prompt. If connecting by TLS start the address with “wss://”. If connecting by mTLS start the address with “wss://”, press **File** to load the certificate from a file location, enter the password and press **OK**.



4.2 Update Firmware and EMV Tags/CAPKS

To update device Firmware and EMV Tags/CAPKS, check the desired item to update and press the **Update** button. Only the updates that are selected will be loaded to the device. A prompt will appear asking the user if they would like to update Main firmware, press **YES**.



Note: The Force Update option will update both Firmware and EMV Tags/CAPKS regardless of their current versions. DynaFlex devices do not support forcing Firmware update. Firmware option becomes unchecked and disabled, it is available MagneSafe devices only

4.2.1.1 Updates Successful

The log will indicate:

- If current configurations are up to date,
- If updates have succeeded,
- If updates have failed

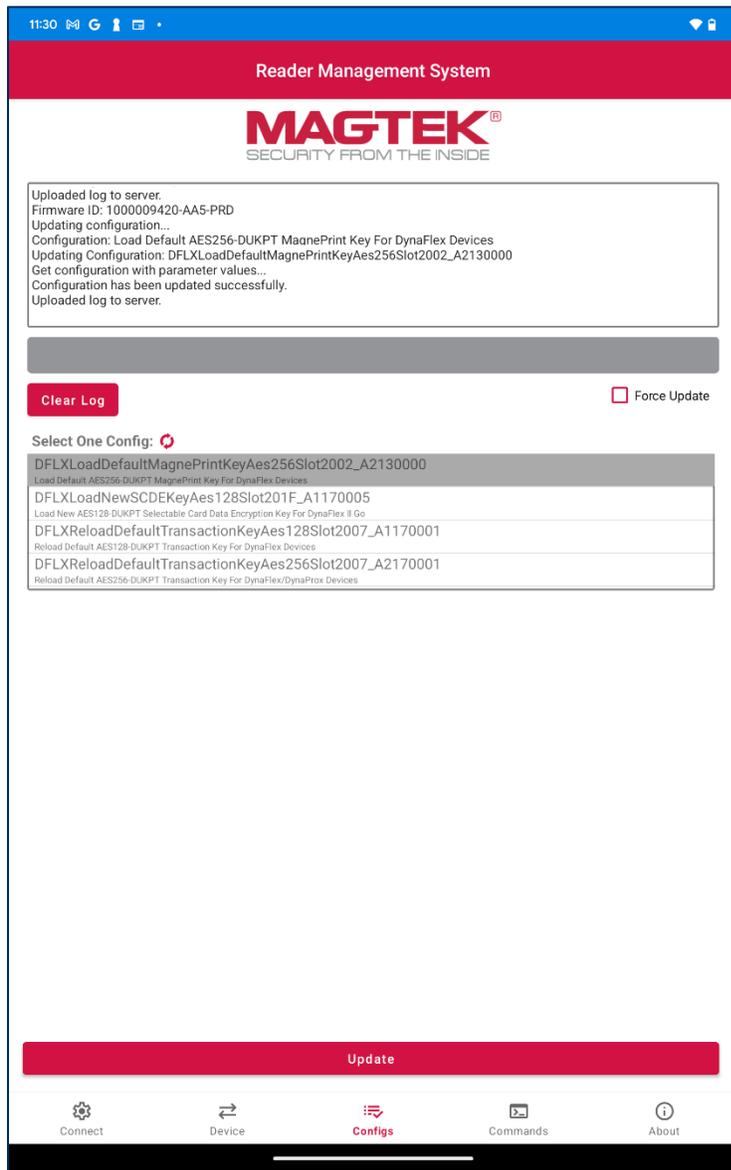


4.3 Configurations

To update or change your device's configurations:

- Tap on desired configuration to select.
- Press the **Update** button to load the update.
- Press **Clear Log** to clear the log if needed.
- Press **Refresh**  to refresh the list of available configurations if none appear.

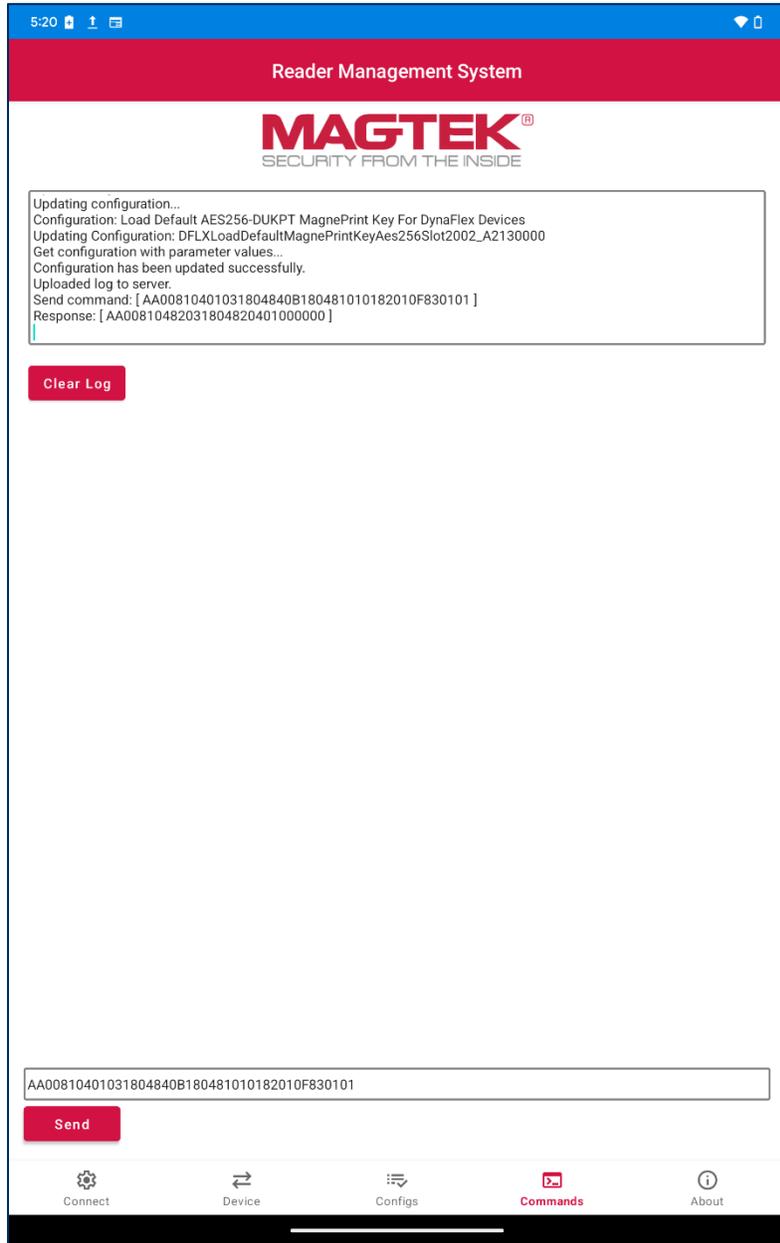
The log will indicate if the configuration update is successful or if it has failed.



4.4 Commands

To send a command to the device and receive a response:

- Enter a command in the **Command Field** and press **Send**.



In this example, the command entered was successfully sent and a response returned. This command turns on the device's Bar Code Reader LED. The log indicates it was sent successfully, the response command matched the programmer's manual and the LED illuminated. Refer to your device's particular programmer's manual for a full list of commands, see **Appendix B Related Documentation**.

Appendix A Glossary of Terms

- API – Application Programming Interface
- EMV –Europay, MasterCard® and Visa®
- FAQs – Frequently Asked Questions
- KSN - Key Serial Number
- MUT - MagTek Update Token
- SDK – Software Developer’s Kit
- SN - Serial Number
- UIK - Unique Identifier Key

Appendix B Related Documentation

To view or download any of the documents mentioned in this manual, visit <https://www.magtek.com/support>.

B.1 Installation and Operation Manuals

D99820020-DYNAMAG DUO INSTALLATION AND OPERATION MANUAL

D998200382- DYNAFLEX FAMILY OF PRODUCTS THREE-WAY SECURE CARD READER AUTHENTICATORS INSTALLATION AND OPERATION MANUAL

D998200595- DYNAFLEX II GO SECURE CARD READER AUTHENTICATOR INSTALLATION AND OPERATION MANUAL

D998200110- EDYNAMO INSTALLATION AND OPERATION MANUAL

D998200321- IDYNAMO 6 INSTALLATION AND OPERATION MANUAL

D998200614- IDYNAMO 5 GEN III SECURE CARD READER INSTALLATION AND OPERATION MANUAL

D998200257- TDYNAMO INSTALLATION AND OPERATION MANUAL

D998200203- DYNAMAG DUO INSTALLATION AND OPERATION MANUAL

D998200104- DYNAPAD INSTALLATION AND OPERATION MANUAL

D998200265- DYNAWAVE INSTALLATION AND OPERATION MANUAL

B.2 Programmers Manuals

D998200383-DYNAFLEX PRODUCTS THREE-WAY SECURE CARD READER AUTHENTICATORS PROGRAMMER'S MANUAL (COMMANDS)

D998200489-DYNAPROX PRODUCTS EMV CONTACTLESS/NFC CARD READERS PROGRAMMER'S MANUAL (COMMANDS)

D998200597-DYNAFLEX II GO SECURE CARD READER PROGRAMMER'S MANUAL (COMMANDS)

D998200115-EDYNAMO PROGRAMMER'S MANUAL (COMMANDS)

D998200324-IDYNAMO 6 PROGRAMMER'S MANUAL (COMMANDS)

D998200226-TDYNAMO PROGRAMMER'S MANUAL (COMMANDS)

D998200587-IDYNAMO 5 GEN III SECURE CARD READER PROGRAMMERS MANUAL (COMMANDS)

D998200176-DYNAMAG / MAGNESAFE V5 INTELLIHEAD USB / MAGNESAFE V5 READERS USB PROGRAMMER'S MANUAL (COMMANDS)

D998200173-DYNAPAD PROGRAMMER'S MANUAL (COMMANDS)

D998200215- DYNAWAVE PROGRAMMER'S MANUAL (COMMANDS)

Appendix C Warranty and Software License

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